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FINAL REPORT FOR TANK 241B204 PUSH MODE CORES 112
& 114 [SEC 1 OF 3 PAGE 1 THRU 588]

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therefore it required breaking into smaller sections.

Document number: SD-WM-DP-1160

Section 1 of 3

Title: Final Report for Jank 241BA04 Push-mode Ceres
112 & 114

Project: Hume

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Originator: Asahi LM

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ENGINEERING CHANGE NOTICE

Page 1 of 2

1. ECN No 625385

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ECN

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Page 2 of 2

1. ECN (use no. from pg. 1)

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Operating Specification	☐	Interface Control Drawing	☐	Spares Multiple Unit Listing	☐
Criticality Specification	☐	Calibration Procedure	☐	Test Procedures/Specification	☐
Conceptual Design Report	☐	Installation Procedure	☐	Component Index	☐
Equipment Spec.	☐	Maintenance Procedure	☐	ASME Coded Item	☐
Const. Spec.	☐	Engineering Procedure	☐	Human Factor Consideration	☐
Procurement Spec.	☐	Operating Instruction	☐	Computer Software	☐
Vendor Information	☐	Operating Procedure	☐	Electric Circuit Schedule	☐
OM Manual	☐	Operational Safety Requirement	☐	ICRS Procedure	☐
FSAR/\$AR	☐	IEFD Drawing	☐	Process Control Manual/Plan	☐
Safety Equipment List	☐	Cell Arrangement Drawing	☐	Process Flow Chart	☐
Radiation Work Permit	☐	Essential Material Specification	☐	Purchase Requisition	☐
Environmental Impact Statement	☐	Fac. Proc. Samp. Schedule	☐	Tickler File	☐
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"FINAL REPORT FOR TANK 241-B-204, PUSH MODE CORES 112 AND 114."

Leela M. Sasaki

Westinghouse Hanford Company, Richland, WA 99352

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WHC-SD-WM-DP-160, REV. 1

ANALYTICAL SERVICES

**FINAL REPORT FOR TANK 241-B-204,
PUSH MODE CORES 112 AND 114**

Project Coordinator: LEELA M. SASAKI

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

by

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Part I consists of pages 1 through 1256, plus page 1226.1.

Part II consists of pages 2-1 through pages 2-415, plus pages 2-52 and 2-267 were intentionally left blank.

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WHC-SD-WM-DP-160, REV. 1

NARRATIVE

FINAL REPORT FOR TANK 241-B-204, PUSH MODE
CORES 112 AND 114

SUMMARY

This is the final report for tank 241-B-204, cores 112 and 114. Two fourteen-segment push-mode core samples from tank 241-B-204, a field blank, and hydrostatic head fluid (HHF) sample were received at the 222-S Laboratory. Core 112 was obtained from riser 2 and core 114 was obtained from riser 7. Hydrostatic head fluid, consisting of water with a lithium bromide tracer was used during the sampling of these cores. These samples underwent safety screening analyses - differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), total alpha analysis, and bulk density measurements - in accordance with the sampling and analysis plan (Sasaki 1995a) and the Safety Screening data quality objective (DQO) (Dukelow, et al. 1995). Bromide analysis by ion chromatography (IC) and lithium analysis by inductively coupled plasma atomic emission spectroscopy (ICP) were performed to determine the amount of HHF contamination in the samples. Gamma energy analysis (GEA) was performed on one subsample to provide information required for laboratory waste disposal. In addition to the core sample analysis, the tank headspace flammability was measured prior to core sampling as required by the SAP and Safety Screening DQO.

No safety screening notification limits were exceeded on any of the B-204 samples. No exotherms were observed and the one-sided 95-percent confidence intervals for total alpha results were well below the notification limit. Tank vapor flammability was measured at 0 percent of the lower flammability limit (LFL).

SCOPE

This document serves as the final report deliverable for the tank 241-B-204 core samples collected between October 11 and October 19, 1995. Each sample was received, extruded, and analyzed by the 222-S Laboratory in accordance with the referenced sampling and analysis plan (SAP) (Sasaki 1995a). Any exceptions to the plan are discussed in the following sections.

This report includes the safety screening results (tank headspace flammability, DSC, TGA, total alpha, and bulk density or specific gravity) and the IC, ICP, and GEA results. As the final report, the following are also included: chains of custody; photographs of extruded segments; bulk density worksheets; and worklists for extrusion, sample preparation, total alpha, specific gravity, IC, and ICP. Worklists for DSC and TGA were provided in the 45-day report (Sasaki 1995b). A copy of the 45-day report is provided as Part II of this final report; the narrative of the 45-day report can be found on pages 2-3 through 2-14.

SAMPLE RECEIPT AND EXTRUSION

A description of the sample receipt and extrusion is contained in the 45-day report (Sasaki 1995b). The chain of custody forms, photographs of the extruded segments, and extrusion worklists are provided in this report. Details of the extrusion and subsampling are provided in the hot cell logbook for tank B-204 (Fuller 1995).

TANK HEADSPACE FLAMMABILITY

A description of the tank headspace flammability and other headspace measurements taken in tank B-204 prior to core sampling is provided in the 45-day report (Sasaki 1995b). The combustible gas meter reading was 0 percent of the LFL, indicating no flammability concerns with this tank. Other measurements made were oxygen (20.7 percent), total organic vapors (1.4 parts per million (ppm)), and ammonia (2 ppm).

ANALYTICAL RESULTS

The results of all analyses performed on the tank B-204 core samples are provided in the Sample Data Summary tables. Analytical results for DSC, TGA, total alpha, bulk density, and specific gravity were discussed in the 45-day report (Sasaki 1995b). Results for bromide by IC and lithium by ICP are discussed below. The presence of bromide and lithium indicate some contamination of the sample with the HHF (lithium bromide solution) during sampling. Bromide and lithium results are used to correct the TGA results for any HHF contamination. Gamma energy analysis results are also discussed below.

Bromide by IC

Bromide analyses were performed by IC using procedure LA-533-105, Rev. D-1. Solid samples were prepared by a water digestion prior to the IC analysis; the water digestion was performed using procedure LA-504-101, Rev. D-0. The HHF sample had an average bromide concentration of $2.72\text{E}+04$ micrograms per gram ($\mu\text{g/g}$). Results ($2.33\text{E}+04$ $\mu\text{g/g}$ bromide) indicate that the liner liquid sample for core 112, segment 2 (sample number S95T002986) is almost entirely HHF. Other results range from <267 micrograms per milliliter ($\mu\text{g/mL}$) to $2,840$ $\mu\text{g/g}$, indicating some contamination of the samples by the HHF. All RPDs, spike recoveries, and standard recoveries for the bromide analyses were within the limits required by the SAP.

Nitrite, nitrate, sulfate, phosphate, fluoride, chloride, and oxalate results are also reported for the samples. These additional analyses were not required by the Safety Screening DQO. However, since these data are generated when the IC analysis is performed, the SAP requested that the results be reported. The SAP specifies no quality assurance/quality control (QA/QC) requirements for these analyses, but if laboratory QA/QC requirements were not met, the data were not reported.

Lithium by ICP

Lithium analyses were performed by ICP using procedure LA-505-151, Rev. D-3 or LA-505-161, Rev. B-0. Solid samples were prepared by acid digestion prior to the ICP analysis; the acid digestion was performed using procedure LA-505-159, Rev. C-0. The HHF sample had an average lithium concentration of $1.98\text{E}+03 \mu\text{g/g}$. Like the bromide results, the lithium concentration ($1.85\text{E}+03 \mu\text{g/g}$) indicates that the liner liquid sample for core 112, segment 2 (sample number S95T002986) is almost entirely HHF. Other results range from $<2.01 \mu\text{g/mL}$ to $125 \mu\text{g/g}$, indicating some contamination of the samples by the HHF. All standard recoveries were within the limits required by the SAP. Spike recoveries for 4 of the 57 samples were outside the range specified by the SAP. For samples S95T002986 and S95T002952, the spike recoveries are poor (calculated values are negative) because the lithium concentration in the sample is about two orders of magnitude greater than the spike. When the sample concentration is greater than 4 times the spike, the error introduced in calculating the spike recovery becomes large; this may result in the calculation of a zero or negative spike recovery. Spike recoveries for samples S95T002980 and S95T003066 were slightly low at 79.62 and 82.04 percent, respectively. Standard recoveries were all within ± 10 percent as required by the SAP. RPDs for 53 of the samples were below 10 percent as required by the SAP. Samples S95T003302, S95T003063, and S95T003069 had RPDs of 22.2, 18.55, and 28.6 percent, respectively. No reruns were requested for the samples with high RPDs or out of range spike recoveries because the amounts of lithium and bromide observed in the samples indicated that corrections to the moisture concentrations would be small.

Results for other ICP elements are also reported for the samples. These additional analyses were not required by the Safety Screening DQO. However, since these data are generated when the ICP analysis is performed, the SAP requested that the results be reported. The SAP specifies no QA/QC requirements for these analyses.

Correction of TGA Results for the Presence of HHF

The moisture measurements for the tank B-204 samples were corrected for any observed HHF contamination. The presence of HHF in the samples did not have a large effect on the moisture content of the waste. The reduction in moisture content after correction for the HHF ranged from 0 to about 2 weight percent.

For all but one sample, the average bromide results for each sample were used to determine the extent of HHF contamination in the sample and the TGA results were corrected for the presence of HHF. For the drainable liquid sample for core 112, segment 2, the bromide results was less than the detection limit and the duplicate was $1060 \mu\text{g/mL}$. Since an average cannot be calculated, the higher value of $1060 \mu\text{g/mL}$ was used for a worst case calculation. The numbers in the "Corrected Moisture" column in Table 1 are the expected moisture contents of the samples if there was no HHF contamination. The changes in the moisture numbers are small because of the high water content of the tank B-204 waste (greater than 70 percent for all but one sample) and the relatively low degree of HHF contamination in most samples.

WHC-SD-WM-DP-160, REV. 1

Table 1. Moisture Results Corrected for the Presence of HHF (Using Bromide Results)

Sample Description	Sample#	Li in Sample	Br in Sample	TGA Result for Sample	Corrected Moisture	Difference
		($\mu\text{g/mL}$)	($\mu\text{g/mL}$)	(wt%)	(wt%)	(wt%)
Core 112, Seg 1, Drainable Liquid	S95T002976	<2.01e+00	1060*	89.22	89.90	-0.30
Core 112, Seg 2, Drainable Liquid	S95T002984	125.0	1.69e+03	89.28	88.77	-0.50
Core 114, Seg 1, Drainable Liquid	S95T003255	4.090	<2.67e+02	88.88	88.88	0
		($\mu\text{g/g}$)	($\mu\text{g/g}$)	(wt%)	(wt%)	(wt%)
Core 112, Seg 2, Solids	S95T002979	103.5	1.62e+03	79.10	77.92	-1.18
Core 112, Seg 3, Upper Half Solids	S95T003037	21.35	2.84e+03	80.46	78.43	-2.03
Core 112, Seg 3, Lower Half Solids	S95T003038	13.90	368.4	77.93	77.66	-0.27
Core 112, Seg 4, Upper Half Solids	S95T003039	17.45	295.9	78.56	78.35	-0.21
Core 112, Seg 4, Lower Half Solids	S95T003040	17.20	442.5	76.70	76.35	-0.35
Core 112, Seg 5, Upper Half Solids	S95T003041	52.45	757.6	74.01	73.33	-0.68
Core 112, Seg 5, Lower Half Solids	S95T003042	36.65	916.9	79.57	78.94	-0.63
Core 112, Seg 6, Upper Half Solids	S95T003043	31.55	598.6	75.22	74.71	-0.51
Core 112, Seg 6, Lower Half Solids	S95T003044	28.05	671.0	78.33	77.84	-0.49
Core 112, Seg 7, Upper Half Solids	S95T003045	32.55	687.0	78.69	78.20	-0.49
Core 112, Seg 7, Lower Half Solids	S95T003046	48.80	859.2	75.36	74.63	-0.73
Core 112, Seg 8, Upper Half Solids	S95T003047	37.70	829.6	78.22	77.60	-0.62
Core 112, Seg 8, Lower Half Solids	S95T003048	54.25	827.7	72.88	72.09	-0.79
Core 112, Seg 9, Upper Half Solids	S95T003049	36.75	687.6	75.78	75.21	-0.57
Core 112, Seg 9, Lower Half Solids	S95T003050	34.60	790.5	78.28	77.70	-0.58
Core 112, Seg 10, Upper Half Solids	S95T003051	34.05	173.8	76.86	76.73	-0.13
Core 112, Seg 10, Lower Half Solids	S95T003052	41.05	747.0	77.94	77.38	-0.56
Core 112, Seg 11, Upper Half Solids	S95T003053	27.00	1.12e+03	77.41	76.53	-0.88
Core 112, Seg 11, Lower Half Solids	S95T003054	41.85	1.52e+03	77.56	76.36	-1.20
Core 112, Seg 12, Upper Half Solids	S95T003055	80.55	1.13e+03	77.78	76.91	-0.87
Core 112, Seg 12, Lower Half Solids	S95T003056	63.90	1.04e+03	76.19	75.33	-0.86
Core 112, Seg 13, Upper Half Solids	S95T003057	56.45	921.6	78.35	77.67	-0.68
Core 112, Seg 13, Lower Half Solids	S95T003058	47.70	891.6	78.47	77.82	-0.65
Core 112, Seg 14, Upper Half Solids	S95T003059	36.35	596.4	73.57	73.02	-0.55
Core 112, Seg 14, Lower Half Solids	S95T003060	40.95	861.9	77.02	76.34	-0.68
Core 114, Seg 2, Upper Half Solids	S95T003256	20.35	545.5	79.43	79.05	-0.38

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Table 1. Moisture Results Corrected for the Presence of HHF (Using Bromide Results)

Sample Description	Sample#	Li in Sample	Br in Sample	TGA Result for Sample	Corrected Moisture	Difference
		($\mu\text{g/g}$)	($\mu\text{g/g}$)	(wt%)	(wt%)	(wt%)
Core 114, Seg 2, Lower Half Solids	S95T003257	34.80	773.9	81.03	80.54	-0.49
Core 114, Seg 3, Upper Half Solids	S95T003258	15.75	405.4	81.29	81.04	-0.25
Core 114, Seg 3, Lower Half Solids	S95T003259	21.75	414.8	80.83	80.57	-0.26
Core 114, Seg 4, Upper Half Solids	S95T003260	58.20	813.9	71.54	70.73	-0.81
Core 114, Seg 4, Lower Half Solids	S95T003261	29.65	739.5	80.06	79.57	-0.49
Core 114, Seg 5, Upper Half Solids	S95T003262	105.0	1.92e+03	81.53	80.30	-1.23
Core 114, Seg 5, Lower Half Solids	S95T003263	61.55	1.61e+03	77.29	76.00	-1.29
Core 114, Seg 6, Upper Half Solids	S95T003264	105.0	2.12e+03	76.50	74.69	-1.81
Core 114, Seg 6, Lower Half Solids	S95T003265	38.00	1.55e+03	82.26	81.32	-0.94
Core 114, Seg 7, Upper Half Solids	S95T003266	16.85	304.5	78.19	77.97	-0.22
Core 114, Seg 7, Lower Half Solids	S95T003267	16.70	565.9	81.24	80.89	-0.35
Core 114, Seg 8, Upper Half Solids	S95T003268	23.60	378.3	79.96	79.71	-0.25
Core 114, Seg 8, Lower Half Solids	S95T003269	25.50	586.9	79.45	79.05	-0.40
Core 114, Seg 9, Upper Half Solids	S95T003270	38.80	655.0	79.31	78.86	-0.45
Core 114, Seg 9, Lower Half Solids	S95T003271	22.45	574.4	78.76	78.35	-0.41
Core 114, Seg 10, Upper Half Solids	S95T003272	53.65	794.2	80.08	79.55	-0.53
Core 114, Seg 10, Lower Half Solids	S95T003273	48.35	882.9	79.05	78.42	-0.63
Core 114, Seg 11, Upper Half Solids	S95T003274	36.80	671.4	76.86	76.33	-0.53
Core 114, Seg 11, Lower Half Solids	S95T003275	38.85	755.8	79.20	78.67	-0.53
Core 114, Seg 12, Upper Half Solids	S95T003276	14.40	298.9	79.53	79.33	-0.20
Core 114, Seg 12, Lower Half Solids	S95T003277	41.85	637.3	78.22	77.75	-0.47
Core 114, Seg 13, Upper Half Solids	S95T003278	22.25	493.9	45.87	44.89	-0.98
Core 114, Seg 13, Lower Half Solids	S95T003279	12.50	459.9	77.93	77.59	-0.34
Core 114, Seg 14, Upper Half Solids	S95T003280	23.40	570.7	77.53	77.10	-0.43
Core 114, Seg 14, Lower Half Solids	S95T003281	17.70	601.2	78.38	77.94	-0.44

GEA

Gamma energy analysis was performed on a fusion preparation of one solid subsample using procedure LA-548-121 Rev. D-1. The fusion preparation was performed using procedure LA-549-141, Rev. D-0. Although this analysis was not required by the SAP, GEA was necessary to provide radionuclide content information for the disposal of laboratory waste. Analysis of only one sample was required and no special QA/QC requirements were specified. The sample analyzed was from the lower half solids of core 112, segment 14 (sample number S95T3120) since this sample had the highest measured total alpha result. Results were less than detection limits for all the analytes (cesium-137, cobalt-60, europium-154, europium-155, and americium-241). Detection limits for these radionuclides were $8.154\text{E-}02$ microcuries per gram or less. The GEA results were expected to be low since all radiation survey readings reported for the segments on the chain of custody records for core sampling were <0.5 mR/hr.

Project Coordinator: Leela Sasaki

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WHC-SD-WM-DP-160, REV. 1

SAMPLE DATA SUMMARY

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 1

SEGMENT PORTION: Drainable Liquid

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002976		% Water by TGA on Perkin Elmer	%	101.1	n/a	89.33	89.12	89.22	0.24	n/a	n/a	n/a
S95T002976		Specific Gravity	Sp.G.	99.10	n/a	1.060	1.050	1.055	0.95	n/a	1.00e-01	n/a
S95T002976		DSC Exotherm on Perkin Elmer	Joules/g	100.4	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002976		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002976		D Silver-ICP-Acid Dil.	ug/mL	100.4	-8.00e+00	<2.01e+00	<2.01e0	n/a	n/a	89.20	2.010	n/a
S95T002976		D Aluminium-ICP-Acid Dil.	ug/mL	101.4	3.900	<1.00e+01	<1.00e1	n/a	n/a	100.0	10.10	n/a
S95T002976		D Arsenic-ICP-Acid Dil.	ug/mL	103.8	2.670	<2.01e+01	<2.01e1	n/a	n/a	104.0	20.10	n/a
S95T002976		D Boron-ICP-Acid Dil.	ug/mL	102.6	1.850	<1.00e+01	<1.00e1	n/a	n/a	102.0	10.10	n/a
S95T002976		D Barium-ICP-Acid Dil.	ug/mL	100.6	-1.33e+00	<1.00e+01	<1.00e1	n/a	n/a	102.0	10.10	n/a
S95T002976		D Beryllium-ICP-Acid Dil.	ug/mL	105.8	3.350	<1.00e+00	<1.00e0	n/a	n/a	105.0	1.000	n/a
S95T002976		D Bismuth-ICP-Acid Dil.	ug/mL	102.0	1.350	<2.01e+01	<2.01e1	n/a	n/a	105.0	20.10	n/a
S95T002976		D Calcium-ICP-Acid Dil.	ug/mL	103.4	1.770	<1.00e+00	<1.00e0	n/a	n/a	102.0	1.000	n/a
S95T002976		D Cadmium-ICP-Acid Dil.	ug/mL	102.0	3.950	<2.01e+01	<2.01e1	n/a	n/a	104.0	20.10	n/a
S95T002976		D Cerium-ICP-Acid Dil.	ug/mL	103.0	-1.00e+00	<4.02e+00	<4.02e0	n/a	n/a	102.0	4.020	n/a
S95T002976		D Cobalt-ICP-Acid Dil.	ug/mL	103.6	-1.00e+00	154.0	152.0	153.0	1.31	102.6	2.010	n/a
S95T002976		D Chromium-ICP-Acid Dil.	ug/mL	102.6	3.350	<2.01e+00	<2.01e0	n/a	n/a	104.0	2.010	n/a
S95T002976		D Copper-ICP-Acid Dil.	ug/mL	104.0	2.800	<1.00e+01	<1.00e1	n/a	n/a	104.0	10.10	n/a
S95T002976		D Iron-ICP-Acid Dil.	ug/mL	101.4	7.970	6.08e+03	6.01e+03	6.04e+03	1.16	63.40	100.0	n/a
S95T002976		D Potassium-ICP-Acid Dil.	ug/mL	102.0	4.200	<1.00e+00	<1.00e1	n/a	n/a	103.0	10.10	n/a
S95T002976		D Lanthanum-ICP-Acid Dil.	ug/mL	100.6	-2.00e+00	<2.01e+00	<2.01e0	n/a	n/a	97.50	2.010	n/a
S95T002976		D Lithium-ICP-Acid Dil.	ug/mL	99.20	1.670	<2.01e+01	<2.01e1	n/a	n/a	95.50	20.10	n/a
S95T002976		D Magnesium-ICP-Acid Dil.	ug/mL	102.2	3.670	<2.01e+00	<2.01e0	n/a	n/a	102.0	2.010	n/a
S95T002976		D Manganese-ICP-Acid Dil.	ug/mL	102.6	8.350	<1.00e+01	<1.00e1	n/a	n/a	102.0	10.10	n/a
S95T002976		D Molybdenum-ICP-Acid Dil.	ug/mL	100.2	7.600	2.84e+04	2.83e+04	2.84e+04	0.35	189.6	20.10	n/a
S95T002976		D Sodium-ICP-Acid Dil.	ug/mL	104.8	-1.53e+00	<2.01e+01	<2.01e1	n/a	n/a	106.0	20.10	n/a
S95T002976		D Neodymium-ICP-Acid Dil.	ug/mL	102.8	2.600	<4.02e+00	<4.02e0	n/a	n/a	102.0	4.020	n/a
S95T002976		D Nickel-ICP-Acid Dil.	ug/mL	107.2	-9.10e+00	688.0	690.0	689.0	0.29	111.9	40.20	n/a
S95T002976		D Phosphorus-ICP-Acid Dil.	ug/mL	103.2	-1.18e+00	<2.01e+01	<2.01e1	n/a	n/a	100.0	20.10	n/a
S95T002976		D Lead-ICP-Acid Dil.	ug/mL	102.0	-6.10e+00	135.0	132.0	133.5	2.25	97.70	20.10	n/a
S95T002976		D Sulfur-ICP-Acid Dil.	ug/mL	95.20	-2.80e+00	<1.21e+01	<1.21e1	n/a	n/a	93.00	12.10	n/a
S95T002976		D Antimony-ICP-Acid Dil.	ug/mL	104.8	-4.60e+00	<2.01e+01	<2.01e1	n/a	n/a	113.0	20.10	n/a
S95T002976		D Selenium-ICP-Acid Dil.	ug/mL	98.80	1.140	49.70	50.40	50.05	1.40	99.30	10.10	n/a
S95T002976		D Silicon-ICP-Acid Dil.	ug/mL	98.60	-4.27e+00	<2.01e+01	<2.01e1	n/a	n/a	100.0	20.10	n/a
S95T002976		D Samarium-ICP-Acid Dil.	ug/mL	100.6	-1.00e+00	<2.01e+00	<2.01e0	n/a	n/a	102.0	2.010	n/a
S95T002976		D Strontium-ICP-Acid Dil.	ug/mL	98.40	2.100	<2.01e+00	<2.01e0	n/a	n/a	99.00	2.010	n/a
S95T002976		D Titanium-ICP-Acid Dil.	ug/mL	98.00	-3.19e+00	<4.02e+01	<4.02e1	n/a	n/a	95.00	40.20	n/a
S95T002976		D Thallium-ICP-Acid Dil.	ug/mL	97.00	2.17e-01	179.0	195.0	187.0	8.56	102.5	100.0	n/a
S95T002976		D Uranium-ICP-Acid Dil.	ug/mL	101.6	-3.67e+00	<1.00e+01	<1.00e1	n/a	n/a	101.0	10.10	n/a
S95T002976		D Vanadium-ICP-Acid Dil.	ug/mL	103.4	4.000	8.840	<2.01e0	n/a	n/a	96.60	2.010	n/a
S95T002976		D Zinc-ICP-Acid Dil.	ug/mL	100.8	5.750	<2.01e+00	<2.01e0	n/a	n/a	102.0	2.010	n/a
S95T002976		D Zirconium-ICP-Acid Dil.	ug/mL	105.7	4.60e-01	1.34e+03	1.47e+03	1.41e+03	9.25	98.50	288.5	n/a
S95T002976		Sulfate by IC-Dionex 4000i/4500	ug/mL	107.9	<1.19e-01	2.54e+03	2.72e+03	2.63e+03	6.84	103.0	252.4	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002976			Oxalate by IC - Dionex 4000i	ug/mL	111.2	<1.05e-01	failed 0	753.0	n/a	n/a	107.5	222.7	n/a
S95T002976			Nitrate-IC - Dionex 4000i/4500	ug/mL	106.0	<1.40e-01	4.90e+04	4.92e+04	4.91e+04	0.41	97.77	296.9	n/a
S95T002976			Nitrite-IC - Dionex 4000i/4500	ug/mL	102.6	<1.07e-01	2.17e+03	2.23e+03	2.20e+03	2.73	96.33	226.9	n/a
S95T002976			Fluoride-IC-Dionex 4000i/4500	ug/mL	106.1	<1.30e-02	6.84e+03	6.70e+03	6.77e+03	2.07	73.12	27.57	n/a
S95T002976			Chloride-IC-Dionex 4000i/4500	ug/mL	103.5	<1.70e-02	691.2	670.0	680.6	3.09	95.17	36.06	n/a
S95T002976			Bromide by Ion Chromatograph	ug/mL	104.7	<1.26e-01	<2.67e+02	1.06e+03	n/a	n/a	103.3	267.2	n/a
S95T002976			Alpha in Liquid Samples	uCi/mL	77.60	<6.25e-06	1.36e-04	1.02e-04	1.19e-04	28.6	47.45	1.42e-05	1.47E+01

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 2

SEGMENT PORTION: Limer Liquid

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002986		% Water by TGA using Mettler	%	101.5	n/a	98.19	98.10	98.14	0.09	n/a	n/a	n/a
S95T002986		Specific Gravity		99.10	n/a	1.000	1.000	1.000	0.00	n/a	1.00e-02	n/a
S95T002986		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002986		DSC Exotherm using Mettler	Joules/g	107.2	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002986	D	Lithium-ICP-Acid Dil.	ug/mL	99.80	2.000	1.89e+03	1.81e+03	1.85e+03	4.32	-1.62e+02	2.10e-01	n/a
S95T002986		Sulfate by IC-Dionex4000i/4500	ug/mL	101.7	<1.36e-01	<2.89e+02	<2.88e2	n/a	n/a	n/a	288.5	n/a
S95T002986		Phosphate-IC-Dionex 4000i/4500	ug/mL	110.1	<2.96e-01	<6.28e+02	<6.28e2	n/a	n/a	n/a	627.8	n/a
S95T002986		Oxalate by IC - Dionex 4000i	ug/mL	115.6	<1.05e-01	<2.23e+02	<2.23e2	n/a	n/a	n/a	222.7	n/a
S95T002986		Nitrate-IC - Dionex 4000i/4500	ug/mL	97.88	<1.40e-01	717.0	761.0	739.0	5.95	n/a	296.9	n/a
S95T002986		Nitrite-IC - Dionex 4000i/4500	ug/mL	93.10	<1.07e-01	<2.27e+02	<2.27e2	n/a	n/a	n/a	226.9	n/a
S95T002986		Fluoride-IC-Dionex 4000i/4500	ug/mL	142.7	2.400	130.5	66.80	98.65	64.2	n/a	27.57	n/a
S95T002986		Chloride-IC-Dionex 4000i/4500	ug/mL	102.8	<1.70e-02	<3.61e+01	<3.61e1	n/a	n/a	n/a	36.06	n/a
S95T002986		Bromide by Ion Chromatograph	ug/mL	99.13	<1.26e-01	2.33e+04	2.33e+04	2.33e+04	0.00	n/a	267.2	n/a
S95T002986		Alpha in Liquid Samples	uCi/mL	77.60	<6.25e-06	<6.25E-06	<6.25E-6	n/a	n/a	32.14	1.42e-05	5.00E+02

V Whole Segment: W Whole Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002977		Bulk Density of Sample	g/mL	n/a	n/a	1.170	1.160	1.165	0.86	n/a	5.00e-01	n/a
S95T002979		% Water by TGA using Mettler	%	101.0	n/a	79.15	79.05	79.10	0.13	n/a	n/a	n/a
S95T002979		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002979		DSC Exotherm using Mettler	Joules/g	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002980	A	Silver -ICP-Acid Digest	ug/g	91.10	<1.00e-02	8.070	7.600	7.835	6.00	69.60	2.760	n/a
S95T002980	A	Aluminium -ICP-Acid Digest	ug/g	94.60	9.750	448.0	397.0	422.5	12.1	65.88	13.80	n/a
S95T002980	A	Arsenic -ICP-Acid Digest	ug/g	92.20	<1.00e-01	<2.76e+01	<3.71e1	n/a	n/a	81.20	27.60	n/a
S95T002980	A	Boron -ICP-Acid Digest	ug/g	108.0	3.41e-01	141.0	182.0	161.5	25.4	78.42	13.80	n/a
S95T002980	A	Barium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	2.27e+03	1.97e+03	2.12e+03	14.2	0.00e+00	13.80	n/a
S95T002980	A	Beryllium -ICP-Acid Digest	ug/g	98.20	<5.00e-03	<1.38e+00	<1.86e0	n/a	n/a	93.60	1.380	n/a
S95T002980	A	Bismuth -ICP-Acid Digest	ug/g	89.80	1.10e-01	4.27e+04	3.89e+04	4.08e+04	9.31	0.00e+00	27.60	n/a
S95T002980	A	Calcium -ICP-Acid Digest	ug/g	93.00	<1.00e-01	2.24e+03	2.10e+03	2.17e+03	6.45	2.200	27.60	n/a
S95T002980	A	Cadmium -ICP-Acid Digest	ug/g	90.20	<5.00e-03	1.660	<1.86e0	n/a	n/a	78.88	1.380	n/a
S95T002980	A	Cerium -ICP-Acid Digest	ug/g	93.60	<1.00e-01	<2.76e+01	<3.71e1	n/a	n/a	86.20	27.60	n/a
S95T002980	A	Cobalt -ICP-Acid Digest	ug/g	91.80	<2.00e-02	<5.53e+00	<7.43e0	n/a	n/a	80.80	5.530	n/a
S95T002980	A	Chromium -ICP-Acid Digest	ug/g	92.40	<1.00e-02	1.19e+03	1.11e+03	1.15e+03	6.96	38.32	2.760	n/a
S95T002980	A	Copper -ICP-Acid Digest	ug/g	90.00	<1.00e-02	39.20	11.30	25.25	110	77.96	2.760	n/a
S95T002980	A	Iron -ICP-Acid Digest	ug/g	91.20	<5.00e-02	8.96e+03	8.18e+03	8.57e+03	9.10	0.00e+00	13.80	n/a
S95T002980	A	Potassium -ICP-Acid Digest	ug/g	90.40	<5.00e-01	5.66e+03	5.87e+03	5.76e+03	3.64	0.00e+00	138.0	n/a
S95T002980	A	Lanthanum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	8.17e+03	7.56e+03	7.86e+03	7.76	0.00e+00	13.80	n/a
S95T002980	A	Lithium -ICP-Acid Digest	ug/g	91.80	<1.00e-02	102.0	105.0	103.5	2.90	79.62	2.760	n/a
S95T002980	A	Magnesium -ICP-Acid Digest	ug/g	88.00	<1.00e-01	356.0	322.0	339.0	10.0	65.04	27.60	n/a
S95T002980	A	Manganese -ICP-Acid Digest	ug/g	89.80	2.500	9.29e+03	8.28e+03	8.78e+03	11.5	0.00e+00	2.760	n/a
S95T002980	A	Molybdenum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.38e+01	<1.86e1	n/a	n/a	80.00	13.80	n/a
S95T002980	A	Sodium -ICP-Acid Digest	ug/g	111.8	6.48e-01	2.19e+04	2.32e+04	2.26e+04	5.76	0.00e+00	27.60	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002980	A	Neodymium - ICP-Acid Digest	ug/g	90.00	<1.00e-01	<2.76e+01	<3.71e1	n/a	n/a	82.40	27.60	n/a
S95T002980	A	Nickel - ICP-Acid Digest	ug/g	91.80	<2.00e-02	189.0	177.0	183.0	6.56	73.32	5.530	n/a
S95T002980	A	Phosphorus - ICP-Acid Digest	ug/g	91.20	<2.00e-01	3.47e+03	3.27e+03	3.37e+03	5.93	0.00e+00	55.30	n/a
S95T002980	A	Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	610.0	568.0	589.0	7.13	54.84	27.60	n/a
S95T002980	A	Sulfur - ICP-Acid Digest	ug/g	90.00	<1.00e-01	159.0	168.0	163.5	5.50	73.90	27.60	n/a
S95T002980	A	Antimony - ICP-Acid Digest	ug/g	86.60	<6.00e-02	<1.66e+01	<2.23e1	n/a	n/a	74.80	16.60	n/a
S95T002980	A	Selenium - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<2.76e+01	<3.71e1	n/a	n/a	81.00	27.60	n/a
S95T002980	A	Silicon - ICP-Acid Digest	ug/g	199.8	<5.00e-02	2.17e+03	2.09e+03	2.13e+03	3.76	98.66	13.80	n/a
S95T002980	A	Samarium - ICP-Acid Digest	ug/g	89.40	<1.00e-01	<2.76e+01	<3.71e1	n/a	n/a	81.20	27.60	n/a
S95T002980	A	Strontium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	692.0	637.0	664.5	8.28	52.52	2.760	n/a
S95T002980	A	Titanium - ICP-Acid Digest	ug/g	88.80	<1.00e-02	37.10	28.50	32.80	26.2	77.92	2.760	n/a
S95T002980	A	Thallium - ICP-Acid Digest	ug/g	87.60	<2.00e-01	<5.53e+01	<7.43e1	n/a	n/a	76.60	55.30	n/a
S95T002980	A	Uranium - ICP-Acid Digest	ug/g	88.70	<5.00e-01	373.0	351.0	362.0	6.08	74.66	138.0	n/a
S95T002980	A	Vanadium - ICP-Acid Digest	ug/g	89.60	<5.00e-02	<1.38e+01	<1.84e1	n/a	n/a	79.80	13.80	n/a
S95T002980	A	Zinc - ICP-Acid Digest	ug/g	88.00	<1.00e-02	178.0	149.0	163.5	17.7	69.12	2.760	n/a
S95T002980	A	Zirconium - ICP-Acid Digest	ug/g	89.40	<1.00e-02	4.040	4.090	4.065	1.23	79.70	2.760	n/a
S95T002981	V	Bromide by Ion Chromatograph	ug/g	103.0	<1.26e-01	1.51e+03	1.73e+03	1.62e+03	13.6	101.3	296.3	n/a
S95T002981	V	Chloride-IC-Dionex 4000i/4500	ug/g	101.8	<1.70e-02	541.2	643.0	592.1	17.2	102.3	39.98	n/a
S95T002981	V	Fluoride-IC-Dionex 4000i/4500	ug/g	107.8	<1.30e-02	6.47e+03	7.49e+03	6.98e+03	14.6	91.47	30.58	n/a
S95T002981	V	Nitrite-IC - Dionex 4000i/4500	ug/g	100.7	<1.07e-01	1.35e+03	1.54e+03	1.44e+03	13.1	100.1	251.6	n/a
S95T002981	V	Nitrate by IC-Dionex 4000i/4500	ug/g	103.3	<1.40e-01	4.06e+04	4.92e+04	4.49e+04	19.2	101.1	329.3	n/a
S95T002981	V	Oxalate by IC - Dionex 4000i	ug/g	102.3	<1.05e-01	<2.47e+02	<2.37e2	n/a	n/a	102.9	246.9	n/a
S95T002981	V	Phosphate-IC-Dionex 4000i/4500	ug/g	106.8	<1.19e-01	2.84e+03	3.05e+03	2.95e+03	7.13	105.2	279.9	n/a
S95T002981	V	Sulfate by IC-Dionex 4000i/4500	ug/g	101.3	<1.36e-01	658.9	715.0	687.0	8.15	99.94	319.9	n/a
S95T002981	F	Alpha of Digested Solid	uCi/g	89.58	<1.30e-03	2.46e-01	2.39e-01	2.42e-01	2.89	99.13	1.58e-03	4.18e+00

Drainable Liquid: Drainable Liquid

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002984		% Water by IGA on Perkin Elmer	%	101.1	n/a	89.24	89.33	89.28	0.10	n/a	n/a	n/a
S95T002984		Specific Gravity	Sp.G.	99.10	n/a	1.050	1.060	1.055	0.95	n/a	1.00e-02	n/a
S95T002984		DSC Exotherm on Perkin Elmer	Joules/g	100.4	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002984		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002984	D	Silver-ICP-Acid Dil.	ug/mL	100.4	-8.00e+00	<2.01e+00	<2.01e0	n/a	n/a	86.10	2.010	n/a
S95T002984	D	Aluminum-ICP-Acid Dil.	ug/mL	101.4	3.900	<1.00e+01	<1.00e1	n/a	n/a	99.50	10.10	n/a
S95T002984	D	Arsenic-ICP-Acid Dil.	ug/mL	103.8	2.670	<2.01e+01	<2.01e1	n/a	n/a	104.0	20.10	n/a
S95T002984	D	Boron-ICP-Acid Dil.	ug/mL	102.6	1.830	<1.00e+01	<1.00e1	n/a	n/a	100.0	10.10	n/a
S95T002984	D	Barium-ICP-Acid Dil.	ug/mL	100.6	-1.33e+00	<1.00e+01	<1.00e1	n/a	n/a	101.0	10.10	n/a
S95T002984	D	Beryllium-ICP-Acid Dil.	ug/mL	105.8	3.330	<1.00e+00	<1.00e0	n/a	n/a	104.0	1.000	n/a
S95T002984	D	Bismuth-ICP-Acid Dil.	ug/mL	102.0	1.850	<2.01e+01	<2.01e1	n/a	n/a	105.0	20.10	n/a
S95T002984	D	Calcium-ICP-Acid Dil.	ug/mL	100.2	1.330	<2.01e+01	<2.01e1	n/a	n/a	98.50	20.10	n/a
S95T002984	D	Cadmium-ICP-Acid Dil.	ug/mL	103.4	1.770	<1.00e+00	<1.00e0	n/a	n/a	103.0	1.000	n/a
S95T002984	D	Cerium-ICP-Acid Dil.	ug/mL	102.0	3.930	<2.01e+01	<2.01e1	n/a	n/a	102.0	20.10	n/a
S95T002984	D	Cobalt-ICP-Acid Dil.	ug/mL	103.6	-1.00e+00	<4.02e+00	<4.02e0	n/a	n/a	103.0	4.020	n/a
S95T002984	D	Chromium-ICP-Acid Dil.	ug/mL	103.6	-1.00e+00	146.0	146.0	146.0	0.00	104.5	2.010	n/a
S95T002984	D	Copper-ICP-Acid Dil.	ug/mL	102.6	3.330	<2.01e+00	<2.01e0	n/a	n/a	102.0	2.010	n/a
S95T002984	D	Iron-ICP-Acid Dil.	ug/mL	104.0	2.800	<1.00e+01	<1.00e1	n/a	n/a	104.0	10.10	n/a
S95T002984	D	Potassium-ICP-Acid Dil.	ug/mL	101.4	7.970	5.60e+03	5.60e+03	5.60e+03	0.00	72.80	100.0	n/a
S95T002984	D	Lanthanum-ICP-Acid Dil.	ug/mL	102.0	4.200	<1.00e+01	<1.00e1	n/a	n/a	102.0	10.10	n/a
S95T002984	D	Lithium-ICP-Acid Dil.	ug/mL	100.6	-2.00e+00	126.0	124.0	125.0	1.60	93.40	2.010	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002984	D	Magnesium-ICP-Acid Dil.	ug/mL	99.20	1.670	<2.01e+01	<2.01e1	n/a	n/a	96.00	20.10	n/a
S95T002984	D	Manganese-ICP-Acid Dil.	ug/mL	102.2	3.670	<2.01e+01	<2.01e0	n/a	n/a	102.0	2.010	n/a
S95T002984	D	Molybdenum-ICP-Acid Dil.	ug/mL	102.6	8.330	<1.00e+01	<1.00e1	n/a	n/a	102.0	10.10	n/a
S95T002984	D	Sodium-ICP-Acid Dil.	ug/mL	100.2	7.600	2.68e+04	2.64e+04	2.66e+04	1.50	-2.34e+02	20.10	n/a
S95T002984	D	Neodymium-ICP-Acid Dil.	ug/mL	104.8	-1.53e+00	<2.01e+01	<2.01e1	n/a	n/a	107.0	20.10	n/a
S95T002984	D	Nickel-ICP-Acid Dil.	ug/mL	102.8	2.600	<4.02e+01	<4.02e0	n/a	n/a	102.0	4.020	n/a
S95T002984	D	Phosphorus-ICP-Acid Dil.	ug/mL	107.2	-9.10e+00	678.0	653.0	665.5	3.76	98.90	40.20	n/a
S95T002984	D	Lead-ICP-Acid Dil.	ug/mL	103.2	-1.18e+00	<2.01e+01	<2.01e1	n/a	n/a	103.0	20.10	n/a
S95T002984	D	Sulfur-ICP-Acid Dil.	ug/mL	102.0	-6.10e+00	125.0	122.0	123.5	2.43	99.80	20.10	n/a
S95T002984	D	Antimony-ICP-Acid Dil.	ug/mL	95.20	-2.80e+00	<1.21e+01	<1.21e1	n/a	n/a	93.50	12.10	n/a
S95T002984	D	Selenium-ICP-Acid Dil.	ug/mL	104.8	-4.60e+00	<2.01e+01	<2.01e1	n/a	n/a	110.0	20.10	n/a
S95T002984	D	Silicon-ICP-Acid Dil.	ug/mL	98.80	1.140	60.00	59.30	59.65	1.17	95.10	10.10	n/a
S95T002984	D	Samarium-ICP-Acid Dil.	ug/mL	98.60	-4.27e+00	<2.01e+01	<2.01e1	n/a	n/a	97.00	20.10	n/a
S95T002984	D	Strontium-ICP-Acid Dil.	ug/mL	100.6	-1.00e+00	<2.01e+00	<2.01e0	n/a	n/a	101.0	2.010	n/a
S95T002984	D	Titanium-ICP-Acid Dil.	ug/mL	98.40	2.100	<2.01e+00	<2.01e0	n/a	n/a	98.00	2.010	n/a
S95T002984	D	Thallium-ICP-Acid Dil.	ug/mL	98.00	-3.19e+00	<4.02e+01	<4.02e1	n/a	n/a	96.50	40.20	n/a
S95T002984	D	Uranium-ICP-Acid Dil.	ug/mL	97.00	2.17e-01	173.0	163.0	168.0	5.95	98.35	100.0	n/a
S95T002984	D	Zinc-ICP-Acid Dil.	ug/mL	101.6	-3.67e+00	<1.00e+01	<1.00e1	n/a	n/a	102.0	10.10	n/a
S95T002984	D	Zirconium-ICP-Acid Dil.	ug/mL	103.4	4.000	<2.01e+00	<2.01e0	n/a	n/a	102.0	2.010	n/a
S95T002984	D	Sulfate by IC-Dionex 4000i/4500	ug/mL	101.7	<1.36e-01	482.8	492.0	487.4	1.85	97.41	288.5	n/a
S95T002984	D	Phosphate by IC-Dionex 4000i/4500	ug/mL	110.1	<2.96e-01	1.77e+03	1.83e+03	1.80e+03	3.33	100.0	627.8	n/a
S95T002984	D	Oxalate by IC - Dionex 4000i	ug/mL	115.6	<1.05e-01	<2.23e+02	<2.23e2	n/a	n/a	106.3	222.7	n/a
S95T002984	D	Nitrate-IC - Dionex 4000i/4500	ug/mL	97.88	<1.40e-01	4.33e+04	4.27e+04	4.30e+04	1.40	107.0	296.9	n/a
S95T002984	D	Nitrite-IC - Dionex 4000i/4500	ug/mL	93.10	<1.07e-01	1.36e+03	1.35e+03	1.35e+03	0.74	91.84	226.9	n/a
S95T002984	D	Fluoride-IC-Dionex 4000i/4500	ug/mL	142.7	2.400	6.46e+03	6.48e+03	6.47e+03	0.31	133.8	27.57	n/a
S95T002984	D	Chloride-IC-Dionex 4000i/4500	ug/mL	102.8	<1.70e-02	596.9	620.0	608.5	3.78	104.8	36.06	n/a
S95T002984	D	Bromide by Ion Chromatograph	ug/mL	99.13	<1.26e-01	1.68e+03	1.71e+03	1.69e+03	1.77	100.9	267.2	n/a
S95T002984	D	Alpha in Liquid Samples	uCi/mL	77.60	<6.25e-06	9.75e+05	9.87e+05	9.81e+05	1.22	46.43	1.42e+05	1.81e+01

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002988		Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.210	1.200	1.67	n/a	5.00e-01	n/a
S95T003037		% Water by IGA using Mettler	%	101.0	n/a	79.54	81.37	80.46	2.27	n/a	n/a	n/a
S95T003037		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003037		DSC Exotherm using Mettler	Joules/g	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003061	A	Silver - ICP-Acid Digest	ug/g	91.10	<1.00e-02	3.070	3.050	3.060	0.65	n/a	2.410	n/a
S95T003061	A	Aluminum - ICP-Acid Digest	ug/g	94.60	9.730	64.10	82.60	73.35	25.2	n/a	12.00	n/a
S95T003061	A	Arsenic - ICP-Acid Digest	ug/g	92.20	<1.00e-01	<2.41e+01	<1.96e1	n/a	n/a	n/a	24.10	n/a
S95T003061	A	Boron - ICP-Acid Digest	ug/g	108.0	3.41e-01	81.30	107.0	94.15	27.3	n/a	12.00	n/a
S95T003061	A	Barium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	1.44e+03	1.53e+03	1.48e+03	6.06	n/a	12.00	n/a
S95T003061	A	Beryllium - ICP-Acid Digest	ug/g	98.20	<5.00e-03	<1.20e+00	<9.79e-1	n/a	n/a	n/a	1.200	n/a
S95T003061	A	Bismuth - ICP-Acid Digest	ug/g	89.80	1.10e-01	4.86e+04	5.27e+04	5.06e+04	8.09	n/a	24.10	n/a
S95T003061	A	Calcium - ICP-Acid Digest	ug/g	93.00	<1.00e-01	456.0	365.0	410.5	22.2	n/a	24.10	n/a
S95T003061	A	Cadmium - ICP-Acid Digest	ug/g	90.20	<5.00e-03	<1.20e+00	1.040	n/a	n/a	n/a	1.200	n/a
S95T003061	A	Cerium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	44.50	49.40	46.95	10.4	n/a	24.10	n/a
S95T003061	A	Cobalt - ICP-Acid Digest	ug/g	91.80	<2.00e-02	<4.82e+00	<3.92e0	n/a	n/a	n/a	4.820	n/a
S95T003061	A	Chromium - ICP-Acid Digest	ug/g	92.40	<1.00e-02	1.79e+03	1.95e+03	1.87e+03	8.56	n/a	2.410	n/a
S95T003061	A	Copper - ICP-Acid Digest	ug/g	90.00	<1.00e-02	3.190	<1.96e0	n/a	n/a	n/a	2.410	n/a
S95T003061	A	Iron - ICP-Acid Digest	ug/g	91.20	<5.00e-02	2.34e+03	2.57e+03	2.46e+03	9.37	n/a	12.00	n/a
S95T003061	A	Potassium - ICP-Acid Digest	ug/g	90.40	<5.00e-01	4.88e+03	4.95e+03	4.92e+03	1.42	n/a	120.0	n/a
S95T003061	A	Lanthanum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	8.89e+03	9.75e+03	9.32e+03	9.23	n/a	12.00	n/a
S95T003061	A	Lithium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	21.10	21.60	21.35	2.34	n/a	2.410	n/a
S95T003061	A	Magnesium - ICP-Acid Digest	ug/g	88.00	<1.00e-01	62.10	72.30	67.20	15.2	n/a	24.10	n/a
S95T003061	A	Manganese - ICP-Acid Digest	ug/g	89.80	2.500	8.66e+03	1.00e+04	9.33e+03	14.4	n/a	2.410	n/a
S95T003061	A	Molybdenum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.20e+01	<9.79e0	n/a	n/a	n/a	12.00	n/a
S95T003061	A	Sodium - ICP-Acid Digest	ug/g	111.8	6.48e-01	2.27e+04	2.30e+04	2.28e+04	1.31	n/a	24.10	n/a
S95T003061	A	Neodymium - ICP-Acid Digest	ug/g	90.00	<1.00e-01	<2.41e+01	<1.96e1	n/a	n/a	n/a	24.10	n/a
S95T003061	A	Nickel - ICP-Acid Digest	ug/g	91.80	<2.00e-02	102.0	108.0	105.0	5.71	n/a	4.820	n/a
S95T003061	A	Phosphorus - ICP-Acid Digest	ug/g	91.20	<2.00e-01	2.62e+03	2.86e+03	2.74e+03	8.76	n/a	48.20	n/a
S95T003061	A	Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<2.41e+01	<1.96e1	n/a	n/a	n/a	24.10	n/a
S95T003061	A	Sulfur - ICP-Acid Digest	ug/g	90.00	<1.00e-01	132.0	120.0	126.0	9.52	n/a	24.10	n/a
S95T003061	A	Antimony - ICP-Acid Digest	ug/g	86.60	<6.00e-02	<1.46e+01	<1.17e1	n/a	n/a	n/a	14.50	n/a
S95T003061	A	Selenium - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<2.41e+01	<1.96e1	n/a	n/a	n/a	24.10	n/a
S95T003061	A	Silicon - ICP-Acid Digest	ug/g	199.8	<5.00e-02	1.12e+03	1.45e+03	1.28e+03	25.7	n/a	12.00	n/a
S95T003061	A	Samarium - ICP-Acid Digest	ug/g	89.40	<1.00e-01	<2.41e+01	<1.96e1	n/a	n/a	n/a	24.10	n/a
S95T003061	A	Strontium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	366.0	410.0	388.0	11.3	n/a	2.410	n/a
S95T003061	A	Titanium - ICP-Acid Digest	ug/g	88.80	<1.00e-02	3.570	4.300	3.935	18.6	n/a	2.410	n/a
S95T003061	A	Thallium - ICP-Acid Digest	ug/g	87.60	<2.00e-01	<4.82e+01	<3.92e1	n/a	n/a	n/a	48.20	n/a
S95T003061	A	Uranium - ICP-Acid Digest	ug/g	88.70	<5.00e-01	<1.20e+02	<9.79e1	n/a	n/a	n/a	120.0	n/a
S95T003061	A	Vanadium - ICP-Acid Digest	ug/g	89.60	<5.00e-02	<1.20e+01	<9.79e0	n/a	n/a	n/a	12.00	n/a
S95T003061	A	Zinc - ICP-Acid Digest	ug/g	88.00	<1.00e-02	19.80	17.50	18.65	12.3	n/a	2.410	n/a
S95T003061	A	Zirconium - ICP-Acid Digest	ug/g	89.40	<1.00e-02	<2.41e+01	<1.96e0	n/a	n/a	n/a	2.410	n/a
S95T003085	W	Bromide by Ion Chromatograph	ug/g	103.0	<1.26e-01	2.78e+03	2.90e+03	2.84e+03	4.23	n/a	1.65e+03	n/a
S95T003085	W	Chloride-IC-Dionex 4000T/4500	ug/g	101.8	<1.70e-02	2.93e+03	3.05e+03	2.99e+03	4.01	n/a	222.7	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003085	W	Fluoride-IC-Dionex 4000i/4500	ug/g	107.8	<1.30e-02	3.53e+04	3.50e+04	3.52e+04	0.85	n/a	170.3	n/a
S95T003085	W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.7	<1.07e-01	5.84e+03	5.96e+03	5.90e+03	2.03	n/a	1.40e+03	n/a
S95T003085	W	Nitrate by IC-Dionex 4000i/4500	ug/g	103.3	<1.40e-01	2.46e+05	2.44e+05	2.45e+05	0.82	n/a	1.83e+03	n/a
S95T003085	W	Oxalate by IC - Dionex 4000i	ug/g	102.3	<1.05e-01	4.68e+03	4.84e+03	4.76e+03	3.36	n/a	1.38e+03	n/a
S95T003085	W	Phosphate-IC-Dionex 4000i/4500	ug/g	106.8	<1.19e-01	1.87e+04	1.82e+04	1.85e+04	2.71	n/a	1.56e+03	n/a
S95T003085	W	Sulfate by IC-Dionex 4000i/4500	ug/g	101.3	<1.36e-01	3.76e+03	3.97e+03	3.86e+03	5.43	n/a	1.78e+03	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002989		Bulk Density of Sample	g/mL	n/a	n/a	1.220	1.200	1.210	1.65	n/a	5.00e-01	n/a
S95T003038		% Water by IGA using Mettler	%	100.4	n/a	77.62	78.23	77.93	0.78	n/a	n/a	n/a
S95T003038		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003038		DSC Exotherm using Mettler	Joules/g	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003062	A	Silver - ICP-Acid Digest	ug/g	91.10	<1.00e-02	3.460	3.270	3.365	5.65	n/a	2.250	n/a
S95T003062	A	Aluminum - ICP-Acid Digest	ug/g	94.60	9.730	55.90	53.20	54.55	4.95	n/a	11.20	n/a
S95T003062	A	Arsenic - ICP-Acid Digest	ug/g	92.20	<1.00e-01	<2.25e+01	<2.13e1	n/a	n/a	n/a	22.50	n/a
S95T003062	A	Boron - ICP-Acid Digest	ug/g	108.0	3.41e-01	105.0	107.0	106.0	1.89	n/a	11.20	n/a
S95T003062	A	Barium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	176.0	161.0	168.5	8.90	n/a	11.20	n/a
S95T003062	A	Beryllium - ICP-Acid Digest	ug/g	98.20	<5.00e-03	<1.12e+00	<1.06e0	n/a	n/a	n/a	1.120	n/a
S95T003062	A	Bismuth - ICP-Acid Digest	ug/g	89.80	1.10e-01	5.00e+04	4.88e+04	4.94e+04	2.43	n/a	22.50	n/a
S95T003062	A	Calcium - ICP-Acid Digest	ug/g	93.00	<1.00e-01	358.0	324.0	341.0	9.97	n/a	22.50	n/a
S95T003062	A	Cadmium - ICP-Acid Digest	ug/g	90.20	<5.00e-03	1.160	<1.06e0	n/a	n/a	n/a	1.120	n/a
S95T003062	A	Cerium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	59.20	57.10	58.15	3.61	n/a	22.50	n/a
S95T003062	A	Cobalt - ICP-Acid Digest	ug/g	91.80	<2.00e-02	<4.50e+00	<4.26e0	n/a	n/a	n/a	4.500	n/a
S95T003062	A	Chromium - ICP-Acid Digest	ug/g	92.40	<1.00e-02	2.28e+03	2.22e+03	2.25e+03	2.67	n/a	2.250	n/a
S95T003062	A	Copper - ICP-Acid Digest	ug/g	90.00	<1.00e-02	12.20	9.760	10.98	22.2	n/a	2.250	n/a
S95T003062	A	Iron - ICP-Acid Digest	ug/g	91.20	<5.00e-02	2.73e+03	2.65e+03	2.69e+03	2.97	n/a	11.20	n/a
S95T003062	A	Potassium - ICP-Acid Digest	ug/g	90.40	<5.00e-01	5.03e+03	4.97e+03	5.00e+03	1.20	n/a	112.0	n/a
S95T003062	A	Lanthanum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	1.05e+04	1.03e+04	1.04e+04	1.92	n/a	11.20	n/a
S95T003062	A	Lithium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	13.50	14.30	13.90	5.76	n/a	2.250	n/a
S95T003062	A	Magnesium - ICP-Acid Digest	ug/g	88.00	<1.00e-01	88.20	83.10	85.65	5.95	n/a	22.50	n/a
S95T003062	A	Manganese - ICP-Acid Digest	ug/g	89.80	2.500	1.35e+04	1.33e+04	1.34e+04	1.49	n/a	2.250	n/a
S95T003062	A	Molybdenum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.12e+01	<1.06e1	n/a	n/a	n/a	11.20	n/a
S95T003062	A	Sodium - ICP-Acid Digest	ug/g	111.8	6.48e-01	2.32e+04	2.33e+04	2.32e+04	0.43	n/a	22.50	n/a
S95T003062	A	Neodymium - ICP-Acid Digest	ug/g	90.00	<1.00e-01	<2.25e+01	<2.13e1	n/a	n/a	n/a	22.50	n/a
S95T003062	A	Nickel - ICP-Acid Digest	ug/g	91.80	<1.00e-02	169.0	165.0	167.0	2.40	n/a	4.500	n/a
S95T003062	A	Phosphorus - ICP-Acid Digest	ug/g	91.20	<2.00e-01	2.50e+03	2.42e+03	2.46e+03	3.25	n/a	45.00	n/a
S95T003062	A	Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<2.25e+01	<2.13e1	n/a	n/a	n/a	22.50	n/a
S95T003062	A	Sulfur - ICP-Acid Digest	ug/g	90.00	<1.00e-01	114.0	115.0	114.5	0.87	n/a	22.50	n/a
S95T003062	A	Antimony - ICP-Acid Digest	ug/g	86.60	<6.00e-02	<1.35e+01	<1.28e1	n/a	n/a	n/a	13.50	n/a
S95T003062	A	Selenium - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<2.25e+01	<2.13e1	n/a	n/a	n/a	22.50	n/a
S95T003062	A	Silicon - ICP-Acid Digest	ug/g	199.8	<5.00e-02	1.42e+03	1.47e+03	1.44e+03	3.46	n/a	11.20	n/a
S95T003062	A	Samarium - ICP-Acid Digest	ug/g	89.40	<1.00e-01	<2.25e+01	<2.13e1	n/a	n/a	n/a	22.50	n/a
S95T003062	A	Strontium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	374.0	351.0	362.5	6.34	n/a	2.250	n/a
S95T003062	A	Titanium - ICP-Acid Digest	ug/g	88.80	<1.00e-02	2.450	2.430	2.440	0.82	n/a	2.250	n/a
S95T003062	A	Thallium - ICP-Acid Digest	ug/g	87.60	<2.00e-01	<4.50e+01	<4.26e1	n/a	n/a	n/a	45.00	n/a
S95T003062	A	Uranium - ICP-Acid Digest	ug/g	88.70	<5.00e-01	<1.12e+02	<1.06e2	n/a	n/a	n/a	112.0	n/a
S95T003062	A	Vanadium - ICP-Acid Digest	ug/g	89.60	<5.00e-02	<1.12e+01	<1.06e1	n/a	n/a	n/a	11.20	n/a
S95T003062	A	Zinc - ICP-Acid Digest	ug/g	88.00	<1.00e-02	11.50	11.20	11.35	2.64	n/a	2.250	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003062	A		Zirconium -ICP-Acid Digest	ug/g	89.40	<1.00e-02	<2.25e+00	<2.13e0	n/a	n/a	n/a	2.250	n/a
S95T003086	W		Bromide by Ion Chromatograph	ug/g	103.3	<1.26e-01	359.9	377.0	368.4	4.61	103.8	191.9	n/a
S95T003086	W		Chloride-IC-Dionex 4000i/4500	ug/g	103.8	<1.70e-02	554.0	602.0	578.0	8.30	98.71	25.88	n/a
S95T003086	W		Fluoride-IC-Dionex 4000i/4500	ug/g	109.5	<1.30e-02	6.39e+03	7.09e+03	6.74e+03	10.4	0.00e+00	19.80	n/a
S95T003086	W		Nitrite-IC - Dionex 4000i/4500	ug/g	101.1	<1.07e-01	802.2	855.0	828.6	6.40	102.6	162.9	n/a
S95T003086	W		Nitrate by IC-Dionex4000i/4500	ug/g	103.7	<1.40e-01	4.68e+04	5.17e+04	4.92e+04	9.95	23.17	213.2	n/a
S95T003086	W		Oxalate by IC - Dionex 4000i	ug/g	101.9	<1.05e-01	1.22e+03	1.34e+03	1.28e+03	9.38	101.7	159.9	n/a
S95T003086	W		Phosphate-IC-Dionex 4000i/4500	ug/g	107.2	<1.19e-01	3.23e+03	3.58e+03	3.40e+03	10.3	108.8	181.2	n/a
S95T003086	W		Sulfate by IC-Dionex4000i/4500	ug/g	102.9	<1.36e-01	474.7	542.0	508.4	13.2	102.5	207.1	n/a
S95T003109	F		Alpha of Digested Solid	UC1/g	89.58	<1.30e-03	2.99e-01	3.22e-01	3.10e-01	7.41	71.94	2.33e+03	4.53e+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 4

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002991		Bulk Density of Sample	g/mL	n/a	n/a	1.200	1.200	1.200	0.00	n/a	5.00e-01	n/a
S95T003039		% Water by IGA using Mettler	%	100.4	n/a	78.72	78.41	78.56	0.39	n/a	n/a	n/a
S95T003039		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003039		DSC Exotherm using Mettler	Joules/g	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003063	A	Silver - ICP-Acid Digest	ug/g	91.10	<1.00e-02	2.120	2.800	2.460	27.6	n/a	1.760	n/a
S95T003063	A	Aluminum - ICP-Acid Digest	ug/g	94.60	9.730	59.00	74.70	66.85	23.5	n/a	8.780	n/a
S95T003063	A	Arsenic - ICP-Acid Digest	ug/g	92.20	<1.00e-01	<1.76e+01	<2.33e1	n/a	n/a	n/a	17.60	n/a
S95T003063	A	Boron - ICP-Acid Digest	ug/g	108.0	3.47e-01	89.10	119.0	104.0	28.7	n/a	8.780	n/a
S95T003063	A	Barium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	384.0	502.0	443.0	26.6	n/a	8.780	n/a
S95T003063	A	Beryllium - ICP-Acid Digest	ug/g	98.20	<5.00e-03	<8.78e-01	<1.16e0	n/a	n/a	n/a	8.78e-01	n/a
S95T003063	A	Bismuth - ICP-Acid Digest	ug/g	89.80	1.10e-01	4.39e+04	5.81e+04	5.10e+04	27.8	n/a	17.60	n/a
S95T003063	A	Calcium - ICP-Acid Digest	ug/g	93.00	<1.00e-01	318.0	422.0	370.0	28.1	n/a	17.60	n/a
S95T003063	A	Cadmium - ICP-Acid Digest	ug/g	90.20	<5.00e-03	9.19e-01	1.260	1.090	31.3	n/a	8.78e-01	n/a
S95T003063	A	Cerium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	47.70	62.30	55.00	26.5	n/a	17.60	n/a
S95T003063	A	Cobalt - ICP-Acid Digest	ug/g	91.80	<2.00e-02	<3.51e+00	<4.66e0	n/a	n/a	n/a	3.510	n/a
S95T003063	A	Chromium - ICP-Acid Digest	ug/g	92.40	<1.00e-02	1.99e+03	2.63e+03	2.31e+03	27.7	n/a	1.760	n/a
S95T003063	A	Copper - ICP-Acid Digest	ug/g	90.00	<1.00e-02	2.740	3.580	3.160	26.6	n/a	1.760	n/a
S95T003063	A	Iron - ICP-Acid Digest	ug/g	91.20	<5.00e-02	9.23e+03	1.22e+04	1.07e+04	27.7	n/a	8.780	n/a
S95T003063	A	Potassium - ICP-Acid Digest	ug/g	90.40	<5.00e-01	4.39e+03	5.79e+03	5.09e+03	27.5	n/a	8.780	n/a
S95T003063	A	Lanthanum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	8.91e+03	1.17e+04	1.03e+04	27.1	n/a	8.780	n/a
S95T003063	A	Lithium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	15.90	21.20	18.55	28.6	n/a	1.760	n/a
S95T003063	A	Magnesium - ICP-Acid Digest	ug/g	88.00	<1.00e-01	61.60	80.60	71.10	26.7	n/a	17.60	n/a
S95T003063	A	Manganese - ICP-Acid Digest	ug/g	89.80	2.500	1.19e+04	1.58e+04	1.38e+04	28.2	n/a	1.760	n/a
S95T003063	A	Molybdenum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<8.78e+00	<1.16e1	n/a	n/a	n/a	8.780	n/a
S95T003063	A	Sodium - ICP-Acid Digest	ug/g	111.8	6.48e-01	2.05e+04	2.70e+04	2.38e+04	27.4	n/a	17.60	n/a
S95T003063	A	Neodymium - ICP-Acid Digest	ug/g	90.00	<1.00e-01	<1.76e+01	<2.33e1	n/a	n/a	n/a	17.60	n/a
S95T003063	A	Nickel - ICP-Acid Digest	ug/g	91.20	<2.00e-02	112.0	150.0	131.0	29.0	n/a	3.510	n/a
S95T003063	A	Phosphorus - ICP-Acid Digest	ug/g	91.80	<2.00e-02	2.26e+03	3.00e+03	2.63e+03	28.1	n/a	35.10	n/a
S95T003063	A	Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<1.76e+01	<2.33e1	n/a	n/a	n/a	17.60	n/a
S95T003063	A	Sulfur - ICP-Acid Digest	ug/g	90.00	<1.00e-01	101.0	141.0	121.0	33.1	n/a	17.60	n/a
S95T003063	A	Antimony - ICP-Acid Digest	ug/g	86.60	<6.00e-02	<1.05e+01	<1.40e1	n/a	n/a	n/a	10.50	n/a
S95T003063	A	Selenium - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<1.76e+01	23.70	n/a	n/a	n/a	17.60	n/a
S95T003063	A	Silicon - ICP-Acid Digest	ug/g	199.8	<5.00e-02	1.33e+03	1.81e+03	1.57e+03	30.6	n/a	8.780	n/a
S95T003063	A	Strontium - ICP-Acid Digest	ug/g	89.40	<1.00e-01	<1.76e+01	<2.33e1	n/a	n/a	n/a	17.60	n/a
S95T003063	A	Samarium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	428.0	561.0	494.5	26.9	n/a	1.760	n/a
S95T003063	A	Titanium - ICP-Acid Digest	ug/g	88.80	<1.00e-02	2.200	2.860	2.530	26.1	n/a	1.760	n/a
S95T003063	A	Thallium - ICP-Acid Digest	ug/g	87.60	<2.00e-01	<3.51e+01	<4.66e1	n/a	n/a	n/a	35.10	n/a
S95T003063	A	Uranium - ICP-Acid Digest	ug/g	88.70	<5.00e-02	<8.78e+01	<1.16e2	n/a	n/a	n/a	8.780	n/a
S95T003063	A	Vanadium - ICP-Acid Digest	ug/g	89.60	<5.00e-02	<8.78e+01	<1.16e1	n/a	n/a	n/a	8.780	n/a
S95T003063	A	Zinc - ICP-Acid Digest	ug/g	88.00	<1.00e-02	20.90	27.80	24.35	28.3	n/a	1.760	n/a
S95T003063	W	Zirconium - ICP-Acid Digest	ug/g	89.40	<1.00e-02	<1.76e+00	<2.33e0	n/a	n/a	n/a	1.760	n/a
S95T003087	W	Bromide by Ion Chromatograph	ug/g	103.3	<1.26e-01	275.9	316.0	295.9	13.5	n/a	140.1	n/a
S95T003087	W	Chloride-IC-Dionex 40001/4500	ug/g	103.8	<1.70e-02	522.4	574.0	548.2	9.49	n/a	18.90	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003087	W	Fluoride-IC-Dionex 4000i/4500	ug/g	109.5	<1.30e-02	4.93e+03	duperror	n/a	n/a	n/a	132.7	n/a
S95T003087	W	Nitrite-IC - Dionex 4000i/4500	ug/g	101.1	<1.07e-01	580.6	657.0	618.8	12.3	n/a	119.0	n/a
S95T003087	W	Nitrate by IC-Dionex4000i/4500	ug/g	103.7	<1.40e-01	3.56e+04	duperror	n/a	n/a	n/a	1.43e+03	n/a
S95T003087	W	Oxalate by IC - Dionex 4000i	ug/g	101.9	<1.05e-01	1.33e+03	1.56e+03	1.45e+03	15.9	n/a	116.7	n/a
S95T003087	W	Phosphate-IC-Dionex 4000i/4500	ug/g	107.2	<1.19e-01	3.36e+03	3.75e+03	3.56e+03	11.0	n/a	132.3	n/a
S95T003087	W	Sulfate by IC-Dionex4000i/4500	ug/g	102.9	<1.36e-01	419.6	451.0	435.3	7.12	n/a	151.2	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002992		Bulk Density of Sample	g/mL	n/a	n/a	1.150	1.160	1.155	0.87	n/a	5.00e-01	n/a
S95T003040		% Water by IGA using Mettler	%	100.4	n/a	76.62	76.78	76.70	0.21	n/a	n/a	n/a
S95T003040		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003040		DSC Exotherm using Mettler	Joules/g	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003064	A	Silver -ICP-Acid Digest	ug/g	91.10	<1.00e-02	3.970	3.750	3.860	5.70	n/a	2.430	n/a
S95T003064	A	Aluminum -ICP-Acid Digest	ug/g	94.60	9.730	48.80	49.40	49.10	1.22	n/a	12.10	n/a
S95T003064	A	Arsenic -ICP-Acid Digest	ug/g	92.20	<1.00e-01	<2.43e+01	<2.22e1	n/a	n/a	n/a	24.30	n/a
S95T003064	A	Boron -ICP-Acid Digest	ug/g	108.0	3.41e-01	106.0	113.0	109.5	6.39	n/a	12.10	n/a
S95T003064	A	Barium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	12.70	12.80	12.75	0.78	n/a	12.10	n/a
S95T003064	A	Beryllium -ICP-Acid Digest	ug/g	98.20	<5.00e-03	<1.21e+00	<1.11e0	n/a	n/a	n/a	1.210	n/a
S95T003064	A	Bismuth -ICP-Acid Digest	ug/g	89.80	1.10e-01	6.10e+04	6.17e+04	6.14e+04	1.14	n/a	24.30	n/a
S95T003064	A	Calcium -ICP-Acid Digest	ug/g	93.00	<1.00e-01	366.0	360.0	363.0	1.65	n/a	24.30	n/a
S95T003064	A	Cadmium -ICP-Acid Digest	ug/g	90.20	<5.00e-03	<1.21e+00	<1.11e0	n/a	n/a	n/a	1.210	n/a
S95T003064	A	Cerium -ICP-Acid Digest	ug/g	93.60	<2.00e-02	64.20	68.80	66.50	6.92	n/a	24.30	n/a
S95T003064	A	Cobalt -ICP-Acid Digest	ug/g	91.80	<2.00e-02	<4.85e+00	<4.44e0	n/a	n/a	n/a	4.850	n/a
S95T003064	A	Chromium -ICP-Acid Digest	ug/g	92.40	<1.00e-02	2.36e+03	2.39e+03	2.38e+03	1.26	n/a	2.430	n/a
S95T003064	A	Copper -ICP-Acid Digest	ug/g	90.00	<1.00e-02	92.60	90.30	91.45	2.52	n/a	2.430	n/a
S95T003064	A	Iron -ICP-Acid Digest	ug/g	91.20	<5.00e-02	3.07e+03	3.10e+03	3.08e+03	0.97	n/a	12.10	n/a
S95T003064	A	Potassium -ICP-Acid Digest	ug/g	90.40	<5.00e-01	5.38e+03	5.31e+03	5.34e+03	1.31	n/a	12.10	n/a
S95T003064	A	Lanthanum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	1.14e+04	1.14e+04	1.14e+04	0.00	n/a	12.10	n/a
S95T003064	A	Lithium -ICP-Acid Digest	ug/g	91.80	<1.00e-02	17.20	17.20	17.20	0.00	n/a	2.430	n/a
S95T003064	A	Magnesium -ICP-Acid Digest	ug/g	88.00	<1.00e-01	72.10	76.20	74.15	5.53	n/a	24.30	n/a
S95T003064	A	Manganese -ICP-Acid Digest	ug/g	89.80	2.500	1.77e+04	1.86e+04	1.82e+04	4.96	n/a	2.430	n/a
S95T003064	A	Molybdenum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.21e+01	<1.11e1	n/a	n/a	n/a	12.10	n/a
S95T003064	A	Sodium -ICP-Acid Digest	ug/g	111.8	6.48e-01	2.49e+04	2.48e+04	2.48e+04	0.40	n/a	24.30	n/a
S95T003064	A	Neodymium -ICP-Acid Digest	ug/g	90.00	<1.00e-01	<2.43e+01	<2.22e1	n/a	n/a	n/a	24.30	n/a
S95T003064	A	Nickel -ICP-Acid Digest	ug/g	91.80	<2.00e-02	140.0	142.0	141.0	1.42	n/a	4.850	n/a
S95T003064	A	Phosphorus -ICP-Acid Digest	ug/g	91.20	<2.00e-01	2.55e+03	2.55e+03	2.55e+03	0.00	n/a	48.50	n/a
S95T003064	A	Lead -ICP-Acid Digest	ug/g	89.60	<1.00e-01	38.60	44.30	41.45	13.8	n/a	24.30	n/a
S95T003064	A	Sulfur -ICP-Acid Digest	ug/g	90.00	<1.00e-01	132.0	124.0	128.0	6.25	n/a	24.30	n/a
S95T003064	A	Antimony -ICP-Acid Digest	ug/g	86.60	<6.00e-02	<1.46e+01	<1.33e1	n/a	n/a	n/a	14.60	n/a
S95T003064	A	Selenium -ICP-Acid Digest	ug/g	89.60	<1.00e-01	<2.43e+01	22.40	n/a	n/a	n/a	24.30	n/a
S95T003064	A	Silicon -ICP-Acid Digest	ug/g	199.8	<5.00e-02	1.55e+03	1.67e+03	1.61e+03	7.45	n/a	12.10	n/a
S95T003064	A	Samarium -ICP-Acid Digest	ug/g	89.40	<1.00e-01	<2.43e+01	<2.22e1	n/a	n/a	n/a	24.30	n/a
S95T003064	A	Strontium-ICP-Acid Digest	ug/g	90.60	<1.00e-02	617.0	616.0	616.5	0.16	n/a	2.430	n/a
S95T003064	A	Titanium-ICP-Acid Digest	ug/g	88.80	<1.00e-02	2.460	2.530	2.495	2.81	n/a	2.430	n/a
S95T003064	A	Thallium -ICP-Acid Digest	ug/g	87.60	<2.00e-01	<4.85e+01	<4.44e1	n/a	n/a	n/a	48.50	n/a
S95T003064	A	Uranium -ICP-Acid Digest	ug/g	88.70	<5.00e-01	<1.21e+02	<1.11e2	n/a	n/a	n/a	121.0	n/a
S95T003064	A	Vanadium -ICP-Acid Digest	ug/g	89.60	<5.00e-02	<1.21e+01	<1.11e1	n/a	n/a	n/a	12.10	n/a
S95T003064	A	Zinc -ICP-Acid Digest	ug/g	88.00	<1.00e-02	20.50	12.40	16.45	49.2	n/a	2.430	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003064	A		Zirconium - ICP-Acid Digest	ug/g	89.40	<1.00e-02	<2.43e+00	<2.22e0	n/a	n/a	n/a	2.430	n/a
S95T003088	W		Bromide by Ion Chromatograph	ug/g	107.1	<1.26e-01	443.0	442.0	442.5	0.23	99.34	158.3	n/a
S95T003088	W		Chloride-IC-Dionex 4000i/4500	ug/g	106.8	<1.70e-02	556.7	550.0	553.4	1.26	105.4	21.36	n/a
S95T003088	W		Fluoride-IC-Dionex 4000i/4500	ug/g	109.5	<1.30e-02	6.55e+03	6.28e+03	6.42e+03	4.21	66.76	16.34	n/a
S95T003088	W		Nitrite-IC - Dionex 4000i/4500	ug/g	104.5	<1.07e-01	525.1	449.0	487.1	15.6	100.4	134.5	n/a
S95T003088	W		Nitrate by IC-Dionex4000i/4500	ug/g	103.4	1.95e-01	4.94e+04	4.79e+04	4.86e+04	3.08	100.9	175.9	n/a
S95T003088	W		Oxalate by IC - Dionex 4000i	ug/g	104.2	<1.05e-01	1.66e+03	1.58e+03	1.62e+03	4.94	104.6	131.1	n/a
S95T003088	W		Phosphate-IC-Dionex 4000i/4500	ug/g	109.2	<1.19e-01	3.91e+03	3.84e+03	3.88e+03	1.81	107.7	149.5	n/a
S95T003088	W		Sulfate by IC-Dionex4000i/4500	ug/g	103.6	1.69e-01	444.2	421.0	432.6	5.32	101.0	170.9	n/a
S95T003110	F		Alpha of Digested Solid	uCi/g	103.9	<1.28e-03	2.53e-01	2.85e-01	2.69e-01	11.9	76.79	3.00e-03	5.10E+00

Final Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 5

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002993		Bulk Density of Sample	g/mL	n/a	n/a	1.180	1.160	1.170	1.71	n/a	5.00e-01	n/a
S95T003041		% Water by IGA using Mettler	%	100.4	n/a	71.32	76.70	74.01	7.27	n/a	n/a	n/a
S95T003041		DSC Exotherm Dry Calculated	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003041		DSC Exotherm using Mettler	Joules/g	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003065	A	Silver - ICP-Acid Digest	ug/g	91.10	<1.00e-02	<4.37e+00	<4.87e0	n/a	n/a	n/a	4.370	n/a
S95T003065	A	Aluminum - ICP-Acid Digest	ug/g	94.60	9.730	57.70	52.70	55.20	9.06	n/a	21.80	n/a
S95T003065	A	Arsenic - ICP-Acid Digest	ug/g	92.20	<1.00e-01	<4.37e+01	<4.87e1	n/a	n/a	n/a	43.70	n/a
S95T003065	A	Boron - ICP-Acid Digest	ug/g	108.0	3.41e-01	122.0	133.0	127.5	8.63	n/a	21.80	n/a
S95T003065	A	Beryllium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<2.18e+01	<2.43e1	n/a	n/a	n/a	21.80	n/a
S95T003065	A	Bismuth - ICP-Acid Digest	ug/g	98.20	<5.00e-03	<2.18e+00	<2.43e0	n/a	n/a	n/a	21.80	n/a
S95T003065	A	Calcium - ICP-Acid Digest	ug/g	89.80	1.10e-01	6.31e+04	6.11e+04	6.21e+04	3.22	n/a	43.70	n/a
S95T003065	A	Cadmium - ICP-Acid Digest	ug/g	93.00	<1.00e-01	389.0	337.0	363.0	14.3	n/a	43.70	n/a
S95T003065	A	Cerium - ICP-Acid Digest	ug/g	90.20	<5.00e-03	<2.18e+00	<2.43e0	n/a	n/a	n/a	21.80	n/a
S95T003065	A	Cobalt - ICP-Acid Digest	ug/g	91.80	<2.00e-02	<8.74e+00	<9.73e0	n/a	n/a	n/a	8.740	n/a
S95T003065	A	Chromium - ICP-Acid Digest	ug/g	92.40	<1.00e-02	2.95e+03	2.97e+03	2.96e+03	0.68	n/a	4.370	n/a
S95T003065	A	Iron - ICP-Acid Digest	ug/g	90.00	<1.00e-02	20.50	17.90	19.20	13.5	n/a	4.370	n/a
S95T003065	A	Potassium - ICP-Acid Digest	ug/g	91.20	<5.00e-02	3.62e+03	3.55e+03	3.58e+03	1.95	n/a	21.80	n/a
S95T003065	A	Lanthanum - ICP-Acid Digest	ug/g	90.40	<5.00e-01	5.31e+03	5.55e+03	5.43e+03	4.42	n/a	218.0	n/a
S95T003065	A	Lithium - ICP-Acid Digest	ug/g	92.00	<5.00e-02	1.09e+04	1.06e+04	1.08e+04	2.79	n/a	21.80	n/a
S95T003065	A	Magnesium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	52.70	52.20	52.45	0.95	n/a	4.370	n/a
S95T003065	A	Manganese - ICP-Acid Digest	ug/g	88.00	<1.00e-01	71.70	63.50	67.60	12.1	n/a	43.70	n/a
S95T003065	A	Molybdenum - ICP-Acid Digest	ug/g	89.80	2.500	1.86e+04	1.78e+04	1.82e+04	4.40	n/a	4.370	n/a
S95T003065	A	Sodium - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<2.18e+01	<2.43e1	n/a	n/a	n/a	21.80	n/a
S95T003065	A	Neodymium - ICP-Acid Digest	ug/g	111.8	6.48e-01	2.60e+04	2.64e+04	2.62e+04	1.53	n/a	43.70	n/a
S95T003065	A	Nickel - ICP-Acid Digest	ug/g	90.00	<1.00e-01	<4.37e+01	<4.87e1	n/a	n/a	n/a	43.70	n/a
S95T003065	A	Phosphorus - ICP-Acid Digest	ug/g	91.80	<2.00e-02	208.0	201.0	204.5	3.42	n/a	8.740	n/a
S95T003065	A	Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<4.37e+01	<4.87e1	2.66e+03	0.38	n/a	87.40	n/a
S95T003065	A	Antimony - ICP-Acid Digest	ug/g	90.00	<1.00e-01	112.0	112.0	112.0	0.00	n/a	43.70	n/a
S95T003065	A	Selenium - ICP-Acid Digest	ug/g	86.60	<6.00e-02	<2.62e+01	<2.92e1	n/a	n/a	n/a	26.20	n/a
S95T003065	A	Strontium - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<4.37e+01	<4.87e1	n/a	n/a	n/a	43.70	n/a
S95T003065	A	Titanium - ICP-Acid Digest	ug/g	199.8	<5.00e-02	1.80e+03	1.78e+03	1.79e+03	1.12	n/a	21.80	n/a
S95T003065	A	Vanadium - ICP-Acid Digest	ug/g	89.40	<1.00e-01	<4.37e+01	<4.87e1	n/a	n/a	n/a	43.70	n/a
S95T003065	A	Zinc - ICP-Acid Digest	ug/g	90.60	<1.00e-02	840.0	820.0	830.0	2.41	n/a	4.370	n/a
S95T003065	A	Zirconium - ICP-Acid Digest	ug/g	88.80	<1.00e-02	<4.37e+00	<4.87e0	n/a	n/a	n/a	4.370	n/a
S95T003065	A	Barium - ICP-Acid Digest	ug/g	87.60	<2.00e-01	<8.74e+01	<9.73e1	n/a	n/a	n/a	87.40	n/a
S95T003065	A	Copper - ICP-Acid Digest	ug/g	88.70	<5.00e-01	<2.18e+02	<2.43e2	n/a	n/a	n/a	218.0	n/a
S95T003065	A	Fluorine - ICP-Acid Digest	ug/g	89.60	<5.00e-02	<2.18e+01	<2.43e1	n/a	n/a	n/a	21.80	n/a
S95T003065	A	Chlorine - ICP-Acid Digest	ug/g	88.00	<1.00e-02	15.30	11.90	13.60	25.0	n/a	4.370	n/a
S95T003065	A	Bromine - ICP-Acid Digest	ug/g	89.40	<1.00e-01	<4.37e+00	<4.87e0	n/a	n/a	n/a	4.370	n/a
S95T003089	W	Chloride-IC-Dronex 40001/4500	ug/g	107.1	<1.70e-02	537.5	550.0	543.8	2.21	n/a	21.85	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003089	W	Fluoride-IC-Dionex 4000i/4500	ug/g	109.5	<1.30e-02	6.13e+03	6.30e+03	6.22e+03	2.74	n/a	16.71	n/a
S95T003089	W	Nitrite-IC - Dionex 4000i/4500	ug/g	104.5	<1.07e-01	430.0	441.0	435.5	2.53	n/a	137.5	n/a
S95T003089	W	Nitrate by IC-Dionex4000i/4500	ug/g	103.4	1.95e-01	4.73e+04	4.82e+04	4.78e+04	1.88	n/a	179.9	n/a
S95T003089	W	Oxalate by IC - Dionex 4000i	ug/g	104.2	<1.05e-01	1.66e+03	1.68e+03	1.67e+03	1.20	n/a	134.1	n/a
S95T003089	W	Phosphate-IC-Dionex 4000i/4500	ug/g	109.2	<1.19e-01	4.13e+03	3.93e+03	4.03e+03	4.96	n/a	152.1	n/a
S95T003089	W	Sulfate by IC-Dionex4000i/4500	ug/g	103.6	1.69e-01	415.6	424.0	419.8	1.90	n/a	174.8	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002994		Bulk Density of Sample	g/ml	n/a	n/a	1.140	1.170	1.155	2.60	n/a	5.00e-01	n/a
S95T003042		% Water by IGA using Mettler	%	100.4	n/a	79.35	79.80	79.57	0.57	n/a	n/a	n/a
S95T003042		DSC Exotherm DRY	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003042		DSC Exotherm using Mettler	Joules/g	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003066	A	Silver -ICP-Acid Digest	ug/g	16.00	<1.00e-02	4.170	3.740	3.955	10.9	82.00	2.310	n/a
S95T003066	A	Aluminum -ICP-Acid Digest	ug/g	99.60	1.20e-01	66.20	60.70	63.45	8.67	85.26	11.50	n/a
S95T003066	A	Arsenic -ICP-Acid Digest	ug/g	98.60	<1.00e-01	<2.31e+01	<1.95e1	n/a	n/a	85.00	23.10	n/a
S95T003066	A	Boron -ICP-Acid Digest	ug/g	105.4	6.22e-01	215.0	204.0	209.5	5.25	92.38	11.50	n/a
S95T003066	A	Beryllium -ICP-Acid Digest	ug/g	95.40	<5.00e-02	19.20	18.30	18.75	4.80	81.54	11.50	n/a
S95T003066	A	Bismuth -ICP-Acid Digest	ug/g	100.2	<5.00e-03	<1.15e+00	<9.77e-1	n/a	n/a	93.20	1.150	n/a
S95T003066	A	Calcium -ICP-Acid Digest	ug/g	96.40	<1.00e-01	4.36e+04	4.20e+04	4.28e+04	3.74	340.1	23.10	n/a
S95T003066	A	Cadmium -ICP-Acid Digest	ug/g	98.60	<1.00e-01	248.0	235.0	241.5	5.38	84.08	23.10	n/a
S95T003066	A	Cerium -ICP-Acid Digest	ug/g	97.60	<5.00e-03	<1.15e+00	<9.77e-1	n/a	n/a	81.80	1.150	n/a
S95T003066	A	Cobalt -ICP-Acid Digest	ug/g	99.40	<1.00e-02	47.50	43.00	45.25	9.94	84.68	23.10	n/a
S95T003066	A	Chromium -ICP-Acid Digest	ug/g	98.20	<2.00e-02	<4.61e+00	<3.91e0	n/a	n/a	82.80	4.620	n/a
S95T003066	A	Copper -ICP-Acid Digest	ug/g	99.40	<1.00e-02	2.58e+03	2.53e+03	2.56e+03	1.96	100.0	2.310	n/a
S95T003066	A	Iron -ICP-Acid Digest	ug/g	94.00	<1.00e-02	4.880	2.720	3.800	56.8	80.38	2.310	n/a
S95T003066	A	Potassium -ICP-Acid Digest	ug/g	97.60	7.560	2.62e+03	2.52e+03	2.57e+03	3.89	96.50	11.50	n/a
S95T003066	A	Lanthanum -ICP-Acid Digest	ug/g	92.80	<5.00e-01	4.91e+03	4.88e+03	4.90e+03	0.61	132.6	115.0	n/a
S95T003066	A	Lithium -ICP-Acid Digest	ug/g	97.80	<5.00e-02	9.13e+03	8.71e+03	8.92e+03	4.71	126.9	11.50	n/a
S95T003066	A	Magnesium -ICP-Acid Digest	ug/g	94.60	<1.00e-02	38.80	34.50	36.65	11.7	82.04	2.310	n/a
S95T003066	A	Manganese -ICP-Acid Digest	ug/g	93.60	<1.00e-01	50.70	50.30	50.50	0.79	79.40	23.10	n/a
S95T003066	A	Molybdenum -ICP-Acid Digest	ug/g	95.80	<1.00e-02	1.55e+04	1.55e+04	1.55e+04	0.00	259.4	2.310	n/a
S95T003066	A	Nickel -ICP-Acid Digest	ug/g	97.40	<5.00e-02	<1.15e+01	<9.77e0	n/a	n/a	82.60	11.50	n/a
S95T003066	A	Sodium -ICP-Acid Digest	ug/g	111.4	6.98e-01	2.38e+04	2.33e+04	2.36e+04	2.12	329.7	23.10	n/a
S95T003066	A	Neodymium -ICP-Acid Digest	ug/g	95.40	<1.00e-01	<2.31e+01	<1.95e1	n/a	n/a	82.20	23.10	n/a
S95T003066	A	Nickel -ICP-Acid Digest	ug/g	98.80	<2.00e-02	149.0	145.0	147.0	2.72	83.30	4.620	n/a
S95T003066	A	Phosphorus -ICP-Acid Digest	ug/g	97.00	<2.00e-01	2.18e+03	2.14e+03	2.16e+03	1.85	100.6	46.10	n/a
S95T003066	A	Lead -ICP-Acid Digest	ug/g	98.60	<1.00e-01	<2.31e+01	19.60	n/a	n/a	84.40	23.10	n/a
S95T003066	A	Sulfur -ICP-Acid Digest	ug/g	95.60	<1.00e-01	85.70	81.90	83.80	4.53	82.18	23.10	n/a
S95T003066	A	Antimony -ICP-Acid Digest	ug/g	91.60	<6.00e-02	<1.38e+01	<1.17e1	n/a	n/a	77.00	13.80	n/a
S95T003066	A	Selenium -ICP-Acid Digest	ug/g	95.80	<1.00e-01	<2.31e+01	<1.95e1	n/a	n/a	83.60	23.10	n/a
S95T003066	A	Silicon -ICP-Acid Digest	ug/g	35.40	2.34e-01	1.83e+03	1.83e+03	1.83e+03	0.00	215.7	11.50	n/a
S95T003066	A	Samarium -ICP-Acid Digest	ug/g	94.40	<1.00e-02	<2.31e+01	<1.95e1	n/a	n/a	80.60	23.10	n/a
S95T003066	A	Strontium -ICP-Acid Digest	ug/g	96.00	<1.00e-02	551.0	535.0	543.0	2.95	86.46	2.310	n/a
S95T003066	A	Titanium -ICP-Acid Digest	ug/g	92.80	<1.00e-02	3.900	3.620	3.760	7.45	80.26	2.310	n/a
S95T003066	A	Thallium -ICP-Acid Digest	ug/g	93.00	<2.00e-01	<4.61e+01	<3.91e1	n/a	n/a	77.00	46.10	n/a
S95T003066	A	Uranium -ICP-Acid Digest	ug/g	93.40	<5.00e-02	<1.15e+02	<9.77e1	n/a	n/a	80.80	115.0	n/a
S95T003066	A	Vanadium -ICP-Acid Digest	ug/g	95.80	<5.00e-02	<1.15e+01	<9.77e0	n/a	n/a	81.60	11.50	n/a
S95T003066	A	Zinc -ICP-Acid Digest	ug/g	95.40	<1.00e-02	14.40	8.780	11.59	48.5	79.96	2.310	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003066	A	Zirconium -ICP-Acid Digest	ug/g	94.20	<1.00e-02	<2.31e+00	2.220	n/a	n/a	81.60	2.310	n/a
S95T003090	W	Bromide by Ion Chromatograph	ug/g	107.0	<1.26e-01	983.7	850.0	916.9	14.6	100.7	316.8	n/a
S95T003090	W	Chloride-IC-Dionex 4000i/4500	ug/g	104.9	<1.70e-02	638.3	618.0	628.1	3.18	99.80	42.73	n/a
S95T003090	W	Fluoride-IC-Dionex 4000i/4500	ug/g	110.5	<1.30e-02	failed s	failed s	n/a	n/a	75.74	32.68	n/a
S95T003090	W	Nitrite-IC - Dionex 4000i/4500	ug/g	104.1	<1.07e-01	550.0	513.0	531.5	6.96	99.63	269.0	n/a
S95T003090	W	Nitrate by IC-Dionex 4000i/4500	ug/g	105.0	<1.40e-01	5.36e+04	5.13e+04	5.24e+04	4.39	85.84	352.0	n/a
S95T003090	W	Oxalate by IC - Dionex 4000i	ug/g	104.0	<1.05e-01	1.94e+03	1.84e+03	1.89e+03	5.29	102.7	264.0	n/a
S95T003090	W	Phosphate-IC-Dionex 4000i/4500	ug/g	109.9	<1.19e-01	4.72e+03	4.49e+03	4.61e+03	4.99	112.4	299.2	n/a
S95T003090	W	Sulfate by IC-Dionex 4000i/4500	ug/g	104.8	<1.36e-01	574.2	614.0	594.1	6.73	100.8	341.9	n/a
S95T003111	F	Alpha of Digested Solid	uCi/g	103.9	<1.28e-03	2.30e-01	2.39e-01	2.34e-01	3.84	78.57	2.94e-03	5.24E+00

Final Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 6

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002995			Bulk Density of Sample	g/mL	n/a	n/a	1.240	1.220	1.230	1.63	n/a	5.00e-01	n/a
S95T003043			% Water by IGA using Mettler	%	100.4	n/a	72.54	77.90	75.22	7.13	n/a	n/a	n/a
S95T003043			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003043			DSC Exotherm using Mettler	Joules/g	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003067	A		Silver - ICP-Acid Digest	ug/g	16.00	<1.00e-02	<4.66e+00	3.660	n/a	n/a	n/a	4.660	n/a
S95T003067	A		Aluminum - ICP-Acid Digest	ug/g	99.60	1.20e-01	63.00	71.60	67.30	12.8	n/a	23.30	n/a
S95T003067	A		Arsenic - ICP-Acid Digest	ug/g	98.60	<1.00e-01	<4.66e+01	<3.46e1	n/a	n/a	n/a	46.60	n/a
S95T003067	A		Boron - ICP-Acid Digest	ug/g	105.4	6.22e-01	163.0	246.0	204.5	40.6	n/a	23.30	n/a
S95T003067	A		Barium - ICP-Acid Digest	ug/g	95.40	<5.00e-02	43.30	44.60	43.95	2.96	n/a	23.30	n/a
S95T003067	A		Beryllium - ICP-Acid Digest	ug/g	100.2	<5.00e-03	<2.33e+00	<1.72e0	n/a	n/a	n/a	2.330	n/a
S95T003067	A		Bismuth - ICP-Acid Digest	ug/g	96.40	<1.00e-01	4.74e+04	4.94e+04	4.84e+04	4.13	n/a	46.60	n/a
S95T003067	A		Calcium - ICP-Acid Digest	ug/g	98.60	<1.00e-01	287.0	319.0	303.0	10.6	n/a	46.60	n/a
S95T003067	A		Cadmium - ICP-Acid Digest	ug/g	97.60	<5.00e-03	<2.33e+00	<1.72e0	n/a	n/a	n/a	2.330	n/a
S95T003067	A		Cerium - ICP-Acid Digest	ug/g	99.40	<1.00e-01	49.50	52.40	50.95	5.69	n/a	46.60	n/a
S95T003067	A		Cobalt - ICP-Acid Digest	ug/g	98.20	<1.00e-02	<9.33e+00	<6.89e0	n/a	n/a	n/a	9.320	n/a
S95T003067	A		Chromium - ICP-Acid Digest	ug/g	99.40	<1.00e-02	3.04e+03	3.15e+03	3.10e+03	3.55	n/a	4.660	n/a
S95T003067	A		Copper - ICP-Acid Digest	ug/g	94.00	<1.00e-02	4.970	<3.46e0	n/a	n/a	n/a	4.660	n/a
S95T003067	A		Iron - ICP-Acid Digest	ug/g	97.60	7.560	3.01e+03	3.14e+03	3.08e+03	4.23	n/a	23.30	n/a
S95T003067	A		Potassium - ICP-Acid Digest	ug/g	92.80	<5.00e-01	5.13e+03	5.33e+03	5.23e+03	3.82	n/a	233.0	n/a
S95T003067	A		Lanthanum - ICP-Acid Digest	ug/g	97.80	<5.00e-02	1.10e+04	1.18e+04	1.14e+04	7.02	n/a	23.30	n/a
S95T003067	A		Lithium - ICP-Acid Digest	ug/g	94.60	<1.00e-02	31.00	32.10	31.55	3.49	n/a	4.660	n/a
S95T003067	A		Magnesium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	55.50	43.10	49.30	25.2	n/a	46.60	n/a
S95T003067	A		Manganese - ICP-Acid Digest	ug/g	95.80	<1.00e-02	1.38e+04	1.52e+04	1.45e+04	9.66	n/a	4.660	n/a
S95T003067	A		Molybdenum - ICP-Acid Digest	ug/g	97.40	<5.00e-02	<2.33e+01	<1.72e1	n/a	n/a	n/a	23.30	n/a
S95T003067	A		Sodium - ICP-Acid Digest	ug/g	111.4	6.98e-01	2.47e+04	2.50e+04	2.48e+04	1.21	n/a	46.60	n/a
S95T003067	A		Neodymium - ICP-Acid Digest	ug/g	95.40	<1.00e-01	<4.66e+01	<3.46e1	n/a	n/a	n/a	46.60	n/a
S95T003067	A		Nickel - ICP-Acid Digest	ug/g	98.80	<2.00e-02	174.0	184.0	179.0	5.59	n/a	9.320	n/a
S95T003067	A		Phosphorus - ICP-Acid Digest	ug/g	97.00	<2.00e-01	2.24e+03	2.29e+03	2.26e+03	2.21	n/a	93.20	n/a
S95T003067	A		Lead - ICP-Acid Digest	ug/g	98.60	<1.00e-01	<4.66e+01	<3.46e1	n/a	n/a	n/a	46.60	n/a
S95T003067	A		Sulfur - ICP-Acid Digest	ug/g	95.60	<1.00e-01	110.0	97.90	104.0	11.6	n/a	46.60	n/a
S95T003067	A		Antimony - ICP-Acid Digest	ug/g	91.60	<6.00e-02	<2.79e+01	<2.07e1	n/a	n/a	n/a	27.90	n/a
S95T003067	A		Selenium - ICP-Acid Digest	ug/g	95.80	<1.00e-01	<4.66e+01	<3.46e1	n/a	n/a	n/a	46.60	n/a
S95T003067	A		Silicon - ICP-Acid Digest	ug/g	35.40	2.34e-01	1.77e+03	1.97e+03	1.87e+03	10.7	n/a	23.30	n/a
S95T003067	A		Samarium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	<4.66e+01	<3.46e1	n/a	n/a	n/a	46.60	n/a
S95T003067	A		Strontium - ICP-Acid Digest	ug/g	96.00	<1.00e-02	512.0	526.0	519.0	2.70	n/a	4.660	n/a
S95T003067	A		Titanium - ICP-Acid Digest	ug/g	92.80	<1.00e-02	<4.66e+00	4.350	n/a	n/a	n/a	4.660	n/a
S95T003067	A		Thallium - ICP-Acid Digest	ug/g	93.00	<2.00e-01	<9.33e+01	<6.89e1	n/a	n/a	n/a	93.20	n/a
S95T003067	A		Uranium - ICP-Acid Digest	ug/g	93.40	<5.00e-01	<2.33e+02	<1.72e2	n/a	n/a	n/a	233.0	n/a
S95T003067	A		Vanadium - ICP-Acid Digest	ug/g	95.80	<5.00e-02	<2.33e+01	<1.72e1	n/a	n/a	n/a	23.30	n/a
S95T003067	A		Zinc - ICP-Acid Digest	ug/g	95.40	<1.00e-02	12.10	22.40	17.25	59.7	n/a	4.660	n/a
S95T003067	A		Zirconium - ICP-Acid Digest	ug/g	94.20	<1.00e-02	<4.66e+00	<3.46e0	n/a	n/a	n/a	4.660	n/a
S95T003091	W		Bromide by Ion Chromatograph	ug/g	107.0	<1.26e-01	619.2	578.0	598.6	6.85	n/a	325.0	n/a
S95T003091	W		Chloride-IC-Dionex 40001/4500	ug/g	104.9	<1.70e-02	676.1	590.0	633.0	13.6	n/a	43.85	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003091	W	Fluoride-IC-Dionex 4000i/4500	ug/g	110.5	<1.30e-02	failed	failed	n/a	n/a	n/a	33.54	n/a
S95T003091	W	Nitrate-IC - Dionex 4000i/4500	ug/g	104.1	<1.07e-01	527.2	497.0	512.1	5.86	n/a	276.0	n/a
S95T003091	W	Nitrate by IC-Dionex4000i/4500	ug/g	105.0	<1.40e-01	5.88e+04	5.15e+04	5.51e+04	13.2	n/a	361.1	n/a
S95T003091	W	Oxalate by IC - Dionex 4000i	ug/g	104.0	<1.05e-01	2.15e+03	1.88e+03	2.01e+03	13.4	n/a	270.9	n/a
S95T003091	W	Phosphate-IC-Dionex 4000i/4500	ug/g	109.9	<1.19e-01	5.12e+03	3.99e+03	4.56e+03	24.8	n/a	306.1	n/a
S95T003091	W	Sulfate by IC-Dionex4000i/4500	ug/g	104.8	<1.36e-01	626.0	536.0	581.0	15.5	n/a	350.8	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002996		Bulk Density of Sample	g/mL	n/a	n/a	1.220	1.190	1.205	2.49	n/a	5.00e-01	n/a
S95T003044		% Water by TGA using Mettler	%	100.4	n/a	78.42	78.24	78.33	0.23	n/a	n/a	n/a
S95T003044		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003044		DSC Exotherm using Mettler	Joules/g	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003068	A	Silver - ICP-Acid Digest	ug/g	16.00	<1.00e-02	3.980	3.140	3.560	23.6	n/a	2.230	n/a
S95T003068	A	Aluminum - ICP-Acid Digest	ug/g	99.60	1.20e-01	56.50	51.40	53.95	9.45	n/a	11.10	n/a
S95T003068	A	Arsenic - ICP-Acid Digest	ug/g	98.60	<1.00e-01	<2.23e+01	<1.94e1	n/a	n/a	n/a	22.30	n/a
S95T003068	A	Boron - ICP-Acid Digest	ug/g	105.4	6.22e-01	146.0	128.0	137.0	13.1	n/a	11.10	n/a
S95T003068	A	Barium - ICP-Acid Digest	ug/g	95.40	<5.00e-02	48.30	42.60	45.45	12.5	n/a	11.10	n/a
S95T003068	A	Beryllium - ICP-Acid Digest	ug/g	100.2	<5.00e-03	<1.11e+00	<9.69e-1	n/a	n/a	n/a	1.110	n/a
S95T003068	A	Bismuth - ICP-Acid Digest	ug/g	96.40	<1.00e-01	5.54e+04	4.88e+04	5.21e+04	12.7	n/a	22.30	n/a
S95T003068	A	Calcium - ICP-Acid Digest	ug/g	98.60	<1.00e-01	278.0	246.0	262.0	12.2	n/a	22.30	n/a
S95T003068	A	Cadmium - ICP-Acid Digest	ug/g	97.60	<5.00e-03	<1.11e+00	<9.69e-1	n/a	n/a	n/a	1.110	n/a
S95T003068	A	Cerium - ICP-Acid Digest	ug/g	99.40	<1.00e-01	45.30	39.60	42.45	13.4	n/a	22.30	n/a
S95T003068	A	Cobalt - ICP-Acid Digest	ug/g	98.20	<2.00e-02	<4.45e+00	<3.87e0	n/a	n/a	n/a	4.450	n/a
S95T003068	A	Chromium - ICP-Acid Digest	ug/g	99.40	<1.00e-02	4.10e+03	3.63e+03	3.86e+03	12.2	n/a	2.230	n/a
S95T003068	A	Copper - ICP-Acid Digest	ug/g	94.00	<1.00e-02	2.290	<1.94e0	n/a	n/a	n/a	2.230	n/a
S95T003068	A	Iron - ICP-Acid Digest	ug/g	97.60	7.560	3.65e+03	3.23e+03	3.44e+03	12.2	n/a	11.10	n/a
S95T003068	A	Potassium - ICP-Acid Digest	ug/g	92.80	<5.00e-01	5.50e+03	4.81e+03	5.16e+03	13.4	n/a	111.0	n/a
S95T003068	A	Lanthanum - ICP-Acid Digest	ug/g	97.80	<5.00e-02	1.02e+04	8.95e+03	9.58e+03	13.1	n/a	11.10	n/a
S95T003068	A	Lithium - ICP-Acid Digest	ug/g	94.60	<1.00e-02	30.00	26.10	28.05	13.9	n/a	2.230	n/a
S95T003068	A	Magnesium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	59.20	53.00	56.10	11.1	n/a	22.30	n/a
S95T003068	A	Manganese - ICP-Acid Digest	ug/g	95.80	<1.00e-02	1.62e+04	1.45e+04	1.54e+04	11.1	n/a	2.230	n/a
S95T003068	A	Molybdenum - ICP-Acid Digest	ug/g	97.40	<5.00e-02	<1.11e+01	<9.69e0	n/a	n/a	n/a	11.10	n/a
S95T003068	A	Sodium - ICP-Acid Digest	ug/g	111.4	6.98e-01	2.66e+04	2.33e+04	2.50e+04	13.2	n/a	22.30	n/a
S95T003068	A	Neodymium - ICP-Acid Digest	ug/g	95.40	<1.00e-01	<2.23e+01	<1.94e1	n/a	n/a	n/a	22.30	n/a
S95T003068	A	Nickel - ICP-Acid Digest	ug/g	98.80	<2.00e-02	181.0	161.0	171.0	11.7	n/a	4.450	n/a
S95T003068	A	Phosphorus - ICP-Acid Digest	ug/g	97.00	<2.00e-01	2.57e+03	2.27e+03	2.42e+03	12.4	n/a	44.50	n/a
S95T003068	A	Lead - ICP-Acid Digest	ug/g	98.60	<1.00e-01	50.30	27.40	28.85	10.1	n/a	22.30	n/a
S95T003068	A	Sulfur - ICP-Acid Digest	ug/g	95.60	<1.00e-01	89.00	97.00	93.00	8.60	n/a	22.30	n/a
S95T003068	A	Antimony - ICP-Acid Digest	ug/g	91.60	<6.00e-02	<1.34e+01	<1.16e1	n/a	n/a	n/a	13.40	n/a
S95T003068	A	Selenium - ICP-Acid Digest	ug/g	95.80	<1.00e-01	<2.23e+01	<1.94e1	n/a	n/a	n/a	22.30	n/a
S95T003068	A	Silicon - ICP-Acid Digest	ug/g	35.40	2.34e-01	1.77e+03	1.57e+03	1.67e+03	12.0	n/a	11.10	n/a
S95T003068	A	Samarium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	<2.23e+01	<1.94e1	n/a	n/a	n/a	22.30	n/a
S95T003068	A	Strontium - ICP-Acid Digest	ug/g	96.00	<1.00e-02	577.0	509.0	543.0	12.5	n/a	2.230	n/a
S95T003068	A	Titanium-ICP-Acid Digest	ug/g	92.80	<1.00e-02	4.580	3.930	4.255	15.3	n/a	2.230	n/a
S95T003068	A	Thallium - ICP-Acid Digest	ug/g	93.00	<2.00e-01	<4.45e+01	<3.87e1	n/a	n/a	n/a	44.50	n/a
S95T003068	A	Uranium - ICP-Acid Digest	ug/g	93.40	<5.00e-01	<1.11e+02	<9.69e1	n/a	n/a	n/a	111.0	n/a
S95T003068	A	Vanadium - ICP-Acid Digest	ug/g	95.80	<5.00e-02	<1.11e+01	<9.69e0	n/a	n/a	n/a	11.10	n/a
S95T003068	A	Zinc - ICP-Acid Digest	ug/g	95.40	<1.00e-02	14.70	13.10	13.90	11.5	n/a	2.230	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T003068	A		Zirconium -ICP-Acid Digest	ug/g	94.20	<1.00e-02	<2.23e+00	<1.94e0	n/a	n/a	n/a	2.230		n/a
S95T003092	W		Bromide by Ion Chromatograph	ug/g	106.3	<1.26e-01	664.1	678.0	671.0	2.09	103.0	270.6		n/a
S95T003092	W		Chloride-IC-Dionex 4000i/4500	ug/g	99.87	<1.70e-02	572.8	628.0	600.4	9.16	100.0	36.52		n/a
S95T003092	W		Fluoride-IC-Dionex 4000i/4500	ug/g	109.8	<1.30e-02	6.25e+03	6.47e+03	6.36e+03	3.46	128.4	27.93		n/a
S95T003092	W		Nitrite-IC - Dionex 4000i/4500	ug/g	99.81	<1.07e-01	419.8	425.0	422.4	1.18	97.85	229.8		n/a
S95T003092	W		Nitrate by IC-Dionex4000i/4500	ug/g	107.5	2.28e-01	4.99e+04	5.05e+04	5.02e+04	1.20	114.0	300.7		n/a
S95T003092	W		Oxalate by IC - Dionex 4000i	ug/g	107.4	<1.05e-01	1.75e+03	1.86e+03	1.81e+03	6.09	110.3	225.5		n/a
S95T003092	W		Phosphate-IC-Dionex 4000i/4500	ug/g	105.7	2.88e-01	3.67e+03	3.80e+03	3.73e+03	3.48	109.1	255.6		n/a
S95T003092	W		Sulfate by IC-Dionex4000i/4500	ug/g	104.3	<1.36e-01	463.0	992.0	727.5	72.7	102.6	292.1		n/a
S95T003112	F		Alpha of Digested Solid	uCi/g	99.22	<3.48e-03	1.78e-01	2.20e-01	1.99e-01	21.1	64.06	4.71e-03	8.40E+00	

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 7

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002997		Bulk Density of Sample	g/mL	n/a	n/a	1.220	1.250	1.235	2.43	n/a	5.00e-01	n/a
S95T003045		% Water by IGA using Mettler	%	100.4	n/a	79.13	78.25	78.69	1.12	n/a	n/a	n/a
S95T003045		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003045		DSC Exotherm using Mettler	Joules/g	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003069	A	Silver - ICP-Acid Digest	ug/g	16.00	<1.00e-02	<3.64e+00	3.850	n/a	n/a	n/a	3.640	n/a
S95T003069	A	Aluminum - ICP-Acid Digest	ug/g	99.60	1.20e-01	65.60	69.90	67.75	6.35	n/a	18.20	n/a
S95T003069	A	Arsenic - ICP-Acid Digest	ug/g	98.60	<1.00e-01	<3.64e+01	<3.81e1	n/a	n/a	n/a	36.40	n/a
S95T003069	A	Boron - ICP-Acid Digest	ug/g	105.4	6.22e-01	131.0	168.0	149.5	24.7	n/a	18.20	n/a
S95T003069	A	Beryllium - ICP-Acid Digest	ug/g	95.40	<5.00e-02	42.00	45.40	43.70	7.78	n/a	18.20	n/a
S95T003069	A	Bismuth - ICP-Acid Digest	ug/g	100.2	<5.00e-03	<1.82e+00	<1.90e0	n/a	n/a	n/a	1.820	n/a
S95T003069	A	Calcium - ICP-Acid Digest	ug/g	96.40	<1.00e-01	5.05e+04	5.65e+04	5.35e+04	11.2	n/a	36.40	n/a
S95T003069	A	Cadmium - ICP-Acid Digest	ug/g	98.60	<1.00e-01	276.0	406.0	341.0	38.1	n/a	36.40	n/a
S95T003069	A	Cerium - ICP-Acid Digest	ug/g	97.60	<5.00e-03	<1.82e+00	<1.90e0	n/a	n/a	n/a	1.820	n/a
S95T003069	A	Cobalt - ICP-Acid Digest	ug/g	99.40	<1.00e-01	47.90	52.50	50.20	9.16	n/a	36.40	n/a
S95T003069	A	Chromium - ICP-Acid Digest	ug/g	98.20	<2.00e-02	<7.30e+00	<7.62e0	n/a	n/a	n/a	7.290	n/a
S95T003069	A	Copper - ICP-Acid Digest	ug/g	99.40	<1.00e-02	<3.64e+00	<3.81e0	4.12e+03	7.05	n/a	3.640	n/a
S95T003069	A	Iron - ICP-Acid Digest	ug/g	97.60	7.560	3.34e+03	3.80e+03	3.57e+03	12.9	n/a	18.20	n/a
S95T003069	A	Potassium - ICP-Acid Digest	ug/g	92.80	<5.00e-01	4.92e+03	5.45e+03	5.18e+03	10.2	n/a	182.0	n/a
S95T003069	A	Lanthanum - ICP-Acid Digest	ug/g	97.80	<1.00e-02	1.03e+04	1.12e+04	1.08e+04	8.37	n/a	18.20	n/a
S95T003069	A	Lithium - ICP-Acid Digest	ug/g	94.60	<1.00e-01	27.90	37.20	32.55	28.6	n/a	3.640	n/a
S95T003069	A	Magnesium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	<3.64e+01	50.60	n/a	n/a	n/a	36.40	n/a
S95T003069	A	Manganese - ICP-Acid Digest	ug/g	95.80	<1.00e-02	1.45e+04	1.68e+04	1.56e+04	14.7	n/a	3.640	n/a
S95T003069	A	Molybdenum - ICP-Acid Digest	ug/g	97.40	<5.00e-02	<1.82e+01	<1.90e1	n/a	n/a	n/a	18.20	n/a
S95T003069	A	Sodium - ICP-Acid Digest	ug/g	111.4	6.98e-01	2.35e+04	2.58e+04	2.46e+04	9.33	n/a	36.40	n/a
S95T003069	A	Neodymium - ICP-Acid Digest	ug/g	95.40	<1.00e-01	<3.64e+01	<3.81e1	n/a	n/a	n/a	36.40	n/a
S95T003069	A	Nickel - ICP-Acid Digest	ug/g	98.80	<2.00e-02	166.0	197.0	181.5	17.1	n/a	7.290	n/a
S95T003069	A	Phosphorus - ICP-Acid Digest	ug/g	97.00	<2.00e-01	2.32e+03	2.55e+03	2.44e+03	9.45	n/a	72.90	n/a
S95T003069	A	Lead - ICP-Acid Digest	ug/g	98.60	<1.00e-01	47.10	40.90	44.00	14.1	n/a	36.40	n/a
S95T003069	A	Sulfur - ICP-Acid Digest	ug/g	95.60	<1.00e-01	84.50	93.80	89.15	10.4	n/a	36.40	n/a
S95T003069	A	Antimony - ICP-Acid Digest	ug/g	91.60	<6.00e-02	<2.20e+01	<2.28e1	n/a	n/a	n/a	21.90	n/a
S95T003069	A	Selenium - ICP-Acid Digest	ug/g	95.80	<1.00e-01	<3.64e+01	<3.81e1	n/a	n/a	n/a	36.40	n/a
S95T003069	A	Silicon - ICP-Acid Digest	ug/g	35.40	2.34e-01	1.65e+03	1.96e+03	1.80e+03	17.2	n/a	18.20	n/a
S95T003069	A	Samarium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	<3.64e+01	<3.81e1	n/a	n/a	n/a	36.40	n/a
S95T003069	A	Strontium - ICP-Acid Digest	ug/g	96.00	<1.00e-02	536.0	567.0	551.5	5.62	n/a	3.640	n/a
S95T003069	A	Titanium - ICP-Acid Digest	ug/g	92.80	<1.00e-02	4.060	4.710	4.385	14.8	n/a	3.640	n/a
S95T003069	A	Thallium - ICP-Acid Digest	ug/g	93.00	<2.00e-01	<7.30e+01	<7.62e1	n/a	n/a	n/a	72.90	n/a
S95T003069	A	Uranium - ICP-Acid Digest	ug/g	93.40	<5.00e-01	<1.82e+02	<1.90e2	n/a	n/a	n/a	182.0	n/a
S95T003069	A	Vanadium - ICP-Acid Digest	ug/g	95.80	<5.00e-02	<1.82e+01	<1.90e1	n/a	n/a	n/a	18.20	n/a
S95T003069	A	Zinc - ICP-Acid Digest	ug/g	95.40	<1.00e-02	11.20	15.30	13.25	30.9	n/a	3.640	n/a
S95T003093	W	Bromide by Ion Chromatograph	ug/g	94.20	<1.00e-02	<3.64e+00	<3.81e0	n/a	n/a	n/a	3.640	n/a
S95T003093	W	Chloride - IC-Dionex 4000i/4500	ug/g	106.3	<1.26e-01	653.0	721.0	687.0	9.90	n/a	296.7	n/a
S95T003093	W		ug/g	99.87	<1.70e-02	546.4	567.0	556.7	3.77	n/a	40.03	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003093	W	Fluoride-IC-Dionex 4000i/4500	ug/g	109.8	<1.30e-02	6.02e+03	6.37e+03	6.19e+03	5.65	n/a	30.62	n/a
S95T003093	W	Nitrate-IC - Dionex 4000i/4500	ug/g	99.81	<1.07e-01	414.3	425.0	419.6	2.62	n/a	252.0	n/a
S95T003093	W	Nitrate by IC-Dionex4000i/4500	ug/g	107.5	2.28e-01	4.73e+04	4.94e+04	4.83e+04	4.34	n/a	329.7	n/a
S95T003093	W	Oxalate by IC - Dionex 4000i	ug/g	107.4	<1.05e-01	1.70e+03	1.80e+03	1.75e+03	5.71	n/a	247.3	n/a
S95T003093	W	Phosphate-IC-Dionex 4000i/4500	ug/g	105.7	2.88e-01	3.37e+03	3.69e+03	3.53e+03	9.07	n/a	280.2	n/a
S95T003093	W	Sulfate by IC-Dionex4000i/4500	ug/g	104.3	<1.36e-01	482.0	414.0	448.0	15.2	n/a	320.3	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002998		Bulk Density of Sample	g/mL	n/a	n/a	1.200	1.200	1.200	0.00	n/a	5.00e-01	n/a
S95T003046		% Water by TGA on Perkin Elmer	%	101.1	n/a	75.26	75.45	75.36	0.25	n/a	n/a	n/a
S95T003046		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003046		DSC Exotherm using Mettler	Joules/g	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003070	A	Silver - ICP-Acid Digest	ug/g	16.00	<1.00e-02	4.170	4.010	4.090	3.91	n/a	3.510	n/a
S95T003070	A	Aluminum - ICP-Acid Digest	ug/g	99.60	1.20e-01	64.40	49.50	56.95	26.2	n/a	17.60	n/a
S95T003070	A	Arsenic - ICP-Acid Digest	ug/g	98.60	<1.00e-01	<3.51e+01	<3.43e1	n/a	n/a	n/a	35.10	n/a
S95T003070	A	Boron - ICP-Acid Digest	ug/g	105.4	6.22e-01	131.0	88.00	109.5	39.3	n/a	17.60	n/a
S95T003070	A	Barium - ICP-Acid Digest	ug/g	95.40	<5.00e-02	39.80	39.00	39.40	2.03	n/a	1.760	n/a
S95T003070	A	Beryllium - ICP-Acid Digest	ug/g	100.2	<5.00e-03	<1.76e+00	<1.71e0	n/a	n/a	n/a	1.760	n/a
S95T003070	A	Bismuth - ICP-Acid Digest	ug/g	96.40	<1.00e-01	5.95e+04	5.89e+04	5.92e+04	1.01	n/a	35.10	n/a
S95T003070	A	Calcium - ICP-Acid Digest	ug/g	98.60	<1.00e-01	248.0	242.0	245.0	2.45	n/a	35.10	n/a
S95T003070	A	Cadmium - ICP-Acid Digest	ug/g	97.60	<5.00e-03	<1.76e+00	<1.71e0	n/a	n/a	n/a	1.760	n/a
S95T003070	A	Cerium - ICP-Acid Digest	ug/g	99.40	<1.00e-01	52.90	50.10	51.50	5.44	n/a	35.10	n/a
S95T003070	A	Cobalt - ICP-Acid Digest	ug/g	98.20	<2.00e-02	<7.03e+00	<6.85e0	n/a	n/a	n/a	7.030	n/a
S95T003070	A	Chromium - ICP-Acid Digest	ug/g	99.40	<1.00e-02	4.01e+03	3.93e+03	3.97e+03	2.02	n/a	3.510	n/a
S95T003070	A	Copper - ICP-Acid Digest	ug/g	94.00	<1.00e-02	<3.51e+00	<3.43e0	n/a	n/a	n/a	3.510	n/a
S95T003070	A	Iron - ICP-Acid Digest	ug/g	97.60	7.560	3.97e+03	3.83e+03	3.90e+03	3.59	n/a	17.60	n/a
S95T003070	A	Potassium - ICP-Acid Digest	ug/g	92.80	<5.00e-01	6.20e+03	5.95e+03	6.08e+03	4.12	n/a	176.0	n/a
S95T003070	A	Lanthanum - ICP-Acid Digest	ug/g	97.80	<5.00e-02	1.27e+04	1.20e+04	1.24e+04	5.67	n/a	17.60	n/a
S95T003070	A	Lithium - ICP-Acid Digest	ug/g	94.60	<1.00e-02	49.10	48.50	48.80	1.23	n/a	3.510	n/a
S95T003070	A	Magnesium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	45.20	48.20	46.70	6.42	n/a	35.10	n/a
S95T003070	A	Manganese - ICP-Acid Digest	ug/g	95.80	<1.00e-02	1.77e+04	1.76e+04	1.76e+04	0.57	n/a	3.510	n/a
S95T003070	A	Molybdenum - ICP-Acid Digest	ug/g	97.40	<5.00e-02	<1.76e+01	<1.71e1	n/a	n/a	n/a	17.60	n/a
S95T003070	A	Sodium - ICP-Acid Digest	ug/g	111.4	6.98e-01	2.89e+04	2.78e+04	2.84e+04	3.88	n/a	35.10	n/a
S95T003070	A	Neodymium - ICP-Acid Digest	ug/g	95.40	<1.00e-01	<3.51e+01	<3.43e1	n/a	n/a	n/a	35.10	n/a
S95T003070	A	Nickel - ICP-Acid Digest	ug/g	98.80	<2.00e-02	216.0	210.0	213.0	2.82	n/a	7.030	n/a
S95T003070	A	Phosphorus - ICP-Acid Digest	ug/g	97.00	<2.00e-01	2.69e+03	2.72e+03	2.70e+03	1.11	n/a	70.30	n/a
S95T003070	A	Lead - ICP-Acid Digest	ug/g	98.60	<1.00e-01	<3.51e+01	<3.43e1	n/a	n/a	n/a	35.10	n/a
S95T003070	A	Sulfur - ICP-Acid Digest	ug/g	95.60	<1.00e-01	93.50	95.30	94.40	1.91	n/a	35.10	n/a
S95T003070	A	Antimony - ICP-Acid Digest	ug/g	91.60	<6.00e-02	<2.11e+01	<2.06e1	n/a	n/a	n/a	35.10	n/a
S95T003070	A	Selenium - ICP-Acid Digest	ug/g	95.80	<1.00e-01	<3.51e+01	<3.43e1	n/a	n/a	n/a	35.10	n/a
S95T003070	A	Silicon - ICP-Acid Digest	ug/g	35.40	2.34e-01	1.79e+03	1.68e+03	1.74e+03	6.34	n/a	17.60	n/a
S95T003070	A	Samarium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	<3.51e+01	<3.43e1	n/a	n/a	n/a	35.10	n/a
S95T003070	A	Strontium - ICP-Acid Digest	ug/g	96.00	<1.00e-02	511.0	529.0	520.0	3.46	n/a	3.510	n/a
S95T003070	A	Titanium - ICP-Acid Digest	ug/g	92.80	<1.00e-02	4.180	3.990	4.085	4.65	n/a	3.510	n/a
S95T003070	A	Thallium - ICP-Acid Digest	ug/g	93.00	<2.00e-01	<7.03e+01	<6.85e1	n/a	n/a	n/a	70.30	n/a
S95T003070	A	Uranium - ICP-Acid Digest	ug/g	93.40	<5.00e-01	<1.76e+02	<1.71e2	n/a	n/a	n/a	176.0	n/a
S95T003070	A	Vanadium - ICP-Acid Digest	ug/g	95.80	<5.00e-02	<1.76e+01	<1.71e1	n/a	n/a	n/a	17.60	n/a
S95T003070	A	Zinc - ICP-Acid Digest	ug/g	95.40	<1.00e-02	7.960	7.920	7.940	0.50	n/a	3.510	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003070	A		Zirconium -ICP-Acid Digest	ug/g	94.20	<1.00e-02	<3.51e+00	<3.43e0	n/a	n/a	n/a	3.510	n/a
S95T003094	W		Bromide by Ion Chromatograph	ug/g	105.0	<1.26e-01	862.5	856.0	859.2	0.70	101.9	332.2	n/a
S95T003094	W		Chloride-IC-Dionex 4000i/4500	ug/g	95.95	<1.70e-02	637.2	623.0	630.1	2.22	150.2	44.83	n/a
S95T003094	W		Fluoride-IC-Dionex 4000i/4500	ug/g	108.3	<1.30e-02	6.94e+03	6.91e+03	6.93e+03	0.43	126.2	34.27	n/a
S95T003094	W		Nitrite-IC - Dionex 4000i/4500	ug/g	96.27	<1.07e-01	462.1	450.0	456.1	2.63	96.37	282.1	n/a
S95T003094	W		Nitrate by IC-Dionex4000i/4500	ug/g	106.2	2.22e-01	5.45e+04	5.39e+04	5.42e+04	1.11	116.4	369.2	n/a
S95T003094	W		Oxalate by IC - Dionex 4000i	ug/g	105.7	<1.05e-01	2.04e+03	1.94e+03	1.99e+03	5.03	105.5	276.9	n/a
S95T003094	W		Phosphate-IC-Dionex 4000i/4500	ug/g	104.9	<1.19e-01	3.97e+03	3.92e+03	3.94e+03	1.27	119.4	313.8	n/a
S95T003094	W		Sulfate by IC-Dionex4000i/4500	ug/g	102.4	<1.36e-01	474.6	487.0	480.8	2.49	102.4	358.6	n/a
S95T003113	F		Alpha of Digested Solid	uCi/g	99.22	<3.48e-03	2.87e-01	2.14e-01	2.51e-01	29.1	75.45	5.04e-03	7.16E+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 8

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T002999		Bulk Density of Sample	g/mL	n/a	n/a	1.250	1.250	1.240	1.61	n/a	5.00e-01		n/a
S95T003047		% Water by IGA on Perkin Elmer	%	101.1	n/a	77.48	78.95	78.22	1.88	n/a	n/a		n/a
S95T003047		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a		n/a
S95T003047		DSC Exotherm using Mettler	Joules/g	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a		n/a
S95T003071	A	Silver - ICP-Acid Digest	ug/g	16.00	<1.00e-02	4.010	3.680	3.845	8.58	n/a	2.100		n/a
S95T003071	A	Aluminum - ICP-Acid Digest	ug/g	99.60	1.20e-01	44.70	43.10	43.90	3.64	n/a	10.50		n/a
S95T003071	A	Arsenic - ICP-Acid Digest	ug/g	98.60	<1.00e-01	<2.10e+01	<2.30e1	110.0	9.09	n/a	21.00		n/a
S95T003071	A	Boron - ICP-Acid Digest	ug/g	105.4	6.22e-01	105.0	115.0	110.0	9.09	n/a	10.50		n/a
S95T003071	A	Barium - ICP-Acid Digest	ug/g	95.40	<5.00e-02	16.50	20.80	18.65	23.1	n/a	10.50		n/a
S95T003071	A	Beryllium - ICP-Acid Digest	ug/g	100.2	<5.00e-03	<1.05e+00	<1.15e0	n/a	n/a	n/a	1.050		n/a
S95T003071	A	Bismuth - ICP-Acid Digest	ug/g	96.40	<1.00e-01	4.00e+04	4.26e+04	4.13e+04	6.30	n/a	21.00		n/a
S95T003071	A	Calcium - ICP-Acid Digest	ug/g	98.60	<1.00e-01	258.0	317.0	287.5	20.5	n/a	21.00		n/a
S95T003071	A	Cadmium - ICP-Acid Digest	ug/g	97.60	<5.00e-03	<1.05e+00	<1.15e0	n/a	n/a	n/a	1.050		n/a
S95T003071	A	Cerium - ICP-Acid Digest	ug/g	99.40	<1.00e-01	25.90	30.30	28.10	15.7	n/a	21.00		n/a
S95T003071	A	Cobalt - ICP-Acid Digest	ug/g	98.20	<2.00e-02	<4.19e+00	<4.60e0	n/a	n/a	n/a	4.190		n/a
S95T003071	A	Chromium - ICP-Acid Digest	ug/g	99.40	<1.00e-02	3.36e+03	3.44e+03	3.40e+03	2.35	n/a	2.100		n/a
S95T003071	A	Copper - ICP-Acid Digest	ug/g	94.00	<1.00e-02	<2.10e+00	<2.30e0	n/a	n/a	n/a	2.100		n/a
S95T003071	A	Iron - ICP-Acid Digest	ug/g	97.60	7.560	2.76e+03	2.90e+03	2.83e+03	4.95	n/a	10.50		n/a
S95T003071	A	Potassium - ICP-Acid Digest	ug/g	92.80	<5.00e-01	5.17e+03	5.12e+03	5.14e+03	0.97	n/a	105.0		n/a
S95T003071	A	Lanthanum - ICP-Acid Digest	ug/g	97.80	<5.00e-02	7.73e+03	8.37e+03	8.05e+03	7.95	n/a	10.50		n/a
S95T003071	A	Lithium - ICP-Acid Digest	ug/g	94.60	<1.00e-02	37.20	38.20	37.70	2.65	n/a	2.100		n/a
S95T003071	A	Magnesium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	41.60	43.80	42.70	5.15	n/a	21.00		n/a
S95T003071	A	Manganese - ICP-Acid Digest	ug/g	95.80	<1.00e-02	1.25e+04	1.31e+04	1.28e+04	4.69	n/a	2.100		n/a
S95T003071	A	Molybdenum - ICP-Acid Digest	ug/g	97.40	<5.00e-02	<1.05e+01	<1.15e1	n/a	n/a	n/a	10.50		n/a
S95T003071	A	Sodium - ICP-Acid Digest	ug/g	111.4	6.98e-01	2.40e+04	2.40e+04	2.40e+04	0.00	n/a	21.00		n/a
S95T003071	A	Neodymium - ICP-Acid Digest	ug/g	95.40	<1.00e-01	<2.10e+01	<2.30e1	n/a	n/a	n/a	21.00		n/a
S95T003071	A	Nickel - ICP-Acid Digest	ug/g	98.00	<2.00e-02	135.0	144.0	139.5	6.45	n/a	4.190		n/a
S95T003071	A	Phosphorus - ICP-Acid Digest	ug/g	97.60	<2.00e-01	1.87e+03	1.95e+03	1.91e+03	4.19	n/a	41.90		n/a
S95T003071	A	Lead - ICP-Acid Digest	ug/g	98.60	<1.00e-01	<2.10e+01	<2.30e1	n/a	n/a	n/a	21.00		n/a
S95T003071	A	Sulfur - ICP-Acid Digest	ug/g	95.60	<1.00e-01	66.30	75.80	71.05	13.4	n/a	21.00		n/a
S95T003071	A	Antimony - ICP-Acid Digest	ug/g	91.60	<6.00e-02	<1.26e+01	<1.38e1	n/a	n/a	n/a	12.60		n/a
S95T003071	A	Selenium - ICP-Acid Digest	ug/g	95.80	<1.00e-01	<2.10e+01	26.30	n/a	n/a	n/a	21.00		n/a
S95T003071	A	Silicon - ICP-Acid Digest	ug/g	35.40	2.34e-01	1.20e+03	1.22e+03	1.21e+03	1.65	n/a	10.50		n/a
S95T003071	A	Samarium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	<2.10e+01	<2.30e1	n/a	n/a	n/a	21.00		n/a
S95T003071	A	Strontium - ICP-Acid Digest	ug/g	96.00	<1.00e-02	249.0	289.0	269.0	14.9	n/a	2.100		n/a
S95T003071	A	Titanium - ICP-Acid Digest	ug/g	92.80	<1.00e-02	3.060	3.290	3.175	7.24	n/a	2.100		n/a
S95T003071	A	Thallium - ICP-Acid Digest	ug/g	93.00	<2.00e-01	<4.19e+01	<4.60e1	n/a	n/a	n/a	41.90		n/a
S95T003071	A	Uranium - ICP-Acid Digest	ug/g	95.40	<5.00e-01	<1.05e+02	<1.15e2	n/a	n/a	n/a	105.0		n/a
S95T003071	A	Vanadium - ICP-Acid Digest	ug/g	95.80	<5.00e-02	<1.05e+01	<1.15e1	n/a	n/a	n/a	10.50		n/a
S95T003071	A	Zinc - ICP-Acid Digest	ug/g	95.40	<1.00e-02	6.480	9.720	8.100	40.0	n/a	2.100		n/a
S95T003071	A	Zirconium - ICP-Acid Digest	ug/g	94.20	<1.00e-02	<2.10e+01	<2.30e0	n/a	n/a	n/a	2.100		n/a
S95T003095	W	Bromide by Ion Chromatograph	ug/g	103.0	<1.26e-01	817.2	842.0	829.6	3.01	n/a	256.5		n/a
S95T003095	W	Chloride-IC-Dionex 4000i/4500	ug/g	95.95	<1.70e-02	581.5	602.0	591.8	3.38	n/a	34.61		n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003095	W	Fluoride-IC-Dionex 40001/4500	ug/g	108.3	<1.30e-02	6.48e+03	6.77e+03	6.62e+03	4.38	n/a	26.46	n/a
S95T003095	W	Nitrite-IC - Dionex 40001/4500	ug/g	96.27	<1.07e-01	358.8	369.0	363.9	2.75	n/a	217.8	n/a
S95T003095	W	Nitrate by IC-Dionex40001/4500	ug/g	106.2	2.22e-01	5.11e+04	5.31e+04	5.21e+04	3.84	n/a	284.9	n/a
S95T003095	W	Oxalate by IC - Dionex 40001	ug/g	105.7	<1.05e-01	1.81e+03	1.92e+03	1.87e+03	5.90	n/a	213.7	n/a
S95T003095	W	Phosphate-IC-Dionex 40001/4500	ug/g	104.9	<1.19e-01	3.35e+03	3.54e+03	3.45e+03	5.52	n/a	242.2	n/a
S95T003095	W	Sulfate by IC-Dionex40001/4500	ug/g	102.4	<1.36e-01	347.0	427.0	387.0	20.7	n/a	276.8	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003000		Bulk Density of Sample	g/mL	n/a	n/a	1.160	1.200	1.180	3.39	n/a	5.00e-01	n/a
S95T003048		% Water by TGA on Perkin Elmer	%	101.2	n/a	67.37	78.38	72.88	15.1	n/a	n/a	n/a
S95T003048		DSC Exotherm on Perkin Elmer	Joules/g	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003048		DSC Exotherm Dry Calculated	Joules/g Dry			0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003072	A	Silver - ICP-Acid Digest	ug/g	29.70	<1.00e-02	4.450	4.670	4.560	4.82	88.30	3.910	n/a
S95T003072	A	Aluminum - ICP-Acid Digest	ug/g	98.60	1.07e-01	45.70	53.60	49.65	15.9	91.12	19.50	n/a
S95T003072	A	Arsenic - ICP-Acid Digest	ug/g	96.60	<1.00e-01	<3.91e+01	<3.81e1	n/a	n/a	90.60	39.10	n/a
S95T003072	A	Boron - ICP-Acid Digest	ug/g	106.4	5.41e-01	61.00	137.0	99.00	76.8	95.76	19.50	n/a
S95T003072	A	Barium - ICP-Acid Digest	ug/g	94.60	<5.00e-02	<1.95e+00	<1.91e1	n/a	n/a	88.20	19.50	n/a
S95T003072	A	Beryllium - ICP-Acid Digest	ug/g	100.0	<5.00e-02	<1.95e+00	<1.91e0	n/a	n/a	97.40	1.950	n/a
S95T003072	A	Bismuth - ICP-Acid Digest	ug/g	92.40	<1.00e-01	4.98e+04	4.89e+04	4.94e+04	1.82	0.00e+00	39.10	n/a
S95T003072	A	Calcium - ICP-Acid Digest	ug/g	95.80	<1.00e-01	236.0	248.0	242.0	4.96	93.98	39.10	n/a
S95T003072	A	Cadmium - ICP-Acid Digest	ug/g	93.00	<5.00e-03	<1.95e+00	<1.91e0	n/a	n/a	88.40	1.950	n/a
S95T003072	A	Cerium - ICP-Acid Digest	ug/g	97.80	<1.00e-01	<3.91e+01	<3.81e1	n/a	n/a	95.20	39.10	n/a
S95T003072	A	Cobalt - ICP-Acid Digest	ug/g	94.20	<2.00e-02	<7.81e+00	<7.62e0	n/a	n/a	89.80	7.810	n/a
S95T003072	A	Chromium - ICP-Acid Digest	ug/g	95.40	<1.00e-02	4.42e+03	4.49e+03	4.46e+03	1.57	43.34	3.910	n/a
S95T003072	A	Copper - ICP-Acid Digest	ug/g	94.60	1.260	4.460	<3.81e0	n/a	n/a	87.54	3.910	n/a
S95T003072	A	Iron - ICP-Acid Digest	ug/g	96.80	<5.00e-02	3.27e+03	3.29e+03	3.28e+03	0.61	59.34	19.50	n/a
S95T003072	A	Potassium - ICP-Acid Digest	ug/g	90.00	<5.00e-01	6.12e+03	6.19e+03	6.16e+03	1.14	41.76	195.0	n/a
S95T003072	A	Lanthanum - ICP-Acid Digest	ug/g	96.60	<5.00e-02	8.43e+03	8.33e+03	8.38e+03	1.19	0.00e+00	19.50	n/a
S95T003072	A	Lithium - ICP-Acid Digest	ug/g	98.20	<1.00e-02	54.20	54.30	54.25	0.18	88.64	3.910	n/a
S95T003072	A	Magnesium - ICP-Acid Digest	ug/g	92.20	<1.00e-01	39.50	40.30	39.90	2.01	85.16	39.10	n/a
S95T003072	A	Manganese - ICP-Acid Digest	ug/g	92.00	<1.00e-02	1.49e+04	1.51e+04	1.50e+04	1.33	0.00e+00	3.910	n/a
S95T003072	A	Molybdenum - ICP-Acid Digest	ug/g	94.00	<5.00e-02	<1.95e+01	<1.91e1	n/a	n/a	88.60	19.50	n/a
S95T003072	A	Sodium - ICP-Acid Digest	ug/g	110.8	6.13e-01	2.71e+04	2.73e+04	2.72e+04	0.74	0.00e+00	39.10	n/a
S95T003072	A	Neodymium - ICP-Acid Digest	ug/g	95.00	<1.00e-01	<3.91e+01	<3.81e1	n/a	n/a	89.00	39.10	n/a
S95T003072	A	Nickel - ICP-Acid Digest	ug/g	94.80	<2.00e-02	178.0	182.0	180.0	2.22	87.22	7.810	n/a
S95T003072	A	Phosphorus - ICP-Acid Digest	ug/g	94.40	<2.00e-01	1.98e+03	1.94e+03	1.96e+03	2.04	70.90	78.10	n/a
S95T003072	A	Lead - ICP-Acid Digest	ug/g	92.00	<1.00e-01	357.0	366.0	361.5	2.49	85.28	39.10	n/a
S95T003072	A	Sulfur - ICP-Acid Digest	ug/g	91.60	<1.00e-01	68.10	65.20	66.65	4.35	87.22	39.10	n/a
S95T003072	A	Antimony - ICP-Acid Digest	ug/g	87.60	<6.00e-02	<2.34e+01	<2.29e1	n/a	n/a	81.40	23.40	n/a
S95T003072	A	Selenium - ICP-Acid Digest	ug/g	93.40	<1.00e-01	<3.91e+01	<3.81e1	n/a	n/a	89.60	39.10	n/a
S95T003072	A	Silicon - ICP-Acid Digest	ug/g	101.2	<5.00e-02	1.40e+03	1.50e+03	1.45e+03	6.90	159.0	19.50	n/a
S95T003072	A	Samarium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	<3.91e+01	<3.81e1	n/a	n/a	86.40	39.10	n/a
S95T003072	A	Strontium - ICP-Acid Digest	ug/g	95.20	<1.00e-02	121.0	123.0	122.0	1.64	87.74	3.910	n/a
S95T003072	A	Titanium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<3.91e+00	4.710	n/a	n/a	87.20	3.910	n/a
S95T003072	A	Thallium - ICP-Acid Digest	ug/g	91.60	<2.00e-01	<7.81e+01	<7.62e1	n/a	n/a	82.00	78.10	n/a
S95T003072	A	Uranium - ICP-Acid Digest	ug/g	91.30	<5.00e-01	<1.95e+02	<1.91e2	n/a	n/a	84.70	195.0	n/a
S95T003072	A	Vanadium - ICP-Acid Digest	ug/g	92.80	<5.00e-02	<1.95e+01	<1.91e1	n/a	n/a	87.60	19.50	n/a
S95T003072	A	Zinc - ICP-Acid Digest	ug/g	90.60	<1.00e-02	20.40	12.10	16.25	51.1	85.12	3.910	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003072	A		Zirconium -ICP-Acid Digest	ug/g	92.20	<1.00e-02	<3.91e+00	<3.81e0	n/a	n/a	87.40	3.910	n/a
S95T003096	W		Bromide by Ion Chromatograph	ug/g	107.0	<1.26e-01	795.4	860.0	827.7	7.85	107.2	240.9	n/a
S95T003096	W		Chloride-IC-Dionex 4000i/4500	ug/g	99.75	<1.70e-02	1.53e+03	624.0	1.08e+03	84.1	87.84	32.51	n/a
S95T003096	W		Fluoride-IC-Dionex 4000i/4500	ug/g	n/a	n/a	failedst	failed00C	n/a	n/a	n/a	1.30e-02	n/a
S95T003096	W		Nitrite-IC - Dionex 4000i/4500	ug/g	100.0	<1.07e-01	346.6	360.0	353.3	3.68	99.99	204.6	n/a
S95T003096	W		Nitrate by IC-Dionex4000i/4500	ug/g	108.6	<1.40e-01	5.19e+04	5.36e+04	5.28e+04	3.22	122.7	267.6	n/a
S95T003096	W		Oxalate by IC - Dionex 4000i	ug/g	107.4	<1.05e-01	1.78e+03	1.81e+03	1.79e+03	1.67	108.1	200.7	n/a
S95T003096	W		Phosphate-IC-Dionex 4000i/4500	ug/g	107.0	<1.19e-01	3.16e+03	3.25e+03	3.20e+03	2.81	110.2	227.5	n/a
S95T003096	W		Sulfate by IC-Dionex4000i/4500	ug/g	105.2	<1.36e-01	532.8	411.0	471.9	25.8	107.1	260.0	n/a
S95T003114	F		Alpha of Digested Solid	uCi/g	109.4	<3.40e-03	2.14e-01	4.32e-01	3.23e-01	67.5	91.52	6.09e-03	8.49e+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 9

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003001			Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.190	1.190	0.00	n/a	5.00e-01	n/a
S95T003049			% Water by IGA on Perkin Elmer	%	101.2	n/a	76.86	74.70	75.78	2.85	n/a	n/a	n/a
S95T003049			DSC Exotherm on Perkin Elmer	Joules/g	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003049			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003073	A	Silver	-ICP-Acid Digest	ug/g	29.70	<1.00e-02	4.990	4.460	4.725	11.2	n/a	4.140	n/a
S95T003073	A	Aluminum	-ICP-Acid Digest	ug/g	98.60	1.07e-01	51.90	54.60	53.25	5.07	n/a	20.70	n/a
S95T003073	A	Arsenic	-ICP-Acid Digest	ug/g	96.60	<1.00e-01	<4.14e+01	<3.80e1	n/a	n/a	n/a	41.40	n/a
S95T003073	A	Boron	-ICP-Acid Digest	ug/g	106.4	5.41e-01	98.70	136.0	117.3	31.8	n/a	20.70	n/a
S95T003073	A	Barium	-ICP-Acid Digest	ug/g	94.60	<5.00e-02	<2.07e+01	<1.90e1	n/a	n/a	n/a	20.70	n/a
S95T003073	A	Beryllium	-ICP-Acid Digest	ug/g	100.0	<5.00e-03	<2.07e+00	<1.90e0	n/a	n/a	n/a	2.070	n/a
S95T003073	A	Bismuth	-ICP-Acid Digest	ug/g	92.40	<1.00e-01	5.57e+04	5.51e+04	5.54e+04	1.08	n/a	41.40	n/a
S95T003073	A	Calcium	-ICP-Acid Digest	ug/g	95.80	<1.00e-01	299.0	298.0	298.5	0.34	n/a	41.40	n/a
S95T003073	A	Cadmium	-ICP-Acid Digest	ug/g	93.00	<5.00e-03	<2.07e+00	2.210	n/a	n/a	n/a	2.070	n/a
S95T003073	A	Cerium	-ICP-Acid Digest	ug/g	97.80	<1.00e-01	42.20	41.20	41.70	2.40	n/a	41.40	n/a
S95T003073	A	Cobalt	-ICP-Acid Digest	ug/g	94.20	<2.00e-02	<8.28e+00	<7.59e0	n/a	n/a	n/a	8.280	n/a
S95T003073	A	Chromium	-ICP-Acid Digest	ug/g	95.40	<1.00e-02	4.70e+03	4.65e+03	4.68e+03	1.07	n/a	4.140	n/a
S95T003073	A	Copper	-ICP-Acid Digest	ug/g	94.60	1.240	5.170	4.300	4.735	18.4	n/a	4.140	n/a
S95T003073	A	Iron	-ICP-Acid Digest	ug/g	96.80	<5.00e-02	3.94e+03	3.90e+03	3.92e+03	1.02	n/a	20.70	n/a
S95T003073	A	Potassium	-ICP-Acid Digest	ug/g	90.00	<5.00e-01	6.06e+03	5.82e+03	5.94e+03	4.04	n/a	207.0	n/a
S95T003073	A	Lanthanum	-ICP-Acid Digest	ug/g	96.60	<5.00e-02	1.01e+04	9.94e+03	1.00e+04	1.60	n/a	20.70	n/a
S95T003073	A	Lithium	-ICP-Acid Digest	ug/g	98.20	<1.00e-02	37.10	36.40	36.75	1.90	n/a	4.140	n/a
S95T003073	A	Magnesium	-ICP-Acid Digest	ug/g	92.20	<1.00e-01	45.60	51.50	48.55	12.2	n/a	41.40	n/a
S95T003073	A	Manganese	-ICP-Acid Digest	ug/g	92.00	<1.00e-02	1.60e+04	1.60e+04	1.60e+04	0.00	n/a	4.140	n/a
S95T003073	A	Molybdenum	-ICP-Acid Digest	ug/g	94.00	<5.00e-02	<2.07e+01	<1.90e1	n/a	n/a	n/a	41.40	n/a
S95T003073	A	Sodium	-ICP-Acid Digest	ug/g	110.8	6.13e-01	2.68e+04	2.59e+04	2.64e+04	3.42	n/a	41.40	n/a
S95T003073	A	Neodymium	-ICP-Acid Digest	ug/g	95.00	<1.00e-01	<4.14e+01	<3.80e1	n/a	n/a	n/a	41.40	n/a
S95T003073	A	Nickel	-ICP-Acid Digest	ug/g	94.80	<2.00e-02	201.0	207.0	204.0	2.94	n/a	8.280	n/a
S95T003073	A	Phosphorus	-ICP-Acid Digest	ug/g	94.40	<2.00e-01	2.19e+03	2.11e+03	2.15e+03	3.72	n/a	82.80	n/a
S95T003073	A	Lead	-ICP-Acid Digest	ug/g	92.00	<1.00e-01	557.0	557.0	557.0	0.00	n/a	41.40	n/a
S95T003073	A	Sulfur	-ICP-Acid Digest	ug/g	91.60	<1.00e-01	76.40	65.90	71.15	14.8	n/a	41.40	n/a
S95T003073	A	Antimony	-ICP-Acid Digest	ug/g	87.60	<6.00e-02	<2.48e+01	<2.28e1	n/a	n/a	n/a	24.80	n/a
S95T003073	A	Selenium	-ICP-Acid Digest	ug/g	93.40	<1.00e-01	<4.14e+01	<3.80e1	n/a	n/a	n/a	41.40	n/a
S95T003073	A	Silicon	-ICP-Acid Digest	ug/g	101.2	<5.00e-02	1.29e+03	1.49e+03	1.39e+03	14.4	n/a	20.70	n/a
S95T003073	A	Samarium	-ICP-Acid Digest	ug/g	93.60	<1.00e-01	<4.14e+01	<3.80e1	n/a	n/a	n/a	41.40	n/a
S95T003073	A	Strontium	-ICP-Acid Digest	ug/g	95.20	<1.00e-02	224.0	223.0	223.5	0.45	n/a	4.140	n/a
S95T003073	A	Titanium	-ICP-Acid Digest	ug/g	91.80	<1.00e-02	4.300	5.710	5.005	28.2	n/a	4.140	n/a
S95T003073	A	Thallium	-ICP-Acid Digest	ug/g	91.40	<2.00e-01	<8.28e+01	<7.59e1	n/a	n/a	n/a	82.80	n/a
S95T003073	A	Uranium	-ICP-Acid Digest	ug/g	91.30	<5.00e-01	<2.07e+02	<1.90e2	n/a	n/a	n/a	207.0	n/a
S95T003073	A	Vanadium	-ICP-Acid Digest	ug/g	92.80	<5.00e-02	<2.07e+01	<1.90e1	n/a	n/a	n/a	20.70	n/a
S95T003073	A	Zinc	-ICP-Acid Digest	ug/g	90.60	<1.00e-02	15.90	19.30	17.60	19.3	n/a	4.140	n/a
S95T003073	A	Zirconium	-ICP-Acid Digest	ug/g	92.20	<1.00e-02	<4.14e+00	<3.80e0	n/a	n/a	n/a	4.140	n/a
S95T003097	W	Bromide	by Ion Chromatograph	ug/g	107.0	<1.26e-01	696.2	679.0	687.6	2.47	n/a	233.5	n/a
S95T003097	W	Chloride	-IC-Dionex 40001/4500	ug/g	99.75	<1.70e-02	578.5	559.0	568.8	3.34	n/a	31.50	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003097	W	Fluoride-IC-Dionex 4000i/4500	ug/g	n/a	n/a	failedst	faileddc	n/a	n/a	n/a	1.30e-02	n/a
S95T003097	W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.0	<1.07e-01	335.4	324.0	329.7	3.34	n/a	198.3	n/a
S95T003097	W	Nitrate by IC-Dionex4000i/4500	ug/g	108.6	<1.40e-01	5.11e+04	4.93e+04	5.02e+04	3.59	n/a	259.4	n/a
S95T003097	W	Oxalate by IC - Dionex 4000i	ug/g	107.4	<1.05e-01	1.70e+03	1.66e+03	1.68e+03	2.38	n/a	194.6	n/a
S95T003097	W	Phosphate-IC-Dionex 4000i/4500	ug/g	107.0	<1.19e-01	3.04e+03	2.90e+03	2.97e+03	4.71	n/a	220.5	n/a
S95T003097	W	Sulfate by IC-Dionex4000i/4500	ug/g	105.2	<1.36e-01	378.6	333.0	355.8	12.9	n/a	252.0	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003002		Bulk Density of Sample	g/mL	n/a	n/a	1.200	1.200	1.200	0.00	n/a	5.00e-01	n/a
S95T003050		% Water by TGA on Perkin Elmer	%	101.2	n/a	78.64	77.93	78.28	0.91	n/a	n/a	n/a
S95T003050		DSC Exotherm on Perkin Elmer	Joules/g	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003050		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003074	A	Silver -ICP-Acid Digest	ug/g	29.70	<1.00e-02	3.870	4.190	4.030	7.94	n/a	3.430	n/a
S95T003074	A	Arsenic -ICP-Acid Digest	ug/g	98.60	1.07e-01	324.0	72.60	198.3	127	n/a	17.10	n/a
S95T003074	A	Boron -ICP-Acid Digest	ug/g	96.60	<1.00e-01	<3.43e+01	<3.81e1	n/a	n/a	n/a	34.30	n/a
S95T003074	A	Barium -ICP-Acid Digest	ug/g	106.4	5.41e-01	102.0	124.0	113.0	19.5	n/a	17.10	n/a
S95T003074	A	Beryllium -ICP-Acid Digest	ug/g	94.60	<5.00e-02	<1.71e+01	<1.91e1	n/a	n/a	n/a	17.10	n/a
S95T003074	A	Bismuth -ICP-Acid Digest	ug/g	100.0	<5.00e-02	<1.71e+00	<1.91e0	n/a	n/a	n/a	1.710	n/a
S95T003074	A	Calcium -ICP-Acid Digest	ug/g	92.40	<1.00e-01	4.75e+04	4.98e+04	4.86e+04	4.73	n/a	34.30	n/a
S95T003074	A	Cadmium -ICP-Acid Digest	ug/g	95.80	<1.00e-01	301.0	306.0	303.5	1.65	n/a	34.30	n/a
S95T003074	A	Cerium -ICP-Acid Digest	ug/g	93.00	<5.00e-03	<1.71e+00	<1.91e0	n/a	n/a	n/a	1.710	n/a
S95T003074	A	Cobalt -ICP-Acid Digest	ug/g	97.80	<1.00e-01	<3.43e+01	<3.81e1	n/a	n/a	n/a	34.30	n/a
S95T003074	A	Chromium -ICP-Acid Digest	ug/g	94.20	<2.00e-02	<6.85e+00	<7.62e0	n/a	n/a	n/a	6.850	n/a
S95T003074	A	Copper -ICP-Acid Digest	ug/g	95.40	<1.00e-02	3.53e+03	3.69e+03	3.61e+03	4.43	n/a	3.430	n/a
S95T003074	A	Iron -ICP-Acid Digest	ug/g	94.60	1.260	<3.43e+00	<3.81e0	n/a	n/a	n/a	3.430	n/a
S95T003074	A	Potassium -ICP-Acid Digest	ug/g	96.80	<5.00e-02	3.33e+03	3.52e+03	3.42e+03	5.55	n/a	17.10	n/a
S95T003074	A	Lanthanum -ICP-Acid Digest	ug/g	90.00	<5.00e-01	5.87e+03	6.02e+03	5.94e+03	2.52	n/a	17.10	n/a
S95T003074	A	Lithium -ICP-Acid Digest	ug/g	96.60	<5.00e-02	9.87e+03	9.93e+03	9.90e+03	0.61	n/a	17.10	n/a
S95T003074	A	Magnesium -ICP-Acid Digest	ug/g	98.20	<1.00e-02	34.80	34.40	34.60	1.16	n/a	3.430	n/a
S95T003074	A	Manganese -ICP-Acid Digest	ug/g	92.20	<1.00e-02	41.60	47.20	44.40	12.6	n/a	34.30	n/a
S95T003074	A	Molybdenum -ICP-Acid Digest	ug/g	94.00	<5.00e-02	<1.71e+01	<1.91e1	n/a	n/a	n/a	17.10	n/a
S95T003074	A	Sodium -ICP-Acid Digest	ug/g	110.8	6.13e-01	2.81e+04	2.66e+04	2.74e+04	5.48	n/a	34.30	n/a
S95T003074	A	Neodymium -ICP-Acid Digest	ug/g	95.00	<1.00e-01	<3.43e+01	<3.81e1	n/a	n/a	n/a	34.30	n/a
S95T003074	A	Nickel -ICP-Acid Digest	ug/g	94.80	<2.00e-02	187.0	200.0	193.5	6.72	n/a	6.850	n/a
S95T003074	A	Phosphorus -ICP-Acid Digest	ug/g	94.40	<2.00e-01	1.89e+03	1.95e+03	1.92e+03	3.12	n/a	68.50	n/a
S95T003074	A	Lead -ICP-Acid Digest	ug/g	92.00	<1.00e-01	485.0	580.0	532.5	17.8	n/a	34.30	n/a
S95T003074	A	Sulfur -ICP-Acid Digest	ug/g	91.60	<1.00e-01	129.0	73.10	101.0	55.3	n/a	34.30	n/a
S95T003074	A	Antimony -ICP-Acid Digest	ug/g	87.60	<6.00e-02	<2.07e+01	<2.29e1	n/a	n/a	n/a	20.60	n/a
S95T003074	A	Selenium -ICP-Acid Digest	ug/g	93.40	<1.00e-01	<3.43e+01	<3.81e1	n/a	n/a	n/a	34.30	n/a
S95T003074	A	Silicon -ICP-Acid Digest	ug/g	101.2	<5.00e-02	1.37e+03	1.44e+03	1.40e+03	4.98	n/a	17.10	n/a
S95T003074	A	Samarium -ICP-Acid Digest	ug/g	93.60	<1.00e-01	<3.43e+01	<3.81e1	n/a	n/a	n/a	34.30	n/a
S95T003074	A	Strontium -ICP-Acid Digest	ug/g	95.20	<1.00e-02	250.0	245.0	247.5	2.02	n/a	3.430	n/a
S95T003074	A	Titanium -ICP-Acid Digest	ug/g	91.80	<1.00e-02	<3.43e+00	<3.81e0	n/a	n/a	n/a	3.430	n/a
S95T003074	A	Thallium -ICP-Acid Digest	ug/g	91.40	<2.00e-01	<6.85e+01	<7.62e1	n/a	n/a	n/a	68.50	n/a
S95T003074	A	Uranium -ICP-Acid Digest	ug/g	91.30	<5.00e-01	<1.71e+01	<1.91e1	n/a	n/a	n/a	17.10	n/a
S95T003074	A	Vanadium -ICP-Acid Digest	ug/g	92.80	<5.00e-02	<1.71e+01	<1.91e1	n/a	n/a	n/a	17.10	n/a
S95T003074	A	Zinc -ICP-Acid Digest	ug/g	90.60	<1.00e-02	14.90	11.10	13.00	29.2	n/a	3.430	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003074	A		Zirconium -ICP-Acid Digest	ug/g	92.20	<1.00e-02	<3.43e+00	<3.81e0	n/a	n/a	n/a	3.430	n/a
S95T003098	W		Bromide by Ion Chromatograph	ug/g	104.9	<1.26e-01	803.9	777.0	790.5	3.42	101.2	319.7	n/a
S95T003098	W		Chloride-IC-Dionex 4000i/4500	ug/g	97.59	<1.70e-02	595.2	596.0	595.6	0.17	89.71	43.13	n/a
S95T003098	W		Fluoride-IC-Dionex 4000i/4500	ug/g	109.8	<1.30e-02	6.66e+03	6.42e+03	6.54e+03	3.67	112.9	32.99	n/a
S95T003098	W		Nitrite-IC - Dionex 4000i/4500	ug/g	98.51	<1.07e-01	435.4	402.0	418.7	7.89	95.52	271.5	n/a
S95T003098	W		Nitrate by IC-Dionex4000i/4500	ug/g	107.3	2.08e-01	5.19e+04	5.02e+04	5.10e+04	3.33	98.10	355.2	n/a
S95T003098	W		Oxalate by IC - Dionex 4000i	ug/g	105.5	<1.05e-01	1.80e+03	1.76e+03	1.78e+03	2.25	106.8	266.4	n/a
S95T003098	W		Phosphate-IC-Dionex 4000i/4500	ug/g	104.6	<1.19e-01	3.07e+03	2.77e+03	2.92e+03	10.3	105.0	301.1	n/a
S95T003098	W		Sulfate by IC-Dionex4000i/4500	ug/g	102.9	<1.36e-01	478.5	406.0	442.2	16.3	104.6	345.1	n/a
S95T003115	F		Alpha of Digested Solid	ug/g	109.4	<3.40e-03	3.59e-01	3.24e-01	3.42e-01	10.2	96.43	6.12e-03	6.77e+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 10

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T003003		Bulk Density of Sample	g/mL	n/a	n/a	1.270	1.280	1.275	0.78	n/a	5.00e-01	n/a	n/a
S95T003051		% Water by IGA using Mettler	%	100.4	n/a	76.06	77.66	76.86	2.08	n/a	n/a	n/a	n/a
S95T003051		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003051		DSC Exotherm using Mettler	Joules/g	107.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003075	A	Silver - ICP-Acid Digest	ug/g	29.70	<1.00e-02	3.730	<3.64e0	n/a	n/a	n/a	3.720	n/a	n/a
S95T003075	A	Aluminum - ICP-Acid Digest	ug/g	98.60	1.07e-01	47.90	59.10	53.50	20.9	n/a	18.60	n/a	n/a
S95T003075	A	Arsenic - ICP-Acid Digest	ug/g	96.60	<1.00e-01	<3.72e+01	<3.64e1	129.0	14.0	n/a	37.20	n/a	n/a
S95T003075	A	Boron - ICP-Acid Digest	ug/g	106.4	5.41e-01	120.0	138.0	129.0	14.0	n/a	18.60	n/a	n/a
S95T003075	A	Barium - ICP-Acid Digest	ug/g	94.60	<5.00e-02	<1.86e+01	<1.82e1	n/a	n/a	n/a	18.60	n/a	n/a
S95T003075	A	Beryllium - ICP-Acid Digest	ug/g	100.0	<5.00e-03	<1.86e+00	<1.82e0	n/a	n/a	n/a	1.860	n/a	n/a
S95T003075	A	Bismuth - ICP-Acid Digest	ug/g	92.40	<1.00e-01	5.12e+04	5.12e+04	5.12e+04	0.00	n/a	37.20	n/a	n/a
S95T003075	A	Calcium - ICP-Acid Digest	ug/g	95.80	<1.00e-01	248.0	261.0	254.5	5.11	n/a	37.20	n/a	n/a
S95T003075	A	Cadmium - ICP-Acid Digest	ug/g	93.00	<5.00e-03	<1.86e+00	<1.82e0	n/a	n/a	n/a	1.860	n/a	n/a
S95T003075	A	Cerium - ICP-Acid Digest	ug/g	97.80	<1.00e-01	<3.72e+01	<3.64e1	n/a	n/a	n/a	37.20	n/a	n/a
S95T003075	A	Cobalt - ICP-Acid Digest	ug/g	94.20	<2.00e-02	<7.43e+00	<7.27e0	n/a	n/a	n/a	7.430	n/a	n/a
S95T003075	A	Chromium - ICP-Acid Digest	ug/g	95.40	<1.00e-02	3.68e+03	3.71e+03	3.70e+03	0.81	n/a	3.720	n/a	n/a
S95T003075	A	Copper - ICP-Acid Digest	ug/g	94.60	1.240	3.720	7.810	5.765	70.9	n/a	3.720	n/a	n/a
S95T003075	A	Iron - ICP-Acid Digest	ug/g	96.80	<5.00e-02	3.35e+03	3.45e+03	3.40e+03	2.94	n/a	18.60	n/a	n/a
S95T003075	A	Potassium - ICP-Acid Digest	ug/g	90.00	<5.00e-01	5.23e+03	5.41e+03	5.32e+03	3.38	n/a	186.0	n/a	n/a
S95T003075	A	Lanthanum - ICP-Acid Digest	ug/g	96.60	<5.00e-02	9.28e+03	9.81e+03	9.54e+03	5.55	n/a	18.60	n/a	n/a
S95T003075	A	Lithium - ICP-Acid Digest	ug/g	98.20	<1.00e-02	33.10	35.00	34.05	5.58	n/a	3.720	n/a	n/a
S95T003075	A	Magnesium - ICP-Acid Digest	ug/g	92.20	<1.00e-01	40.50	42.90	41.70	5.76	n/a	37.20	n/a	n/a
S95T003075	A	Manganese - ICP-Acid Digest	ug/g	92.00	<1.00e-02	1.42e+04	1.48e+04	1.45e+04	4.14	n/a	3.720	n/a	n/a
S95T003075	A	Molybdenum - ICP-Acid Digest	ug/g	94.00	<5.00e-02	<1.86e+01	<1.82e1	n/a	n/a	n/a	18.60	n/a	n/a
S95T003075	A	Sodium - ICP-Acid Digest	ug/g	110.8	6.13e-01	2.31e+04	2.40e+04	2.36e+04	3.82	n/a	37.20	n/a	n/a
S95T003075	A	Neodymium - ICP-Acid Digest	ug/g	95.00	<1.00e-01	<3.72e+01	<3.64e1	n/a	n/a	n/a	37.20	n/a	n/a
S95T003075	A	Nickel - ICP-Acid Digest	ug/g	94.80	<2.00e-02	229.0	237.0	233.0	3.43	n/a	7.430	n/a	n/a
S95T003075	A	Phosphorus - ICP-Acid Digest	ug/g	94.40	<2.00e-01	2.05e+03	2.10e+03	2.08e+03	2.41	n/a	74.30	n/a	n/a
S95T003075	A	Lead - ICP-Acid Digest	ug/g	92.00	<1.00e-01	3.94e+04	4.03e+04	3.98e+04	2.26	n/a	37.20	n/a	n/a
S95T003075	A	Sulfur - ICP-Acid Digest	ug/g	91.60	<1.00e-01	66.70	69.50	68.10	4.11	n/a	37.20	n/a	n/a
S95T003075	A	Antimony - ICP-Acid Digest	ug/g	87.60	<6.00e-02	<2.23e+01	<2.18e1	n/a	n/a	n/a	22.30	n/a	n/a
S95T003075	A	Selenium - ICP-Acid Digest	ug/g	93.40	<1.00e-01	<3.72e+01	<3.64e1	n/a	n/a	n/a	37.20	n/a	n/a
S95T003075	A	Silicon - ICP-Acid Digest	ug/g	101.2	<5.00e-02	1.29e+03	1.57e+03	1.43e+03	19.6	n/a	18.60	n/a	n/a
S95T003075	A	Samarium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	<3.72e+01	<3.64e1	n/a	n/a	n/a	37.20	n/a	n/a
S95T003075	A	Strontium - ICP-Acid Digest	ug/g	95.20	<1.00e-02	309.0	324.0	316.5	4.74	n/a	3.720	n/a	n/a
S95T003075	A	Titanium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<3.72e+00	<3.64e0	n/a	n/a	n/a	3.720	n/a	n/a
S95T003075	A	Thallium - ICP-Acid Digest	ug/g	91.40	<2.00e-01	<7.43e+01	<7.27e1	n/a	n/a	n/a	74.30	n/a	n/a
S95T003075	A	Uranium - ICP-Acid Digest	ug/g	91.30	<5.00e-01	<1.86e+02	<1.82e2	n/a	n/a	n/a	186.0	n/a	n/a
S95T003075	A	Vanadium - ICP-Acid Digest	ug/g	92.80	<5.00e-02	<1.86e+01	<1.82e1	n/a	n/a	n/a	18.60	n/a	n/a
S95T003075	A	Zinc - ICP-Acid Digest	ug/g	90.60	<1.00e-02	17.70	19.60	18.65	10.2	n/a	3.720	n/a	n/a
S95T003099	W	Bromide by Ion Chromatograph	ug/g	92.20	<1.00e-02	<3.72e+00	<3.64e0	n/a	n/a	n/a	3.720	n/a	n/a
S95T003099	W	Chloride-IC-Dianex 40001/4500	ug/g	104.5	<1.26e-01	173.7	174.0	173.8	0.00	n/a	150.2	n/a	n/a
S95T003099	W			n/a	n/a	failed s	failedqc	n/a	n/a	n/a	1.70e-02	n/a	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003099	W	Fluoride-IC-Dionex 40001/4500	ug/g	n/a	n/a	n/a	failedst	faileddc	n/a	n/a	n/a	1.30e-02	n/a
S95T003099	W	Nitrite-IC - Dionex 40001/4500	ug/g	97.39	<1.07e-01	n/a	285.6	279.0	282.3	2.48	96.20	127.6	n/a
S95T003099	W	Nitrate by IC-Dionex40001/4500	ug/g	104.1	<1.60e-01	n/a	4.62e+04	4.75e+04	4.68e+04	2.77	123.2	318.7	n/a
S95T003099	W	Oxalate by IC - Dionex 40001	ug/g	105.9	<1.05e-01	n/a	1.62e+03	1.61e+03	1.62e+03	0.62	107.2	125.2	n/a
S95T003099	W	Phosphate-IC-Dionex 40001/4500	ug/g	101.5	<1.19e-01	n/a	2.77e+03	2.75e+03	2.76e+03	0.72	106.3	141.9	n/a
S95T003099	W	Sulfate by IC-Dionex40001/4500	ug/g	103.3	<1.36e-01	n/a	281.3	283.0	282.1	0.71	105.6	162.2	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003004			Bulk Density of Sample	g/mL	n/a	n/a	1.210	1.210	1.210	0.00	n/a	5.00e-01	n/a
S95T003052			% Water by TGA using Mettler	%	102.4	n/a	79.02	76.85	77.94	2.78	n/a	n/a	n/a
S95T003052			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003052			DSC Exotherm using Mettler	Joules/g	107.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003076	A	Silver -ICP-Acid Digest	ug/g	29.70	<1.00e-02	n/a	4.730	4.480	4.605	5.43	n/a	4.560	n/a
S95T003076	A	Aluminum -ICP-Acid Digest	ug/g	98.60	1.07e-01	n/a	50.30	46.00	48.15	8.93	n/a	22.80	n/a
S95T003076	A	Arsenic -ICP-Acid Digest	ug/g	96.60	<1.00e-01	n/a	<4.56e+01	<4.11e1	n/a	n/a	n/a	45.60	n/a
S95T003076	A	Boron -ICP-Acid Digest	ug/g	106.4	5.41e-01	n/a	99.00	85.50	92.25	14.6	n/a	22.80	n/a
S95T003076	A	Barium -ICP-Acid Digest	ug/g	94.60	<5.00e-02	n/a	<2.28e+01	<2.05e1	n/a	n/a	n/a	22.80	n/a
S95T003076	A	Beryllium -ICP-Acid Digest	ug/g	100.0	<5.00e-03	n/a	<2.28e+01	<2.05e1	n/a	n/a	n/a	2.280	n/a
S95T003076	A	Bismuth -ICP-Acid Digest	ug/g	92.40	<1.00e-01	n/a	4.89e+04	5.07e+04	4.98e+04	3.61	n/a	45.60	n/a
S95T003076	A	Calcium -ICP-Acid Digest	ug/g	95.80	<1.00e-01	n/a	349.0	268.0	308.5	26.3	n/a	45.60	n/a
S95T003076	A	Cadmium -ICP-Acid Digest	ug/g	93.00	<5.00e-03	n/a	<2.28e+00	<2.05e0	n/a	n/a	n/a	2.280	n/a
S95T003076	A	Cerium -ICP-Acid Digest	ug/g	97.80	<1.00e-01	n/a	<4.56e+01	<4.11e1	n/a	n/a	n/a	45.60	n/a
S95T003076	A	Cobalt -ICP-Acid Digest	ug/g	94.20	<2.00e-02	n/a	<9.12e+00	<8.21e0	n/a	n/a	n/a	9.120	n/a
S95T003076	A	Chromium -ICP-Acid Digest	ug/g	95.40	<1.00e-02	n/a	4.17e+03	4.26e+03	4.22e+03	2.14	n/a	4.560	n/a
S95T003076	A	Copper -ICP-Acid Digest	ug/g	94.60	1.240	n/a	7.220	5.940	6.580	19.5	n/a	4.560	n/a
S95T003076	A	Iron -ICP-Acid Digest	ug/g	96.80	<5.00e-02	n/a	4.25e+03	4.22e+03	4.24e+03	0.71	n/a	22.80	n/a
S95T003076	A	Potassium -ICP-Acid Digest	ug/g	90.00	<5.00e-01	n/a	5.88e+03	5.94e+03	5.91e+03	1.02	n/a	228.0	n/a
S95T003076	A	Lanthanum -ICP-Acid Digest	ug/g	96.60	<5.00e-02	n/a	9.30e+03	1.04e+04	9.85e+03	11.2	n/a	22.80	n/a
S95T003076	A	Lithium -ICP-Acid Digest	ug/g	98.20	<1.00e-02	n/a	40.60	41.50	41.05	2.19	n/a	4.560	n/a
S95T003076	A	Magnesium -ICP-Acid Digest	ug/g	92.20	<1.00e-01	n/a	<4.56e+01	48.10	n/a	n/a	n/a	45.60	n/a
S95T003076	A	Manganese -ICP-Acid Digest	ug/g	92.00	<1.00e-02	n/a	1.39e+04	1.55e+04	1.47e+04	10.9	n/a	4.560	n/a
S95T003076	A	Molybdenum -ICP-Acid Digest	ug/g	94.00	<5.00e-02	n/a	<2.28e+01	<2.05e1	n/a	n/a	n/a	22.80	n/a
S95T003076	A	Sodium -ICP-Acid Digest	ug/g	110.8	6.13e-01	n/a	2.57e+04	2.61e+04	2.59e+04	1.54	n/a	45.60	n/a
S95T003076	A	Niobium -ICP-Acid Digest	ug/g	95.00	<1.00e-01	n/a	<4.56e+01	<4.11e1	n/a	n/a	n/a	45.60	n/a
S95T003076	A	Nickel -ICP-Acid Digest	ug/g	94.80	<2.00e-02	n/a	462.0	476.0	469.0	2.99	n/a	9.120	n/a
S95T003076	A	Phosphorus -ICP-Acid Digest	ug/g	94.40	<2.00e-01	n/a	1.96e+03	2.16e+03	2.06e+03	9.71	n/a	91.20	n/a
S95T003076	A	Lead -ICP-Acid Digest	ug/g	92.00	<1.00e-01	n/a	103.0	94.40	98.70	8.71	n/a	45.60	n/a
S95T003076	A	Sulfur -ICP-Acid Digest	ug/g	91.60	<1.00e-01	n/a	73.30	76.50	74.90	4.27	n/a	45.60	n/a
S95T003076	A	Antimony -ICP-Acid Digest	ug/g	87.60	<6.00e-02	n/a	<2.74e+01	<2.46e1	n/a	n/a	n/a	27.40	n/a
S95T003076	A	Selenium -ICP-Acid Digest	ug/g	93.40	<1.00e-01	n/a	<4.56e+01	<4.11e1	n/a	n/a	n/a	45.60	n/a
S95T003076	A	Silicon -ICP-Acid Digest	ug/g	101.2	<5.00e-02	n/a	1.19e+03	1.13e+03	1.16e+03	5.17	n/a	22.80	n/a
S95T003076	A	Samarium -ICP-Acid Digest	ug/g	93.60	<1.00e-01	n/a	<4.56e+01	<4.11e1	n/a	n/a	n/a	45.60	n/a
S95T003076	A	Strontium -ICP-Acid Digest	ug/g	95.20	<1.00e-02	n/a	339.0	375.0	357.0	10.1	n/a	4.560	n/a
S95T003076	A	Titanium-ICP-Acid Digest	ug/g	91.80	<1.00e-02	n/a	<4.56e+00	<4.11e0	n/a	n/a	n/a	4.560	n/a
S95T003076	A	Thallium -ICP-Acid Digest	ug/g	91.40	<2.00e-01	n/a	<9.12e+01	<8.21e1	n/a	n/a	n/a	91.20	n/a
S95T003076	A	Uranium -ICP-Acid Digest	ug/g	91.30	<5.00e-01	n/a	<2.28e+02	<2.05e2	n/a	n/a	n/a	228.0	n/a
S95T003076	A	Vanadium -ICP-Acid Digest	ug/g	92.80	<5.00e-02	n/a	<2.28e+01	<2.05e1	n/a	n/a	n/a	22.80	n/a
S95T003076	A	Zinc -ICP-Acid Digest	ug/g	90.60	<1.00e-02	n/a	17.40	27.70	22.55	45.7	n/a	4.560	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003076	A		Zirconium -ICP-Acid Digest	ug/g	92.20	<1.00e-02	<4.56e+00	<4.11e0	n/a	n/a	n/a	4.560	n/a
S95T003100	W		Bromide by Ion Chromatograph	ug/g	104.5	<1.26e-01	751.1	743.0	747.0	1.07	n/a	152.6	n/a
S95T003100	W		Chloride-IC-Dionex 4000i/4500	ug/g	n/a	n/a	failed s	failedqc	n/a	n/a	n/a	1.70e-02	n/a
S95T003100	W		Fluoride-IC-Dionex 4000i/4500	ug/g	n/a	n/a	failed s	failedqc	n/a	n/a	n/a	1.30e-02	n/a
S95T003100	W		Nitrite-IC - Dionex 4000i/4500	ug/g	97.39	<1.07e-01	288.2	275.0	281.6	4.62	n/a	129.6	n/a
S95T003100	W		Nitrate by IC-Dionex 4000i/4500	ug/g	104.1	<1.40e-01	5.14e+04	5.15e+04	5.15e+04	0.19	n/a	169.5	n/a
S95T003100	W		Oxalate by IC - Dionex 4000i	ug/g	105.9	<1.05e-01	1.72e+03	1.75e+03	1.74e+03	1.73	n/a	127.2	n/a
S95T003100	W		Phosphate-IC-Dionex 4000i/4500	ug/g	101.5	<1.19e-01	2.79e+03	2.87e+03	2.83e+03	2.83	n/a	144.1	n/a
S95T003100	W		Sulfate by IC-Dionex 4000i/4500	ug/g	103.3	<1.36e-01	265.1	810.0	537.5	101	n/a	164.7	n/a
S95T003116	F		Alpha of Digested Solid	uCi/g	108.3	<2.53e-03	2.61e-01	2.79e-01	2.70e-01	6.67	94.90	3.44e-03	6.97e+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 11

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003005		Bulk Density of Sample	g/mL	n/a	n/a	1.250	1.200	1.225	4.08	n/a	5.00e-01	n/a
S95T003053		% Water by TGA on Perkin Elmer	%	101.1	n/a	78.22	76.60	77.41	2.09	n/a	n/a	n/a
S95T003053		DSC Exotherm on Perkin Elmer	Joules/g	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003053		DSC Exotherm Dry Calculated	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003077	A	Silver - ICP-Acid Digest	ug/g	29.70	<1.00e-02	<4.07e+00	<3.48e0	n/a	n/a	n/a	4.070	n/a
S95T003077	A	Aluminum - ICP-Acid Digest	ug/g	98.60	1.07e-01	47.50	46.10	46.80	2.99	n/a	20.30	n/a
S95T003077	A	Arsenic - ICP-Acid Digest	ug/g	96.60	<1.00e-01	<4.07e+01	<3.48e1	n/a	n/a	n/a	40.70	n/a
S95T003077	A	Boron - ICP-Acid Digest	ug/g	106.4	5.41e-01	141.0	148.0	144.5	4.84	n/a	20.30	n/a
S95T003077	A	Barium - ICP-Acid Digest	ug/g	94.60	<5.00e-02	<2.03e+01	<1.74e1	n/a	n/a	n/a	20.30	n/a
S95T003077	A	Beryllium - ICP-Acid Digest	ug/g	100.0	<5.00e-03	<2.03e+00	<1.74e0	n/a	n/a	n/a	2.030	n/a
S95T003077	A	Bismuth - ICP-Acid Digest	ug/g	92.40	<1.00e-01	4.75e+04	5.00e+04	4.88e+04	5.13	n/a	40.70	n/a
S95T003077	A	Calcium - ICP-Acid Digest	ug/g	95.80	<1.00e-01	347.0	375.0	361.0	7.76	n/a	40.70	n/a
S95T003077	A	Cadmium - ICP-Acid Digest	ug/g	93.00	<5.00e-03	<2.03e+00	<1.74e0	n/a	n/a	n/a	2.030	n/a
S95T003077	A	Cerium - ICP-Acid Digest	ug/g	97.80	<1.00e-01	<4.07e+01	<3.48e1	n/a	n/a	n/a	40.70	n/a
S95T003077	A	Cobalt - ICP-Acid Digest	ug/g	94.20	<2.00e-02	8.380	8.080	8.230	3.65	n/a	8.140	n/a
S95T003077	A	Chromium - ICP-Acid Digest	ug/g	95.40	<1.00e-02	4.25e+03	4.32e+03	4.28e+03	1.63	n/a	4.070	n/a
S95T003077	A	Copper - ICP-Acid Digest	ug/g	94.60	1.240	9.410	8.690	9.050	7.96	n/a	4.070	n/a
S95T003077	A	Iron - ICP-Acid Digest	ug/g	96.80	<5.00e-02	5.49e+03	5.73e+03	5.61e+03	4.28	n/a	20.30	n/a
S95T003077	A	Potassium - ICP-Acid Digest	ug/g	90.00	<5.00e-01	5.75e+03	5.91e+03	5.83e+03	2.74	n/a	203.0	n/a
S95T003077	A	Lanthanum - ICP-Acid Digest	ug/g	96.60	<5.00e-02	8.43e+03	9.37e+03	8.90e+03	10.6	n/a	20.30	n/a
S95T003077	A	Lithium - ICP-Acid Digest	ug/g	98.20	<1.00e-01	26.50	27.50	27.00	3.70	n/a	4.070	n/a
S95T003077	A	Magnesium - ICP-Acid Digest	ug/g	92.00	<1.00e-02	1.58e+04	1.65e+04	1.62e+04	4.33	n/a	4.070	n/a
S95T003077	A	Manganese - ICP-Acid Digest	ug/g	94.00	<5.00e-02	<2.03e+01	<1.74e1	n/a	n/a	n/a	20.30	n/a
S95T003077	A	Molybdenum - ICP-Acid Digest	ug/g	110.8	6.13e-01	2.53e+04	2.59e+04	2.56e+04	2.34	n/a	40.70	n/a
S95T003077	A	Sodium - ICP-Acid Digest	ug/g	95.00	<1.00e-01	<4.07e+01	<3.48e1	n/a	n/a	n/a	40.70	n/a
S95T003077	A	Nickel - ICP-Acid Digest	ug/g	94.80	<2.00e-02	735.0	786.0	760.5	6.71	n/a	8.140	n/a
S95T003077	A	Phosphorus - ICP-Acid Digest	ug/g	94.40	<2.00e-01	1.86e+03	1.94e+03	1.90e+03	4.21	n/a	81.40	n/a
S95T003077	A	Lead - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<4.07e+01	<3.48e1	n/a	n/a	n/a	40.70	n/a
S95T003077	A	Sulfur - ICP-Acid Digest	ug/g	91.60	<1.00e-01	79.70	80.80	80.25	1.37	n/a	40.70	n/a
S95T003077	A	Antimony - ICP-Acid Digest	ug/g	87.60	<6.00e-02	<2.44e+01	<2.09e1	n/a	n/a	n/a	24.40	n/a
S95T003077	A	Selenium - ICP-Acid Digest	ug/g	93.40	<1.00e-01	<4.07e+01	<3.48e1	n/a	n/a	n/a	40.70	n/a
S95T003077	A	Silicon - ICP-Acid Digest	ug/g	101.2	<5.00e-02	929.0	767.0	848.0	19.1	n/a	20.30	n/a
S95T003077	A	Samarium - ICP-Acid Digest	ug/g	93.60	<1.00e-01	<4.07e+01	<3.48e1	n/a	n/a	n/a	40.70	n/a
S95T003077	A	Strontium - ICP-Acid Digest	ug/g	95.20	<1.00e-02	285.0	265.0	275.0	7.27	n/a	4.070	n/a
S95T003077	A	Titanium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<4.07e+00	<3.48e0	n/a	n/a	n/a	4.070	n/a
S95T003077	A	Thallium - ICP-Acid Digest	ug/g	91.40	<2.00e-01	<8.14e+01	<6.97e1	n/a	n/a	n/a	81.40	n/a
S95T003077	A	Uranium - ICP-Acid Digest	ug/g	91.30	<5.00e-01	<2.03e+02	<1.74e2	n/a	n/a	n/a	203.0	n/a
S95T003077	A	Vanadium - ICP-Acid Digest	ug/g	92.80	<5.00e-02	<2.03e+01	<1.74e1	n/a	n/a	n/a	20.30	n/a
S95T003077	A	Zinc - ICP-Acid Digest	ug/g	90.60	<1.00e-02	31.30	29.30	30.30	6.60	n/a	4.070	n/a
S95T003077	A	Zirconium - ICP-Acid Digest	ug/g	92.20	<1.00e-01	<4.07e+00	<3.48e0	n/a	n/a	n/a	4.070	n/a
S95T003101	W	Bromide by Ion Chromatograph	ug/g	101.0	<1.26e-01	1.10e+03	1.13e+03	1.12e+03	2.69	n/a	232.1	n/a
S95T003101	W	Chloride-IC-Dionex 4000T/4500	ug/g	102.7	6.00e-02	637.3	756.0	696.6	17.1	102.8	31.31	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003101	W	Fluoride-IC-Dionex 4000i/4500	ug/g	106.4	<1.30e-02	6.11e+03	6.14e+03	6.12e+03	0.49	94.53	23.94	n/a
S95T003101	W	Nitrite-IC - Dionex 4000i/4500	ug/g	103.2	<1.07e-01	876.0	855.0	865.5	2.43	94.23	197.1	n/a
S95T003101	W	Nitrate by IC-Dionex4000i/4500	ug/g	103.3	4.37e-01	4.77e+04	4.53e+04	4.65e+04	5.16	92.30	257.9	n/a
S95T003101	W	Oxalate by IC - Dionex 4000i	ug/g	108.0	3.47e-01	2.12e+03	2.11e+03	2.12e+03	0.47	100.8	193.4	n/a
S95T003101	W	Phosphate-IC-Dionex 4000i/4500	ug/g	104.0	<1.19e-01	3.09e+03	3.89e+03	3.49e+03	22.9	102.3	219.2	n/a
S95T003101	W	Sulfate by IC-Dionex4000i/4500	ug/g	102.9	<1.36e-01	986.8	936.0	961.4	5.30	102.0	250.5	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003006		Bulk Density of Sample	g/mL	n/a	n/a	1.140	1.140	1.140	0.00	n/a	5.00e-01	n/a
S95T003054		% Water by TGA on Perkin Elmer	%	101.1	n/a	78.56	76.57	77.56	2.57	n/a	n/a	n/a
S95T003054		DSC Exotherm on Perkin Elmer	Joules/g	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003054		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003078	A	Silver -ICP-Acid Digest	ug/g	88.40	<1.00e-02	<9.49e+00	<1.15e1	n/a	n/a	97.50	9.490	n/a
S95T003078	A	Aluminum -ICP-Acid Digest	ug/g	95.20	6.140	<4.74e+01	<5.74e1	n/a	n/a	102.2	47.40	n/a
S95T003078	A	Arsenic -ICP-Acid Digest	ug/g	89.60	<1.00e-01	<9.49e+01	<1.15e2	n/a	n/a	97.60	94.90	n/a
S95T003078	A	Boron -ICP-Acid Digest	ug/g	95.60	4.73e-01	55.60	<5.74e1	n/a	n/a	102.5	47.40	n/a
S95T003078	A	Barium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.74e+01	<5.74e1	n/a	n/a	93.20	47.40	n/a
S95T003078	A	Beryllium -ICP-Acid Digest	ug/g	99.20	<5.00e-03	<4.74e+00	<5.74e0	n/a	n/a	100.2	4.750	n/a
S95T003078	A	Bismuth -ICP-Acid Digest	ug/g	86.80	<1.00e-01	5.11e+04	4.93e+04	5.02e+04	3.59	0.00e+00	94.90	n/a
S95T003078	A	Calcium -ICP-Acid Digest	ug/g	93.40	1.67e-01	216.0	198.0	207.0	8.70	96.26	94.90	n/a
S95T003078	A	Cadmium -ICP-Acid Digest	ug/g	88.00	<5.00e-03	<4.74e+00	<5.74e0	n/a	n/a	96.40	4.750	n/a
S95T003078	A	Cerium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	<9.49e+01	<1.15e2	n/a	n/a	100.8	94.90	n/a
S95T003078	A	Cobalt -ICP-Acid Digest	ug/g	90.40	<2.00e-02	<1.90e+01	<2.29e1	n/a	n/a	98.60	19.00	n/a
S95T003078	A	Chromium -ICP-Acid Digest	ug/g	91.40	<1.00e-02	4.40e+03	4.43e+03	4.42e+03	0.68	95.20	9.490	n/a
S95T003078	A	Copper -ICP-Acid Digest	ug/g	91.00	<1.00e-02	<9.49e+00	<1.15e1	n/a	n/a	12.26	47.40	n/a
S95T003078	A	Iron -ICP-Acid Digest	ug/g	93.40	<5.00e-02	4.87e+03	4.81e+03	4.84e+03	1.24	0.00e+00	474.0	n/a
S95T003078	A	Potassium -ICP-Acid Digest	ug/g	88.40	<5.00e-01	6.13e+03	6.13e+03	6.13e+03	0.00	0.00e+00	474.0	n/a
S95T003078	A	Lanthanum -ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.09e+04	9.95e+03	1.04e+04	9.11	0.00e+00	47.40	n/a
S95T003078	A	Lithium -ICP-Acid Digest	ug/g	93.60	<1.00e-02	43.00	40.70	41.85	5.50	92.86	9.490	n/a
S95T003078	A	Magnesium -ICP-Acid Digest	ug/g	88.60	<1.00e-01	<9.49e+01	<1.15e2	n/a	n/a	97.00	94.90	n/a
S95T003078	A	Manganese -ICP-Acid Digest	ug/g	88.60	<1.00e-02	1.54e+04	1.49e+04	1.52e+04	3.30	0.00e+00	9.490	n/a
S95T003078	A	Molybdenum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	<4.74e+01	<5.74e1	n/a	n/a	98.80	47.40	n/a
S95T003078	A	Sodium -ICP-Acid Digest	ug/g	103.8	5.02e-01	2.78e+04	2.78e+04	2.78e+04	0.00	0.00e+00	94.90	n/a
S95T003078	A	Neodymium -ICP-Acid Digest	ug/g	94.40	<1.00e-01	<9.49e+01	<1.15e2	n/a	n/a	95.80	94.90	n/a
S95T003078	A	Nickel -ICP-Acid Digest	ug/g	90.20	<2.00e-02	509.0	516.0	512.5	1.37	87.10	19.00	n/a
S95T003078	A	Phosphorus -ICP-Acid Digest	ug/g	89.20	<2.00e-01	2.10e+03	2.06e+03	2.08e+03	1.92	70.58	190.0	n/a
S95T003078	A	Lead -ICP-Acid Digest	ug/g	86.00	<1.00e-01	<9.49e+01	<1.15e2	n/a	n/a	97.20	94.90	n/a
S95T003078	A	Sulfur -ICP-Acid Digest	ug/g	87.60	<1.00e-01	97.40	<1.15e2	n/a	n/a	95.74	94.90	n/a
S95T003078	A	Antimony -ICP-Acid Digest	ug/g	83.00	<6.00e-02	<5.69e+01	<6.88e1	n/a	n/a	89.80	56.90	n/a
S95T003078	A	Selenium -ICP-Acid Digest	ug/g	90.40	<1.00e-01	<9.49e+01	<1.15e2	n/a	n/a	100.2	94.90	n/a
S95T003078	A	Silicon -ICP-Acid Digest	ug/g	218.0	1.47e-01	598.0	504.0	551.0	17.1	169.0	47.40	n/a
S95T003078	A	Strontium -ICP-Acid Digest	ug/g	94.80	<1.00e-01	<9.49e+01	<1.15e2	n/a	n/a	95.00	94.90	n/a
S95T003078	A	Titanium -ICP-Acid Digest	ug/g	92.80	<1.00e-02	315.0	298.0	306.5	5.55	91.38	9.490	n/a
S95T003078	A	Thallium -ICP-Acid Digest	ug/g	90.60	<1.00e-02	<9.49e+00	<1.15e1	n/a	n/a	95.60	9.490	n/a
S95T003078	A	Vanadium -ICP-Acid Digest	ug/g	87.80	<2.00e-01	<1.90e+02	<2.29e2	n/a	n/a	92.00	190.0	n/a
S95T003078	A	Uranium -ICP-Acid Digest	ug/g	94.60	<5.00e-01	<4.74e+02	<5.74e2	n/a	n/a	95.30	474.0	n/a
S95T003078	A	Zinc -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.74e+01	<5.74e1	n/a	n/a	95.40	47.40	n/a
S95T003078	A	Zinc -ICP-Acid Digest	ug/g	84.80	<1.00e-02	17.10	18.20	17.65	6.23	94.60	9.490	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003078	A		Zirconium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<9.49e+00	<1.15e1	n/a	n/a	96.20	9.490	n/a
S95T003102	W		Bromide by Ion Chromatograph	ug/g	101.0	<1.26e-01	1.51e+03	1.53e+03	1.52e+03	1.32	n/a	250.0	n/a
S95T003102	W		Chloride-IC-Dionex 4000i/4500	ug/g	102.7	6.00e-02	621.1	712.0	666.5	13.7	n/a	33.73	n/a
S95T003102	W		Fluoride-IC-Dionex 4000i/4500	ug/g	106.4	<1.30e-02	5.92e+03	6.15e+03	6.03e+03	3.81	n/a	25.79	n/a
S95T003102	W		Nitrite-IC - Dionex 4000i/4500	ug/g	103.2	<1.07e-01	913.8	937.0	925.4	2.49	n/a	212.3	n/a
S95T003102	W		Nitrate by IC-Dionex4000i/4500	ug/g	103.3	4.37e-01	4.32e+04	4.52e+04	4.42e+04	4.52	n/a	277.7	n/a
S95T003102	W		Oxalate by IC - Dionex 4000i	ug/g	108.0	3.47e-01	2.12e+03	2.07e+03	2.10e+03	2.39	n/a	208.3	n/a
S95T003102	W		Phosphate-IC-dionex 4000i/4500	ug/g	104.0	<1.19e-01	2.96e+03	2.97e+03	2.96e+03	0.34	n/a	236.1	n/a
S95T003102	W		Sulfate by IC-Dionex4000i/4500	ug/g	102.9	<1.36e-01	961.7	1.36e+03	1.16e+03	34.3	n/a	269.8	n/a
S95T003117	F		Alpha of Digested Solid	uCi/g	103.9	<2.42e-03	2.84e-01	2.71e-01	2.77e-01	4.68	94.20	5.65e-03	6.45E+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 12

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003007			Bulk Density of Sample	g/mL	n/a	n/a	1.360	1.320	1.340	2.99	n/a	5.00e-01	n/a
S95T003055			% Water by IGA on Perkin Elmer	%	101.1	n/a	78.59	76.96	77.78	2.10	n/a	n/a	n/a
S95T003055			DSC Exotherm on Perkin Elmer	Joules/g	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003055			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003079	A		Silver - ICP-Acid Digest	ug/g	88.40	<1.00e-02	<1.07e+01	<9.66e0	n/a	n/a	n/a	10.70	n/a
S95T003079	A		Aluminum - ICP-Acid Digest	ug/g	95.20	6.140	<5.35e+01	<4.83e1	n/a	n/a	n/a	53.50	n/a
S95T003079	A		Arsenic - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<1.07e+02	<9.66e1	n/a	n/a	n/a	107.0	n/a
S95T003079	A		Boron - ICP-Acid Digest	ug/g	95.60	4.73e-01	76.10	57.80	66.95	27.3	n/a	53.50	n/a
S95T003079	A		Barium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<5.35e+01	<4.83e1	n/a	n/a	n/a	53.50	n/a
S95T003079	A		Beryllium - ICP-Acid Digest	ug/g	99.20	<5.00e-03	<5.35e+00	<4.83e0	n/a	n/a	n/a	5.340	n/a
S95T003079	A		Bismuth - ICP-Acid Digest	ug/g	86.80	<1.00e-01	4.57e+04	4.76e+04	4.66e+04	4.07	n/a	107.0	n/a
S95T003079	A		Calcium - ICP-Acid Digest	ug/g	93.40	1.67e-01	194.0	174.0	184.0	10.9	n/a	107.0	n/a
S95T003079	A		Cadmium - ICP-Acid Digest	ug/g	88.00	<5.00e-03	<5.35e+00	<4.83e0	n/a	n/a	n/a	5.340	n/a
S95T003079	A		Cerium - ICP-Acid Digest	ug/g	94.60	<1.00e-01	<1.07e+02	<9.66e1	n/a	n/a	n/a	107.0	n/a
S95T003079	A		Cobalt - ICP-Acid Digest	ug/g	90.40	<2.00e-02	<2.14e+01	<1.93e1	n/a	n/a	n/a	21.40	n/a
S95T003079	A		Chromium - ICP-Acid Digest	ug/g	91.00	<1.00e-02	3.71e+03	3.78e+03	3.74e+03	1.87	n/a	10.70	n/a
S95T003079	A		Copper - ICP-Acid Digest	ug/g	93.40	<5.00e-02	4.02e+03	4.05e+03	4.04e+03	0.74	n/a	53.50	n/a
S95T003079	A		Iron - ICP-Acid Digest	ug/g	88.40	<5.00e-01	6.10e+03	6.45e+03	6.28e+03	5.58	n/a	535.0	n/a
S95T003079	A		Potassium - ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.15e+04	1.06e+04	1.10e+04	8.74	n/a	53.50	n/a
S95T003079	A		Lanthanum - ICP-Acid Digest	ug/g	93.60	<1.00e-02	80.30	80.80	80.55	0.62	n/a	10.70	n/a
S95T003079	A		Magnesium - ICP-Acid Digest	ug/g	88.60	<1.00e-01	<1.07e+02	<9.66e1	n/a	n/a	n/a	107.0	n/a
S95T003079	A		Manganese - ICP-Acid Digest	ug/g	88.60	<1.00e-02	1.59e+04	1.58e+04	1.58e+04	0.63	n/a	10.70	n/a
S95T003079	A		Sodium - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<5.35e+01	<4.83e1	n/a	n/a	n/a	53.50	n/a
S95T003079	A		Neodymium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	<1.07e+02	<9.66e1	n/a	n/a	n/a	107.0	n/a
S95T003079	A		Nickel - ICP-Acid Digest	ug/g	90.20	<2.00e-02	297.0	303.0	300.0	2.00	n/a	21.40	n/a
S95T003079	A		Phosphorus - ICP-Acid Digest	ug/g	89.20	<2.00e-01	2.05e+03	2.12e+03	2.08e+03	3.36	n/a	214.0	n/a
S95T003079	A		Lead - ICP-Acid Digest	ug/g	86.00	<1.00e-01	<1.07e+02	<9.66e1	n/a	n/a	n/a	107.0	n/a
S95T003079	A		Sulfur - ICP-Acid Digest	ug/g	87.60	<1.00e-01	<1.07e+02	<9.66e1	n/a	n/a	n/a	107.0	n/a
S95T003079	A		Antimony - ICP-Acid Digest	ug/g	83.00	<6.00e-02	<6.43e+01	<5.79e1	n/a	n/a	n/a	64.20	n/a
S95T003079	A		Selenium - ICP-Acid Digest	ug/g	90.40	<1.00e-01	<1.07e+02	<9.66e1	n/a	n/a	n/a	107.0	n/a
S95T003079	A		Samarium - ICP-Acid Digest	ug/g	218.0	1.47e-01	674.0	614.0	644.0	9.32	n/a	53.50	n/a
S95T003079	A		Strontium - ICP-Acid Digest	ug/g	94.80	<1.00e-01	<1.07e+02	<9.66e1	n/a	n/a	n/a	107.0	n/a
S95T003079	A		Thallium - ICP-Acid Digest	ug/g	92.80	<1.00e-02	298.0	325.0	311.5	8.67	n/a	10.70	n/a
S95T003079	A		Uranium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	<1.07e+01	<9.66e0	n/a	n/a	n/a	10.70	n/a
S95T003079	A		Vanadium - ICP-Acid Digest	ug/g	87.80	<2.00e-01	<2.14e+02	<1.93e2	n/a	n/a	n/a	214.0	n/a
S95T003079	A		Zinc - ICP-Acid Digest	ug/g	94.60	<5.00e-02	<5.35e+01	<4.83e1	n/a	n/a	n/a	535.0	n/a
S95T003079	A		Bromine by Ion Chromatograph	ug/g	90.20	<5.00e-02	<5.35e+01	<4.83e1	n/a	n/a	n/a	53.50	n/a
S95T003079	A		Chloride - IC-Dionex 40001/4500	ug/g	84.80	<1.00e-02	12.30	18.40	15.35	39.7	n/a	10.70	n/a
S95T003103	W			ug/g	91.80	<1.00e-02	<1.07e+01	<9.66e0	n/a	n/a	n/a	10.70	n/a
S95T003103	W			ug/g	103.1	<1.26e-01	1.13e+03	1.13e+03	1.13e+03	0.00	n/a	231.6	n/a
S95T003103	W			ug/g	95.57	<1.70e-02	1.25e+03	573.0	910.5	74.3	45.29	31.25	n/a

WHC-SD-WM-DP-160, REV.1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T00303	W		Fluoride-IC-Dionex 4000i/4500	ug/g	104.7	<1.30e-02	6.12e+03	6.16e+03	6.14e+03	0.65	51.97	23.90	n/a
S95T00303	W		Nitrite-IC - Dionex 4000i/4500	ug/g	96.27	<1.07e-01	317.2	334.0	325.6	5.22	97.36	196.6	n/a
S95T00303	W		Nitrate by IC-Dionex4000i/4500	ug/g	102.6	1.79e-01	4.90e+04	4.80e+04	4.85e+04	2.06	52.93	237.3	n/a
S95T00303	W		Nitrate by IC - Dionex 4000i	ug/g	104.8	<1.05e-01	1.59e+03	1.59e+03	1.59e+03	0.00	97.98	193.0	n/a
S95T00303	W		Phosphate-IC-Dionex 4000i/4500	ug/g	100.4	<1.19e-01	2.34e+03	2.22e+03	2.28e+03	5.26	102.8	218.7	n/a
S95T00303	W		Sulfate by IC-Dionex4000i/4500	ug/g	102.4	<1.36e-01	357.4	377.0	367.2	5.45	104.5	249.9	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T00308			Bulk Density of Sample	g/mL	n/a	n/a	1.230	1.250	1.240	1.61	n/a	5.00e-01	n/a
S95T00306			% Water by IGA on Perkin Elmer	%	101.1	n/a	76.53	75.85	76.19	0.89	n/a	n/a	n/a
S95T003056			DSC Exotherm on Perkin Elmer	Joules/g	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003056			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003080	A		Silver -ICP-Acid Digest	ug/g	88.40	<1.00e-02	<9.78e+00	<1.01e1	n/a	n/a	n/a	9.790	n/a
S95T003080	A		Aluminum -ICP-Acid Digest	ug/g	95.20	6.140	52.90	<5.04e1	n/a	n/a	n/a	48.90	n/a
S95T003080	A		Arsenic -ICP-Acid Digest	ug/g	89.60	<1.00e-01	<9.78e+01	<1.01e2	n/a	n/a	n/a	97.80	n/a
S95T003080	A		Boron -ICP-Acid Digest	ug/g	95.60	4.73e-01	84.40	<5.04e1	n/a	n/a	n/a	48.90	n/a
S95T003080	A		Barium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.89e+01	<5.04e1	n/a	n/a	n/a	48.90	n/a
S95T003080	A		Beryllium -ICP-Acid Digest	ug/g	99.20	<5.00e-03	<4.89e+00	<5.04e0	n/a	n/a	n/a	4.890	n/a
S95T003080	A		Bismuth -ICP-Acid Digest	ug/g	86.80	<1.00e-01	6.16e+04	5.37e+04	5.76e+04	13.7	n/a	97.80	n/a
S95T003080	A		Calcium -ICP-Acid Digest	ug/g	93.40	1.67e-01	243.0	204.0	223.5	17.4	n/a	97.80	n/a
S95T003080	A		Cadmium -ICP-Acid Digest	ug/g	88.00	<5.00e-03	<4.89e+00	<5.04e0	n/a	n/a	n/a	4.890	n/a
S95T003080	A		Cerium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	<9.78e+01	<1.01e2	n/a	n/a	n/a	97.80	n/a
S95T003080	A		Cobalt -ICP-Acid Digest	ug/g	90.40	<2.00e-02	<1.96e+01	<2.02e1	n/a	n/a	n/a	19.60	n/a
S95T003080	A		Chromium -ICP-Acid Digest	ug/g	91.40	<1.00e-02	4.21e+03	4.19e+03	4.20e+03	0.48	n/a	9.790	n/a
S95T003080	A		Copper -ICP-Acid Digest	ug/g	91.00	<1.00e-02	19.70	1.45e+03	734.9	195	n/a	9.790	n/a
S95T003080	A		Iron -ICP-Acid Digest	ug/g	93.40	<5.00e-02	4.77e+03	4.54e+03	4.66e+03	4.94	n/a	48.90	n/a
S95T003080	A		Potassium -ICP-Acid Digest	ug/g	88.40	<5.00e-01	6.05e+03	5.74e+03	5.90e+03	5.26	n/a	489.0	n/a
S95T003080	A		Lanthanum -ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.47e+04	1.17e+04	1.32e+04	22.7	n/a	48.90	n/a
S95T003080	A		Lithium -ICP-Acid Digest	ug/g	93.60	<1.00e-02	67.30	60.50	63.90	10.6	n/a	9.790	n/a
S95T003080	A		Magnesium -ICP-Acid Digest	ug/g	88.60	<1.00e-01	<9.78e+01	<1.01e2	n/a	n/a	n/a	97.80	n/a
S95T003080	A		Manganese -ICP-Acid Digest	ug/g	88.60	<1.00e-02	1.86e+04	1.68e+04	1.77e+04	10.2	n/a	9.790	n/a
S95T003080	A		Molybdenum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	<4.89e+01	<5.04e1	n/a	n/a	n/a	48.90	n/a
S95T003080	A		Sodium -ICP-Acid Digest	ug/g	103.8	5.02e-01	2.70e+04	2.56e+04	2.63e+04	5.32	n/a	97.80	n/a
S95T003080	A		Neodymium -ICP-Acid Digest	ug/g	94.40	<1.00e-01	<9.78e+01	<1.01e2	n/a	n/a	n/a	97.80	n/a
S95T003080	A		Nickel -ICP-Acid Digest	ug/g	90.20	<2.00e-02	334.0	334.0	334.0	0.00	n/a	19.60	n/a
S95T003080	A		Phosphorus -ICP-Acid Digest	ug/g	89.20	<2.00e-01	2.67e+03	2.14e+03	2.40e+03	22.0	n/a	196.0	n/a
S95T003080	A		Lead -ICP-Acid Digest	ug/g	86.00	<1.00e-01	<9.78e+01	<1.01e2	n/a	n/a	n/a	97.80	n/a
S95T003080	A		Sulfur -ICP-Acid Digest	ug/g	87.60	<1.00e-01	<9.78e+01	<1.01e2	n/a	n/a	n/a	97.80	n/a
S95T003080	A		Antimony -ICP-Acid Digest	ug/g	83.00	<6.00e-02	<5.87e+01	<6.05e1	n/a	n/a	n/a	58.70	n/a
S95T003080	A		Selenium -ICP-Acid Digest	ug/g	90.40	<1.00e-01	<9.78e+01	<1.01e2	n/a	n/a	n/a	97.80	n/a
S95T003080	A		Silicon -ICP-Acid Digest	ug/g	218.0	1.47e-01	788.0	511.0	649.5	42.6	n/a	48.90	n/a
S95T003080	A		Samarium -ICP-Acid Digest	ug/g	94.80	<1.00e-01	<9.78e+01	<1.01e2	n/a	n/a	n/a	97.80	n/a
S95T003080	A		Strontium -ICP-Acid Digest	ug/g	92.80	<1.00e-02	358.0	311.0	334.5	14.1	n/a	9.790	n/a
S95T003080	A		Titanium -ICP-Acid Digest	ug/g	90.60	<1.00e-02	<9.78e+00	<1.01e1	n/a	n/a	n/a	9.790	n/a
S95T003080	A		Thallium -ICP-Acid Digest	ug/g	87.80	<2.00e-01	<1.96e+02	<2.02e2	n/a	n/a	n/a	196.0	n/a
S95T003080	A		Uranium -ICP-Acid Digest	ug/g	94.60	<5.00e-01	<4.89e+02	<5.04e2	n/a	n/a	n/a	489.0	n/a
S95T003080	A		Vanadium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.89e+01	<5.04e1	n/a	n/a	n/a	48.90	n/a
S95T003080	A		Zinc -ICP-Acid Digest	ug/g	84.80	<1.00e-02	12.20	<1.01e1	n/a	n/a	n/a	9.790	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003080	A		Zirconium -ICP-Acid Digest	ug/g	91.80	<1.00e-02	<9.78e+00	<1.01e1	n/a	n/a	n/a	9.790	n/a
S95T003104	W		Bromide by Ion Chromatograph	ug/g	103.1	<1.26e-01	1.02e+03	1.06e+03	1.04e+03	3.85	n/a	260.4	n/a
S95T003104	W		Chloride-IC-Dionex 4000i/4500	ug/g	95.57	<1.70e-02	571.4	592.0	581.7	3.61	n/a	35.13	n/a
S95T003104	W		Fluoride-IC-Dionex 4000i/4500	ug/g	104.7	<1.30e-02	6.01e+03	6.12e+03	6.06e+03	1.81	n/a	26.88	n/a
S95T003104	W		Nitrite-IC - Dionex 4000i/4500	ug/g	96.27	<1.07e-01	347.7	359.0	353.4	3.11	n/a	221.2	n/a
S95T003104	W		Nitrate by IC-Dionex4000i/4500	ug/g	102.6	1.79e-01	4.67e+04	4.80e+04	4.73e+04	2.75	n/a	289.4	n/a
S95T003104	W		Oxalate by IC - Dionex 4000i	ug/g	104.8	<1.05e-01	1.49e+03	1.58e+03	1.53e+03	5.86	n/a	217.0	n/a
S95T003104	W		Phosphate-IC-Dionex 4000i/4500	ug/g	100.4	<1.19e-01	2.05e+03	2.01e+03	2.03e+03	1.97	n/a	246.0	n/a
S95T003104	W		Sulfate by IC-Dionex4000i/4500	ug/g	102.4	<1.36e-01	500.6	418.0	459.3	18.1	n/a	281.1	n/a
S95T003118	F		Alpha of Digested Solid	ug/g	103.9	<2.42e-03	2.58e-01	2.68e-01	2.63e-01	3.80	88.39	5.78e-03	6.96E+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 112
SEGMENT #: 13

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003009		Bulk Density of Sample	g/mL	n/a	n/a	1.270	1.260	1.265	0.79	n/a	5.00e-01	n/a
S95T003037		% Water by TGA on Perkin Elmer	%	101.1	n/a	78.39	78.31	78.35	0.10	n/a	n/a	n/a
S95T003057		DSC Exotherm on Perkin Elmer	Joules/g	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003057		DSC Exotherm Dry Calculated	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003081	A	Silver - ICP-Acid Digest	ug/g	88.40	<1.00e-02	<8.72e+00	<8.73e0	n/a	n/a	n/a	8.720	n/a
S95T003081	A	Aluminum - ICP-Acid Digest	ug/g	95.20	6.140	<4.36e+01	44.70	n/a	n/a	n/a	43.60	n/a
S95T003081	A	Arsenic - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<8.72e+01	<8.73e1	n/a	n/a	n/a	87.20	n/a
S95T003081	A	Boron - ICP-Acid Digest	ug/g	95.60	4.73e-01	<4.36e+01	205.0	n/a	n/a	n/a	43.60	n/a
S95T003081	A	Barium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.36e+01	<4.36e1	n/a	n/a	n/a	43.60	n/a
S95T003081	A	Beryllium - ICP-Acid Digest	ug/g	99.20	<5.00e-03	<4.36e+00	<4.36e0	n/a	n/a	n/a	4.360	n/a
S95T003081	A	Bismuth - ICP-Acid Digest	ug/g	86.80	<1.00e-01	4.28e+04	4.36e+04	4.32e+04	1.85	n/a	87.20	n/a
S95T003081	A	Calcium - ICP-Acid Digest	ug/g	93.40	1.67e-01	164.0	168.0	166.0	2.41	n/a	87.20	n/a
S95T003081	A	Cadmium - ICP-Acid Digest	ug/g	88.00	<5.00e-03	<4.36e+00	<4.36e0	n/a	n/a	n/a	4.360	n/a
S95T003081	A	Cerium - ICP-Acid Digest	ug/g	94.60	<1.00e-01	<8.72e+01	<8.73e1	n/a	n/a	n/a	87.20	n/a
S95T003081	A	Cobalt - ICP-Acid Digest	ug/g	90.40	<2.00e-02	<1.74e+01	<1.74e1	n/a	n/a	n/a	17.40	n/a
S95T003081	A	Chromium - ICP-Acid Digest	ug/g	91.40	<1.00e-02	3.96e+03	3.96e+03	3.96e+03	0.00	n/a	8.720	n/a
S95T003081	A	Copper - ICP-Acid Digest	ug/g	91.00	<1.00e-02	<8.72e+00	<8.73e0	n/a	n/a	n/a	8.720	n/a
S95T003081	A	Iron - ICP-Acid Digest	ug/g	93.40	<5.00e-02	3.57e+03	3.66e+03	3.62e+03	2.49	n/a	43.60	n/a
S95T003081	A	Potassium - ICP-Acid Digest	ug/g	88.40	<5.00e-01	5.96e+03	5.86e+03	5.91e+03	1.69	n/a	436.0	n/a
S95T003081	A	Lanthanum - ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.09e+04	1.21e+04	1.15e+04	10.4	n/a	43.60	n/a
S95T003081	A	Lithium - ICP-Acid Digest	ug/g	93.60	<1.00e-02	55.00	57.90	56.45	5.14	n/a	8.720	n/a
S95T003081	A	Magnesium - ICP-Acid Digest	ug/g	88.60	<1.00e-01	<8.72e+01	<8.73e1	n/a	n/a	n/a	87.20	n/a
S95T003081	A	Manganese - ICP-Acid Digest	ug/g	88.60	<1.00e-02	1.48e+04	1.56e+04	1.52e+04	5.26	n/a	8.720	n/a
S95T003081	A	Molybdenum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<4.36e+01	<4.36e1	n/a	n/a	n/a	43.60	n/a
S95T003081	A	Sodium - ICP-Acid Digest	ug/g	103.8	5.02e-01	2.64e+04	2.67e+04	2.66e+04	1.13	n/a	87.20	n/a
S95T003081	A	Neodymium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	<8.72e+01	<8.73e1	n/a	n/a	n/a	87.20	n/a
S95T003081	A	Nickel - ICP-Acid Digest	ug/g	90.20	<2.00e-02	227.0	225.0	226.0	0.88	n/a	17.40	n/a
S95T003081	A	Phosphorus - ICP-Acid Digest	ug/g	89.20	<2.00e-01	1.99e+03	2.11e+03	2.05e+03	5.85	n/a	174.0	n/a
S95T003081	A	Lead - ICP-Acid Digest	ug/g	86.00	<1.00e-01	<8.72e+01	<8.73e1	n/a	n/a	n/a	87.20	n/a
S95T003081	A	Sulfur - ICP-Acid Digest	ug/g	87.60	<1.00e-01	<8.72e+01	<8.73e1	n/a	n/a	n/a	87.20	n/a
S95T003081	A	Antimony - ICP-Acid Digest	ug/g	83.00	<6.00e-02	<5.23e+01	<5.24e1	n/a	n/a	n/a	52.30	n/a
S95T003081	A	Selenium - ICP-Acid Digest	ug/g	90.40	<1.00e-01	<8.72e+01	<8.73e1	n/a	n/a	n/a	87.20	n/a
S95T003081	A	Silicon - ICP-Acid Digest	ug/g	218.0	1.47e-01	455.0	343.0	399.0	28.1	n/a	43.60	n/a
S95T003081	A	Samarium - ICP-Acid Digest	ug/g	94.80	<1.00e-01	<8.72e+01	<8.73e1	n/a	n/a	n/a	87.20	n/a
S95T003081	A	Strontium - ICP-Acid Digest	ug/g	92.80	<1.00e-02	205.0	219.0	212.0	6.60	n/a	8.720	n/a
S95T003081	A	Titanium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	<8.72e+00	<8.73e0	n/a	n/a	n/a	8.720	n/a
S95T003081	A	Thallium - ICP-Acid Digest	ug/g	87.80	<2.00e-01	<1.74e+02	<1.76e2	n/a	n/a	n/a	174.0	n/a
S95T003081	A	Uranium - ICP-Acid Digest	ug/g	94.60	<5.00e-01	<4.36e+02	<4.36e2	n/a	n/a	n/a	436.0	n/a
S95T003081	A	Vanadium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.36e+01	<4.36e1	n/a	n/a	n/a	43.60	n/a
S95T003081	A	Zinc - ICP-Acid Digest	ug/g	84.80	<1.00e-02	22.80	25.40	24.10	10.8	n/a	8.720	n/a
S95T003081	A	Zirconium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<8.72e+00	<8.73e0	n/a	n/a	n/a	8.720	n/a
S95T003105	W	Bromide by Ion Chromatograph	ug/g	106.8	<1.26e-01	929.2	914.0	921.6	1.63	103.3	298.3	n/a
S95T003105	W	Chloride-IC-Dionex 4000T/4500	ug/g	100.9	<1.70e-02	598.4	622.0	610.2	3.93	98.68	40.26	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003105	W	Fluoride-IC-Dionex 4000i/4500	ug/g	108.3	<1.30e-02	6.60e+03	6.54e+03	6.57e+03	0.91	118.1	30.79	n/a
S95T003105	W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.7	<1.07e-01	397.7	396.0	396.9	0.50	97.46	253.3	n/a
S95T003105	W	Nitrate by IC-Dionex4000i/4500	ug/g	108.0	1.54e-01	5.07e+04	5.09e+04	5.08e+04	0.39	117.7	331.5	n/a
S95T003105	W	Oxalate by IC - Dionex 4000i	ug/g	107.2	<1.05e-01	1.73e+03	1.72e+03	1.73e+03	0.58	107.3	248.6	n/a
S95T003105	W	Phosphate-IC-Dionex 4000i/4500	ug/g	106.2	<1.19e-01	2.45e+03	2.56e+03	2.50e+03	4.39	112.9	281.7	n/a
S95T003105	W	Sulfate by IC-Dionex4000i/4500	ug/g	104.8	<1.36e-01	479.5	439.0	459.2	8.92	101.2	322.0	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003010		Bulk Density of Sample	g/mL	n/a	n/a	1.260	1.280	1.270	1.57	n/a	5.00e-01	n/a
S95T003058		% Water by TGA on Perkin Elmer	%	101.2	n/a	78.17	78.78	78.47	0.78	n/a	n/a	n/a
S95T003058		DSC Exotherm on Perkin Elmer	Joules/g	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003058		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003082	A	Silver -ICP-Acid Digest	ug/g	88.40	<1.00e-02	<9.72e+01	<8.47e0	n/a	n/a	n/a	9.720	n/a
S95T003082	A	Aluminum -ICP-Acid Digest	ug/g	95.20	6.140	<4.86e+01	<4.24e1	n/a	n/a	n/a	48.60	n/a
S95T003082	A	Arsenic -ICP-Acid Digest	ug/g	89.60	<1.00e-01	<9.72e+01	<8.47e1	n/a	n/a	n/a	97.20	n/a
S95T003082	A	Boron -ICP-Acid Digest	ug/g	95.60	4.73e-01	55.50	53.90	54.70	2.93	n/a	48.60	n/a
S95T003082	A	Barium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.86e+01	<4.24e1	n/a	n/a	n/a	48.60	n/a
S95T003082	A	Beryllium -ICP-Acid Digest	ug/g	99.20	<5.00e-03	<4.86e+01	<4.24e0	n/a	n/a	n/a	4.860	n/a
S95T003082	A	Bismuth -ICP-Acid Digest	ug/g	86.80	<1.00e-01	5.44e+04	5.30e+04	5.37e+04	2.61	n/a	97.20	n/a
S95T003082	A	Calcium -ICP-Acid Digest	ug/g	93.40	1.67e-01	208.0	178.0	193.0	15.5	n/a	97.20	n/a
S95T003082	A	Cadmium -ICP-Acid Digest	ug/g	88.00	<5.00e-03	<4.86e+01	<4.24e0	n/a	n/a	n/a	4.860	n/a
S95T003082	A	Cerium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	<9.72e+01	<8.47e1	n/a	n/a	n/a	97.20	n/a
S95T003082	A	Cobalt -ICP-Acid Digest	ug/g	90.40	<2.00e-02	<1.94e+01	<1.69e1	n/a	n/a	n/a	19.40	n/a
S95T003082	A	Chromium -ICP-Acid Digest	ug/g	91.40	<1.00e-02	4.39e+03	4.23e+03	4.31e+03	3.71	n/a	9.720	n/a
S95T003082	A	Copper -ICP-Acid Digest	ug/g	91.00	<1.00e-02	<9.72e+01	<8.47e0	n/a	n/a	n/a	9.720	n/a
S95T003082	A	Iron -ICP-Acid Digest	ug/g	93.40	<5.00e-02	4.06e+03	3.97e+03	4.02e+03	2.24	n/a	48.60	n/a
S95T003082	A	Potassium -ICP-Acid Digest	ug/g	88.40	<5.00e-01	6.62e+03	6.47e+03	6.54e+03	2.29	n/a	486.0	n/a
S95T003082	A	Lanthanum -ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.31e+04	1.26e+04	1.28e+04	3.89	n/a	48.60	n/a
S95T003082	A	Lithium -ICP-Acid Digest	ug/g	93.60	<1.00e-02	48.70	46.70	47.70	4.19	n/a	9.720	n/a
S95T003082	A	Magnesium -ICP-Acid Digest	ug/g	88.60	<1.00e-01	<9.72e+01	<8.47e1	n/a	n/a	n/a	97.20	n/a
S95T003082	A	Manganese -ICP-Acid Digest	ug/g	88.60	<1.00e-02	1.74e+04	1.70e+04	1.72e+04	2.33	n/a	9.720	n/a
S95T003082	A	Molybdenum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	<4.86e+01	<4.24e1	n/a	n/a	n/a	48.60	n/a
S95T003082	A	Sodium -ICP-Acid Digest	ug/g	103.8	5.02e-01	2.94e+04	2.84e+04	2.89e+04	3.46	n/a	97.20	n/a
S95T003082	A	Neodymium -ICP-Acid Digest	ug/g	94.40	<1.00e-01	<9.72e+01	<8.47e1	n/a	n/a	n/a	97.20	n/a
S95T003082	A	Nickel -ICP-Acid Digest	ug/g	90.20	<2.00e-02	272.0	255.0	263.5	6.45	n/a	19.40	n/a
S95T003082	A	Lead -ICP-Acid Digest	ug/g	89.20	<2.00e-01	2.43e+03	2.30e+03	2.36e+03	5.50	n/a	194.0	n/a
S95T003082	A	Sulfur -ICP-Acid Digest	ug/g	86.00	<1.00e-01	<9.72e+01	<8.47e1	n/a	n/a	n/a	97.20	n/a
S95T003082	A	Antimony -ICP-Acid Digest	ug/g	87.60	<1.00e-01	<9.72e+01	<8.47e1	n/a	n/a	n/a	58.30	n/a
S95T003082	A	Selenium -ICP-Acid Digest	ug/g	90.40	<1.00e-01	<9.72e+01	<8.47e1	n/a	n/a	n/a	97.20	n/a
S95T003082	A	Silicon -ICP-Acid Digest	ug/g	218.0	1.47e-01	655.0	565.0	610.0	14.8	n/a	48.60	n/a
S95T003082	A	Samarium -ICP-Acid Digest	ug/g	94.80	<1.00e-01	<9.72e+01	<8.47e1	n/a	n/a	n/a	97.20	n/a
S95T003082	A	Strontium -ICP-Acid Digest	ug/g	92.80	<1.00e-02	411.0	397.0	404.0	3.47	n/a	9.720	n/a
S95T003082	A	Titanium -ICP-Acid Digest	ug/g	90.60	<1.00e-02	<9.72e+01	<8.47e0	n/a	n/a	n/a	9.720	n/a
S95T003082	A	Thallium -ICP-Acid Digest	ug/g	87.80	<2.00e-01	<1.94e+02	<1.69e2	n/a	n/a	n/a	194.0	n/a
S95T003082	A	Uranium -ICP-Acid Digest	ug/g	94.60	<5.00e-01	<4.86e+01	<4.24e1	n/a	n/a	n/a	486.0	n/a
S95T003082	A	Vanadium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.86e+01	<4.24e1	n/a	n/a	n/a	48.60	n/a
S95T003082	A	Zinc -ICP-Acid Digest	ug/g	84.80	<1.00e-02	94.20	88.20	91.20	6.58	n/a	9.720	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003082	A		Zirconium -ICP-Acid Digest	ug/g	91.80	<1.00e-02	<9.72e+00	<8.47e0	n/a	n/a	n/a	9.720	n/a
S95T003106	W		Bromide by Ion Chromatograph	ug/g	106.8	<1.26e-01	920.2	863.0	891.6	6.39	n/a	343.7	n/a
S95T003106	W		Chloride-IC-Dionex 4000i/4500	ug/g	100.9	<1.70e-02	662.4	593.0	627.7	11.0	n/a	46.37	n/a
S95T003106	W		Fluoride-IC-Dionex 4000i/4500	ug/g	108.3	<1.30e-02	6.83e+03	6.48e+03	6.66e+03	5.26	n/a	35.47	n/a
S95T003106	W		Nitrite-IC - Dionex 4000i/4500	ug/g	100.7	<1.07e-01	445.7	418.0	431.9	6.48	n/a	291.9	n/a
S95T003106	W		Nitrate by IC-Dionex4000i/4500	ug/g	108.0	1.54e-01	5.32e+04	4.91e+04	5.11e+04	8.02	n/a	381.9	n/a
S95T003106	W		Oxalate by IC - Dionex 4000i	ug/g	107.2	<1.05e-01	1.81e+03	1.64e+03	1.72e+03	9.86	n/a	286.4	n/a
S95T003106	W		Phosphate-IC-Dionex 4000i/4500	ug/g	106.2	<1.19e-01	3.20e+03	2.33e+03	2.77e+03	31.5	n/a	324.6	n/a
S95T003106	W		Sulfate by IC-Dionex4000i/4500	ug/g	104.8	<1.36e-01	540.5	463.0	501.8	15.4	n/a	371.0	n/a
S95T003119	F		Alpha of Digested Solid	uCi/g	106.2	<4.27e-03	2.51e-01	2.45e-01	2.48e-01	2.42	92.86	4.76e-03	7.30e+00

Final Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 14

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003011		Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.180	1.185	0.84	n/a	5.00e-01	n/a
S95T003059		% Water by TGA on Perkin Elmer	%	101.2	n/a	71.02	76.12	73.57	6.93	n/a	n/a	n/a
S95T003059		DSC Exotherm on Perkin Elmer	Joules/g	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003059		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003083	A	Silver - ICP-Acid Digest	ug/g	88.40	<1.00e-02	<9.26e+01	<1.06e1	n/a	n/a	n/a	9.250	n/a
S95T003083	A	Aluminum - ICP-Acid Digest	ug/g	95.20	6.140	46.30	<5.29e1	n/a	n/a	n/a	46.30	n/a
S95T003083	A	Arsenic - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<9.26e+01	<1.06e2	n/a	n/a	n/a	92.60	n/a
S95T003083	A	Boron - ICP-Acid Digest	ug/g	95.60	4.73e-01	78.30	<5.29e1	n/a	n/a	n/a	46.30	n/a
S95T003083	A	Barium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.63e+01	<5.29e1	n/a	n/a	n/a	46.30	n/a
S95T003083	A	Beryllium - ICP-Acid Digest	ug/g	99.20	<5.00e-03	<4.63e+01	<5.29e1	n/a	n/a	n/a	4.630	n/a
S95T003083	A	Bismuth - ICP-Acid Digest	ug/g	86.80	<1.00e-01	6.97e+04	5.55e+04	6.26e+04	22.7	n/a	92.60	n/a
S95T003083	A	Calcium - ICP-Acid Digest	ug/g	93.40	1.67e-01	225.0	161.0	193.0	33.2	n/a	92.60	n/a
S95T003083	A	Cadmium - ICP-Acid Digest	ug/g	88.00	<5.00e-03	<4.63e+01	<5.29e1	n/a	n/a	n/a	4.630	n/a
S95T003083	A	Cerium - ICP-Acid Digest	ug/g	94.60	<1.00e-01	<9.26e+01	<1.06e2	n/a	n/a	n/a	92.60	n/a
S95T003083	A	Cobalt - ICP-Acid Digest	ug/g	90.40	<2.00e-02	<1.85e+01	<2.12e1	n/a	n/a	n/a	18.50	n/a
S95T003083	A	Chromium - ICP-Acid Digest	ug/g	91.40	<1.00e-02	3.25e+03	3.37e+03	3.31e+03	3.63	n/a	9.250	n/a
S95T003083	A	Copper - ICP-Acid Digest	ug/g	91.00	<1.00e-02	<9.26e+01	<1.06e1	n/a	n/a	n/a	9.250	n/a
S95T003083	A	Iron - ICP-Acid Digest	ug/g	93.40	<5.00e-02	4.95e+03	4.42e+03	4.68e+03	11.3	n/a	46.30	n/a
S95T003083	A	Potassium - ICP-Acid Digest	ug/g	88.40	<5.00e-01	6.59e+03	6.33e+03	6.46e+03	4.02	n/a	46.30	n/a
S95T003083	A	Lanthanum - ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.62e+04	1.11e+04	1.36e+04	37.4	n/a	46.30	n/a
S95T003083	A	Lithium - ICP-Acid Digest	ug/g	93.60	<1.00e-02	40.90	31.80	36.35	25.0	n/a	9.250	n/a
S95T003083	A	Magnesium - ICP-Acid Digest	ug/g	88.60	<1.00e-01	<9.26e+01	<1.06e2	n/a	n/a	n/a	92.60	n/a
S95T003083	A	Manganese - ICP-Acid Digest	ug/g	88.60	<1.00e-02	2.09e+04	1.74e+04	1.92e+04	18.3	n/a	9.250	n/a
S95T003083	A	Molybdenum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<4.63e+01	<5.29e1	n/a	n/a	n/a	46.30	n/a
S95T003083	A	Sodium - ICP-Acid Digest	ug/g	103.8	5.02e-01	2.99e+04	2.77e+04	2.88e+04	7.64	n/a	92.60	n/a
S95T003083	A	Neodymium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	<9.26e+01	<1.06e2	n/a	n/a	n/a	92.60	n/a
S95T003083	A	Nickel - ICP-Acid Digest	ug/g	90.20	<2.00e-02	344.0	306.0	325.0	11.7	n/a	18.50	n/a
S95T003083	A	Phosphorus - ICP-Acid Digest	ug/g	89.20	<2.00e-01	2.75e+03	2.03e+03	2.39e+03	30.1	n/a	185.0	n/a
S95T003083	A	Lead - ICP-Acid Digest	ug/g	86.00	<1.00e-01	1.31e+03	825.0	1.07e+03	45.4	n/a	92.60	n/a
S95T003083	A	Sulfur - ICP-Acid Digest	ug/g	87.60	<1.00e-01	<9.26e+01	<1.06e2	n/a	n/a	n/a	92.60	n/a
S95T003083	A	Antimony - ICP-Acid Digest	ug/g	83.00	<6.00e-02	<5.55e+01	<6.35e1	n/a	n/a	n/a	55.50	n/a
S95T003083	A	Selenium - ICP-Acid Digest	ug/g	90.40	<1.00e-01	<9.26e+01	<1.06e2	n/a	n/a	n/a	92.60	n/a
S95T003083	A	Silicon - ICP-Acid Digest	ug/g	218.0	1.47e-01	589.0	582.0	585.5	1.20	n/a	46.30	n/a
S95T003083	A	Samarium - ICP-Acid Digest	ug/g	94.80	<1.00e-01	<9.26e+01	<1.06e2	n/a	n/a	n/a	92.60	n/a
S95T003083	A	Strontium - ICP-Acid Digest	ug/g	92.80	<1.00e-02	470.0	336.0	403.0	33.3	n/a	9.250	n/a
S95T003083	A	Titanium - ICP-Acid Digest	ug/g	90.60	<1.00e-02	<9.26e+01	<1.06e1	n/a	n/a	n/a	9.250	n/a
S95T003083	A	Thallium - ICP-Acid Digest	ug/g	87.80	<2.00e-01	<1.85e+02	<2.12e2	n/a	n/a	n/a	185.0	n/a
S95T003083	A	Uranium - ICP-Acid Digest	ug/g	94.60	<5.00e-01	<4.63e+02	<5.29e2	n/a	n/a	n/a	463.0	n/a
S95T003083	A	Vanadium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<4.63e+01	<5.29e1	n/a	n/a	n/a	46.30	n/a
S95T003083	A	Zinc - ICP-Acid Digest	ug/g	84.80	<1.00e-02	358.0	274.0	306.0	20.9	n/a	9.250	n/a
S95T003083	W	Zirconium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<9.26e+01	<1.06e1	593.0	n/a	n/a	9.250	n/a
S95T003107	W	Bromide by Ion Chromatograph	ug/g	103.3	<1.26e-01	599.8	593.0	596.4	1.17	96.13	291.4	n/a
S95T003107	W	Chloride by Ion Chromatograph	ug/g	96.58	<1.70e-02	591.7	648.0	619.9	9.03	91.94	39.31	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003107	W	Fluoride-IC-Dionex 4000i/4500	ug/g	106.6	<1.30e-02	6.39e+03	6.75e+03	6.57e+03	5.48	125.8	30.07	n/a
S95T003107	W	Nitrite-IC - Dionex 4000i/4500	ug/g	96.64	<1.07e-01	389.2	386.0	387.6	0.77	91.85	247.4	n/a
S95T003107	W	Nitrate by IC-Dionex4000i/4500	ug/g	104.6	2.11e-01	4.97e+04	5.12e+04	5.05e+04	2.97	107.1	323.8	n/a
S95T003107	W	Oxalate by IC - Dionex 4000i	ug/g	105.5	<1.05e-01	1.64e+03	1.73e+03	1.69e+03	5.34	102.9	242.8	n/a
S95T003107	W	Phosphate-IC-Dionex 4000i/4500	ug/g	101.8	<1.19e-01	2.16e+03	2.42e+03	2.29e+03	11.4	102.0	275.2	n/a
S95T003107	W	Sulfate by IC-Dionex4000i/4500	ug/g	101.3	<1.36e-01	454.0	446.0	450.0	1.78	98.95	314.5	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003012		Bulk Density of Sample	g/mL	n/a	n/a	1.380	1.380	1.380	0.00	n/a	5.00e-01	n/a
S95T003060		% Water by TGA on Perkin Elmer	%	101.2	n/a	76.17	77.86	77.02	2.19	n/a	n/a	n/a
S95T003060		DSC Exotherm on Perkin Elmer	Joules/g	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003060		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003084	A	Silver -ICP-Acid Digest	ug/g	90.40	<1.00e-02	<1.99e+01	<1.81e1	n/a	n/a	104.0	19.90	n/a
S95T003084	A	Aluminum -ICP-Acid Digest	ug/g	92.20	<5.00e-01	<9.96e+01	<9.05e1	n/a	n/a	106.0	99.60	n/a
S95T003084	A	Arsenic -ICP-Acid Digest	ug/g	92.60	<1.00e-01	<1.99e+02	<1.81e2	n/a	n/a	105.8	199.0	n/a
S95T003084	A	Boron -ICP-Acid Digest	ug/g	96.40	2.84e-01	167.0	158.0	162.5	5.54	106.6	99.60	n/a
S95T003084	A	Barium -ICP-Acid Digest	ug/g	93.40	<5.00e-02	<9.96e+01	<9.05e1	n/a	n/a	99.00	99.60	n/a
S95T003084	A	Beryllium -ICP-Acid Digest	ug/g	105.4	<5.00e-03	<9.96e+00	<9.05e0	n/a	n/a	101.6	9.960	n/a
S95T003084	A	Bismuth -ICP-Acid Digest	ug/g	90.40	<1.00e-01	6.43e+04	6.19e+04	6.31e+04	3.80	45.92	199.0	n/a
S95T003084	A	Calcium -ICP-Acid Digest	ug/g	93.80	<1.00e-01	<1.99e+02	188.0	n/a	n/a	125.0	199.0	n/a
S95T003084	A	Cadmium -ICP-Acid Digest	ug/g	90.20	<5.00e-03	<9.96e+00	<9.05e0	n/a	n/a	101.4	9.960	n/a
S95T003084	A	Cerium -ICP-Acid Digest	ug/g	95.60	<1.00e-01	<1.99e+02	<1.81e2	n/a	n/a	109.6	199.0	n/a
S95T003084	A	Cobalt -ICP-Acid Digest	ug/g	92.80	<2.00e-02	<3.98e+01	<3.62e1	n/a	n/a	104.0	39.80	n/a
S95T003084	A	Chromium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	1.94e+03	1.86e+03	1.90e+03	4.21	102.9	19.90	n/a
S95T003084	A	Copper -ICP-Acid Digest	ug/g	92.20	<1.00e-02	<1.99e+01	<1.81e1	n/a	n/a	97.60	19.90	n/a
S95T003084	A	Iron -ICP-Acid Digest	ug/g	93.80	<5.00e-02	4.31e+03	4.14e+03	4.22e+03	4.02	99.22	99.60	n/a
S95T003084	A	Potassium -ICP-Acid Digest	ug/g	92.00	<5.00e-01	7.06e+03	6.82e+03	6.94e+03	3.46	0.00e+00	996.0	n/a
S95T003084	A	Lanthanum -ICP-Acid Digest	ug/g	94.40	<5.00e-02	1.46e+04	1.43e+04	1.44e+04	2.08	156.5	99.60	n/a
S95T003084	A	Lithium -ICP-Acid Digest	ug/g	93.20	<1.00e-02	42.50	39.40	40.95	7.57	94.94	19.90	n/a
S95T003084	A	Magnesium -ICP-Acid Digest	ug/g	89.00	<1.00e-01	<1.99e+02	<1.81e2	n/a	n/a	98.00	199.0	n/a
S95T003084	A	Manganese -ICP-Acid Digest	ug/g	90.60	<1.00e-02	1.75e+04	1.69e+04	1.72e+04	3.49	116.3	19.90	n/a
S95T003084	A	Molybdenum -ICP-Acid Digest	ug/g	93.40	<5.00e-02	<9.96e+01	<9.05e1	n/a	n/a	101.2	99.60	n/a
S95T003084	A	Sodium -ICP-Acid Digest	ug/g	100.8	3.51e-01	3.00e+04	2.81e+04	2.90e+04	6.54	29.54	199.0	n/a
S95T003084	A	Neodymium -ICP-Acid Digest	ug/g	92.00	<1.00e-01	<1.99e+02	<1.81e2	n/a	n/a	97.60	199.0	n/a
S95T003084	A	Nickel -ICP-Acid Digest	ug/g	91.80	<2.00e-02	318.0	314.0	316.0	1.27	101.9	39.80	n/a
S95T003084	A	Phosphorus -ICP-Acid Digest	ug/g	93.40	<2.00e-01	2.27e+03	2.06e+03	2.16e+03	9.70	95.44	398.0	n/a
S95T003084	A	Lead -ICP-Acid Digest	ug/g	89.60	<1.00e-01	3.78e+03	3.71e+03	3.74e+03	1.87	108.1	199.0	n/a
S95T003084	A	Sulfur -ICP-Acid Digest	ug/g	89.40	<1.00e-01	<1.99e+02	<1.81e2	n/a	n/a	101.8	199.0	n/a
S95T003084	A	Antimony -ICP-Acid Digest	ug/g	85.40	<6.00e-02	<1.99e+02	<1.09e2	n/a	n/a	93.00	119.0	n/a
S95T003084	A	Selenium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	<1.99e+02	<1.81e2	n/a	n/a	103.4	199.0	n/a
S95T003084	A	Silicon -ICP-Acid Digest	ug/g	137.4	8.470	1.20e+03	959.0	1.08e+03	22.3	201.8	99.60	n/a
S95T003084	A	Samarium -ICP-Acid Digest	ug/g	91.80	<1.00e-01	<1.99e+02	<1.81e2	n/a	n/a	99.00	199.0	n/a
S95T003084	A	Strontium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	327.0	271.0	299.0	18.7	96.80	19.90	n/a
S95T003084	A	Titanium -ICP-Acid Digest	ug/g	90.80	<1.00e-02	<1.99e+01	<1.81e1	n/a	n/a	97.20	19.90	n/a
S95T003084	A	Thallium -ICP-Acid Digest	ug/g	88.20	<2.00e-01	<3.98e+02	<3.62e2	n/a	n/a	89.00	398.0	n/a
S95T003084	A	Uranium -ICP-Acid Digest	ug/g	89.60	<5.00e-01	<9.96e+02	<9.05e2	n/a	n/a	101.0	996.0	n/a
S95T003084	A	Vanadium -ICP-Acid Digest	ug/g	91.20	<5.00e-02	<9.96e+01	<9.05e1	n/a	n/a	99.40	99.60	n/a
S95T003084	A	Zinc -ICP-Acid Digest	ug/g	87.60	<1.00e-02	410.0	373.0	391.5	9.45	98.26	19.90	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003084	A		Zirconium -ICP-Acid Digest	ug/g	91.80	<1.00e-02	<1.99e+01	<1.81e1	n/a	n/a	98.80	19.90	n/a
S95T003108	W		Bromide by Ion Chromatograph	ug/g	103.3	<1.26e-01	861.7	862.0	861.9	0.00	n/a	316.5	n/a
S95T003108	W		Chloride-IC-Dionex 4000i/4500	ug/g	96.58	<1.70e-02	581.9	598.0	590.0	2.71	n/a	42.69	n/a
S95T003108	W		Fluoride-IC-Dionex 4000i/4500	ug/g	106.6	<1.30e-02	6.46e+03	6.54e+03	6.50e+03	1.23	n/a	32.66	n/a
S95T003108	W		Nitrite-IC - Dionex 4000i/4500	ug/g	96.64	<1.07e-01	406.2	403.0	404.6	0.74	n/a	268.8	n/a
S95T003108	W		Nitrate by IC-Dionex4000i/4500	ug/g	104.6	2.11e-01	4.86e+04	4.94e+04	4.90e+04	1.63	n/a	351.6	n/a
S95T003108	W		Oxalate by IC - Dionex 4000i	ug/g	105.5	<1.05e-01	1.60e+03	1.69e+03	1.65e+03	5.47	n/a	263.7	n/a
S95T003108	W		Phosphate-IC-Dionex 4000i/4500	ug/g	101.8	<1.19e-01	2.81e+03	2.29e+03	2.55e+03	20.4	n/a	298.9	n/a
S95T003108	W		Sulfate by IC-Dionex4000i/4500	ug/g	101.3	<1.36e-01	513.6	500.0	506.8	2.76	n/a	341.6	n/a
S95T003120	F		Alpha of Digested Solid	uCi/g	106.2	<6.27e-03	4.96e-01	4.19e-01	4.58e-01	16.8	86.73	4.98e-03	5.14E+00
S95T003120	F		Americium-241 by GEA	uCi/g	n/a	<7.81e-02	<8.15e-02	<8.51e-2	n/a	n/a	n/a	8.15e-02	n/a
S95T003120	F		Cobalt-60 by GEA	uCi/g	96.95	<1.18e-02	<1.49e-02	<1.12e-2	n/a	n/a	n/a	1.49e-02	n/a
S95T003120	F		Cesium-137 by GEA	uCi/g	95.59	<3.37e-02	<3.15e-02	<3.13e-2	n/a	n/a	n/a	3.15e-02	n/a
S95T003120	F		Europium-154 by GEA	uCi/g	n/a	<6.68e-02	<3.80e-02	<3.34e-2	n/a	n/a	n/a	3.80e-02	n/a
S95T003120	F		Europium-155 by GEA	uCi/g	n/a	<3.62e-02	<3.88e-02	<3.71e-2	n/a	n/a	n/a	3.88e-02	n/a

CORE NUMBER: 114
SEGMENT #: 1

Final Results for Cores 112 and 114
B-204

WHC-SD-WM-DP-160, REV.1

SEGMENT PORTION: Drainable Liquid

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003255		% Water by IGA using Mettler	%	101.0	n/a	89.20	88.56	88.88	0.72	n/a	n/a	n/a
S95T003255		Specific Gravity	Sp.G.	99.10	n/a	1.030	1.060	1.045	2.87	n/a	1.00e-02	n/a
S95T003255		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003255		DSC Exotherm using Mettler	Joules/g	102.3	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003255	D	Silver-ICP-Acid Dil.	ug/mL	102.0	-4.80e+00	<1.01e+00	<1.01e0	n/a	n/a	n/a	n/a	n/a
S95T003255	D	Aluminum-ICP-Acid Dil.	ug/mL	98.40	-1.64e+00	<5.05e+00	<5.05e0	n/a	n/a	n/a	1.010	n/a
S95T003255	D	Arsenic-ICP-Acid Dil.	ug/mL	106.0	3.910	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Boron-ICP-Acid Dil.	ug/mL	101.4	4.620	<5.05e+00	<5.05e0	n/a	n/a	n/a	5.050	n/a
S95T003255	D	Barium-ICP-Acid Dil.	ug/mL	102.2	-1.80e+00	<5.05e+00	<5.05e0	n/a	n/a	n/a	5.050	n/a
S95T003255	D	Beryllium-ICP-Acid Dil.	ug/mL	105.8	7.000	<5.05e-01	<5.05e-1	n/a	n/a	n/a	5.050	n/a
S95T003255	D	Bismuth-ICP-Acid Dil.	ug/mL	105.0	1.200	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Calcium-ICP-Acid Dil.	ug/mL	105.6	-1.89e+00	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Cadmium-ICP-Acid Dil.	ug/mL	104.8	3.200	<5.05e-01	<5.05e-1	n/a	n/a	n/a	5.05e-01	n/a
S95T003255	D	Cerium-ICP-Acid Dil.	ug/mL	105.4	-8.10e+00	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Cobalt-ICP-Acid Dil.	ug/mL	104.6	3.120	<2.02e+00	<2.02e0	n/a	n/a	n/a	2.020	n/a
S95T003255	D	Chromium-ICP-Acid Dil.	ug/mL	105.8	1.100	161.0	155.0	158.0	3.80	n/a	1.010	n/a
S95T003255	D	Copper-ICP-Acid Dil.	ug/mL	103.2	-7.90e+00	<1.01e+00	<1.01e0	n/a	n/a	n/a	1.010	n/a
S95T003255	D	Iron-ICP-Acid Dil.	ug/mL	105.2	-1.07e+00	<5.05e+00	<5.05e0	n/a	n/a	n/a	5.050	n/a
S95T003255	D	Potassium-ICP-Acid Dil.	ug/mL	101.0	-1.41e-01	6.48e+03	6.30e+03	6.39e+03	2.82	-8.75e+01	50.50	n/a
S95T003255	D	Lanthanum-ICP-Acid Dil.	ug/mL	103.4	-3.70e+00	<5.05e+00	<5.05e0	n/a	n/a	n/a	5.050	n/a
S95T003255	D	Lithium-ICP-Acid Dil.	ug/mL	100.2	6.500	4.160	4.160	4.090	3.42	n/a	1.010	n/a
S95T003255	D	Magnesium-ICP-Acid Dil.	ug/mL	100.0	-2.89e+00	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Manganese-ICP-Acid Dil.	ug/mL	102.6	4.000	<1.01e+00	<1.01e0	n/a	n/a	n/a	1.010	n/a
S95T003255	D	Molybdenum-ICP-Acid Dil.	ug/mL	104.2	3.340	<5.05e+00	<5.05e0	n/a	n/a	n/a	5.050	n/a
S95T003255	D	Sodium-ICP-Acid Dil.	ug/mL	100.6	4.210	2.89e+04	2.81e+04	2.85e+04	2.81	-6.96e+02	10.10	n/a
S95T003255	D	Neodymium-ICP-Acid Dil.	ug/mL	104.2	-3.18e+00	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Nickel-ICP-Acid Dil.	ug/mL	104.0	-4.67e+00	<2.02e+00	<2.02e0	n/a	n/a	n/a	2.020	n/a
S95T003255	D	Phosphorus-ICP-Acid Dil.	ug/mL	107.2	1.130	697.0	667.0	682.0	4.40	n/a	20.20	n/a
S95T003255	D	Lead-ICP-Acid Dil.	ug/mL	106.0	-2.17e+00	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Sulfur-ICP-Acid Dil.	ug/mL	100.0	2.040	142.0	135.0	138.5	5.05	93.10	10.10	n/a
S95T003255	D	Antimony-ICP-Acid Dil.	ug/mL	98.40	-1.83e+00	<6.06e+00	<6.06e0	n/a	n/a	n/a	6.060	n/a
S95T003255	D	Selenium-ICP-Acid Dil.	ug/mL	101.0	1.020	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Silicon-ICP-Acid Dil.	ug/mL	101.8	1.250	67.90	66.00	66.95	2.84	100.7	5.050	n/a
S95T003255	D	Samarium-ICP-Acid Dil.	ug/mL	100.2	1.160	<1.01e+01	<1.01e1	n/a	n/a	n/a	10.10	n/a
S95T003255	D	Strontium-ICP-Acid Dil.	ug/mL	101.6	1.900	<1.01e+00	<1.01e0	n/a	n/a	n/a	1.010	n/a
S95T003255	D	Titanium-ICP-Acid Dil.	ug/mL	100.0	-2.00e+00	<1.01e+00	<1.01e0	n/a	n/a	n/a	1.010	n/a
S95T003255	D	Thallium-ICP-Acid Dil.	ug/mL	101.4	1.980	<2.02e+01	<2.02e1	n/a	n/a	n/a	20.20	n/a
S95T003255	D	Uranium-ICP-Acid Dil.	ug/mL	97.80	3.480	150.0	152.0	151.0	1.32	94.60	50.50	n/a
S95T003255	D	Vanadium-ICP-Acid Dil.	ug/mL	102.2	2.830	<5.05e+00	<5.05e0	n/a	n/a	n/a	5.050	n/a
S95T003255	D	Zinc-ICP-Acid Dil.	ug/mL	103.2	-2.10e+00	1.560	1.470	1.515	5.94	102.5	1.010	n/a
S95T003255	D	Zirconium-ICP-Acid Dil.	ug/mL	101.0	4.200	<1.01e+00	<1.01e0	n/a	n/a	n/a	1.010	n/a
S95T003255		Sulfate by IC-Dionex4000i/4500	ug/mL	95.40	<1.36e-01	635.1	609.0	622.0	4.18	93.86	288.5	n/a
S95T003255		Phosphate-IC-Dionex 4000i/4500	ug/mL	91.58	<2.96e-01	1.91e+03	1.89e+03	1.90e+03	1.05	0.00e+00	627.8	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003255			Oxalate by IC - Dionex 4000i	ug/mL	100.8	<1.05e-01	<2.23e+02	<2.23e2	n/a	n/a	101.6	222.7	n/a
S95T003255			Nitrate-IC - Dionex 4000i/4500	ug/mL	97.23	3.68e-01	4.73e+04	4.42e+04	4.58e+04	6.78	91.79	296.9	n/a
S95T003255			Nitrite-IC - Dionex 4000i/4500	ug/mL	91.98	<1.07e-01	1.72e+03	1.63e+03	1.68e+03	5.37	92.17	226.9	n/a
S95T003255			Fluoride-IC-Dionex 4000i/4500	ug/mL	108.1	<1.30e-02	6.10e+03	5.63e+03	5.86e+03	8.01	72.30	27.57	n/a
S95T003255			Chloride-IC-Dionex 4000i/4500	ug/mL	95.32	<1.70e-02	556.1	522.0	539.0	6.31	101.1	36.06	n/a
S95T003255			Bromide by Ion Chromatograph	ug/mL	96.52	<1.26e-01	<2.67e+02	<2.67e2	n/a	n/a	97.28	267.2	n/a
S95T003255			Alpha in Liquid Samples	uCi/mL	107.8	<7.65e-07	9.05e-05	9.15e-05	9.10e-05	1.10	76.79	1.02e-06	8.06E+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 114
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	RA#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003202		Bulk Density of Sample	g/mL	n/a	n/a	1.200	1.170	1.185	2.53	n/a	5.00e-01	n/a
S95T003256		% Water by TGA on Perkin Elmer	%	101.1	n/a	78.00	80.86	79.43	3.60	n/a	n/a	n/a
S95T003256		DSC Exotherm Dry Calculated	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003256		DSC Exotherm using Mettler	Joules/g	98.77	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003282	A	Silver - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<2.10e+00	<2.20e0	n/a	n/a	n/a	2.100	n/a
S95T003282	A	Aluminum - ICP-Acid Digest	ug/g	92.20	<5.00e-02	63.90	60.30	62.10	5.80	n/a	10.50	n/a
S95T003282	A	Arsenic - ICP-Acid Digest	ug/g	92.60	<1.00e-01	<2.10e+01	<2.20e1	n/a	n/a	n/a	21.00	n/a
S95T003282	A	Boron - ICP-Acid Digest	ug/g	96.40	2.64e-01	136.0	143.0	139.5	5.02	n/a	10.50	n/a
S95T003282	A	Barium - ICP-Acid Digest	ug/g	93.40	<5.00e-02	2.02e+03	1.99e+03	2.00e+03	1.50	n/a	10.50	n/a
S95T003282	A	Beryllium - ICP-Acid Digest	ug/g	105.4	<5.00e-02	<1.05e+00	<1.10e0	n/a	n/a	n/a	1.050	n/a
S95T003282	A	Bismuth - ICP-Acid Digest	ug/g	90.40	<1.00e-01	3.93e+04	3.81e+04	3.87e+04	3.10	n/a	21.00	n/a
S95T003282	A	Calcium - ICP-Acid Digest	ug/g	93.80	<1.00e-01	314.0	327.0	320.5	4.06	n/a	21.00	n/a
S95T003282	A	Cadmium - ICP-Acid Digest	ug/g	90.20	<5.00e-03	<1.05e+00	<1.10e0	n/a	n/a	n/a	1.050	n/a
S95T003282	A	Cerium - ICP-Acid Digest	ug/g	95.60	<1.00e-01	48.30	46.40	47.35	4.01	n/a	21.00	n/a
S95T003282	A	Cobalt - ICP-Acid Digest	ug/g	92.80	<2.00e-02	<4.19e+00	<4.40e0	n/a	n/a	n/a	4.190	n/a
S95T003282	A	Chromium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	1.37e+03	1.30e+03	1.34e+03	5.24	n/a	2.100	n/a
S95T003282	A	Copper - ICP-Acid Digest	ug/g	92.20	<1.00e-02	<2.10e+00	<2.20e0	n/a	n/a	n/a	2.100	n/a
S95T003282	A	Iron - ICP-Acid Digest	ug/g	93.80	<5.00e-02	3.33e+03	2.42e+03	2.88e+03	3.17	n/a	10.50	n/a
S95T003282	A	Potassium - ICP-Acid Digest	ug/g	92.00	<5.00e-01	5.32e+03	5.14e+03	5.23e+03	3.44	n/a	105.0	n/a
S95T003282	A	Lanthanum - ICP-Acid Digest	ug/g	94.40	<5.00e-02	1.15e+04	1.13e+04	1.14e+04	1.75	n/a	10.50	n/a
S95T003282	A	Lithium - ICP-Acid Digest	ug/g	93.20	<1.00e-02	20.60	20.10	20.35	2.46	n/a	2.100	n/a
S95T003282	A	Magnesium - ICP-Acid Digest	ug/g	89.00	<1.00e-01	63.40	59.60	61.50	6.18	n/a	21.00	n/a
S95T003282	A	Manganese - ICP-Acid Digest	ug/g	90.60	<1.00e-02	1.14e+04	1.09e+04	1.12e+04	4.48	n/a	2.100	n/a
S95T003282	A	Molybdenum - ICP-Acid Digest	ug/g	93.40	<5.00e-02	<1.05e+01	<1.10e1	n/a	n/a	n/a	10.50	n/a
S95T003282	A	Sodium - ICP-Acid Digest	ug/g	100.8	3.51e-01	2.50e+04	2.45e+04	2.48e+04	2.02	n/a	21.00	n/a
S95T003282	A	Neodymium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<2.10e+01	<2.20e1	n/a	n/a	n/a	21.00	n/a
S95T003282	A	Nickel - ICP-Acid Digest	ug/g	91.80	<2.00e-02	97.80	95.00	96.40	2.90	n/a	4.190	n/a
S95T003282	A	Phosphorus - ICP-Acid Digest	ug/g	93.40	<2.00e-01	3.38e+03	3.23e+03	3.30e+03	4.54	n/a	21.00	n/a
S95T003282	A	Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<2.10e+01	<2.20e1	n/a	n/a	n/a	21.00	n/a
S95T003282	A	Sulfur - ICP-Acid Digest	ug/g	89.40	<1.00e-01	120.0	120.0	120.0	0.00	n/a	21.00	n/a
S95T003282	A	Antimony - ICP-Acid Digest	ug/g	85.40	<6.00e-02	<1.26e+01	<1.32e1	n/a	n/a	n/a	12.60	n/a
S95T003282	A	Selenium - ICP-Acid Digest	ug/g	90.80	<1.00e-01	<2.10e+01	<2.20e1	n/a	n/a	n/a	21.00	n/a
S95T003282	A	Silicon - ICP-Acid Digest	ug/g	137.4	8.470	998.0	1.01e+03	1.00e+03	1.20	n/a	10.50	n/a
S95T003282	A	Samarium - ICP-Acid Digest	ug/g	91.80	<1.00e-01	<2.10e+01	<2.20e1	n/a	n/a	n/a	21.00	n/a
S95T003282	A	Strontium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	417.0	407.0	412.0	2.43	n/a	2.100	n/a
S95T003282	A	Titanium - ICP-Acid Digest	ug/g	90.80	<1.00e-02	3.280	3.250	3.265	0.92	n/a	2.100	n/a
S95T003282	A	Thallium - ICP-Acid Digest	ug/g	88.20	<2.00e-01	<4.19e+01	<4.40e1	n/a	n/a	n/a	4.190	n/a
S95T003282	A	Uranium - ICP-Acid Digest	ug/g	89.60	<5.00e-01	306.0	298.0	302.0	2.65	n/a	105.0	n/a
S95T003282	A	Vanadium - ICP-Acid Digest	ug/g	91.20	<5.00e-02	<1.05e+01	<1.10e1	n/a	n/a	n/a	10.50	n/a
S95T003282	A	Zinc - ICP-Acid Digest	ug/g	87.60	<1.00e-02	11.40	11.80	11.60	3.45	n/a	2.100	n/a
S95T003282	W	Zirconium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<2.10e+00	<2.20e0	n/a	n/a	n/a	2.100	n/a
S95T003308	W	Bromide by Ion Chromatograph	ug/g	104.2	<1.26e-01	521.9	569.0	545.5	8.62	104.5	483.9	n/a
S95T003308	W	Chloride-IC-Dionex 40001/4500	ug/g	97.85	<1.70e-02	573.3	745.0	659.1	26.1	98.52	65.29	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003208	W	Fluoride-IC-Dionex 4000i/4500	ug/g	106.1	<1.30e-02	6.00e+03	6.80e+03	6.40e+03	12.5	145.0	49.92	n/a
S95T003308	W	Nitrite-IC - Dionex 4000i/4500	ug/g	97.57	<1.07e-01	1.44e+03	1.55e+03	1.50e+03	7.36	99.00	410.9	n/a
S95T003308	W	Nitrate by IC-Dionex4000i/4500	ug/g	107.3	1.69e-01	4.03e+04	4.47e+04	4.25e+04	10.4	126.8	537.7	n/a
S95T003308	W	Oxalate by IC - Dionex 4000i	ug/g	105.9	<1.05e-01	<4.03e+02	<4.20e2	n/a	n/a	108.6	403.3	n/a
S95T003308	W	Phosphate-IC-Dionex 4000i/4500	ug/g	104.8	<1.19e-01	3.15e+03	3.49e+03	3.32e+03	10.2	107.8	457.0	n/a
S95T003308	W	Sulfate by IC-Dionex4000i/4500	ug/g	103.8	<1.36e-01	813.5	875.0	844.2	7.22	103.4	522.3	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003203		Bulk Density of Sample	g/mL	n/a	n/a	1.150	1.170	1.160	1.72	n/a	5.00e-01	n/a
S95T003257		% Water by TGA on Perkin Elmer	%	101.1	n/a	80.93	81.14	81.03	0.26	n/a	n/a	n/a
S95T003257		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003257		DSC Exotherm using Mettler	Joules/g	98.77	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003283	A	Silver -ICP-Acid Digest	ug/g	90.40	<1.00e-02	<1.95e+01	<1.82e1	17.90	15.6	n/a	1.950	n/a
S95T003283	A	Aluminum -ICP-Acid Digest	ug/g	92.60	<1.00e-01	27.50	16.30	21.90	51.1	n/a	9.740	n/a
S95T003283	A	Boron -ICP-Acid Digest	ug/g	96.40	<5.00e-02	253.0	261.0	257.0	3.11	n/a	9.740	n/a
S95T003283	A	Barium -ICP-Acid Digest	ug/g	93.40	<5.00e-02	<9.74e-01	<9.10e-1	n/a	n/a	n/a	9.74e-01	n/a
S95T003283	A	Beryllium -ICP-Acid Digest	ug/g	105.4	<5.00e-03	126.0	144.0	135.0	13.3	n/a	19.50	n/a
S95T003283	A	Bismuth -ICP-Acid Digest	ug/g	90.40	<1.00e-01	3.56e+04	3.73e+04	3.64e+04	4.66	n/a	19.50	n/a
S95T003283	A	Calcium -ICP-Acid Digest	ug/g	93.80	<1.00e-01	45.30	48.50	46.90	6.82	n/a	19.50	n/a
S95T003283	A	Cadmium -ICP-Acid Digest	ug/g	90.20	<5.00e-03	<9.74e-01	<9.10e-1	n/a	n/a	n/a	9.74e-01	n/a
S95T003283	A	Cerium -ICP-Acid Digest	ug/g	95.60	<1.00e-01	45.30	48.50	46.90	6.82	n/a	19.50	n/a
S95T003283	A	Cobalt -ICP-Acid Digest	ug/g	92.80	<2.00e-02	<3.81e+00	<3.64e0	1.89e+03	5.29	n/a	3.810	n/a
S95T003283	A	Chromium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	1.84e+03	1.94e+03	1.89e+03	5.29	n/a	1.950	n/a
S95T003283	A	Copper -ICP-Acid Digest	ug/g	92.20	<1.00e-02	<1.95e+00	<1.82e0	n/a	n/a	n/a	1.950	n/a
S95T003283	A	Iron -ICP-Acid Digest	ug/g	93.80	<5.00e-02	2.08e+03	2.16e+03	2.12e+03	3.77	n/a	9.740	n/a
S95T003283	A	Potassium -ICP-Acid Digest	ug/g	92.00	<5.00e-01	5.04e+03	5.18e+03	5.11e+03	2.74	n/a	97.40	n/a
S95T003283	A	Lanthanum -ICP-Acid Digest	ug/g	94.40	<5.00e-02	9.09e+03	9.37e+03	9.23e+03	3.03	n/a	9.740	n/a
S95T003283	A	Lithium -ICP-Acid Digest	ug/g	93.20	<1.00e-02	34.40	35.20	34.80	2.30	n/a	1.950	n/a
S95T003283	A	Magnesium -ICP-Acid Digest	ug/g	89.00	<1.00e-01	30.40	33.70	32.05	10.3	n/a	19.50	n/a
S95T003283	A	Manganese -ICP-Acid Digest	ug/g	90.60	<1.00e-02	1.08e+04	1.17e+04	1.12e+04	8.00	n/a	1.950	n/a
S95T003283	A	Molybdenum -ICP-Acid Digest	ug/g	93.40	<5.00e-02	<9.74e+00	<9.10e0	n/a	n/a	n/a	9.740	n/a
S95T003283	A	Sodium -ICP-Acid Digest	ug/g	100.8	3.51e-01	2.42e+04	2.46e+04	2.44e+04	1.64	n/a	19.50	n/a
S95T003283	A	Neodymium -ICP-Acid Digest	ug/g	92.00	<1.00e-01	<1.95e+01	<1.82e1	n/a	n/a	n/a	19.50	n/a
S95T003283	A	Nickel -ICP-Acid Digest	ug/g	91.80	<2.00e-02	135.0	143.0	139.0	5.76	n/a	3.810	n/a
S95T003283	A	Phosphorus -ICP-Acid Digest	ug/g	93.40	<2.00e-01	2.69e+03	2.82e+03	2.76e+03	4.72	n/a	38.10	n/a
S95T003283	A	Lead -ICP-Acid Digest	ug/g	89.60	<1.00e-01	<1.95e+01	<1.82e1	n/a	n/a	n/a	19.50	n/a
S95T003283	A	Sulfur -ICP-Acid Digest	ug/g	89.40	<1.00e-01	115.0	116.0	115.5	0.87	n/a	19.50	n/a
S95T003283	A	Antimony -ICP-Acid Digest	ug/g	85.40	<6.00e-02	<1.17e+01	<1.09e1	n/a	n/a	n/a	11.70	n/a
S95T003283	A	Selenium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	<1.95e+01	<1.82e1	n/a	n/a	n/a	19.50	n/a
S95T003283	A	Silicon -ICP-Acid Digest	ug/g	137.4	8.470	395.0	400.0	397.5	1.26	n/a	9.740	n/a
S95T003283	A	Samarium -ICP-Acid Digest	ug/g	91.80	<1.00e-01	<1.95e+01	<1.82e1	n/a	n/a	n/a	19.50	n/a
S95T003283	A	Strontium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	375.0	384.0	379.5	2.37	n/a	1.950	n/a
S95T003283	A	Titanium-ICP-Acid Digest	ug/g	90.80	<1.00e-02	<1.95e+00	<1.82e0	n/a	n/a	n/a	1.950	n/a
S95T003283	A	Thallium -ICP-Acid Digest	ug/g	88.20	<2.00e-01	<3.81e+01	<3.64e1	n/a	n/a	n/a	38.10	n/a
S95T003283	A	Vanadium -ICP-Acid Digest	ug/g	89.60	<5.00e-01	300.0	322.0	311.0	7.07	n/a	97.40	n/a
S95T003283	A	Uranium -ICP-Acid Digest	ug/g	91.20	<5.00e-02	<9.74e+00	<9.10e0	n/a	n/a	n/a	9.740	n/a
S95T003283	A	Zinc -ICP-Acid Digest	ug/g	87.60	<1.00e-02	7.430	8.820	8.125	17.1	n/a	1.950	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003283	A	Zirconium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<1.95e+00	<1.82e0	n/a	n/a	n/a	1.950	n/a
S95T003309	W	Bromide by Ion Chromatograph	ug/g	104.2	<1.26e-01	813.7	734.0	773.9	10.3	n/a	518.9	n/a
S95T003309	W	Chloride-IC-Dionex 4000i/4500	ug/g	97.85	<1.70e-02	564.4	518.0	541.2	8.50	n/a	70.01	n/a
S95T003309	W	Fluoride-IC-Dionex 4000i/4500	ug/g	106.1	<1.30e-02	6.26e+03	5.49e+03	5.88e+03	13.1	n/a	53.55	n/a
S95T003309	W	Nitrite-IC - Dionex 4000i/4500	ug/g	97.57	<1.07e-01	1.39e+03	1.33e+03	1.36e+03	4.41	n/a	440.7	n/a
S95T003309	W	Nitrate by IC-Dionex4000i/4500	ug/g	107.3	1.69e-01	4.42e+04	4.00e+04	4.21e+04	9.98	n/a	576.6	n/a
S95T003309	W	Oxalate by IC - Dionex 4000i	ug/g	105.9	<1.05e-01	517.7	455.0	486.4	12.9	n/a	432.4	n/a
S95T003309	W	Phosphate-IC-Dionex 4000i/4500	ug/g	104.8	<1.19e-01	2.61e+03	2.44e+03	2.53e+03	6.73	n/a	490.1	n/a
S95T003309	W	Sulfate by IC-Dionex4000i/4500	ug/g	103.8	<1.36e-01	1.02e+03	1.08e+03	1.05e+03	5.71	n/a	560.1	n/a
S95T003334	F	Alpha of Digested Solid	UCI/g	108.3	<2.53e-03	3.72e-01	3.23e-01	3.48e-01	14.1	95.92	3.81e-03	6.07E+00

Final Results for Cores 112 and 114
8-204CORE NUMBER: 114
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003284		Bulk Density of Sample	g/mL	n/a	n/a	1.150	1.190	1.170	3.42	n/a	5.00e-01	n/a
S95T003284		% Water by IGA using Mettler	%	102.4	n/a	80.99	81.59	81.29	0.74	n/a	n/a	n/a
S95T003284		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003284		DSC Exotherm using Mettler	Joules/g	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003284	A	Silver - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<1.98e+00	<1.89e0	n/a	n/a	n/a	1.980	n/a
S95T003284	A	Aluminum - ICP-Acid Digest	ug/g	92.20	<5.00e-02	26.40	19.80	23.10	28.6	n/a	9.900	n/a
S95T003284	A	Arsenic - ICP-Acid Digest	ug/g	92.60	<1.00e-01	<1.98e+01	<1.89e1	n/a	n/a	n/a	19.80	n/a
S95T003284	A	Boron - ICP-Acid Digest	ug/g	96.40	2.84e-01	28.10	17.90	23.00	44.3	n/a	9.900	n/a
S95T003284	A	Barium - ICP-Acid Digest	ug/g	93.40	<5.00e-02	59.90	58.50	59.20	2.36	n/a	9.900	n/a
S95T003284	A	Beryllium - ICP-Acid Digest	ug/g	105.4	<5.00e-03	<9.90e-01	<9.44e-1	n/a	n/a	n/a	9.90e-01	n/a
S95T003284	A	Bismuth - ICP-Acid Digest	ug/g	90.40	<1.00e-01	3.84e+04	3.95e+04	3.90e+04	2.82	n/a	19.80	n/a
S95T003284	A	Calcium - ICP-Acid Digest	ug/g	93.80	<1.00e-01	137.0	134.0	135.5	2.21	n/a	19.80	n/a
S95T003284	A	Cadmium - ICP-Acid Digest	ug/g	90.20	<5.00e-03	<9.90e-01	<9.44e-1	n/a	n/a	n/a	9.90e-01	n/a
S95T003284	A	Cerium - ICP-Acid Digest	ug/g	95.60	<1.00e-01	43.60	42.00	42.80	3.74	n/a	19.80	n/a
S95T003284	A	Cobalt - ICP-Acid Digest	ug/g	92.80	<2.00e-02	<3.96e+00	<3.78e0	n/a	n/a	n/a	3.960	n/a
S95T003284	A	Chromium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	1.80e+03	1.87e+03	1.84e+03	3.81	n/a	1.980	n/a
S95T003284	A	Copper - ICP-Acid Digest	ug/g	92.20	<1.00e-02	9.350	8.270	8.810	12.3	n/a	1.980	n/a
S95T003284	A	Iron - ICP-Acid Digest	ug/g	93.80	<5.00e-02	2.43e+03	2.40e+03	2.42e+03	1.24	n/a	9.900	n/a
S95T003284	A	Potassium - ICP-Acid Digest	ug/g	92.00	<5.00e-01	5.14e+03	5.19e+03	5.16e+03	0.97	n/a	99.00	n/a
S95T003284	A	Lanthanum - ICP-Acid Digest	ug/g	94.40	<5.00e-02	8.24e+03	8.49e+03	8.36e+03	2.99	n/a	9.900	n/a
S95T003284	A	Lithium - ICP-Acid Digest	ug/g	93.20	<1.00e-02	16.00	15.50	15.75	3.17	n/a	1.980	n/a
S95T003284	A	Magnesium - ICP-Acid Digest	ug/g	89.00	<1.00e-01	47.30	47.90	47.60	1.26	n/a	1.980	n/a
S95T003284	A	Manganese - ICP-Acid Digest	ug/g	90.60	<1.00e-02	1.12e+04	1.19e+04	1.16e+04	6.06	n/a	1.980	n/a
S95T003284	A	Molybdenum - ICP-Acid Digest	ug/g	93.40	<5.00e-02	<9.90e+00	<9.44e0	n/a	n/a	n/a	9.900	n/a
S95T003284	A	Sodium - ICP-Acid Digest	ug/g	100.8	3.51e-01	2.44e+04	2.49e+04	2.46e+04	2.03	n/a	19.80	n/a
S95T003284	A	Neodymium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<1.98e+01	<1.89e1	n/a	n/a	n/a	3.960	n/a
S95T003284	A	Nickel - ICP-Acid Digest	ug/g	91.80	<2.00e-02	157.0	163.0	160.0	3.75	n/a	39.60	n/a
S95T003284	A	Phosphorus - ICP-Acid Digest	ug/g	93.40	<2.00e-01	2.23e+03	2.22e+03	2.22e+03	0.45	n/a	19.80	n/a
S95T003284	A	Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<1.98e+01	<1.89e1	n/a	n/a	n/a	19.80	n/a
S95T003284	A	Sulfur - ICP-Acid Digest	ug/g	89.40	<1.00e-01	117.0	114.0	115.5	2.60	n/a	11.90	n/a
S95T003284	A	Antimony - ICP-Acid Digest	ug/g	85.40	<6.00e-02	<1.19e+01	<1.13e1	n/a	n/a	n/a	19.80	n/a
S95T003284	A	Selenium - ICP-Acid Digest	ug/g	90.80	<1.00e-01	<1.98e+01	<1.89e1	n/a	n/a	n/a	9.900	n/a
S95T003284	A	Silicon - ICP-Acid Digest	ug/g	137.4	8.470	444.0	368.0	406.0	18.7	n/a	9.900	n/a
S95T003284	A	Samarium - ICP-Acid Digest	ug/g	91.80	<1.00e-01	<1.98e+01	<1.89e1	n/a	n/a	n/a	19.80	n/a
S95T003284	A	Strontium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	313.0	324.0	318.5	3.45	n/a	1.980	n/a
S95T003284	A	Titanium - ICP-Acid Digest	ug/g	90.80	<1.00e-02	2.010	1.930	1.970	4.06	n/a	1.980	n/a
S95T003284	A	Thallium - ICP-Acid Digest	ug/g	88.20	<2.00e-01	<3.96e+01	<3.78e1	n/a	n/a	n/a	39.60	n/a
S95T003284	A	Uranium - ICP-Acid Digest	ug/g	89.60	<5.00e-01	<9.90e+01	<9.44e1	n/a	n/a	n/a	99.00	n/a
S95T003284	A	Vanadium - ICP-Acid Digest	ug/g	91.20	<5.00e-02	<9.90e+00	<9.44e0	n/a	n/a	n/a	9.900	n/a
S95T003284	A	Zinc - ICP-Acid Digest	ug/g	87.60	<1.00e-02	6.410	6.290	6.350	1.89	n/a	1.980	n/a
S95T003284	A	Zirconium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<1.98e+01	<1.89e1	n/a	n/a	n/a	1.980	n/a
S95T003310	W	Bromide by Ion Chromatograph	ug/g	107.5	<1.26e-01	404.9	406.0	405.4	0.25	103.5	282.5	n/a
S95T003310	W	Chloride-IC-Dionex 40001/4500	ug/g	101.3	<1.70e-02	583.8	590.0	586.9	1.02	101.7	38.10	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003310	W	Fluoride-IC-Dionex 4000i/4500	ug/g	n/a	n/a	na	faileddc	n/a	n/a	n/a	1.30e-02	n/a
S95T003310	W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.6	1.66e-01	1.08e+03	1.08e+03	1.08e+03	0.00	97.78	239.9	n/a
S95T003310	W	Nitrate by IC-Dionex 4000i/4500	ug/g	109.3	<1.07e-01	4.70e+04	4.80e+04	4.75e+04	2.11	121.7	599.2	n/a
S95T003310	W	Oxalate by IC - Dionex 4000i	ug/g	107.4	<1.05e-01	851.4	835.0	843.2	1.90	106.9	235.4	n/a
S95T003310	W	Phosphate-IC-Dionex 4000i/4500	ug/g	107.0	<1.19e-01	2.64e+03	2.57e+03	2.61e+03	2.69	107.6	266.8	n/a
S95T003310	W	Sulfate by IC-Dionex 4000i/4500	ug/g	104.8	1.67e-01	613.4	681.0	647.2	10.5	103.6	304.9	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003205		Bulk Density of Sample	g/mL	n/a	n/a	1.160	1.160	1.160	0.00	n/a	5.00e-01	n/a
S95T003259		% Water by TGA using Mettler	%	102.4	n/a	81.36	80.30	80.83	1.31	n/a	n/a	n/a
S95T003259		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003259		DSC Exotherm Using Mettler	Joules/g	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003285	A	Silver -ICP-Acid Digest	ug/g	90.40	<1.00e-02	<1.69e+01	<1.93e1	n/a	n/a	n/a	16.90	n/a
S95T003285	A	Aluminum -ICP-Acid Digest	ug/g	92.20	<5.00e-02	93.40	<9.66e1	n/a	n/a	n/a	84.50	n/a
S95T003285	A	Arsenic -ICP-Acid Digest	ug/g	92.60	<1.00e-01	<1.69e+02	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Boron -ICP-Acid Digest	ug/g	96.40	2.64e-01	<8.45e+01	<9.66e1	n/a	n/a	n/a	84.50	n/a
S95T003285	A	Barium -ICP-Acid Digest	ug/g	93.40	<5.00e-02	<8.45e+01	<9.66e1	n/a	n/a	n/a	84.50	n/a
S95T003285	A	Beryllium -ICP-Acid Digest	ug/g	105.4	<5.00e-03	<8.45e+01	<9.66e1	n/a	n/a	n/a	84.50	n/a
S95T003285	A	Bismuth -ICP-Acid Digest	ug/g	90.40	<1.00e-01	4.98e+04	4.93e+04	4.96e+04	1.01	n/a	169.0	n/a
S95T003285	A	Calcium -ICP-Acid Digest	ug/g	93.80	<1.00e-01	170.0	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Cadmium -ICP-Acid Digest	ug/g	90.20	<5.00e-03	<8.45e+01	<9.66e1	n/a	n/a	n/a	84.50	n/a
S95T003285	A	Cerium -ICP-Acid Digest	ug/g	95.60	<1.00e-01	<1.69e+02	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Cobalt -ICP-Acid Digest	ug/g	92.80	<2.00e-02	<3.38e+01	<3.86e1	n/a	n/a	n/a	33.80	n/a
S95T003285	A	Chromium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	2.72e+03	2.67e+03	2.70e+03	1.86	n/a	16.90	n/a
S95T003285	A	Copper -ICP-Acid Digest	ug/g	92.20	<1.00e-02	<1.69e+01	<1.93e1	n/a	n/a	n/a	16.90	n/a
S95T003285	A	Iron -ICP-Acid Digest	ug/g	93.80	<5.00e-02	2.64e+03	2.61e+03	2.62e+03	1.14	n/a	84.50	n/a
S95T003285	A	Potassium -ICP-Acid Digest	ug/g	92.00	<5.00e-01	5.54e+03	5.86e+03	5.70e+03	5.61	n/a	845.0	n/a
S95T003285	A	Lanthanum -ICP-Acid Digest	ug/g	94.40	<5.00e-02	9.82e+03	9.85e+03	9.84e+03	0.31	n/a	84.50	n/a
S95T003285	A	Lithium -ICP-Acid Digest	ug/g	93.20	<1.00e-02	20.60	22.90	21.75	10.6	n/a	16.90	n/a
S95T003285	A	Magnesium -ICP-Acid Digest	ug/g	89.00	<1.00e-01	<1.69e+02	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Manganese -ICP-Acid Digest	ug/g	90.60	<1.00e-02	1.17e+04	1.16e+04	1.16e+04	0.86	n/a	16.90	n/a
S95T003285	A	Molybdenum -ICP-Acid Digest	ug/g	93.40	<5.00e-02	<8.45e+01	<9.66e1	n/a	n/a	n/a	84.50	n/a
S95T003285	A	Sodium -ICP-Acid Digest	ug/g	100.8	3.51e-01	2.51e+04	2.57e+04	2.54e+04	2.36	n/a	169.0	n/a
S95T003285	A	Neodymium -ICP-Acid Digest	ug/g	92.00	<1.00e-02	<1.69e+02	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Nickel -ICP-Acid Digest	ug/g	91.80	<2.00e-02	127.0	126.0	126.5	0.79	n/a	33.80	n/a
S95T003285	A	Phosphorus -ICP-Acid Digest	ug/g	93.40	<2.00e-01	2.67e+03	2.68e+03	2.68e+03	0.37	n/a	338.0	n/a
S95T003285	A	Lead -ICP-Acid Digest	ug/g	89.60	<1.00e-01	<1.69e+02	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Sulfur -ICP-Acid Digest	ug/g	89.40	<1.00e-01	<1.69e+02	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Antimony -ICP-Acid Digest	ug/g	85.40	<6.00e-02	<1.01e+02	<1.16e2	n/a	n/a	n/a	101.0	n/a
S95T003285	A	Selenium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	<1.69e+02	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Silicon -ICP-Acid Digest	ug/g	137.4	8.470	468.0	490.0	479.0	4.59	n/a	84.50	n/a
S95T003285	A	Samarium -ICP-Acid Digest	ug/g	91.80	<1.00e-01	<1.69e+02	<1.93e2	n/a	n/a	n/a	169.0	n/a
S95T003285	A	Strontium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	455.0	454.0	454.5	0.22	n/a	16.90	n/a
S95T003285	A	Titanium -ICP-Acid Digest	ug/g	90.80	<1.00e-02	<1.69e+01	<1.93e1	n/a	n/a	n/a	16.90	n/a
S95T003285	A	Thallium -ICP-Acid Digest	ug/g	88.20	<2.00e-01	<3.38e+02	<3.86e2	n/a	n/a	n/a	338.0	n/a
S95T003285	A	Vanadium -ICP-Acid Digest	ug/g	89.60	<5.00e-01	<8.45e+02	<9.66e2	n/a	n/a	n/a	845.0	n/a
S95T003285	A	Uranium -ICP-Acid Digest	ug/g	91.20	<5.00e-02	<8.45e+01	<9.66e1	n/a	n/a	n/a	84.50	n/a
S95T003285	A	Zinc -ICP-Acid Digest	ug/g	87.60	<1.00e-02	<1.69e+01	<1.93e1	n/a	n/a	n/a	16.90	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003285	A		Zirconium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<1.69e+01	<1.93e1	n/a	n/a	n/a	16.90	n/a
S95T003311	W		Bromide by Ion Chromatograph	ug/g	107.5	<1.26e-01	409.5	420.0	414.8	2.41	n/a	258.4	n/a
S95T003311	W		Chloride-IC-Dionex 4000i/4500	ug/g	101.3	<1.70e-02	573.7	573.0	573.4	0.17	n/a	34.87	n/a
S95T003311	W		Fluoride-IC-Dionex 4000i/4500	ug/g	n/a	n/a	na	failedqc	n/a	n/a	n/a	1.30e-02	n/a
S95T003311	W		Nitrite-IC - Dionex 4000i/4500	ug/g	100.6	1.66e-01	897.8	901.0	899.4	0.33	n/a	219.5	n/a
S95T003311	W		Nitrate by IC-Dionex4000i/4500	ug/g	109.3	<1.07e-01	4.46e+04	4.67e+04	4.56e+04	4.60	n/a	548.2	n/a
S95T003311	W		Oxalate by IC - Dionex 4000i	ug/g	107.4	<1.05e-01	1.09e+03	1.12e+03	1.10e+03	2.71	n/a	215.4	n/a
S95T003311	W		Phosphate-IC-Dionex 4000i/4500	ug/g	107.0	<1.19e-01	2.81e+03	2.83e+03	2.82e+03	0.71	n/a	244.1	n/a
S95T003311	W		Sulfate by IC-Dionex4000i/4500	ug/g	104.8	1.67e-01	568.5	584.0	576.2	2.78	n/a	278.9	n/a
S95T003335	F		Alpha of Digested Solid	uci/g	103.1	<3.70e-03	2.69e-01	2.80e-01	2.75e-01	4.01	93.62	4.84e-03	6.52E+00

Final Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 4

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003286		Bulk Density of Sample	g/mL	n/a	n/a	1.150	1.150	1.150	0.00	n/a	5.00e-01	n/a
S95T003286	1	% Water by IGA on Perkin Elmer	%	100.6	n/a	78.64	76.94	77.79	2.19	n/a	n/a	n/a
S95T003286		% Water by IGA on Perkin Elmer	%	101.1	n/a	76.22	54.36	65.29	33.5	n/a	n/a	n/a
S95T003286		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003286		DSC Exotherm using Mettler	Joules/g	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003286	A	Silver - ICP-Acid Digest	ug/g	90.40	<1.00e-02	2.240	<1.97e0	n/a	n/a	n/a	2.230	n/a
S95T003286	A	Aluminum - ICP-Acid Digest	ug/g	92.20	<5.00e-02	26.50	25.60	26.05	3.45	n/a	11.10	n/a
S95T003286	A	Arsenic - ICP-Acid Digest	ug/g	92.60	<1.00e-01	<2.23e+01	<1.97e1	n/a	n/a	n/a	22.30	n/a
S95T003286	A	Boron - ICP-Acid Digest	ug/g	96.40	2.84e-01	22.10	38.70	30.40	54.6	n/a	11.10	n/a
S95T003286	A	Barium - ICP-Acid Digest	ug/g	93.40	<5.00e-02	73.00	45.60	59.30	46.2	n/a	11.10	n/a
S95T003286	A	Beryllium - ICP-Acid Digest	ug/g	105.4	<5.00e-03	<1.11e+00	<9.84e-1	n/a	n/a	n/a	1.110	n/a
S95T003286	A	Bismuth - ICP-Acid Digest	ug/g	90.40	<1.00e-01	4.53e+04	4.60e+04	4.56e+04	1.53	n/a	22.30	n/a
S95T003286	A	Calcium - ICP-Acid Digest	ug/g	93.80	<1.00e-01	181.0	182.0	181.5	0.55	n/a	22.30	n/a
S95T003286	A	Cadmium - ICP-Acid Digest	ug/g	90.20	<5.00e-03	<1.11e+00	<9.84e-1	n/a	n/a	n/a	1.110	n/a
S95T003286	A	Cerium - ICP-Acid Digest	ug/g	95.60	<1.00e-01	49.30	48.70	49.00	1.22	n/a	22.30	n/a
S95T003286	A	Cobalt - ICP-Acid Digest	ug/g	92.80	<2.00e-02	<4.45e+00	<3.94e0	n/a	n/a	n/a	4.450	n/a
S95T003286	A	Chromium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	1.97e+03	1.92e+03	1.94e+03	2.57	n/a	2.230	n/a
S95T003286	A	Copper - ICP-Acid Digest	ug/g	92.20	<1.00e-02	4.070	3.500	3.785	15.1	n/a	2.230	n/a
S95T003286	A	Iron - ICP-Acid Digest	ug/g	93.80	<5.00e-02	2.68e+03	2.71e+03	2.70e+03	1.11	n/a	11.10	n/a
S95T003286	A	Potassium - ICP-Acid Digest	ug/g	92.00	<5.00e-01	4.92e+03	4.87e+03	4.90e+03	1.02	n/a	11.10	n/a
S95T003286	A	Lanthanum - ICP-Acid Digest	ug/g	94.40	<5.00e-02	1.07e+03	1.08e+04	1.08e+04	0.93	n/a	11.10	n/a
S95T003286	A	Lithium - ICP-Acid Digest	ug/g	93.20	<1.00e-02	56.00	60.40	58.20	7.56	n/a	2.230	n/a
S95T003286	A	Magnesium - ICP-Acid Digest	ug/g	89.00	<1.00e-01	54.80	48.10	51.45	13.0	n/a	22.30	n/a
S95T003286	A	Manganese - ICP-Acid Digest	ug/g	90.60	<1.00e-02	1.41e+04	1.49e+04	1.45e+04	5.52	n/a	2.230	n/a
S95T003286	A	Molybdenum - ICP-Acid Digest	ug/g	93.40	<5.00e-02	<1.11e+01	<9.84e0	n/a	n/a	n/a	11.10	n/a
S95T003286	A	Sodium - ICP-Acid Digest	ug/g	100.8	3.51e-01	2.38e+04	2.38e+04	2.38e+04	0.00	n/a	22.30	n/a
S95T003286	A	Neodymium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<2.23e+01	<1.97e1	n/a	n/a	n/a	22.30	n/a
S95T003286	A	Nickel - ICP-Acid Digest	ug/g	91.80	<2.00e-02	126.0	127.0	126.5	0.79	n/a	4.450	n/a
S95T003286	A	Phosphorus - ICP-Acid Digest	ug/g	93.40	<2.00e-01	2.42e+03	2.45e+03	2.44e+03	1.23	n/a	44.50	n/a
S95T003286	A	Lead - ICP-Acid Digest	ug/g	89.60	<1.00e-01	<2.23e+01	<1.97e1	n/a	n/a	n/a	22.30	n/a
S95T003286	A	Sulfur - ICP-Acid Digest	ug/g	89.40	<1.00e-01	121.0	114.0	117.5	5.96	n/a	22.30	n/a
S95T003286	A	Antimony - ICP-Acid Digest	ug/g	85.40	<6.00e-02	<1.35e+01	<1.18e1	n/a	n/a	n/a	13.40	n/a
S95T003286	A	Selenium - ICP-Acid Digest	ug/g	90.80	<1.00e-01	<2.23e+01	<1.97e1	n/a	n/a	n/a	22.30	n/a
S95T003286	A	Silicon - ICP-Acid Digest	ug/g	137.4	8.470	642.0	1.15e+03	896.0	56.7	n/a	11.10	n/a
S95T003286	A	Samarium - ICP-Acid Digest	ug/g	91.80	<1.00e-01	<2.23e+01	<1.97e1	n/a	n/a	n/a	22.30	n/a
S95T003286	A	Strontium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	509.0	511.0	510.0	0.39	n/a	2.230	n/a
S95T003286	A	Titanium - ICP-Acid Digest	ug/g	90.80	<2.00e-01	<2.23e+00	2.040	n/a	n/a	n/a	2.230	n/a
S95T003286	A	Thallium - ICP-Acid Digest	ug/g	88.20	<2.00e-01	<4.45e+01	<3.94e1	n/a	n/a	n/a	44.50	n/a
S95T003286	A	Uranium - ICP-Acid Digest	ug/g	89.60	<5.00e-01	<1.11e+02	<9.84e1	n/a	n/a	n/a	11.10	n/a
S95T003286	A	Vanadium - ICP-Acid Digest	ug/g	91.20	<5.00e-02	<1.11e+01	<9.84e0	n/a	n/a	n/a	11.10	n/a
S95T003286	A	Zinc - ICP-Acid Digest	ug/g	87.60	<1.00e-02	7.190	8.740	7.965	19.5	n/a	2.230	n/a
S95T003286	A	Zirconium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<2.23e+00	<1.97e0	n/a	n/a	n/a	2.230	n/a
S95T003312	W	Bromide by Ion Chromatograph	ug/g	104.7	<1.26e-01	815.7	812.0	813.9	0.49	96.24	147.6	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S95T003312	W	Chloride-IC-Dionex 4000i/4500	ug/g	93.54	<1.70e-02	532.7	551.0	541.9	3.32	94.89	19.91
S95T003312	W	Fluoride-IC-Dionex 4000i/4500	ug/g	105.6	<1.30e-02	6.27e+03	6.19e+03	6.23e+03	1.28	110.6	15.22
S95T003312	W	Nitrite-IC-Dionex 4000i/4500	ug/g	101.9	<1.07e-01	641.0	644.0	642.5	0.47	99.21	125.3
S95T003312	W	Nitrate by IC-Dionex 4000i/4500	ug/g	103.4	<1.40e-01	4.84e+04	4.78e+04	4.81e+04	1.25	86.10	163.1
S95T003312	W	Oxalate by IC-Dionex 4000i	ug/g	105.7	<1.05e-01	1.29e+03	1.25e+03	1.27e+03	3.15	104.9	123.0
S95T003312	W	Phosphate-IC-Dionex 4000i/4500	ug/g	102.9	<1.19e-01	3.33e+03	3.31e+03	3.32e+03	0.60	105.2	139.4
S95T003312	W	Sulfate by IC-Dionex 4000i/4500	ug/g	103.2	<1.36e-01	436.0	431.0	433.5	1.15	101.4	159.3

Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD % Spk Rec %	Det Limit	Count Err%
S95T003207		Bulk Density of Sample	g/mL	n/a	n/a	1.150	1.190	1.170	3.42	n/a	5.00e-01
S95T003261		% Water by IGA using Mettler	%	100.5	n/a	80.24	79.88	80.06	0.45	n/a	n/a
S95T003261		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a
S95T003261		DSC Exotherm using Mettler	Joules/g	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a
S95T003287	A	Silver -ICP-Acid Digest	ug/g	82.50	<1.00e-02	<3.51e+00	<4.43e0	n/a	n/a	98.40	3.510
S95T003287	A	Aluminum -ICP-Acid Digest	ug/g	86.00	<5.00e-02	48.10	35.10	41.60	31.2	96.52	17.60
S95T003287	A	Arsenic -ICP-Acid Digest	ug/g	86.40	<1.00e-01	<3.51e+01	<4.43e1	n/a	n/a	98.60	35.10
S95T003287	A	Boron -ICP-Acid Digest	ug/g	86.80	<2.83e-02	40.50	34.40	37.45	16.3	104.6	17.60
S95T003287	A	Beryllium -ICP-Acid Digest	ug/g	101.2	<5.00e-03	<1.77e+00	<2.21e0	n/a	n/a	101.2	1.760
S95T003287	A	Bismuth -ICP-Acid Digest	ug/g	83.80	<1.00e-01	5.05e+04	5.24e+04	5.14e+04	3.69	0.00e+00	35.10
S95T003287	A	Calcium -ICP-Acid Digest	ug/g	84.40	<1.00e-01	294.0	247.0	270.5	17.4	89.94	35.10
S95T003287	A	Cadmium -ICP-Acid Digest	ug/g	83.00	<5.00e-03	<1.77e+00	<2.21e0	n/a	n/a	96.20	1.760
S95T003287	A	Cerium -ICP-Acid Digest	ug/g	89.80	<1.00e-01	47.10	44.30	45.70	6.13	99.84	35.10
S95T003287	A	Cobalt -ICP-Acid Digest	ug/g	85.40	<2.00e-02	<7.02e+00	<8.85e0	n/a	n/a	98.00	7.020
S95T003287	A	Chromium -ICP-Acid Digest	ug/g	85.80	<1.00e-02	2.46e+03	2.51e+03	2.48e+03	2.01	86.20	3.510
S95T003287	A	Copper -ICP-Acid Digest	ug/g	87.20	<1.02e-02	<3.51e+00	<4.43e0	n/a	n/a	96.60	3.510
S95T003287	A	Iron -ICP-Acid Digest	ug/g	87.80	<5.00e-02	2.89e+03	3.04e+03	2.96e+03	5.06	84.24	17.60
S95T003287	A	Potassium -ICP-Acid Digest	ug/g	90.20	<5.00e-01	5.62e+03	5.62e+03	5.62e+03	0.00	54.14	176.0
S95T003287	A	Lanthanum -ICP-Acid Digest	ug/g	88.60	<5.00e-02	9.70e+03	1.02e+04	9.95e+03	5.03	68.86	17.60
S95T003287	A	Lithium -ICP-Acid Digest	ug/g	89.40	<1.00e-02	29.10	30.20	29.65	3.71	95.68	3.510
S95T003287	A	Magnesium -ICP-Acid Digest	ug/g	82.60	<1.00e-01	82.90	45.70	64.30	57.9	90.16	35.10
S95T003287	A	Manganese -ICP-Acid Digest	ug/g	83.00	<1.00e-02	1.45e+04	1.49e+04	1.47e+04	2.72	67.04	3.510
S95T003287	A	Molybdenum -ICP-Acid Digest	ug/g	86.40	<5.00e-02	<1.77e+01	<2.21e1	n/a	n/a	97.80	17.60
S95T003287	A	Sodium -ICP-Acid Digest	ug/g	91.00	3.25e-01	2.68e+04	2.68e+04	2.68e+04	0.00	0.00e+00	35.10
S95T003287	A	Neodymium -ICP-Acid Digest	ug/g	87.00	<1.00e-01	<3.51e+01	<4.43e1	n/a	n/a	96.40	35.10
S95T003287	A	Nickel -ICP-Acid Digest	ug/g	84.40	<2.00e-02	171.0	173.0	172.0	1.16	96.14	7.020
S95T003287	A	Phosphorus -ICP-Acid Digest	ug/g	87.00	<2.00e-01	2.39e+03	2.47e+03	2.43e+03	3.29	85.72	70.20
S95T003287	A	Lead -ICP-Acid Digest	ug/g	82.00	<1.00e-01	<3.51e+01	<4.43e1	n/a	n/a	93.40	35.10
S95T003287	A	Sulfur -ICP-Acid Digest	ug/g	83.60	<1.00e-01	112.0	133.0	122.5	17.1	93.46	35.10
S95T003287	A	Antimony -ICP-Acid Digest	ug/g	79.60	<6.00e-02	<2.11e+01	<2.66e1	n/a	n/a	88.80	21.10
S95T003287	A	Selenium -ICP-Acid Digest	ug/g	85.80	<1.00e-01	<3.51e+01	<4.43e1	n/a	n/a	97.40	35.10
S95T003287	A	Silicon -ICP-Acid Digest	ug/g	106.6	7.820	1.22e+03	905.0	1.06e+03	29.6	0.00e+00	17.60
S95T003287	A	Samarium -ICP-Acid Digest	ug/g	86.20	<1.00e-01	<3.51e+01	<4.43e1	n/a	n/a	94.40	35.10
S95T003287	A	Strontium -ICP-Acid Digest	ug/g	87.00	<1.00e-02	621.0	648.0	634.5	4.26	93.02	3.510
S95T003287	A	Titanium -ICP-Acid Digest	ug/g	85.20	<1.00e-02	<3.51e+00	<4.43e0	n/a	n/a	95.40	3.510
S95T003287	A	Thallium -ICP-Acid Digest	ug/g	81.60	<2.00e-01	<7.02e+01	<8.85e1	n/a	n/a	89.80	70.20
S95T003287	A	Uranium -ICP-Acid Digest	ug/g	84.50	<5.00e-01	<1.77e+02	<2.21e2	n/a	n/a	93.80	176.0
S95T003287	A	Vanadium -ICP-Acid Digest	ug/g	84.40	<5.00e-02	<1.77e+01	<2.21e1	n/a	n/a	94.20	17.60

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003287	A		Zinc -ICP-Acid Digest	ug/g	80.60	<1.00e-02	8.560	8.670	8.615	1.28	94.22	3.510	n/a
S95T003287	A		Zirconium -ICP-Acid Digest	ug/g	85.60	<1.00e-02	<3.51e+00	<4.43e0	n/a	n/a	96.20	3.510	n/a
S95T003313	W		Bromide by Ion Chromatograph	ug/g	104.7	<1.26e-01	742.9	736.0	739.5	0.95	n/a	459.4	n/a
S95T003313	W		Chloride-IC-Dionex 4000i/4500	ug/g	93.54	<1.70e-02	537.5	551.0	544.2	2.39	n/a	61.97	n/a
S95T003313	W		Fluoride-IC-Dionex 4000i/4500	ug/g	105.6	<1.30e-02	6.39e+03	6.41e+03	6.40e+03	0.31	n/a	47.40	n/a
S95T003313	W		Nitrite-IC - Dionex 4000i/4500	ug/g	101.9	<1.07e-01	825.7	845.0	835.4	2.27	n/a	390.1	n/a
S95T003313	W		Nitrate by IC-Dionex4000i/4500	ug/g	103.4	<1.40e-01	4.65e+04	4.77e+04	4.71e+04	2.55	n/a	510.4	n/a
S95T003313	W		Oxalate by IC - Dionex 4000i	ug/g	105.7	<1.05e-01	1.56e+03	1.54e+03	1.55e+03	1.29	n/a	382.8	n/a
S95T003313	W		Phosphate-IC-Dionex 4000i/4500	ug/g	102.9	<1.19e-01	3.85e+03	4.13e+03	3.99e+03	7.02	n/a	433.9	n/a
S95T003313	W		Sulfate by IC-Dionex4000i/4500	ug/g	103.2	<1.36e-01	735.2	791.0	763.1	7.34	n/a	495.8	n/a
S95T003336	F		Alpha of Digested Solid	UCI/g	106.2	<3.28e-03	2.61e-01	2.82e-01	2.71e-01	7.73	93.62	5.20e-03	7.13e+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 114
SEGMENT #: 5

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003208		Bulk Density of Sample	g/mL	n/a	n/a	1.200	1.120	1.160	6.90	n/a	5.00e-01	n/a
S95T003262		% Water by TGA using Mettler	%	100.5	n/a	81.55	81.50	81.53	0.06	n/a	n/a	n/a
S95T003262		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003262		DSC Exotherm using Mettler	Joules/g	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003288	A	Silver - ICP-Acid Digest	ug/g	82.50	<1.00e-02	<2.22e+00	<1.93e0	n/a	n/a	n/a	2.220	n/a
S95T003288	A	Aluminum - ICP-Acid Digest	ug/g	86.00	<5.00e-02	30.90	34.40	32.65	10.7	n/a	11.10	n/a
S95T003288	A	Arsenic - ICP-Acid Digest	ug/g	86.40	<1.00e-01	<2.22e+01	<1.93e1	n/a	n/a	n/a	22.20	n/a
S95T003288	A	Boron - ICP-Acid Digest	ug/g	86.80	2.83e-01	24.20	52.20	38.20	73.3	n/a	11.10	n/a
S95T003288	A	Barium - ICP-Acid Digest	ug/g	86.80	<5.00e-02	21.60	21.30	21.45	1.40	n/a	11.10	n/a
S95T003288	A	Beryllium - ICP-Acid Digest	ug/g	101.2	<5.00e-03	<1.11e+00	<9.66e-1	n/a	n/a	n/a	1.110	n/a
S95T003288	A	Bismuth - ICP-Acid Digest	ug/g	83.80	<1.00e-01	4.71e+04	4.46e+04	4.58e+04	5.45	n/a	22.20	n/a
S95T003288	A	Calcium - ICP-Acid Digest	ug/g	84.40	<1.00e-01	126.0	113.0	119.5	10.9	n/a	22.20	n/a
S95T003288	A	Cadmium - ICP-Acid Digest	ug/g	83.00	<5.00e-03	<1.11e+00	<9.66e-1	n/a	n/a	n/a	1.110	n/a
S95T003288	A	Cerium - ICP-Acid Digest	ug/g	89.80	<1.00e-01	31.00	28.20	29.60	9.46	n/a	22.20	n/a
S95T003288	A	Cobalt - ICP-Acid Digest	ug/g	85.40	<2.00e-02	<4.44e+00	<3.87e0	n/a	n/a	n/a	4.440	n/a
S95T003288	A	Chromium - ICP-Acid Digest	ug/g	85.80	<1.00e-02	2.47e+03	2.32e+03	2.40e+03	6.26	n/a	2.220	n/a
S95T003288	A	Copper - ICP-Acid Digest	ug/g	87.20	1.020	4.170	2.130	3.150	64.8	n/a	11.10	n/a
S95T003288	A	Iron - ICP-Acid Digest	ug/g	87.80	<5.00e-02	2.71e+03	2.56e+03	2.64e+03	5.69	n/a	11.10	n/a
S95T003288	A	Potassium - ICP-Acid Digest	ug/g	90.20	<5.00e-01	5.66e+03	5.42e+03	5.54e+03	4.33	n/a	11.10	n/a
S95T003288	A	Lanthanum - ICP-Acid Digest	ug/g	88.40	<5.00e-02	6.92e+03	6.53e+03	6.72e+03	5.80	n/a	11.10	n/a
S95T003288	A	Lithium - ICP-Acid Digest	ug/g	89.60	<1.00e-02	108.0	102.0	105.0	5.71	n/a	2.220	n/a
S95T003288	A	Magnesium - ICP-Acid Digest	ug/g	82.60	<1.00e-01	34.70	31.30	33.00	10.3	n/a	22.20	n/a
S95T003288	A	Manganese - ICP-Acid Digest	ug/g	83.00	<1.00e-02	1.38e+04	1.34e+04	1.36e+04	2.94	n/a	2.220	n/a
S95T003288	A	Molybdenum - ICP-Acid Digest	ug/g	86.40	<5.00e-02	<1.11e+01	<9.66e0	n/a	n/a	n/a	11.10	n/a
S95T003288	A	Sodium - ICP-Acid Digest	ug/g	91.00	3.25e-01	2.72e+04	2.58e+04	2.65e+04	5.28	n/a	22.20	n/a
S95T003288	A	Neodymium - ICP-Acid Digest	ug/g	87.00	<1.00e-01	<2.22e+01	<1.93e1	n/a	n/a	n/a	4.440	n/a
S95T003288	A	Nickel - ICP-Acid Digest	ug/g	84.40	<2.00e-02	147.0	137.0	142.0	7.04	n/a	44.40	n/a
S95T003288	A	Phosphorus - ICP-Acid Digest	ug/g	87.00	<2.00e-01	2.39e+03	2.26e+03	2.32e+03	5.59	n/a	22.20	n/a
S95T003288	A	Lead - ICP-Acid Digest	ug/g	82.00	<1.00e-01	<2.22e+01	<1.93e1	n/a	n/a	n/a	22.20	n/a
S95T003288	A	Sulfur - ICP-Acid Digest	ug/g	83.60	<1.00e-01	107.0	95.30	101.2	11.6	n/a	22.20	n/a
S95T003288	A	Antimony - ICP-Acid Digest	ug/g	79.60	<6.00e-02	<1.33e+01	<1.16e1	n/a	n/a	n/a	13.30	n/a
S95T003288	A	Selenium - ICP-Acid Digest	ug/g	85.80	<1.00e-01	<2.22e+01	<1.93e1	n/a	n/a	n/a	22.20	n/a
S95T003288	A	Silicon - ICP-Acid Digest	ug/g	106.6	7.820	589.0	484.0	536.5	19.6	n/a	11.10	n/a
S95T003288	A	Samarium - ICP-Acid Digest	ug/g	86.20	<1.00e-01	<2.22e+01	<1.93e1	n/a	n/a	n/a	22.20	n/a
S95T003288	A	Strontium - ICP-Acid Digest	ug/g	87.00	<1.00e-02	646.0	607.0	626.5	6.23	n/a	2.220	n/a
S95T003288	A	Titanium - ICP-Acid Digest	ug/g	85.20	<1.00e-02	3.260	2.980	3.120	8.97	n/a	2.220	n/a
S95T003288	A	Thallium - ICP-Acid Digest	ug/g	81.60	<2.00e-01	<4.44e+01	<3.87e1	n/a	n/a	n/a	44.40	n/a
S95T003288	A	Uranium - ICP-Acid Digest	ug/g	84.50	<5.00e-01	<1.11e+02	<9.66e1	n/a	n/a	n/a	11.10	n/a
S95T003288	A	Vanadium - ICP-Acid Digest	ug/g	84.40	<5.00e-02	<1.11e+01	<9.66e0	n/a	n/a	n/a	11.10	n/a
S95T003288	A	Zinc - ICP-Acid Digest	ug/g	80.60	<1.00e-02	18.50	8.690	13.59	72.2	n/a	2.220	n/a
S95T003288	A	Zirconium - ICP-Acid Digest	ug/g	85.60	<1.00e-02	<2.22e+00	<1.93e0	n/a	n/a	n/a	2.220	n/a
S95T003314	W	Bromide by Ion Chromatograph	ug/g	94.96	<1.26e-01	1.95e+03	1.89e+03	1.92e+03	3.12	89.25	267.0	n/a
S95T003314	W	Chloride-IC-Dionex 4000T/4500	ug/g	91.01	<1.70e-02	580.4	591.0	585.7	1.88	87.02	36.04	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003314	W		Fluoride-IC-Dionex 4000i/4500	ug/g	97.80	<1.30e-02	5.55e+03	5.48e+03	5.52e+03	1.27	97.47	27.55	n/a
S95T003314	W		Nitrite-IC - Dionex 4000i/4500	ug/g	96.83	<1.07e-01	1.15e+03	1.15e+03	1.15e+03	0.00	89.22	226.8	n/a
S95T003314	W		Nitrate by IC-Dionex4000i/4500	ug/g	93.65	4.55e-01	4.04e+04	4.01e+04	4.02e+04	0.75	106.5	226.7	n/a
S95T003314	W		Oxalate by IC - Dionex 4000i	ug/g	92.57	4.00e-01	2.14e+03	1.93e+03	2.03e+03	10.3	93.14	222.5	n/a
S95T003314	W		Phosphate-IC-Dionex 4000i/4500	ug/g	91.39	<1.19e-01	4.09e+03	3.95e+03	4.02e+03	3.48	92.95	252.2	n/a
S95T003314	W		Sulfate by IC-Dionex4000i/4500	ug/g	94.14	<1.36e-01	1.11e+03	1.22e+03	1.16e+03	9.44	89.54	288.2	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003209			Bulk Density of Sample	g/mL	n/a	n/a	1.200	1.160	1.180	3.39	n/a	5.00e-01	n/a
S95T003263			% Water by TGA using Mettler	%	100.5	n/a	72.88	81.70	77.29	11.4	n/a	n/a	n/a
S95T003263			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003263			DSC Exotherm using Mettler	Joules/g	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003289	A		Silver -ICP-Acid Digest	ug/g	82.50	<1.00e-02	<2.26e+00	<2.34e0	n/a	n/a	n/a	2.260	n/a
S95T003289	A		Aluminum -ICP-Acid Digest	ug/g	86.00	<5.00e-02	42.30	33.30	37.80	23.8	n/a	11.30	n/a
S95T003289	A		Arsenic -ICP-Acid Digest	ug/g	86.40	<1.00e-01	<2.26e+01	<2.34e1	n/a	n/a	n/a	22.60	n/a
S95T003289	A		Boron -ICP-Acid Digest	ug/g	86.80	2.83e-01	79.40	50.10	64.75	45.3	n/a	11.30	n/a
S95T003289	A		Barium -ICP-Acid Digest	ug/g	86.80	<5.00e-02	42.50	42.70	42.60	0.47	n/a	11.30	n/a
S95T003289	A		Beryllium -ICP-Acid Digest	ug/g	101.2	<5.00e-03	<1.13e+00	<1.17e0	n/a	n/a	n/a	1.130	n/a
S95T003289	A		Bismuth -ICP-Acid Digest	ug/g	83.80	<1.00e-01	4.15e+04	4.17e+04	4.16e+04	0.48	n/a	22.60	n/a
S95T003289	A		Calcium -ICP-Acid Digest	ug/g	84.40	<1.00e-01	175.0	218.0	196.5	21.9	n/a	22.60	n/a
S95T003289	A		Cadmium -ICP-Acid Digest	ug/g	83.00	<5.00e-03	<1.13e+00	<1.17e0	n/a	n/a	n/a	1.130	n/a
S95T003289	A		Cerium -ICP-Acid Digest	ug/g	89.80	<1.00e-01	43.00	41.50	42.25	3.55	n/a	22.60	n/a
S95T003289	A		Cobalt -ICP-Acid Digest	ug/g	85.40	<2.00e-02	<4.51e+00	<4.68e0	n/a	n/a	n/a	4.510	n/a
S95T003289	A		Chromium -ICP-Acid Digest	ug/g	85.80	<1.00e-02	2.92e+03	2.91e+03	2.92e+03	0.34	n/a	2.260	n/a
S95T003289	A		Copper -ICP-Acid Digest	ug/g	87.20	1.020	3.010	4.590	3.800	41.6	n/a	2.260	n/a
S95T003289	A		Iron -ICP-Acid Digest	ug/g	87.80	<5.00e-02	2.71e+03	2.71e+03	2.71e+03	0.00	n/a	11.30	n/a
S95T003289	A		Potassium -ICP-Acid Digest	ug/g	90.20	<5.00e-01	5.83e+03	5.85e+03	5.84e+03	0.34	n/a	113.0	n/a
S95T003289	A		Lanthanum -ICP-Acid Digest	ug/g	88.60	<5.00e-02	1.10e+04	1.11e+04	1.10e+04	0.90	n/a	11.30	n/a
S95T003289	A		Lithium -ICP-Acid Digest	ug/g	89.40	<1.00e-02	61.30	61.80	61.55	0.81	n/a	2.260	n/a
S95T003289	A		Magnesium -ICP-Acid Digest	ug/g	82.60	<1.00e-02	27.20	29.70	28.45	8.79	n/a	22.60	n/a
S95T003289	A		Manganese -ICP-Acid Digest	ug/g	83.00	<1.00e-02	1.41e+04	1.42e+04	1.42e+04	0.71	n/a	2.260	n/a
S95T003289	A		Molybdenum -ICP-Acid Digest	ug/g	86.40	<5.00e-02	<1.13e+01	<1.17e1	n/a	n/a	n/a	11.30	n/a
S95T003289	A		Sodium -ICP-Acid Digest	ug/g	91.00	3.25e-01	2.83e+04	2.71e+04	2.77e+04	4.33	n/a	22.60	n/a
S95T003289	A		Neodymium -ICP-Acid Digest	ug/g	87.00	<1.00e-01	<2.26e+01	<2.34e1	n/a	n/a	n/a	22.60	n/a
S95T003289	A		Nickel -ICP-Acid Digest	ug/g	84.40	<2.00e-02	144.0	145.0	144.5	0.69	n/a	4.510	n/a
S95T003289	A		Phosphorus -ICP-Acid Digest	ug/g	87.00	<2.00e-01	2.57e+03	2.52e+03	2.54e+03	1.96	n/a	45.10	n/a
S95T003289	A		Lead -ICP-Acid Digest	ug/g	82.00	<1.00e-01	<2.26e+01	<2.34e1	n/a	n/a	n/a	22.60	n/a
S95T003289	A		Sulfur -ICP-Acid Digest	ug/g	83.60	<1.00e-01	98.70	109.0	103.8	9.92	n/a	22.60	n/a
S95T003289	A		Antimony -ICP-Acid Digest	ug/g	79.60	<6.00e-02	<1.35e+01	<1.40e1	n/a	n/a	n/a	13.50	n/a
S95T003289	A		Selenium -ICP-Acid Digest	ug/g	85.80	<1.00e-01	<2.26e+01	<2.34e1	n/a	n/a	n/a	22.60	n/a
S95T003289	A		Silicon -ICP-Acid Digest	ug/g	106.6	7.820	897.0	953.0	925.0	6.05	n/a	11.30	n/a
S95T003289	A		Samarium -ICP-Acid Digest	ug/g	86.20	<1.00e-01	<2.26e+01	<2.34e1	n/a	n/a	n/a	22.60	n/a
S95T003289	A		Strontium -ICP-Acid Digest	ug/g	87.00	<1.00e-02	472.0	477.0	474.5	1.05	n/a	2.260	n/a
S95T003289	A		Titanium-ICP-Acid Digest	ug/g	85.20	<1.00e-02	4.050	3.780	3.915	6.90	n/a	2.260	n/a
S95T003289	A		Thallium -ICP-Acid Digest	ug/g	81.60	<2.00e-01	<4.51e+01	<4.68e1	n/a	n/a	n/a	45.10	n/a
S95T003289	A		Uranium -ICP-Acid Digest	ug/g	84.50	<5.00e-01	<1.13e+02	<1.17e2	n/a	n/a	n/a	113.0	n/a
S95T003289	A		Vanadium -ICP-Acid Digest	ug/g	84.40	<5.00e-02	<1.13e+01	<1.17e1	n/a	n/a	n/a	11.30	n/a
S95T003289	A		Zinc -ICP-Acid Digest	ug/g	80.60	<1.00e-02	6.740	22.30	14.52	107	n/a	2.260	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003289	A	Zirconium - ICP-Acid Digest	ug/g	85.60	<1.00e-02	4.100	<2.34e0	n/a	n/a	n/a	2.260	n/a
S95T003315	W	Bromide by Ion Chromatograph	ug/g	94.96	<1.26e-01	1.63e+03	1.58e+03	1.61e+03	3.12	n/a	267.3	n/a
S95T003315	W	Chloride-IC-Dionex 4000i/4500	ug/g	91.01	<1.70e-02	660.8	605.0	632.9	8.85	n/a	36.08	n/a
S95T003315	W	Fluoride-IC-Dionex 4000i/4500	ug/g	97.80	<1.30e-02	5.83e+03	5.86e+03	5.84e+03	0.51	n/a	27.57	n/a
S95T003315	W	Nitrite-IC - Dionex 4000i/4500	ug/g	96.83	<1.07e-01	1.08e+03	1.07e+03	1.07e+03	0.93	n/a	227.0	n/a
S95T003315	W	Nitrate by IC - Dionex 4000i	ug/g	93.65	4.53e-01	4.25e+04	4.30e+04	4.27e+04	1.17	n/a	297.0	n/a
S95T003315	W	Oxalate by IC - Dionex 4000i	ug/g	92.57	4.00e-01	2.17e+03	2.04e+03	2.11e+03	6.18	n/a	222.8	n/a
S95T003315	W	Phosphate-IC-Dionex 4000i/4500	ug/g	91.39	<1.19e-01	4.21e+03	4.36e+03	4.29e+03	3.50	n/a	252.5	n/a
S95T003315	W	Sulfate by IC-Dionex4000i/4500	ug/g	94.14	<1.36e-01	1.14e+03	1.04e+03	1.09e+03	9.17	n/a	288.5	n/a
S95T003337	F	Alpha of Digested Solid	UCI/g	98.96	<2.96e-03	1.94e-01	1.82e-01	1.88e-01	6.38	93.62	6.68e-03	7.78e+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 114
SEGMENT #: 6

SEGMENT PORTION: U Upper Half of Segment

Sample#	R#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95I003210		Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.100	1.145	7.86	n/a	5.00e-01	n/a
S95I003264		% Water by IGA using Mettler	%	100.5	n/a	78.08	74.93	76.50	4.12	n/a	n/a	n/a
S95I003264		DSC Exotherm Dry Calculated	Joules/g DRY	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95I003264		DSC Exotherm using Mettler	Joules/g	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95I003290	A	Silver - ICP-Acid Digest	ug/g	82.50	<1.00e-02	<2.26e+00	<1.98e0	n/a	n/a	n/a	2.260	n/a
S95I003290	A	Aluminum - ICP-Acid Digest	ug/g	86.00	<5.00e-02	35.70	43.70	39.70	20.2	n/a	11.30	n/a
S95I003290	A	Arsenic - ICP-Acid Digest	ug/g	86.40	<1.00e-01	<2.26e+01	<1.98e1	n/a	n/a	n/a	22.60	n/a
S95I003290	A	Boron - ICP-Acid Digest	ug/g	86.80	2.83e-01	52.50	105.0	78.75	66.7	n/a	11.30	n/a
S95I003290	A	Barium - ICP-Acid Digest	ug/g	86.80	<5.00e-02	82.60	74.60	78.60	10.2	n/a	11.30	n/a
S95I003290	A	Beryllium - ICP-Acid Digest	ug/g	101.2	<5.00e-03	<1.13e+00	<9.90e-1	n/a	n/a	n/a	1.130	n/a
S95I003290	A	Bismuth - ICP-Acid Digest	ug/g	83.80	<1.00e-01	4.46e+04	4.01e+04	4.24e+04	10.6	n/a	22.60	n/a
S95I003290	A	Calcium - ICP-Acid Digest	ug/g	84.40	<1.00e-01	135.0	131.0	133.0	3.01	n/a	22.60	n/a
S95I003290	A	Cadmium - ICP-Acid Digest	ug/g	83.00	<5.00e-03	1.280	1.390	1.335	8.24	n/a	1.130	n/a
S95I003290	A	Cerium - ICP-Acid Digest	ug/g	89.80	<1.00e-01	42.90	39.50	41.20	8.25	n/a	22.60	n/a
S95I003290	A	Cobalt - ICP-Acid Digest	ug/g	85.40	<2.00e-02	<4.52e+00	<3.96e0	n/a	n/a	n/a	4.520	n/a
S95I003290	A	Chromium - ICP-Acid Digest	ug/g	85.80	<1.00e-02	3.10e+03	2.82e+03	2.96e+03	9.46	n/a	2.260	n/a
S95I003290	A	Copper - ICP-Acid Digest	ug/g	87.20	1.020	4.020	<1.98e0	n/a	n/a	n/a	2.260	n/a
S95I003290	A	Iron - ICP-Acid Digest	ug/g	87.80	<5.00e-02	3.18e+03	2.87e+03	3.02e+03	10.2	n/a	11.30	n/a
S95I003290	A	Potassium - ICP-Acid Digest	ug/g	90.20	<5.00e-01	6.11e+03	5.85e+03	5.98e+03	4.35	n/a	113.0	n/a
S95I003290	A	Lanthanum - ICP-Acid Digest	ug/g	88.60	<5.00e-02	1.02e+04	9.06e+03	9.63e+03	11.8	n/a	11.30	n/a
S95I003290	A	Lithium - ICP-Acid Digest	ug/g	89.40	<1.00e-02	107.0	103.0	105.0	3.81	n/a	2.260	n/a
S95I003290	A	Magnesium - ICP-Acid Digest	ug/g	82.60	<1.00e-01	43.40	35.30	39.35	20.6	n/a	22.60	n/a
S95I003290	A	Manganese - ICP-Acid Digest	ug/g	83.00	<1.00e-02	1.50e+04	1.38e+04	1.44e+04	8.33	n/a	2.260	n/a
S95I003290	A	Molybdenum - ICP-Acid Digest	ug/g	86.40	<5.00e-02	<1.13e+01	<9.90e0	n/a	n/a	n/a	11.30	n/a
S95I003290	A	Sodium - ICP-Acid Digest	ug/g	91.00	3.25e-01	2.93e+04	2.79e+04	2.86e+04	4.90	n/a	22.60	n/a
S95I003290	A	Neodymium - ICP-Acid Digest	ug/g	87.00	<1.00e-01	<2.26e+01	<1.98e1	n/a	n/a	n/a	22.60	n/a
S95I003290	A	Nickel - ICP-Acid Digest	ug/g	84.40	<2.00e-02	171.0	157.0	164.0	8.54	n/a	4.520	n/a
S95I003290	A	Phosphorus - ICP-Acid Digest	ug/g	87.00	<1.00e-01	2.67e+03	2.38e+03	2.52e+03	11.5	n/a	45.20	n/a
S95I003290	A	Lead - ICP-Acid Digest	ug/g	82.00	<1.00e-01	<2.26e+01	<1.98e1	n/a	n/a	n/a	22.60	n/a
S95I003290	A	Sulfur - ICP-Acid Digest	ug/g	83.60	<1.00e-01	115.0	87.40	101.2	27.3	n/a	22.60	n/a
S95I003290	A	Antimony - ICP-Acid Digest	ug/g	79.60	<6.00e-02	<1.36e+01	<1.19e1	n/a	n/a	n/a	13.60	n/a
S95I003290	A	Selenium - ICP-Acid Digest	ug/g	85.80	<1.00e-01	<2.26e+01	<1.98e1	n/a	n/a	n/a	22.60	n/a
S95I003290	A	Silicon - ICP-Acid Digest	ug/g	106.6	7.820	865.0	992.0	928.5	13.7	n/a	11.30	n/a
S95I003290	A	Samarium - ICP-Acid Digest	ug/g	86.20	<1.00e-01	<2.26e+01	<1.98e1	n/a	n/a	n/a	22.60	n/a
S95I003290	A	Strontium - ICP-Acid Digest	ug/g	87.00	<1.00e-02	542.0	490.0	516.0	10.1	n/a	2.260	n/a
S95I003290	A	Titanium - ICP-Acid Digest	ug/g	85.20	<1.00e-02	3.930	3.790	3.860	3.63	n/a	45.20	n/a
S95I003290	A	Thallium - ICP-Acid Digest	ug/g	81.60	<2.00e-01	<4.52e+01	<3.96e1	n/a	n/a	n/a	2.260	n/a
S95I003290	A	Uranium - ICP-Acid Digest	ug/g	84.50	<5.00e-01	<1.13e+02	<9.90e1	n/a	n/a	n/a	113.0	n/a
S95I003290	A	Vanadium - ICP-Acid Digest	ug/g	84.40	<5.00e-02	<1.13e+01	<9.90e0	n/a	n/a	n/a	11.30	n/a
S95I003290	A	Zinc - ICP-Acid Digest	ug/g	80.60	<1.00e-02	12.40	11.60	12.00	6.67	n/a	2.260	n/a
S95I003290	W	Zirconium - ICP-Acid Digest	ug/g	85.60	<1.00e-02	<2.26e+00	<1.98e0	n/a	n/a	n/a	2.260	n/a
S95I003316	W	Bromide by Ion Chromatograph	ug/g	96.52	<1.26e-01	2.08e+03	2.15e+03	2.12e+03	3.31	95.49	272.9	n/a
S95I003316	W	Chloride-IC-Tonex 40001/4500	ug/g	101.9	<1.70e-02	587.9	572.0	580.0	2.76	102.5	36.81	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003316	W	Fluoride-IC-Dionex 4000i/4500	ug/g	99.32	<1.30e-02	6.37e+03	6.08e+03	6.23e+03	4.66	72.30	28.16	n/a
S95T003316	W	Nitrite-IC - Dionex 4000i/4500	ug/g	98.13	<1.07e-01	1.08e+03	1.07e+03	1.08e+03	0.93	94.70	231.7	n/a
S95T003316	W	Nitrate by IC - Dionex 4000i/4500	ug/g	97.39	4.95e-01	4.70e+04	4.55e+04	4.63e+04	3.24	96.07	303.2	n/a
S95T003316	W	Oxalate by IC - Dionex 4000i	ug/g	98.48	<1.05e-01	2.45e+03	2.18e+03	2.31e+03	11.7	99.30	227.4	n/a
S95T003316	W	Phosphate-IC-Dionex 4000i/4500	ug/g	98.35	<1.19e-01	4.50e+03	4.59e+03	4.55e+03	1.98	102.9	257.7	n/a
S95T003316	W	Sulfate by IC-Dionex 4000i/4500	ug/g	97.31	<1.36e-01	1.20e+03	1.16e+03	1.18e+03	3.39	95.40	294.5	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003211		Bulk Density of Sample	g/mL		n/a	1.120	1.240	1.180	10.2	n/a	5.00e-01	n/a
S95T003265		% Water by IGA using Mettler	%	100.5	n/a	82.78	81.74	82.26	1.26	n/a	n/a	n/a
S95T003265		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003265		DSC Exotherm using Mettler	Joules/g	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003291	A	Silver - ICP-Acid Digest	ug/g	82.50	<1.00e-02	<3.44e+00	<4.25e0	n/a	n/a	n/a	3.440	n/a
S95T003291	A	Aluminum - ICP-Acid Digest	ug/g	86.00	<5.00e-02	28.20	33.10	30.65	16.0	n/a	17.20	n/a
S95T003291	A	Arsenic - ICP-Acid Digest	ug/g	86.40	<1.00e-01	<3.44e+01	<4.25e1	n/a	n/a	n/a	34.40	n/a
S95T003291	A	Boron - ICP-Acid Digest	ug/g	86.80	2.83e-01	49.40	59.30	54.35	18.2	n/a	17.20	n/a
S95T003291	A	Barium - ICP-Acid Digest	ug/g	86.80	<5.00e-02	43.40	42.50	42.95	2.10	n/a	17.20	n/a
S95T003291	A	Beryllium - ICP-Acid Digest	ug/g	101.2	<5.00e-02	<1.72e+00	<2.13e0	n/a	n/a	n/a	1.720	n/a
S95T003291	A	Bismuth - ICP-Acid Digest	ug/g	83.80	<1.00e-01	4.75e+04	4.04e+04	4.70e+04	2.34	n/a	34.40	n/a
S95T003291	A	Calcium - ICP-Acid Digest	ug/g	84.40	<1.00e-01	97.80	96.10	96.95	1.75	n/a	34.40	n/a
S95T003291	A	Cadmium - ICP-Acid Digest	ug/g	83.00	<5.00e-03	<1.72e+00	<2.13e0	n/a	n/a	n/a	1.720	n/a
S95T003291	A	Cerium - ICP-Acid Digest	ug/g	89.80	<1.00e-01	<3.44e+01	<4.25e1	n/a	n/a	n/a	34.40	n/a
S95T003291	A	Cobalt - ICP-Acid Digest	ug/g	85.40	<2.00e-02	<6.87e+00	<8.50e0	n/a	n/a	n/a	6.870	n/a
S95T003291	A	Chromium - ICP-Acid Digest	ug/g	85.80	<1.00e-02	3.25e+03	3.22e+03	3.24e+03	0.93	n/a	3.440	n/a
S95T003291	A	Copper - ICP-Acid Digest	ug/g	87.20	1.020	<3.44e+00	<4.25e0	n/a	n/a	n/a	3.440	n/a
S95T003291	A	Iron - ICP-Acid Digest	ug/g	87.80	<5.00e-02	2.99e+03	2.92e+03	2.96e+03	2.37	n/a	17.20	n/a
S95T003291	A	Potassium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	5.75e+03	5.70e+03	5.72e+03	0.87	n/a	172.0	n/a
S95T003291	A	Lanthanum - ICP-Acid Digest	ug/g	88.60	<5.00e-02	7.70e+03	7.44e+03	7.57e+03	3.43	n/a	17.20	n/a
S95T003291	A	Lithium - ICP-Acid Digest	ug/g	89.40	<1.00e-02	38.40	37.60	38.00	2.11	n/a	3.440	n/a
S95T003291	A	Magnesium - ICP-Acid Digest	ug/g	82.60	<1.00e-01	<3.44e+01	<4.25e1	n/a	n/a	n/a	34.40	n/a
S95T003291	A	Manganese - ICP-Acid Digest	ug/g	83.00	<1.00e-02	1.27e+04	1.22e+04	1.24e+04	4.02	n/a	3.440	n/a
S95T003291	A	Molybdenum - ICP-Acid Digest	ug/g	86.40	<5.00e-02	<1.72e+01	<2.13e1	n/a	n/a	n/a	17.20	n/a
S95T003291	A	Sodium - ICP-Acid Digest	ug/g	91.00	3.25e-01	2.71e+04	2.73e+04	2.72e+04	0.74	n/a	34.40	n/a
S95T003291	A	Neodymium - ICP-Acid Digest	ug/g	87.00	<1.00e-01	<3.44e+01	<4.25e1	n/a	n/a	n/a	34.40	n/a
S95T003291	A	Nickel - ICP-Acid Digest	ug/g	84.40	<2.00e-02	155.0	152.0	153.5	1.95	n/a	6.870	n/a
S95T003291	A	Phosphorus - ICP-Acid Digest	ug/g	87.00	<2.00e-01	2.30e+03	2.30e+03	2.30e+03	0.00	n/a	68.70	n/a
S95T003291	A	Lead - ICP-Acid Digest	ug/g	82.00	<1.00e-01	<3.44e+01	<4.25e1	n/a	n/a	n/a	34.40	n/a
S95T003291	A	Sulfur - ICP-Acid Digest	ug/g	83.60	<1.00e-02	76.40	85.40	80.90	11.1	n/a	34.40	n/a
S95T003291	A	Antimony - ICP-Acid Digest	ug/g	79.60	<6.00e-02	<2.06e+01	<2.55e1	n/a	n/a	n/a	20.60	n/a
S95T003291	A	Selenium - ICP-Acid Digest	ug/g	85.80	<1.00e-01	<3.44e+01	<4.25e1	n/a	n/a	n/a	34.40	n/a
S95T003291	A	Silicon - ICP-Acid Digest	ug/g	106.6	7.820	573.0	764.0	668.5	28.6	n/a	17.20	n/a
S95T003291	A	Samarium - ICP-Acid Digest	ug/g	86.20	<1.00e-01	<3.44e+01	<4.25e1	n/a	n/a	n/a	34.40	n/a
S95T003291	A	Strontium - ICP-Acid Digest	ug/g	87.00	<1.00e-02	552.0	545.0	548.5	1.28	n/a	3.440	n/a
S95T003291	A	Titanium - ICP-Acid Digest	ug/g	85.20	<1.00e-02	3.760	<4.25e0	n/a	n/a	n/a	3.440	n/a
S95T003291	A	Thallium - ICP-Acid Digest	ug/g	81.60	<2.00e-01	<6.87e+01	<8.50e1	n/a	n/a	n/a	68.70	n/a
S95T003291	A	Uranium - ICP-Acid Digest	ug/g	84.50	<5.00e-01	<1.72e+02	<2.13e2	n/a	n/a	n/a	172.0	n/a
S95T003291	A	Vanadium - ICP-Acid Digest	ug/g	84.40	<5.00e-02	<1.72e+01	<2.13e1	n/a	n/a	n/a	17.20	n/a
S95T003291	A	Zinc - ICP-Acid Digest	ug/g	80.60	<1.00e-02	11.20	8.810	10.00	23.9	n/a	3.440	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003291	A		Zirconium -ICP-Acid Digest	ug/g	85.60	<1.00e-02	<3.44e+00	<4.25e0	n/a	n/a	n/a	3.440	n/a
S95T003317	W		Bromide by Ion Chromatograph	ug/g	96.52	<1.26e-01	1.58e+03	1.51e+03	1.55e+03	4.53	n/a	288.1	n/a
S95T003317	W		Chloride-IC-Dionex 4000i/4500	ug/g	101.9	<1.70e-02	728.4	606.0	667.2	18.3	n/a	38.87	n/a
S95T003317	W		Fluoride-IC-Dionex 4000i/4500	ug/g	99.32	<1.30e-02	6.56e+03	6.57e+03	6.57e+03	0.15	n/a	29.74	n/a
S95T003317	W		Nitrite-IC - Dionex 4000i/4500	ug/g	98.13	<1.07e-01	1.16e+03	1.03e+03	1.10e+03	11.9	n/a	244.7	n/a
S95T003317	W		Nitrate by IC-Dionex 4000i/4500	ug/g	97.39	4.95e-01	4.85e+04	4.77e+04	4.81e+04	1.66	n/a	320.1	n/a
S95T003317	W		Oxalate by IC - Dionex 4000i	ug/g	98.48	<1.05e-01	2.45e+03	2.36e+03	2.40e+03	3.74	n/a	240.1	n/a
S95T003317	W		Phosphate-IC-Dionex 4000i/4500	ug/g	98.35	<1.19e-01	4.75e+03	4.55e+03	4.65e+03	4.30	n/a	272.1	n/a
S95T003317	W		Sulfate by IC-Dionex 4000i/4500	ug/g	97.31	<1.36e-01	1.12e+03	1.10e+03	1.11e+03	1.80	n/a	311.0	n/a
S95T003338	F		Alpha of Digested Solid	uCi/g	98.96	<9.27e-03	2.22e-01	1.82e-01	2.02e-01	19.8	89.54	5.83e-03	7.67e+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 114
SEGMENT #: 7

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003212		Bulk Density of Sample	g/mL	n/a	n/a	1.170	1.160	1.165	0.86	n/a	5.00e-01	n/a
S95T003266		% Water by IGA using Mettler	%	100.5	n/a	79.93	76.45	78.19	4.45	n/a	n/a	n/a
S95T003266		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003266		DSC Exotherm using Mettler	Joules/g	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003292	A	Silver - ICP-Acid Digest	ug/g	82.50	<1.00e-02	<2.34e+00	<2.17e0	n/a	n/a	n/a	2.340	n/a
S95T003292	A	Aluminum - ICP-Acid Digest	ug/g	86.00	<5.00e-02	23.20	32.90	28.05	34.6	n/a	11.70	n/a
S95T003292	A	Arsenic - ICP-Acid Digest	ug/g	86.40	<1.00e-01	<2.34e+01	<2.17e1	n/a	n/a	n/a	23.40	n/a
S95T003292	A	Boron - ICP-Acid Digest	ug/g	86.80	2.83e-01	28.50	64.70	46.60	77.7	n/a	11.70	n/a
S95T003292	A	Barium - ICP-Acid Digest	ug/g	86.80	<5.00e-02	44.50	48.60	46.55	8.81	n/a	11.70	n/a
S95T003292	A	Beryllium - ICP-Acid Digest	ug/g	101.2	<5.00e-03	<1.17e+00	<1.09e0	n/a	n/a	n/a	1.170	n/a
S95T003292	A	Bismuth - ICP-Acid Digest	ug/g	83.80	<1.00e-01	4.35e+04	4.75e+04	4.55e+04	8.79	n/a	23.40	n/a
S95T003292	A	Calcium - ICP-Acid Digest	ug/g	84.40	<1.00e-01	113.0	120.0	116.5	6.01	n/a	23.40	n/a
S95T003292	A	Cadmium - ICP-Acid Digest	ug/g	83.00	<5.00e-03	<1.17e+00	<1.09e0	n/a	n/a	n/a	1.170	n/a
S95T003292	A	Cerium - ICP-Acid Digest	ug/g	89.80	<1.00e-01	46.30	49.20	47.75	6.07	n/a	23.40	n/a
S95T003292	A	Cobalt - ICP-Acid Digest	ug/g	85.40	<2.00e-02	<4.68e+00	<4.35e0	n/a	n/a	n/a	4.680	n/a
S95T003292	A	Chromium - ICP-Acid Digest	ug/g	85.80	<1.00e-02	4.13e+03	4.32e+03	4.22e+03	4.50	n/a	2.340	n/a
S95T003292	A	Copper - ICP-Acid Digest	ug/g	87.20	1.020	2.590	<2.17e0	n/a	n/a	n/a	2.340	n/a
S95T003292	A	Iron - ICP-Acid Digest	ug/g	87.80	<5.00e-02	2.90e+03	3.16e+03	3.03e+03	8.58	n/a	11.70	n/a
S95T003292	A	Potassium - ICP-Acid Digest	ug/g	90.20	<5.00e-01	5.41e+03	5.72e+03	5.56e+03	5.57	n/a	117.0	n/a
S95T003292	A	Lanthanum - ICP-Acid Digest	ug/g	88.60	<5.00e-02	9.80e+03	1.04e+04	1.01e+04	5.94	n/a	11.70	n/a
S95T003292	A	Lithium - ICP-Acid Digest	ug/g	89.40	<1.00e-02	15.70	18.00	16.85	13.6	n/a	2.340	n/a
S95T003292	A	Magnesium - ICP-Acid Digest	ug/g	82.60	<1.00e-01	29.20	32.30	30.75	10.1	n/a	23.40	n/a
S95T003292	A	Manganese - ICP-Acid Digest	ug/g	83.00	<1.00e-02	1.49e+04	1.68e+04	1.58e+04	12.0	n/a	2.340	n/a
S95T003292	A	Molybdenum - ICP-Acid Digest	ug/g	86.40	<5.00e-02	<1.17e+01	<1.09e1	n/a	n/a	n/a	11.70	n/a
S95T003292	A	Sodium - ICP-Acid Digest	ug/g	91.00	3.25e-01	2.55e+04	2.70e+04	2.62e+04	5.71	n/a	23.40	n/a
S95T003292	A	Neodymium - ICP-Acid Digest	ug/g	87.00	<1.00e-01	<2.34e+01	<2.17e1	n/a	n/a	n/a	23.40	n/a
S95T003292	A	Nickel - ICP-Acid Digest	ug/g	84.40	<2.00e-02	170.0	186.0	178.0	8.99	n/a	4.680	n/a
S95T003292	A	Phosphorus - ICP-Acid Digest	ug/g	82.00	<1.00e-01	2.56e+03	2.72e+03	2.64e+03	6.06	n/a	46.80	n/a
S95T003292	A	Lead - ICP-Acid Digest	ug/g	83.60	<1.00e-01	<2.34e+01	<2.17e1	n/a	n/a	n/a	23.40	n/a
S95T003292	A	Sulfur - ICP-Acid Digest	ug/g	83.60	<1.00e-01	77.10	76.20	76.65	1.17	n/a	23.40	n/a
S95T003292	A	Antimony - ICP-Acid Digest	ug/g	79.60	<6.00e-02	<1.41e+01	<1.30e1	n/a	n/a	n/a	14.10	n/a
S95T003292	A	Selenium - ICP-Acid Digest	ug/g	85.80	<1.00e-01	<2.34e+01	<2.17e1	n/a	n/a	n/a	23.40	n/a
S95T003292	A	Silicon - ICP-Acid Digest	ug/g	106.6	7.820	521.0	1.07e+03	795.5	69.0	n/a	11.70	n/a
S95T003292	A	Samarium - ICP-Acid Digest	ug/g	86.20	<1.00e-01	<2.34e+01	<2.17e1	n/a	n/a	n/a	23.40	n/a
S95T003292	A	Strontium - ICP-Acid Digest	ug/g	87.00	<1.00e-02	503.0	542.0	522.5	7.46	n/a	2.340	n/a
S95T003292	A	Titanium - ICP-Acid Digest	ug/g	85.20	<1.00e-02	3.860	3.960	3.910	2.56	n/a	2.340	n/a
S95T003292	A	Thallium - ICP-Acid Digest	ug/g	81.60	<2.00e-01	<4.68e+01	<4.35e1	n/a	n/a	n/a	46.80	n/a
S95T003292	A	Uranium - ICP-Acid Digest	ug/g	84.50	<5.00e-01	<1.17e+02	<1.09e2	n/a	n/a	n/a	117.0	n/a
S95T003292	A	Vanadium - ICP-Acid Digest	ug/g	84.40	<5.00e-02	<1.17e+01	<1.09e1	n/a	n/a	n/a	11.70	n/a
S95T003292	A	Zinc - ICP-Acid Digest	ug/g	80.60	<1.00e-02	7.060	7.310	7.185	3.48	n/a	2.340	n/a
S95T003292	A	Zirconium - ICP-Acid Digest	ug/g	85.60	<1.00e-02	<2.34e+00	<2.17e0	n/a	n/a	n/a	2.340	n/a
S95T003318	W	Bromide by Ion Chromatograph	ug/g	103.1	<1.26e-01	294.0	315.0	304.5	6.90	100.0	261.2	n/a
S95T003318	W	Chloride-IC-Dionex 4000i/4500	ug/g	95.57	<1.70e-02	863.8	651.0	757.4	28.1	69.93	35.24	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003318		W	Fluoride-IC-Dionex 4000i/4500	ug/g	106.8	<1.30e-02	5.72e+03	6.68e+03	6.20e+03	15.5	115.3	26.94	n/a
S95T003318		W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.9	<1.07e-01	359.2	397.0	378.1	10.1	98.28	221.8	n/a
S95T003318		W	Nitrate by IC-Dionex 4000i/4500	ug/g	103.4	1.64e-01	4.47e+04	5.24e+04	4.85e+04	15.9	104.3	290.2	n/a
S95T003318		W	Oxalate by IC - Dionex 4000i	ug/g	105.3	<1.05e-01	1.53e+03	1.84e+03	1.69e+03	18.4	104.5	217.6	n/a
S95T003318		W	Phosphate-IC-Dionex 4000i/4500	ug/g	103.7	<1.19e-01	2.94e+03	4.00e+03	3.47e+03	30.5	99.01	246.7	n/a
S95T003318		W	Sulfate by IC-Dionex 4000i/4500	ug/g	103.5	1.58e-01	511.6	484.0	497.8	5.62	98.90	281.9	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003213			Bulk Density of Sample	g/mL	n/a	n/a	1.180	1.150	1.165	2.58	n/a	5.00e-01	n/a
S95T003267			% Water by IGA using Mettler	%	100.4	n/a	81.30	81.18	81.24	0.15	n/a	n/a	n/a
S95T003267			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003267			DSC Exotherm using Mettler	Joules/g	92.09	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003293		A	Silver -ICP-Acid Digest	ug/g	90.40	<1.00e-02	<2.16e+00	<1.94e0	38.35	n/a	96.00	2.150	n/a
S95T003293		A	Aluminum -ICP-Acid Digest	ug/g	97.60	<5.00e-02	48.00	28.70	38.35	50.3	97.14	10.80	n/a
S95T003293		A	Arsenic -ICP-Acid Digest	ug/g	93.00	<1.00e-01	<2.16e+01	<1.94e1	n/a	n/a	98.40	21.60	n/a
S95T003293		A	Boron -ICP-Acid Digest	ug/g	106.8	3.03e-01	137.0	41.30	89.15	107	95.52	10.80	n/a
S95T003293		A	Barium -ICP-Acid Digest	ug/g	92.40	<5.00e-02	28.50	26.70	27.60	6.52	96.76	10.80	n/a
S95T003293		A	Beryllium -ICP-Acid Digest	ug/g	98.60	<5.00e-03	<1.08e+00	<9.69e-1	n/a	n/a	101.2	1.080	n/a
S95T003293		A	Bismuth -ICP-Acid Digest	ug/g	90.20	<1.00e-01	3.84e+04	3.62e+04	3.73e+04	5.90	1.44e+03	21.60	n/a
S95T003293		A	Calcium -ICP-Acid Digest	ug/g	97.20	<1.00e-01	134.0	114.0	124.0	16.1	97.76	21.60	n/a
S95T003293		A	Cadmium -ICP-Acid Digest	ug/g	89.40	<5.00e-03	<1.08e+00	<9.69e-1	n/a	n/a	93.00	1.080	n/a
S95T003293		A	Cerium -ICP-Acid Digest	ug/g	95.00	<1.00e-01	44.10	36.80	40.45	18.0	99.12	2.160	n/a
S95T003293		A	Cobalt -ICP-Acid Digest	ug/g	91.00	<2.00e-02	<4.31e+00	<3.88e0	3.42e+03	9.94	94.80	4.310	n/a
S95T003293		A	Chromium -ICP-Acid Digest	ug/g	92.00	<1.00e-02	3.59e+03	3.25e+03	3.42e+03	9.94	141.3	2.150	n/a
S95T003293		A	Copper -ICP-Acid Digest	ug/g	91.20	<1.00e-02	<2.16e+00	2.790	n/a	n/a	94.20	2.150	n/a
S95T003293		A	Iron -ICP-Acid Digest	ug/g	94.80	<5.00e-02	2.75e+03	2.56e+03	2.66e+03	7.16	142.7	10.80	n/a
S95T003293		A	Potassium -ICP-Acid Digest	ug/g	87.00	<5.00e-01	6.16e+03	5.63e+03	5.90e+03	8.99	156.0	108.0	n/a
S95T003293		A	Lanthanum -ICP-Acid Digest	ug/g	94.20	<5.00e-02	9.90e+03	8.51e+03	9.20e+03	15.1	355.1	10.80	n/a
S95T003293		A	Lithium -ICP-Acid Digest	ug/g	93.20	<1.00e-02	17.20	16.20	16.70	5.99	95.80	2.150	n/a
S95T003293		A	Magnesium -ICP-Acid Digest	ug/g	90.00	<1.00e-01	34.30	32.00	33.15	6.94	93.42	21.60	n/a
S95T003293		A	Manganese -ICP-Acid Digest	ug/g	89.00	<1.00e-02	1.53e+04	1.31e+04	1.42e+04	15.5	552.1	2.150	n/a
S95T003293		A	Molybdenum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.08e+01	<9.69e0	n/a	n/a	95.40	10.80	n/a
S95T003293		A	Sodium -ICP-Acid Digest	ug/g	119.0	3.97e-01	3.04e+04	2.75e+04	2.90e+04	10.0	412.7	21.60	n/a
S95T003293		A	Neodymium -ICP-Acid Digest	ug/g	92.00	<1.00e-01	<2.16e+01	<1.94e1	n/a	n/a	95.20	21.60	n/a
S95T003293		A	Nickel -ICP-Acid Digest	ug/g	91.60	<2.00e-02	148.0	136.0	142.0	8.45	96.62	4.310	n/a
S95T003293		A	Phosphorus -ICP-Acid Digest	ug/g	94.00	<2.00e-01	2.43e+03	2.17e+03	2.30e+03	11.3	144.8	43.10	n/a
S95T003293		A	Lead -ICP-Acid Digest	ug/g	87.60	<1.00e-01	<2.16e+01	<1.94e1	n/a	n/a	91.20	21.60	n/a
S95T003293		A	Sulfur -ICP-Acid Digest	ug/g	87.20	<1.00e-01	67.50	56.30	61.90	18.1	92.14	21.60	n/a
S95T003293		A	Antimony -ICP-Acid Digest	ug/g	84.80	<6.00e-02	<1.29e+01	<1.16e1	n/a	n/a	87.80	12.90	n/a
S95T003293		A	Selenium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	<2.16e+01	20.90	n/a	n/a	94.40	21.60	n/a
S95T003293		A	Silicon -ICP-Acid Digest	ug/g	236.0	7.250	810.0	566.0	688.0	35.5	17.96	10.80	n/a
S95T003293		A	Samarium -ICP-Acid Digest	ug/g	91.80	<1.00e-01	<2.16e+01	<1.94e1	n/a	n/a	94.40	21.60	n/a
S95T003293		A	Strontium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	321.0	291.0	306.0	9.80	101.5	2.150	n/a
S95T003293		A	Titanium-ICP-Acid Digest	ug/g	90.20	<1.00e-02	3.290	3.110	3.200	5.63	93.30	2.150	n/a
S95T003293		A	Thallium -ICP-Acid Digest	ug/g	87.60	<2.00e-01	<4.31e+01	<3.88e1	n/a	n/a	88.20	43.10	n/a
S95T003293		A	Uranium -ICP-Acid Digest	ug/g	89.70	<5.00e-01	<1.08e+02	<9.69e1	n/a	n/a	93.50	108.0	n/a
S95T003293		A	Vanadium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<1.08e+01	<9.69e0	n/a	n/a	94.40	10.80	n/a
S95T003293		A	Zinc -ICP-Acid Digest	ug/g	86.20	<1.00e-02	13.50	9.850	11.68	31.3	90.34	2.150	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003319	A		Zirconium -ICP-Acid Digest	ug/g	90.40	<1.00e-02	<2.16e+00	<1.94e0	n/a	n/a	93.80	2.150	n/a
S95T003319	W		Bromide by Ion Chromatograph	ug/g	103.1	<1.26e-01	567.7	564.0	565.9	0.71	n/a	373.4	n/a
S95T003319	W		Chloride-IC-Dionex 4000i/4500	ug/g	95.57	<1.70e-02	673.3	1.02e+03	846.6	41.0	n/a	50.38	n/a
S95T003319	W		Fluoride-IC-Dionex 4000i/4500	ug/g	106.8	<1.30e-02	6.96e+03	6.98e+03	6.97e+03	0.29	n/a	38.51	n/a
S95T003319	W		Nitrite-IC - Dionex 4000i/4500	ug/g	100.9	<1.07e-01	478.3	466.0	472.1	2.54	n/a	317.1	n/a
S95T003319	W		Nitrate by IC-Dionex4000i/4500	ug/g	103.4	1.64e-01	5.24e+04	5.35e+04	5.30e+04	2.08	n/a	414.8	n/a
S95T003319	W		Oxalate by IC - Dionex 4000i	ug/g	105.3	<1.05e-01	1.97e+03	1.94e+03	1.95e+03	1.53	n/a	311.1	n/a
S95T003319	W		Phosphate-IC-Dionex 4000i/4500	ug/g	103.7	<1.19e-01	4.13e+03	4.09e+03	4.11e+03	0.97	n/a	352.6	n/a
S95T003319	W		Sulfate by IC-Dionex4000i/4500	ug/g	103.5	1.58e-01	599.8	714.0	656.9	17.4	n/a	403.0	n/a
S95T003319	F		Alpha of Digested Solid	uCi/g	98.96	<9.27e-03	1.64e-01	1.74e-01	1.69e-01	5.92	86.73	5.77e-03	8.74E+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 114
SEGMENT #: 8

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003214		Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.160	1.175	2.55	n/a	5.00e-01	n/a
S95T003268		% Water by TGA using Mettler	%	100.3	n/a	80.15	79.76	79.96	0.49	n/a	n/a	n/a
S95T003268		DSC Exotherm Dry Calculated	Joules/g DRY	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003268		DSC Exotherm using Mettler	Joules/g	99.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003294	A	Silver - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<2.17e+00	<3.58e0	n/a	n/a	n/a	2.170	n/a
S95T003294	A	Aluminum - ICP-Acid Digest	ug/g	97.60	<5.00e-02	62.10	49.20	55.65	23.2	n/a	10.90	n/a
S95T003294	A	Arsenic - ICP-Acid Digest	ug/g	93.00	<1.00e-01	<2.17e+01	<3.58e1	n/a	n/a	n/a	21.70	n/a
S95T003294	A	Boron - ICP-Acid Digest	ug/g	106.8	3.03e-01	39.90	99.20	69.55	85.3	n/a	10.90	n/a
S95T003294	A	Barium - ICP-Acid Digest	ug/g	92.40	<5.00e-02	440.0	189.0	314.5	79.8	n/a	10.90	n/a
S95T003294	A	Beryllium - ICP-Acid Digest	ug/g	98.60	<5.00e-03	<1.10e+00	<1.79e0	n/a	n/a	n/a	1.090	n/a
S95T003294	A	Bismuth - ICP-Acid Digest	ug/g	90.20	<1.00e-01	4.93e+04	5.25e+04	5.09e+04	6.29	n/a	21.70	n/a
S95T003294	A	Calcium - ICP-Acid Digest	ug/g	97.20	<1.00e-01	190.0	209.0	199.5	9.52	n/a	21.70	n/a
S95T003294	A	Cadmium - ICP-Acid Digest	ug/g	89.40	<5.00e-03	<1.10e+00	<1.79e0	n/a	n/a	n/a	1.090	n/a
S95T003294	A	Cerium - ICP-Acid Digest	ug/g	95.00	<1.00e-01	32.00	<3.58e1	n/a	n/a	n/a	21.70	n/a
S95T003294	A	Cobalt - ICP-Acid Digest	ug/g	91.00	<2.00e-02	<4.34e+00	<7.16e0	n/a	n/a	n/a	4.340	n/a
S95T003294	A	Chromium - ICP-Acid Digest	ug/g	92.00	<1.00e-02	<4.48e+03	4.75e+03	4.62e+03	5.85	n/a	2.170	n/a
S95T003294	A	Copper - ICP-Acid Digest	ug/g	91.20	<1.00e-02	<2.17e+00	<3.58e0	n/a	n/a	n/a	2.170	n/a
S95T003294	A	Iron - ICP-Acid Digest	ug/g	94.80	<5.00e-02	3.85e+03	3.65e+03	3.75e+03	5.33	n/a	10.90	n/a
S95T003294	A	Potassium - ICP-Acid Digest	ug/g	87.00	<5.00e-01	5.52e+03	5.98e+03	5.75e+03	8.00	n/a	109.0	n/a
S95T003294	A	Lanthanum - ICP-Acid Digest	ug/g	94.20	<5.00e-02	9.43e+03	9.62e+03	9.52e+03	1.99	n/a	10.90	n/a
S95T003294	A	Lithium - ICP-Acid Digest	ug/g	93.20	<1.00e-02	23.20	24.00	23.60	3.39	n/a	2.170	n/a
S95T003294	A	Magnesium - ICP-Acid Digest	ug/g	90.00	<1.00e-01	1.24e+03	312.0	776.0	120	n/a	21.70	n/a
S95T003294	A	Manganese - ICP-Acid Digest	ug/g	89.00	<1.00e-02	1.55e+04	1.51e+04	1.53e+04	2.61	n/a	2.170	n/a
S95T003294	A	Molybdenum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.10e+01	<1.79e1	n/a	n/a	n/a	10.90	n/a
S95T003294	A	Sodium - ICP-Acid Digest	ug/g	119.0	3.97e-01	2.71e+04	2.84e+04	2.78e+04	4.68	n/a	21.70	n/a
S95T003294	A	Neodymium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<2.17e+01	<3.58e1	n/a	n/a	n/a	21.70	n/a
S95T003294	A	Nickel - ICP-Acid Digest	ug/g	91.60	<2.00e-02	168.0	177.0	172.5	5.22	n/a	4.340	n/a
S95T003294	A	Phosphorus - ICP-Acid Digest	ug/g	94.00	<2.00e-01	2.52e+03	2.61e+03	2.56e+03	3.51	n/a	43.40	n/a
S95T003294	A	Lead - ICP-Acid Digest	ug/g	87.60	<1.00e-01	<2.17e+01	<3.58e1	n/a	n/a	n/a	21.70	n/a
S95T003294	A	Sulfur - ICP-Acid Digest	ug/g	87.20	<1.00e-01	150.0	130.0	140.0	14.3	n/a	21.70	n/a
S95T003294	A	Antimony - ICP-Acid Digest	ug/g	84.80	<6.00e-02	<1.30e+01	<2.15e1	n/a	n/a	n/a	13.00	n/a
S95T003294	A	Selenium - ICP-Acid Digest	ug/g	90.80	<1.00e-01	<2.17e+01	<3.58e1	n/a	n/a	n/a	21.70	n/a
S95T003294	A	Silicon - ICP-Acid Digest	ug/g	236.0	7.250	1.50e+03	1.17e+03	1.34e+03	24.7	n/a	10.90	n/a
S95T003294	A	Samarium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	<2.17e+01	<3.58e1	n/a	n/a	n/a	21.70	n/a
S95T003294	A	Strontium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	357.0	378.0	367.5	5.71	n/a	2.170	n/a
S95T003294	A	Titanium - ICP-Acid Digest	ug/g	90.20	<1.00e-02	4.680	4.130	4.405	12.5	n/a	2.170	n/a
S95T003294	A	Thallium - ICP-Acid Digest	ug/g	87.60	<2.00e-01	<4.34e+01	<7.16e1	n/a	n/a	n/a	43.40	n/a
S95T003294	A	Uranium - ICP-Acid Digest	ug/g	89.70	<5.00e-01	<1.10e+02	<1.79e2	n/a	n/a	n/a	109.0	n/a
S95T003294	A	Vanadium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<1.10e+01	<1.79e1	n/a	n/a	n/a	10.90	n/a
S95T003294	A	Zinc - ICP-Acid Digest	ug/g	86.20	<1.00e-02	96.50	59.00	77.75	48.2	n/a	2.170	n/a
S95T003294	A	Zirconium - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<2.17e+00	<3.58e0	n/a	n/a	n/a	2.170	n/a
S95T003320	W	Bromide by Ion Chromatograph	ug/g	105.6	<1.26e-01	377.6	379.0	378.3	0.26	n/a	189.6	n/a
S95T003320	W	Chloride-IC-Dianex 40001/4500	ug/g	97.09	<1.70e-02	615.9	604.0	610.0	1.97	96.25	25.58	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003320	W		Fluoride-IC-Dionex 4000i/4500	ug/g	106.8	<1.30e-02	7.01e+03	6.89e+03	6.95e+03	1.73	124.2	28.09	n/a
S95T003320	W		Nitrite-IC - Dionex 4000i/4500	ug/g	97.39	<1.07e-01	292.5	290.0	291.2	0.69	94.14	161.0	n/a
S95T003320	W		Nitrate by IC-Dionex4000i/4500	ug/g	104.7	1.73e-01	5.35e+04	5.35e+04	5.35e+04	0.00	108.9	302.6	n/a
S95T003320	W		Oxalate by IC - Dionex 4000i	ug/g	106.9	<1.05e-01	1.88e+03	1.87e+03	1.87e+03	0.53	105.6	158.0	n/a
S95T003320	W		Phosphate-IC-Dionex 4000i/4500	ug/g	107.0	<1.19e-01	3.92e+03	3.82e+03	3.87e+03	2.58	111.8	179.1	n/a
S95T003320	W		Sulfate by IC-Dionex4000i/4500	ug/g	104.9	<1.36e-01	533.4	469.0	501.2	12.8	101.1	204.7	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003215			Bulk Density of Sample	g/mL	n/a	n/a	1.180	1.170	1.175	0.83	n/a	5.00e-01	n/a
S95T003269			% Water by IGA using Mettler	%	100.3	n/a	79.78	79.12	79.45	0.83	n/a	n/a	n/a
S95T003269			DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003269			DSC Exotherm using Mettler	Joules/g	99.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003295	A		Silver -ICP-Acid Digest	ug/g	90.40	<1.00e-02	18.70	3.850	11.28	132	n/a	2.050	n/a
S95T003295	A		Aluminum -ICP-Acid Digest	ug/g	97.60	<5.00e-02	21.30	35.50	28.40	50.0	n/a	10.30	n/a
S95T003295	A		Arsenic -ICP-Acid Digest	ug/g	93.00	<1.00e-01	<2.05e+01	<2.00e1	n/a	n/a	n/a	20.50	n/a
S95T003295	A		Boron -ICP-Acid Digest	ug/g	106.8	3.03e-01	26.70	59.40	43.05	76.0	n/a	10.30	n/a
S95T003295	A		Barium -ICP-Acid Digest	ug/g	92.40	<5.00e-02	<1.04e+01	<1.00e1	n/a	n/a	n/a	10.30	n/a
S95T003295	A		Beryllium -ICP-Acid Digest	ug/g	98.60	<5.00e-03	<1.04e+00	<1.00e0	n/a	n/a	n/a	1.030	n/a
S95T003295	A		Bismuth -ICP-Acid Digest	ug/g	90.20	<1.00e-01	4.75e+04	4.50e+04	4.62e+04	5.41	n/a	20.50	n/a
S95T003295	A		Calcium -ICP-Acid Digest	ug/g	97.20	<1.00e-01	114.0	117.0	115.5	2.60	n/a	20.50	n/a
S95T003295	A		Cadmium -ICP-Acid Digest	ug/g	89.40	<5.00e-03	1.180	<1.00e0	33.50	5.97	n/a	1.030	n/a
S95T003295	A		Cerium -ICP-Acid Digest	ug/g	95.00	<1.00e-01	32.50	34.50	n/a	n/a	n/a	20.50	n/a
S95T003295	A		Cobalt -ICP-Acid Digest	ug/g	91.00	<2.00e-02	<4.10e+00	<4.00e0	n/a	n/a	n/a	4.100	n/a
S95T003295	A		Chromium -ICP-Acid Digest	ug/g	92.00	<1.00e-02	3.94e+03	3.66e+03	3.80e+03	7.37	n/a	2.050	n/a
S95T003295	A		Copper -ICP-Acid Digest	ug/g	91.20	<1.00e-02	<2.05e+00	2.800	n/a	n/a	n/a	2.050	n/a
S95T003295	A		Iron -ICP-Acid Digest	ug/g	94.80	<5.00e-02	3.11e+03	2.98e+03	3.04e+03	4.27	n/a	10.30	n/a
S95T003295	A		Potassium -ICP-Acid Digest	ug/g	87.00	<5.00e-01	5.52e+03	5.33e+03	5.42e+03	3.50	n/a	103.0	n/a
S95T003295	A		Lanthanum -ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.07e+04	1.04e+04	1.06e+04	2.84	n/a	10.30	n/a
S95T003295	A		Lithium -ICP-Acid Digest	ug/g	93.20	<1.00e-02	24.00	27.00	25.50	11.8	n/a	2.050	n/a
S95T003295	A		Magnesium -ICP-Acid Digest	ug/g	90.00	<1.00e-01	31.30	30.70	31.00	1.94	n/a	20.50	n/a
S95T003295	A		Manganese -ICP-Acid Digest	ug/g	89.00	<1.00e-02	1.68e+04	1.61e+04	1.64e+04	4.26	n/a	2.050	n/a
S95T003295	A		Molybdenum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.04e+01	<1.00e1	n/a	n/a	n/a	10.30	n/a
S95T003295	A		Sodium -ICP-Acid Digest	ug/g	119.0	3.97e-01	2.67e+04	2.58e+04	2.62e+04	3.43	n/a	20.50	n/a
S95T003295	A		Neodymium -ICP-Acid Digest	ug/g	92.00	<1.00e-01	<2.05e+01	<2.00e1	n/a	n/a	n/a	20.50	n/a
S95T003295	A		Nickel -ICP-Acid Digest	ug/g	91.60	<2.00e-02	154.0	147.0	150.5	4.65	n/a	4.100	n/a
S95T003295	A		Phosphorus -ICP-Acid Digest	ug/g	94.00	<2.00e-01	2.38e+03	2.26e+03	2.32e+03	5.17	n/a	41.00	n/a
S95T003295	A		Lead -ICP-Acid Digest	ug/g	87.60	<1.00e-01	<2.05e+01	<2.00e1	n/a	n/a	n/a	20.50	n/a
S95T003295	A		Sulfur -ICP-Acid Digest	ug/g	87.20	<1.00e-01	59.20	66.10	62.65	11.0	n/a	20.50	n/a
S95T003295	A		Antimony -ICP-Acid Digest	ug/g	84.80	<6.00e-02	<1.23e+01	<1.20e1	n/a	n/a	n/a	12.30	n/a
S95T003295	A		Selenium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	21.10	21.50	21.30	1.88	n/a	20.50	n/a
S95T003295	A		Silicon -ICP-Acid Digest	ug/g	236.0	7.250	390.0	781.0	585.5	66.8	n/a	10.30	n/a
S95T003295	A		Samarium -ICP-Acid Digest	ug/g	91.80	<1.00e-01	<2.05e+01	<2.00e1	n/a	n/a	n/a	20.50	n/a
S95T003295	A		Strontium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	113.0	105.0	109.0	7.34	n/a	2.050	n/a
S95T003295	A		Titanium -ICP-Acid Digest	ug/g	90.20	<1.00e-02	3.080	3.000	3.040	2.63	n/a	2.050	n/a
S95T003295	A		Thallium -ICP-Acid Digest	ug/g	87.60	<2.00e-01	<4.10e+01	<4.00e1	n/a	n/a	n/a	41.00	n/a
S95T003295	A		Uranium -ICP-Acid Digest	ug/g	89.70	<5.00e-01	<1.04e+02	<1.00e2	n/a	n/a	n/a	103.0	n/a
S95T003295	A		Vanadium -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<1.04e+01	<1.00e1	n/a	n/a	n/a	10.30	n/a
S95T003295	A		Zinc -ICP-Acid Digest	ug/g	86.20	<1.00e-02	7.860	11.50	9.680	37.6	n/a	2.050	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003295	A		Zirconium - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<2.05e+00	<2.00e0	n/a	n/a	n/a	2.050	n/a
S95T003321	W		Bromide by Ion Chromatograph	ug/g	105.6	<1.26e-01	588.7	585.0	586.9	0.68	n/a	251.5	n/a
S95T003321	W		Chloride-IC-Dionex 4000i/4500	ug/g	97.09	<1.70e-02	678.4	620.0	649.2	8.94	n/a	33.94	n/a
S95T003321	W		Fluoride-IC-Dionex 4000i/4500	ug/g	106.8	<1.30e-02	6.58e+03	6.81e+03	6.70e+03	3.44	n/a	25.95	n/a
S95T003321	W		Nitrite-IC - Dionex 4000i/4500	ug/g	97.39	<1.07e-01	345.0	350.0	347.5	1.44	n/a	213.6	n/a
S95T003321	W		Nitrate by IC-Dionex4000i/4500	ug/g	104.7	1.73e-01	5.22e+04	5.23e+04	5.23e+04	0.19	n/a	279.5	n/a
S95T003321	W		Oxalate by IC - Dionex 4000i	ug/g	106.9	<1.05e-01	1.86e+03	1.85e+03	1.85e+03	0.54	n/a	209.6	n/a
S95T003321	W		Phosphate-IC-Dionex 4000i/4500	ug/g	107.0	<1.19e-01	3.72e+03	3.80e+03	3.76e+03	2.13	n/a	237.6	n/a
S95T003321	W		Sulfate by IC-Dionex4000i/4500	ug/g	104.9	<1.36e-01	423.4	987.0	705.2	80.0	n/a	271.5	n/a
S95T003340	F		Alpha of Digested Solid	uCi/g	103.1	<3.70e-03	2.04e-01	2.42e-01	2.23e-01	17.0	98.72	5.00e-03	7.71E+00

Final Results for Cores 112 and 114
8-204CORE NUMBER: 114
SEGMENT #: 9

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003216		Bulk Density of Sample	g/mL	n/a	n/a	1.180	1.160	1.170	1.71	n/a	5.00e-01	n/a
S95T003270		% Water by IGA using Mettler	%	100.4	n/a	80.08	78.54	79.31	1.94	n/a	n/a	n/a
S95T003270		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003270		DSC Exotherm using Mettler	Joules/g	92.09	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003296	A	Silver - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<4.11e+00	<4.64e0	n/a	n/a	n/a	4.110	n/a
S95T003296	A	Aluminum - ICP-Acid Digest	ug/g	97.60	<5.00e-02	41.10	44.80	42.95	8.61	n/a	20.60	n/a
S95T003296	A	Arsenic - ICP-Acid Digest	ug/g	93.00	<1.00e-01	<4.11e+01	<4.64e1	n/a	n/a	n/a	41.10	n/a
S95T003296	A	Boron - ICP-Acid Digest	ug/g	106.8	3.03e-01	75.00	75.20	75.10	0.27	n/a	20.60	n/a
S95T003296	A	Barium - ICP-Acid Digest	ug/g	92.40	<5.00e-02	<2.07e+01	<2.32e1	n/a	n/a	n/a	20.60	n/a
S95T003296	A	Beryllium - ICP-Acid Digest	ug/g	98.60	<5.00e-03	<2.07e+00	<2.32e0	n/a	n/a	n/a	2.060	n/a
S95T003296	A	Bismuth - ICP-Acid Digest	ug/g	90.20	<1.00e-01	4.33e+04	4.32e+04	4.42e+04	4.75	n/a	41.10	n/a
S95T003296	A	Calcium - ICP-Acid Digest	ug/g	97.20	<1.00e-01	141.0	127.0	134.0	10.4	n/a	41.10	n/a
S95T003296	A	Cadmium - ICP-Acid Digest	ug/g	89.40	<5.00e-03	<2.07e+00	<2.32e0	n/a	n/a	n/a	2.060	n/a
S95T003296	A	Cerium - ICP-Acid Digest	ug/g	95.00	<1.00e-01	49.70	<4.64e1	n/a	n/a	n/a	41.10	n/a
S95T003296	A	Cobalt - ICP-Acid Digest	ug/g	91.00	<2.00e-02	<8.22e+00	<9.29e0	n/a	n/a	n/a	8.220	n/a
S95T003296	A	Chromium - ICP-Acid Digest	ug/g	92.00	<1.00e-02	4.10e+03	3.91e+03	4.00e+03	4.74	n/a	4.110	n/a
S95T003296	A	Copper - ICP-Acid Digest	ug/g	91.20	<1.00e-02	<4.11e+00	<4.64e0	n/a	n/a	n/a	4.110	n/a
S95T003296	A	Iron - ICP-Acid Digest	ug/g	94.80	<5.00e-02	3.62e+03	3.28e+03	3.45e+03	9.85	n/a	20.60	n/a
S95T003296	A	Potassium - ICP-Acid Digest	ug/g	87.00	<5.00e-01	6.18e+03	5.96e+03	6.07e+03	3.62	n/a	206.0	n/a
S95T003296	A	Lanthanum - ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.20e+04	1.14e+04	1.17e+04	5.13	n/a	20.60	n/a
S95T003296	A	Lithium - ICP-Acid Digest	ug/g	93.20	<1.00e-02	40.20	37.40	38.80	7.22	n/a	4.110	n/a
S95T003296	A	Magnesium - ICP-Acid Digest	ug/g	90.00	<1.00e-01	<4.11e+01	<4.64e1	n/a	n/a	n/a	41.10	n/a
S95T003296	A	Manganese - ICP-Acid Digest	ug/g	89.00	<1.00e-02	1.59e+04	1.48e+04	1.54e+04	7.17	n/a	4.110	n/a
S95T003296	A	Molybdenum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<2.07e+01	<2.32e1	n/a	n/a	n/a	20.60	n/a
S95T003296	A	Sodium - ICP-Acid Digest	ug/g	119.0	3.97e-01	2.93e+04	2.81e+04	2.87e+04	4.18	n/a	41.10	n/a
S95T003296	A	Neodymium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<4.11e+01	<4.64e1	n/a	n/a	n/a	41.10	n/a
S95T003296	A	Nickel - ICP-Acid Digest	ug/g	91.60	<2.00e-02	193.0	173.0	183.0	10.9	n/a	8.220	n/a
S95T003296	A	Phosphorus - ICP-Acid Digest	ug/g	94.00	<2.00e-01	2.31e+03	2.25e+03	2.28e+03	2.63	n/a	82.20	n/a
S95T003296	A	Lead - ICP-Acid Digest	ug/g	87.60	<1.00e-01	<4.11e+01	<4.64e1	n/a	n/a	n/a	41.10	n/a
S95T003296	A	Sulfur - ICP-Acid Digest	ug/g	87.20	<1.00e-01	56.20	60.00	58.10	6.54	n/a	41.10	n/a
S95T003296	A	Antimony - ICP-Acid Digest	ug/g	84.80	<6.00e-02	<2.47e+01	<2.79e1	n/a	n/a	n/a	24.70	n/a
S95T003296	A	Selenium - ICP-Acid Digest	ug/g	90.80	<1.00e-01	<4.11e+01	<4.64e1	n/a	n/a	n/a	41.10	n/a
S95T003296	A	Silicon - ICP-Acid Digest	ug/g	236.0	7.250	364.0	897.0	630.5	84.5	n/a	20.60	n/a
S95T003296	A	Strontium - ICP-Acid Digest	ug/g	91.80	<1.00e-01	<4.11e+01	<4.64e1	n/a	n/a	n/a	41.10	n/a
S95T003296	A	Titanium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	260.0	225.0	242.5	14.4	n/a	4.110	n/a
S95T003296	A	Thallium - ICP-Acid Digest	ug/g	87.60	<2.00e-01	<8.22e+01	<9.29e1	n/a	n/a	n/a	82.20	n/a
S95T003296	A	Uranium - ICP-Acid Digest	ug/g	89.70	<5.00e-01	<2.07e+02	<2.32e2	n/a	n/a	n/a	206.0	n/a
S95T003296	A	Vanadium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<2.07e+01	<2.32e1	n/a	n/a	n/a	20.60	n/a
S95T003296	A	Zinc - ICP-Acid Digest	ug/g	86.20	<1.00e-02	14.40	12.10	13.25	17.4	n/a	4.110	n/a
S95T003296	A	Zirconium - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<4.11e+00	<4.64e0	n/a	n/a	n/a	4.110	n/a
S95T003322	W	Bromide by Ion Chromatograph	ug/g	103.7	<1.26e-01	651.1	659.0	655.0	1.22	98.91	275.6	n/a
S95T003322	W	Chloride-IC-Dionex 4000T/4500	ug/g	96.46	<1.70e-02	616.8	654.0	635.4	5.82	93.54	37.19	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003322	W	Fluoride-IC-Dionex 4000i/4500	ug/g	106.8	<1.30e-02	6.67e+03	6.84e+03	6.76e+03	2.52	111.4	28.43	n/a
S95T003322	W	Nitrite-IC - Dionex 4000i/4500	ug/g	102.2	<1.07e-01	351.8	368.0	359.9	4.44	100.4	234.1	n/a
S95T003322	W	Nitrate by IC-Dionex 4000i/4500	ug/g	105.0	<1.40e-01	5.19e+04	5.39e+04	5.29e+04	3.78	119.5	306.2	n/a
S95T003322	W	Oxalate by IC - Dionex 4000i	ug/g	106.3	<1.05e-01	1.88e+03	1.89e+03	1.88e+03	0.53	104.7	229.7	n/a
S95T003322	W	Phosphate-IC-Dionex 4000i/4500	ug/g	106.0	<1.19e-01	3.47e+03	3.64e+03	3.56e+03	4.78	105.9	260.3	n/a
S95T003322	W	Sulfate by IC-Dionex 4000i/4500	ug/g	103.8	<1.36e-01	449.6	464.0	456.8	3.06	101.2	297.5	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003217		Bulk Density of Sample	g/mL	n/a	n/a	1.180	1.150	1.165	2.58	n/a	5.00e-01	n/a
S95T003271		% Water by TGA using Mettler	%	100.4	n/a	78.59	78.93	78.76	0.43	n/a	n/a	n/a
S95T003271		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003271		DSC Exotherm using Mettler	Joules/g	92.09	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003297	A	Silver -ICP-Acid Digest	ug/g	90.40	<1.00e-02	<3.79e+00	<4.50e0	n/a	n/a	n/a	3.780	n/a
S95T003297	A	Aluminum -ICP-Acid Digest	ug/g	97.60	<5.00e-02	41.30	37.80	39.55	8.85	n/a	18.90	n/a
S95T003297	A	Arsenic -ICP-Acid Digest	ug/g	93.00	<1.00e-01	<3.79e+01	<4.50e1	n/a	n/a	n/a	37.80	n/a
S95T003297	A	Boron -ICP-Acid Digest	ug/g	106.8	3.03e-01	67.20	34.80	51.00	63.5	n/a	18.90	n/a
S95T003297	A	Barium -ICP-Acid Digest	ug/g	92.40	<5.00e-02	<1.89e+01	<2.25e1	n/a	n/a	n/a	18.90	n/a
S95T003297	A	Beryllium -ICP-Acid Digest	ug/g	98.60	<5.00e-03	<1.89e+00	<2.25e0	n/a	n/a	n/a	1.890	n/a
S95T003297	A	Bismuth -ICP-Acid Digest	ug/g	90.20	<1.00e-01	5.49e+04	5.33e+04	5.41e+04	2.96	n/a	37.80	n/a
S95T003297	A	Calcium -ICP-Acid Digest	ug/g	97.20	<1.00e-01	167.0	164.0	165.5	1.81	n/a	37.80	n/a
S95T003297	A	Cadmium -ICP-Acid Digest	ug/g	89.40	<5.00e-03	2.000	<2.25e0	n/a	n/a	n/a	1.890	n/a
S95T003297	A	Cerium -ICP-Acid Digest	ug/g	95.00	<1.00e-01	44.20	<4.50e1	n/a	n/a	n/a	37.80	n/a
S95T003297	A	Cobalt -ICP-Acid Digest	ug/g	91.00	<2.00e-02	<7.55e+00	<9.01e0	n/a	n/a	n/a	7.550	n/a
S95T003297	A	Chromium -ICP-Acid Digest	ug/g	92.00	<1.00e-02	4.47e+03	4.36e+03	4.42e+03	2.49	n/a	3.780	n/a
S95T003297	A	Copper -ICP-Acid Digest	ug/g	91.20	<1.00e-02	3.79e+03	5.010	n/a	n/a	n/a	3.780	n/a
S95T003297	A	Iron -ICP-Acid Digest	ug/g	94.80	<5.00e-02	3.98e+03	3.88e+03	3.93e+03	2.54	n/a	18.90	n/a
S95T003297	A	Potassium -ICP-Acid Digest	ug/g	87.00	<5.00e-01	6.18e+03	6.02e+03	6.10e+03	2.62	n/a	189.0	n/a
S95T003297	A	Lanthanum -ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.26e+04	1.25e+04	1.26e+04	0.80	n/a	18.90	n/a
S95T003297	A	Lithium -ICP-Acid Digest	ug/g	93.20	<1.00e-02	22.80	22.10	22.45	3.12	n/a	3.780	n/a
S95T003297	A	Magnesium -ICP-Acid Digest	ug/g	90.00	<1.00e-01	<3.79e+01	<4.50e1	n/a	n/a	n/a	37.80	n/a
S95T003297	A	Manganese -ICP-Acid Digest	ug/g	89.00	<1.00e-02	1.66e+04	1.60e+04	1.63e+04	3.68	n/a	3.780	n/a
S95T003297	A	Molybdenum -ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.89e+01	<2.25e1	n/a	n/a	n/a	18.90	n/a
S95T003297	A	Sodium -ICP-Acid Digest	ug/g	119.0	3.97e-01	2.88e+04	2.81e+04	2.84e+04	2.46	n/a	37.80	n/a
S95T003297	A	Neodymium -ICP-Acid Digest	ug/g	92.00	<1.00e-01	<3.79e+01	<4.50e1	n/a	n/a	n/a	37.80	n/a
S95T003297	A	Nickel -ICP-Acid Digest	ug/g	91.60	<2.00e-02	222.0	216.0	219.0	2.74	n/a	7.550	n/a
S95T003297	A	Phosphorus -ICP-Acid Digest	ug/g	94.00	<2.00e-01	2.37e+03	2.37e+03	2.37e+03	0.00	n/a	75.50	n/a
S95T003297	A	Lead -ICP-Acid Digest	ug/g	87.60	<1.00e-01	<3.79e+01	<4.50e1	n/a	n/a	n/a	37.80	n/a
S95T003297	A	Sulfur -ICP-Acid Digest	ug/g	87.20	<1.00e-01	74.90	71.30	73.10	4.92	n/a	37.80	n/a
S95T003297	A	Antimony -ICP-Acid Digest	ug/g	84.80	<6.00e-02	<2.27e+01	<2.70e1	n/a	n/a	n/a	22.60	n/a
S95T003297	A	Selenium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	39.60	<4.50e1	n/a	n/a	n/a	37.80	n/a
S95T003297	A	Silicon -ICP-Acid Digest	ug/g	236.0	7.250	833.0	898.0	865.5	7.51	n/a	18.90	n/a
S95T003297	A	Strontium -ICP-Acid Digest	ug/g	91.80	<1.00e-01	<3.79e+01	<4.50e1	n/a	n/a	n/a	37.80	n/a
S95T003297	A	Titanium -ICP-Acid Digest	ug/g	93.00	<1.00e-02	279.0	292.0	285.5	4.55	n/a	3.780	n/a
S95T003297	A	Thallium -ICP-Acid Digest	ug/g	90.20	<1.00e-02	<3.79e+00	<4.50e0	n/a	n/a	n/a	3.780	n/a
S95T003297	A	Uranium -ICP-Acid Digest	ug/g	87.60	<2.00e-01	<7.55e+01	<9.01e1	n/a	n/a	n/a	75.50	n/a
S95T003297	A	Vanadium -ICP-Acid Digest	ug/g	89.70	<5.00e-01	<1.89e+02	<2.25e2	n/a	n/a	n/a	189.0	n/a
S95T003297	A	Zinc -ICP-Acid Digest	ug/g	90.20	<5.00e-02	<1.89e+01	<2.25e1	n/a	n/a	n/a	18.90	n/a
S95T003297	A		ug/g	86.20	<1.00e-02	19.40	15.70	17.55	21.1	n/a	3.780	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003297	A		Zirconium - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<3.79e+00	<4.50e0	n/a	n/a	n/a	3.780	n/a
S95T003323	W		Bromide by Ion Chromatograph	ug/g	103.7	<1.26e-01	580.7	568.0	574.4	2.26	n/a	298.7	n/a
S95T003323	W		Chloride-IC-Dionex 4000i/4500	ug/g	96.46	<1.70e-02	586.2	613.0	599.6	4.50	n/a	40.30	n/a
S95T003323	W		Fluoride-IC-Dionex 4000i/4500	ug/g	106.8	<1.30e-02	6.68e+03	6.49e+03	6.59e+03	2.89	n/a	30.83	n/a
S95T003323	W		Nitrite-IC - Dionex 4000i/4500	ug/g	102.2	<1.07e-01	391.3	382.0	386.6	2.33	n/a	253.7	n/a
S95T003323	W		Nitrate by IC-Dionex4000i/4500	ug/g	105.0	<1.40e-01	5.23e+04	5.09e+04	5.16e+04	2.71	n/a	331.9	n/a
S95T003323	W		Oxalate by IC - Dionex 4000i	ug/g	106.3	<1.05e-01	1.79e+03	1.76e+03	1.78e+03	1.69	n/a	248.1	n/a
S95T003323	W		Phosphate-IC-Dionex 4000i/4500	ug/g	106.0	<1.19e-01	3.16e+03	3.71e+03	3.44e+03	16.0	n/a	282.2	n/a
S95T003323	W		Sulfate by IC-Dionex4000i/4500	ug/g	103.8	<1.36e-01	468.3	481.0	474.6	2.74	n/a	322.5	n/a
S95T003341	F		Alpha of Digested Solid	uCi/g	105.2	<2.23e-03	2.17e-01	2.36e-01	2.26e-01	8.39	85.46	3.62e-03	9.15E+00

Final Results for Cores 112 and 114
B-204CORE NUMBER: 114
SEGMENT #: 10

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003218		Bulk Density of Sample	g/mL	n/a	n/a	1.150	1.160	1.155	0.87	n/a	5.00e-01	n/a
S95T003272		% Water by IGA using Mettler	%	102.4	n/a	79.70	80.46	80.08	0.95	n/a	n/a	n/a
S95T003272		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003272		DSC Exotherm using Mettler	Joules/g	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003298	A	Silver - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<3.70e+00	<3.59e0	n/a	n/a	n/a	3.700	n/a
S95T003298	A	Aluminum - ICP-Acid Digest	ug/g	97.60	<5.00e-02	37.50	28.00	32.75	29.0	n/a	18.50	n/a
S95T003298	A	Arsenic - ICP-Acid Digest	ug/g	93.00	<1.00e-01	<3.70e+01	<3.59e1	n/a	n/a	n/a	37.00	n/a
S95T003298	A	Boron - ICP-Acid Digest	ug/g	106.8	3.03e-01	54.10	37.60	45.85	36.0	n/a	18.50	n/a
S95T003298	A	Barium - ICP-Acid Digest	ug/g	92.40	<5.00e-02	<1.85e+01	<1.79e1	n/a	n/a	n/a	18.50	n/a
S95T003298	A	Beryllium - ICP-Acid Digest	ug/g	98.60	<5.00e-03	<1.85e+00	<1.79e0	n/a	n/a	n/a	1.850	n/a
S95T003298	A	Bismuth - ICP-Acid Digest	ug/g	90.20	<1.00e-01	4.82e+04	4.55e+04	4.68e+04	5.76	n/a	37.00	n/a
S95T003298	A	Calcium - ICP-Acid Digest	ug/g	97.20	<1.00e-01	150.0	148.0	149.0	1.34	n/a	37.00	n/a
S95T003298	A	Cadmium - ICP-Acid Digest	ug/g	89.40	<5.00e-03	<1.85e+00	<1.79e0	n/a	n/a	n/a	1.850	n/a
S95T003298	A	Cerium - ICP-Acid Digest	ug/g	95.00	<1.00e-01	<3.70e+01	<3.59e1	n/a	n/a	n/a	37.00	n/a
S95T003298	A	Cobalt - ICP-Acid Digest	ug/g	91.00	<2.00e-02	<7.40e+00	<7.17e0	n/a	n/a	n/a	7.400	n/a
S95T003298	A	Chromium - ICP-Acid Digest	ug/g	92.00	<1.00e-02	3.55e+03	3.30e+03	3.42e+03	7.30	n/a	3.700	n/a
S95T003298	A	Copper - ICP-Acid Digest	ug/g	91.20	<1.00e-02	<3.70e+00	3.700	n/a	n/a	n/a	3.700	n/a
S95T003298	A	Iron - ICP-Acid Digest	ug/g	94.80	<5.00e-02	3.73e+03	3.50e+03	3.62e+03	6.36	n/a	18.50	n/a
S95T003298	A	Potassium - ICP-Acid Digest	ug/g	87.00	<5.00e-01	6.36e+03	6.06e+03	6.21e+03	4.83	n/a	185.0	n/a
S95T003298	A	Lanthanum - ICP-Acid Digest	ug/g	94.20	<5.00e-02	1.06e+04	1.01e+04	1.04e+04	4.83	n/a	18.50	n/a
S95T003298	A	Lithium - ICP-Acid Digest	ug/g	93.20	<1.00e-02	56.60	50.70	53.65	11.0	n/a	3.700	n/a
S95T003298	A	Magnesium - ICP-Acid Digest	ug/g	90.00	<1.00e-01	<3.70e+01	<3.59e1	n/a	n/a	n/a	37.00	n/a
S95T003298	A	Manganese - ICP-Acid Digest	ug/g	89.00	<1.00e-02	1.60e+04	1.49e+04	1.54e+04	7.12	n/a	3.700	n/a
S95T003298	A	Molybdenum - ICP-Acid Digest	ug/g	92.00	<5.00e-02	<1.85e+01	<1.79e1	n/a	n/a	n/a	18.50	n/a
S95T003298	A	Sodium - ICP-Acid Digest	ug/g	119.0	3.97e-01	2.96e+04	2.83e+04	2.90e+04	4.49	n/a	37.00	n/a
S95T003298	A	Neodymium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<3.70e+01	<3.59e1	n/a	n/a	n/a	37.00	n/a
S95T003298	A	Nickel - ICP-Acid Digest	ug/g	91.60	<2.00e-02	228.0	209.0	218.5	8.70	n/a	7.400	n/a
S95T003298	A	Phosphorus - ICP-Acid Digest	ug/g	94.00	<2.00e-01	2.21e+03	2.18e+03	2.20e+03	1.37	n/a	74.00	n/a
S95T003298	A	Lead - ICP-Acid Digest	ug/g	87.60	<1.00e-01	<3.70e+01	<3.59e1	n/a	n/a	n/a	37.00	n/a
S95T003298	A	Sulfur - ICP-Acid Digest	ug/g	87.20	<1.00e-01	54.10	57.00	55.55	5.22	n/a	37.00	n/a
S95T003298	A	Antimony - ICP-Acid Digest	ug/g	84.80	<6.00e-02	<2.22e+01	<2.15e1	n/a	n/a	n/a	22.20	n/a
S95T003298	A	Selenium - ICP-Acid Digest	ug/g	90.80	<1.00e-01	40.70	36.10	38.40	12.0	n/a	37.00	n/a
S95T003298	A	Silicon - ICP-Acid Digest	ug/g	236.0	7.250	600.0	640.0	620.0	6.45	n/a	18.50	n/a
S95T003298	A	Samarium - ICP-Acid Digest	ug/g	91.80	<1.00e-01	<3.70e+01	<3.59e1	n/a	n/a	n/a	37.00	n/a
S95T003298	A	Strontium - ICP-Acid Digest	ug/g	93.00	<1.00e-02	217.0	210.0	213.5	3.28	n/a	3.700	n/a
S95T003298	A	Titanium - ICP-Acid Digest	ug/g	90.20	<1.00e-02	<3.70e+00	<3.59e0	n/a	n/a	n/a	3.700	n/a
S95T003298	A	Thallium - ICP-Acid Digest	ug/g	87.60	<2.00e-01	<7.40e+01	<7.17e1	n/a	n/a	n/a	74.00	n/a
S95T003298	A	Uranium - ICP-Acid Digest	ug/g	89.70	<5.00e-01	<1.85e+02	<1.79e2	n/a	n/a	n/a	185.0	n/a
S95T003298	A	Vanadium - ICP-Acid Digest	ug/g	90.20	<5.00e-02	<1.85e+01	<1.79e1	n/a	n/a	n/a	18.50	n/a
S95T003298	A	Zinc - ICP-Acid Digest	ug/g	86.20	<1.00e-02	23.00	17.80	20.40	25.5	n/a	3.700	n/a
S95T003298	A	Zirconium - ICP-Acid Digest	ug/g	90.40	<1.00e-02	<3.70e+00	<3.59e0	n/a	n/a	n/a	3.700	n/a
S95T003324	W	Bromide by Ion Chromatograph	ug/g	103.8	<1.26e-01	786.5	802.0	794.2	2.02	101.3	239.6	n/a
S95T003324	W	Chloride - IC-Dianex 40001/4500	ug/g	96.20	<1.70e-02	658.9	625.0	642.0	5.30	94.78	32.33	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003324	W	Fluoride-IC-Dionex 4000i/4500	ug/g	108.1	<1.30e-02	6.98e+03	6.87e+03	6.93e+03	1.59	116.8	24.72	n/a
S95T003324	W	Nitrate-IC - Dionex 4000i/4500	ug/g	97.57	<1.07e-01	333.6	340.0	336.8	1.78	94.91	203.5	n/a
S95T003324	W	Nitrate by IC - Dionex 4000i/4500	ug/g	106.0	<2.17e-01	5.45e+04	5.38e+04	5.42e+04	1.29	110.2	266.2	n/a
S95T003324	W	Oxalate by IC - Dionex 4000i	ug/g	106.5	<1.05e-01	1.88e+03	1.87e+03	1.88e+03	0.53	106.7	199.6	n/a
S95T003324	W	Phosphate-IC-Dionex 4000i/4500	ug/g	106.2	<1.19e-01	3.45e+03	3.44e+03	3.44e+03	0.29	107.4	226.3	n/a
S95T003324	W	Sulfate by IC-Dionex4000i/4500	ug/g	104.4	<1.36e-01	422.3	420.0	421.1	0.48	102.6	258.6	n/a

Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003219		Bulk Density of Sample	g/mL	n/a	n/a	1.180	1.160	1.170	1.71	n/a	5.00e-01	n/a
S95T003273		% Water by TGA on Perkin Elmer	%	101.1	n/a	78.97	79.13	79.05	0.20	n/a	n/a	n/a
S95T003273		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003273		DSC Exotherm using Mettler	Joules/g	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003299	A	Silver - ICP-Acid Digest	ug/g	85.80	<1.00e-02	5.450	5.020	5.235	8.21	91.20	3.390	n/a
S95T003299	A	Aluminum - ICP-Acid Digest	ug/g	87.60	<5.00e-02	40.00	59.90	49.95	39.8	92.48	16.90	n/a
S95T003299	A	Arsenic - ICP-Acid Digest	ug/g	88.80	<1.00e-01	<3.39e+01	<3.85e1	n/a	n/a	94.00	33.90	n/a
S95T003299	A	Boron - ICP-Acid Digest	ug/g	86.80	<3.00e-01	123.0	129.0	126.0	4.76	94.84	16.90	n/a
S95T003299	A	Barium - ICP-Acid Digest	ug/g	88.40	<5.00e-02	<1.69e+01	<1.93e1	n/a	n/a	92.00	16.90	n/a
S95T003299	A	Beryllium - ICP-Acid Digest	ug/g	101.0	<5.00e-02	<1.69e+00	<1.93e0	n/a	n/a	100.0	1.690	n/a
S95T003299	A	Bismuth - ICP-Acid Digest	ug/g	85.60	<1.00e-01	4.50e+04	4.56e+04	4.53e+04	1.32	0.00e+00	33.90	n/a
S95T003299	A	Calcium - ICP-Acid Digest	ug/g	86.40	<1.00e-01	212.0	175.0	193.5	19.1	82.36	33.90	n/a
S95T003299	A	Cadmium - ICP-Acid Digest	ug/g	85.40	<5.00e-03	<1.69e+00	<1.93e0	n/a	n/a	90.80	1.690	n/a
S95T003299	A	Cerium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<3.39e+01	<3.85e1	n/a	n/a	97.00	33.90	n/a
S95T003299	A	Cobalt - ICP-Acid Digest	ug/g	87.00	<2.00e-02	<6.77e+00	<7.71e0	n/a	n/a	92.60	6.770	n/a
S95T003299	A	Chromium - ICP-Acid Digest	ug/g	88.20	<1.00e-02	3.98e+03	4.02e+03	4.00e+03	1.00	0.00e+00	3.390	n/a
S95T003299	A	Copper - ICP-Acid Digest	ug/g	88.40	<1.00e-02	5.050	7.570	6.310	39.9	91.20	3.390	n/a
S95T003299	A	Iron - ICP-Acid Digest	ug/g	90.60	<5.00e-02	3.81e+03	3.83e+03	3.82e+03	0.52	0.00e+00	16.90	n/a
S95T003299	A	Potassium - ICP-Acid Digest	ug/g	86.00	<5.00e-01	6.37e+03	6.36e+03	6.36e+03	0.16	0.00e+00	169.0	n/a
S95T003299	A	Lanthanum - ICP-Acid Digest	ug/g	90.40	<5.00e-02	9.60e+03	9.83e+03	9.72e+03	2.37	0.00e+00	16.90	n/a
S95T003299	A	Lithium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	48.10	48.60	48.35	1.03	91.32	3.390	n/a
S95T003299	A	Magnesium - ICP-Acid Digest	ug/g	84.80	<1.00e-02	36.20	<3.85e1	n/a	n/a	87.72	33.90	n/a
S95T003299	A	Manganese - ICP-Acid Digest	ug/g	85.60	<1.00e-02	1.49e+04	1.50e+04	1.50e+04	0.67	0.00e+00	3.390	n/a
S95T003299	A	Molybdenum - ICP-Acid Digest	ug/g	87.80	<5.00e-02	<1.69e+01	<1.93e1	n/a	n/a	92.20	16.90	n/a
S95T003299	A	Sodium - ICP-Acid Digest	ug/g	91.80	<3.82e-01	2.72e+04	2.74e+04	2.73e+04	0.73	0.00e+00	33.90	n/a
S95T003299	A	Neodymium - ICP-Acid Digest	ug/g	89.00	<1.00e-01	<3.39e+01	<3.85e1	n/a	n/a	91.80	33.90	n/a
S95T003299	A	Nickel - ICP-Acid Digest	ug/g	86.80	<2.00e-02	376.0	378.0	377.0	0.53	79.02	6.770	n/a
S95T003299	A	Phosphorus - ICP-Acid Digest	ug/g	87.00	<2.00e-01	1.99e+03	2.01e+03	2.00e+03	1.00	28.92	67.70	n/a
S95T003299	A	Lead - ICP-Acid Digest	ug/g	84.00	<1.00e-01	<3.39e+01	<3.85e1	n/a	n/a	91.20	33.90	n/a
S95T003299	A	Sulfur - ICP-Acid Digest	ug/g	83.60	<1.00e-01	58.60	54.40	56.50	7.43	87.28	33.90	n/a
S95T003299	A	Antimony - ICP-Acid Digest	ug/g	80.60	<6.00e-02	<2.03e+01	<2.31e1	n/a	n/a	84.40	20.30	n/a
S95T003299	A	Selenium - ICP-Acid Digest	ug/g	87.20	<1.00e-01	<3.39e+01	<3.85e1	n/a	n/a	92.00	33.90	n/a
S95T003299	A	Silicon - ICP-Acid Digest	ug/g	94.20	<1.29e-01	856.0	897.0	876.5	4.68	130.9	16.90	n/a
S95T003299	A	Samarium - ICP-Acid Digest	ug/g	87.80	<1.00e-01	<3.39e+01	<3.85e1	n/a	n/a	89.60	33.90	n/a
S95T003299	A	Strontium - ICP-Acid Digest	ug/g	89.00	<1.00e-02	406.0	411.0	408.5	1.22	78.60	3.390	n/a
S95T003299	A	Titanium - ICP-Acid Digest	ug/g	86.40	<1.00e-02	<3.39e+00	<3.85e0	n/a	n/a	90.00	3.390	n/a
S95T003299	A	Thallium - ICP-Acid Digest	ug/g	84.00	<2.00e-01	<6.77e+01	<7.71e1	n/a	n/a	85.00	67.70	n/a
S95T003299	A	Vanadium - ICP-Acid Digest	ug/g	85.20	<5.00e-01	<1.69e+02	<1.93e2	n/a	n/a	87.40	169.0	n/a
S95T003299	A	Vanadium - ICP-Acid Digest	ug/g	86.00	<5.00e-02	<1.69e+01	<1.93e1	n/a	n/a	90.20	16.90	n/a
S95T003299	A	Zinc - ICP-Acid Digest	ug/g	82.40	<1.00e-02	14.60	12.00	13.30	19.5	88.28	3.390	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003299	A		Zirconium - ICP-Acid Digest	ug/g	86.40	<1.00e-02	<3.39e+00	<3.85e0	n/a	n/a	90.40	3.390	n/a
S95T003325	W		Bromide by Ion Chromatograph	ug/g	103.8	<1.26e-01	881.8	884.0	882.9	0.23	n/a	262.2	n/a
S95T003325	W		Chloride-IC-Dionex 4000i/4500	ug/g	96.20	<1.70e-02	614.8	639.0	626.9	3.83	n/a	35.38	n/a
S95T003325	W		Fluoride-IC-Dionex 4000i/4500	ug/g	108.1	<1.30e-02	6.71e+03	6.79e+03	6.75e+03	1.19	n/a	27.05	n/a
S95T003325	W		Nitrite-IC - Dionex 4000i/4500	ug/g	97.57	<1.07e-01	343.9	332.0	337.9	3.55	n/a	222.7	n/a
S95T003325	W		Nitrate by IC-Dionex4000i/4500	ug/g	106.0	2.17e-01	5.19e+04	5.25e+04	5.22e+04	1.15	n/a	291.3	n/a
S95T003325	W		Oxalate by IC - Dionex 4000i	ug/g	106.5	<1.05e-01	1.75e+03	1.77e+03	1.76e+03	1.14	n/a	218.5	n/a
S95T003325	W		Phosphate-IC-Dionex 4000i/4500	ug/g	106.2	<1.19e-01	3.30e+03	3.45e+03	3.38e+03	4.44	n/a	247.6	n/a
S95T003325	W		Sulfate by IC-Dionex4000i/4500	ug/g	104.4	<1.36e-01	452.9	355.0	403.9	24.3	n/a	283.0	n/a
S95T003342	F		Alpha of Digested Solid	uCi/g	99.48	1.970	2.62e-01	2.98e-01	2.80e-01	12.9	91.33	3.04e-03	6.54E+00

Final Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 11

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T003220		Bulk Density of Sample	g/mL	n/a	n/a	1.140	1.180	1.160	3.45	n/a	5.00e-01		n/a
S95T003274		% Water by TGA using Mettler	%	101.3	n/a	75.76	77.96	76.86	2.86	n/a	n/a		n/a
S95T003274		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a		n/a
S95T003274		DSC Exotherm using Mettler	Joules/g	107.2	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a		n/a
S95T003300	A	Silver - ICP-Acid Digest	ug/g	85.80	<1.00e-02	5.080	<4.83e0	n/a	n/a	n/a	4.700		n/a
S95T003300	A	Aluminum - ICP-Acid Digest	ug/g	87.60	<5.00e-02	46.30	43.20	44.75	6.93	n/a	23.50		n/a
S95T003300	A	Arsenic - ICP-Acid Digest	ug/g	88.80	<1.00e-01	<4.70e+01	<4.83e1	n/a	n/a	n/a	47.00		n/a
S95T003300	A	Boron - ICP-Acid Digest	ug/g	86.80	3.00e-01	150.0	150.0	150.0	0.00	n/a	23.50		n/a
S95T003300	A	Barium - ICP-Acid Digest	ug/g	88.40	<5.00e-02	<2.35e+01	<2.41e1	n/a	n/a	n/a	23.50		n/a
S95T003300	A	Beryllium - ICP-Acid Digest	ug/g	101.0	<5.00e-03	<2.35e+00	<2.41e0	n/a	n/a	n/a	2.350		n/a
S95T003300	A	Bismuth - ICP-Acid Digest	ug/g	85.60	<1.00e-01	4.80e+04	4.74e+04	4.74e+04	2.75	n/a	47.00		n/a
S95T003300	A	Calcium - ICP-Acid Digest	ug/g	86.40	<1.00e-01	170.0	169.0	169.5	0.59	n/a	47.00		n/a
S95T003300	A	Cadmium - ICP-Acid Digest	ug/g	85.40	<5.00e-03	<2.35e+00	<2.41e0	n/a	n/a	n/a	2.350		n/a
S95T003300	A	Cerium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	<4.70e+01	<4.83e1	n/a	n/a	n/a	9.400		n/a
S95T003300	A	Cobalt - ICP-Acid Digest	ug/g	87.00	<2.00e-02	<9.40e+00	<9.66e0	n/a	n/a	n/a	47.00		n/a
S95T003300	A	Chromium - ICP-Acid Digest	ug/g	88.20	<1.00e-02	4.39e+03	4.12e+03	4.26e+03	6.35	n/a	4.700		n/a
S95T003300	A	Copper - ICP-Acid Digest	ug/g	88.40	<1.00e-02	7.230	9.090	8.160	22.8	n/a	4.700		n/a
S95T003300	A	Iron - ICP-Acid Digest	ug/g	90.60	<5.00e-02	5.59e+03	5.35e+03	5.47e+03	4.39	n/a	23.50		n/a
S95T003300	A	Potassium - ICP-Acid Digest	ug/g	86.00	<5.00e-01	6.54e+03	6.56e+03	6.55e+03	0.31	n/a	235.0		n/a
S95T003300	A	Lanthanum - ICP-Acid Digest	ug/g	90.40	<5.00e-02	1.09e+04	1.01e+04	1.05e+04	7.62	n/a	23.50		n/a
S95T003300	A	Lithium - ICP-Acid Digest	ug/g	92.00	<1.00e-02	36.20	37.40	36.80	3.26	n/a	4.700		n/a
S95T003300	A	Magnesium - ICP-Acid Digest	ug/g	84.80	<1.00e-01	<4.70e+01	<4.83e1	n/a	n/a	n/a	47.00		n/a
S95T003300	A	Manganese - ICP-Acid Digest	ug/g	85.60	<1.00e-02	1.66e+04	1.58e+04	1.62e+04	4.94	n/a	4.700		n/a
S95T003300	A	Molybdenum - ICP-Acid Digest	ug/g	87.80	<5.00e-02	<2.35e+01	<2.41e1	n/a	n/a	n/a	23.50		n/a
S95T003300	A	Sodium - ICP-Acid Digest	ug/g	91.80	3.82e-01	2.80e+04	2.75e+04	2.78e+04	1.80	n/a	47.00		n/a
S95T003300	A	Neodymium - ICP-Acid Digest	ug/g	89.00	<1.00e-01	<4.70e+01	<4.83e1	n/a	n/a	n/a	47.00		n/a
S95T003300	A	Nickel - ICP-Acid Digest	ug/g	86.80	<2.00e-02	776.0	754.0	765.0	2.88	n/a	9.400		n/a
S95T003300	A	Phosphorus - ICP-Acid Digest	ug/g	87.00	<2.00e-01	2.12e+03	2.00e+03	2.06e+03	5.83	n/a	94.00		n/a
S95T003300	A	Lead - ICP-Acid Digest	ug/g	84.00	<1.00e-01	<4.70e+01	<4.83e1	n/a	n/a	n/a	47.00		n/a
S95T003300	A	Sulfur - ICP-Acid Digest	ug/g	83.60	<1.00e-01	82.00	61.40	71.70	28.7	n/a	47.00		n/a
S95T003300	A	Antimony - ICP-Acid Digest	ug/g	80.60	<6.00e-02	<2.82e+01	<2.90e1	n/a	n/a	n/a	28.20		n/a
S95T003300	A	Selenium - ICP-Acid Digest	ug/g	87.20	<1.00e-01	<4.70e+01	<4.83e1	n/a	n/a	n/a	47.00		n/a
S95T003300	A	Silicon - ICP-Acid Digest	ug/g	94.20	1.29e-01	994.0	1.08e+03	1.04e+03	8.29	n/a	23.50		n/a
S95T003300	A	Samarium - ICP-Acid Digest	ug/g	87.80	<1.00e-01	<4.70e+01	<4.83e1	n/a	n/a	n/a	47.00		n/a
S95T003300	A	Strontium - ICP-Acid Digest	ug/g	89.00	<1.00e-02	275.0	253.0	264.0	8.33	n/a	4.700		n/a
S95T003300	A	Titanium - ICP-Acid Digest	ug/g	86.40	<1.00e-02	<4.70e+00	<4.83e0	n/a	n/a	n/a	4.700		n/a
S95T003300	A	Thallium - ICP-Acid Digest	ug/g	84.00	<2.00e-01	<9.40e+01	<9.66e1	n/a	n/a	n/a	94.00		n/a
S95T003300	A	Uranium - ICP-Acid Digest	ug/g	85.20	<5.00e-01	<2.35e+02	<2.41e2	n/a	n/a	n/a	235.0		n/a
S95T003300	A	Vanadium - ICP-Acid Digest	ug/g	86.00	<5.00e-02	<2.35e+01	<2.41e1	n/a	n/a	n/a	23.50		n/a
S95T003300	A	Zinc - ICP-Acid Digest	ug/g	82.40	<1.00e-02	50.80	11.50	31.15	126	n/a	4.700		n/a
S95T003300	A	Zirconium - ICP-Acid Digest	ug/g	86.40	<1.00e-02	<4.70e+00	<4.83e0	n/a	n/a	n/a	4.700		n/a
S95T003326	W	Bromide by Ion Chromatograph	ug/g	104.5	<1.26e-01	644.7	698.0	671.4	7.89	101.6	265.1		n/a
S95T003326	W	Chloride-IC-Dionex 4000T/4500	ug/g	95.57	<1.70e-02	642.0	773.0	707.5	18.5	94.22	35.76		n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003326	W	Fluoride-IC-Dionex 4000i/4500	ug/g	103.4	<1.30e-02	6.83e+03	7.52e+03	7.18e+03	9.62	133.4	27.35	n/a
S95T003326	W	Nitrite-IC - Dionex 4000i/4500	ug/g	97.39	<1.07e-01	347.3	351.0	349.1	1.15	95.31	225.1	n/a
S95T003326	W	Nitrate by IC-Dionex 4000i/4500	ug/g	102.8	1.82e-01	5.43e+04	5.83e+04	5.63e+04	7.10	109.5	294.5	n/a
S95T003326	W	Oxalate by IC - Dionex 4000i	ug/g	106.3	<1.05e-01	1.86e+03	1.97e+03	1.92e+03	5.74	106.8	220.9	n/a
S95T003326	W	Phosphate-IC-Dionex 4000i/4500	ug/g	105.7	<1.19e-01	3.33e+03	3.59e+03	3.46e+03	7.51	112.3	250.3	n/a
S95T003326	W	Sulfate by IC-Dionex 4000i/4500	ug/g	101.9	<1.36e-01	433.2	420.0	426.6	3.05	103.1	286.1	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003321		Bulk Density of Sample	g/mL	n/a	n/a	1.170	1.170	1.170	0.00	n/a	5.00e-01	n/a
S95T003325		% Water by TGA using Mettler	%	101.3	n/a	79.30	79.11	79.20	0.24	n/a	n/a	n/a
S95T003325		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003325		DSC Exotherm using Mettler	Joules/g	107.2	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003301	A	Silver -ICP-Acid Digest	ug/g	85.80	<1.00e-02	4.280	4.320	4.300	0.93	n/a	3.400	n/a
S95T003301	A	Aluminum -ICP-Acid Digest	ug/g	87.60	<5.00e-02	37.20	37.40	37.30	0.54	n/a	17.00	n/a
S95T003301	A	Arsenic -ICP-Acid Digest	ug/g	88.80	<1.00e-01	<3.40e-01	<3.40e-01	n/a	n/a	n/a	34.00	n/a
S95T003301	A	Boron -ICP-Acid Digest	ug/g	86.80	3.00e-01	131.0	119.0	125.0	9.60	n/a	17.00	n/a
S95T003301	A	Barium -ICP-Acid Digest	ug/g	88.40	<5.00e-02	<1.70e-01	<1.70e-01	n/a	n/a	n/a	17.00	n/a
S95T003301	A	Beryllium -ICP-Acid Digest	ug/g	101.0	<5.00e-02	<1.70e-01	<1.70e-01	n/a	n/a	n/a	1.700	n/a
S95T003301	A	Bismuth -ICP-Acid Digest	ug/g	85.60	<1.00e-01	4.89e+04	4.75e+04	4.82e+04	2.90	n/a	34.00	n/a
S95T003301	A	Calcium -ICP-Acid Digest	ug/g	86.40	<1.00e-01	174.0	221.0	197.5	23.8	n/a	34.00	n/a
S95T003301	A	Cadmium -ICP-Acid Digest	ug/g	85.40	<5.00e-03	<1.70e-01	<1.70e-01	n/a	n/a	n/a	1.700	n/a
S95T003301	A	Cerium -ICP-Acid Digest	ug/g	92.00	<1.00e-01	<3.40e-01	<3.40e-01	n/a	n/a	n/a	34.00	n/a
S95T003301	A	Cobalt -ICP-Acid Digest	ug/g	87.00	<2.00e-02	<6.80e-01	<6.82e-01	n/a	n/a	n/a	6.800	n/a
S95T003301	A	Chromium -ICP-Acid Digest	ug/g	88.20	<1.00e-02	4.15e+03	4.05e+03	4.10e+03	2.44	n/a	3.400	n/a
S95T003301	A	Copper -ICP-Acid Digest	ug/g	88.40	<1.00e-02	4.560	5.930	5.245	26.1	n/a	3.400	n/a
S95T003301	A	Iron -ICP-Acid Digest	ug/g	90.60	<5.00e-02	4.15e+03	4.08e+03	4.12e+03	1.70	n/a	17.00	n/a
S95T003301	A	Potassium -ICP-Acid Digest	ug/g	86.00	<5.00e-01	6.84e+03	6.54e+03	6.69e+03	4.48	n/a	170.0	n/a
S95T003301	A	Lanthanum -ICP-Acid Digest	ug/g	90.40	<5.00e-02	1.06e+04	1.03e+04	1.04e+04	2.87	n/a	17.00	n/a
S95T003301	A	Lithium -ICP-Acid Digest	ug/g	92.00	<1.00e-02	39.40	38.30	38.85	2.83	n/a	3.400	n/a
S95T003301	A	Magnesium -ICP-Acid Digest	ug/g	84.80	<1.00e-01	<3.40e-01	<3.40e-01	n/a	n/a	n/a	34.00	n/a
S95T003301	A	Manganese -ICP-Acid Digest	ug/g	85.60	<1.00e-02	1.65e+04	1.61e+04	1.63e+04	2.45	n/a	3.400	n/a
S95T003301	A	Molybdenum -ICP-Acid Digest	ug/g	87.80	<5.00e-02	<1.70e-01	<1.70e-01	n/a	n/a	n/a	17.00	n/a
S95T003301	A	Sodium -ICP-Acid Digest	ug/g	91.80	3.82e-01	2.94e+04	2.79e+04	2.86e+04	5.24	n/a	34.00	n/a
S95T003301	A	Neodymium -ICP-Acid Digest	ug/g	89.00	<1.00e-01	<3.40e-01	<3.40e-01	n/a	n/a	n/a	34.00	n/a
S95T003301	A	Nickel -ICP-Acid Digest	ug/g	86.80	<2.00e-02	374.0	364.0	369.0	2.71	n/a	6.800	n/a
S95T003301	A	Phosphorus -ICP-Acid Digest	ug/g	87.00	<2.00e-01	2.11e+03	1.96e+03	2.04e+03	7.37	n/a	68.00	n/a
S95T003301	A	Lead -ICP-Acid Digest	ug/g	84.00	<1.00e-01	<3.40e-01	<3.40e-01	n/a	n/a	n/a	34.00	n/a
S95T003301	A	Sulfur -ICP-Acid Digest	ug/g	83.60	<1.00e-01	64.90	53.60	59.25	19.1	n/a	34.00	n/a
S95T003301	A	Antimony -ICP-Acid Digest	ug/g	80.60	<6.00e-02	<2.04e-01	<2.04e-01	n/a	n/a	n/a	20.40	n/a
S95T003301	A	Selenium -ICP-Acid Digest	ug/g	87.20	<1.00e-01	<3.40e-01	<3.40e-01	n/a	n/a	n/a	34.00	n/a
S95T003301	A	Silicon -ICP-Acid Digest	ug/g	94.20	1.29e-01	1.12e+03	1.14e+03	1.13e+03	1.77	n/a	17.00	n/a
S95T003301	A	Samarium -ICP-Acid Digest	ug/g	87.80	<1.00e-01	<3.40e-01	<3.40e-01	n/a	n/a	n/a	34.00	n/a
S95T003301	A	Strontium -ICP-Acid Digest	ug/g	89.00	<1.00e-02	337.0	328.0	332.5	2.71	n/a	3.400	n/a
S95T003301	A	Titanium -ICP-Acid Digest	ug/g	86.40	<1.00e-02	3.610	3.460	3.535	4.24	n/a	3.400	n/a
S95T003301	A	Thallium -ICP-Acid Digest	ug/g	84.00	<2.00e-01	<6.80e-01	<6.82e-01	n/a	n/a	n/a	68.00	n/a
S95T003301	A	Uranium -ICP-Acid Digest	ug/g	85.20	<5.00e-01	<1.70e-02	<1.70e-02	n/a	n/a	n/a	170.0	n/a
S95T003301	A	Vanadium -ICP-Acid Digest	ug/g	86.00	<5.00e-02	<1.70e-01	<1.70e-01	n/a	n/a	n/a	17.00	n/a
S95T003301	A	Zinc -ICP-Acid Digest	ug/g	82.40	<1.00e-02	13.00	10.60	11.80	20.3	n/a	3.400	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003301	A	Zirconium	-ICP-Acid Digest	ug/g	86.40	<1.00e-02	<3.40e+00	<3.40e0	n/a	n/a	n/a	3.400	n/a
S95T003327	W	Bromide	by Ion Chromatograph	ug/g	104.5	<1.26e-01	741.5	770.0	755.8	3.70	n/a	256.3	n/a
S95T003327	W	Chloride	-IC-Dionex 4000i/4500	ug/g	95.57	<1.70e-02	630.7	1.18e+03	905.4	60.6	n/a	34.57	n/a
S95T003327	W	Fluoride	-IC-Dionex 4000i/4500	ug/g	103.4	<1.30e-02	6.74e+03	7.03e+03	6.89e+03	4.21	n/a	26.44	n/a
S95T003327	W	Nitrite	-IC - Dionex 4000i/4500	ug/g	97.39	<1.07e-01	343.0	342.0	342.5	0.29	n/a	217.6	n/a
S95T003327	W	Nitrate	by IC-Dionex4000i/4500	ug/g	102.8	1.82e-01	5.32e+04	5.49e+04	5.41e+04	3.15	n/a	284.8	n/a
S95T003327	W	Oxalate	by IC - Dionex 4000i	ug/g	106.3	<1.05e-01	1.78e+03	1.86e+03	1.82e+03	4.40	n/a	213.6	n/a
S95T003327	W	Phosphate	-IC-Dionex 4000i/4500	ug/g	105.7	<1.19e-01	3.20e+03	3.46e+03	3.33e+03	7.81	n/a	262.0	n/a
S95T003327	W	Sulfate	by IC-Dionex4000i/4500	ug/g	101.9	<1.36e-01	990.2	465.0	727.6	72.2	n/a	276.6	n/a
S95T003343	F	Alpha of Digested Solid		uCi/g	99.48	1.970	2.15e-01	2.47e-01	2.31e-01	13.9	89.29	3.42e-03	7.62e+00

Final Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 12

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003222		Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.190	1.190	0.00	n/a	5.00e-01	n/a
S95T003276		% Water by IGA using Mettler	%	101.3	n/a	79.60	79.46	79.53	0.18	n/a	n/a	n/a
S95T003276		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003276		DSC Exotherm using Mettler	Joules/g	103.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003302	A	Silver - ICP-Acid Digest	ug/g	85.80	<1.00e-02	3.960	4.130	4.045	4.20	n/a	2.400	n/a
S95T003302	A	Aluminum - ICP-Acid Digest	ug/g	87.60	<5.00e-02	35.10	42.50	38.80	19.1	n/a	12.00	n/a
S95T003302	A	Arsenic - ICP-Acid Digest	ug/g	88.80	<1.00e-01	<2.40e-01	<2.21e1	n/a	n/a	n/a	24.00	n/a
S95T003302	A	Boron - ICP-Acid Digest	ug/g	86.80	3.00e-01	135.0	142.0	138.5	5.05	n/a	12.00	n/a
S95T003302	A	Barium - ICP-Acid Digest	ug/g	88.40	<5.00e-02	<1.20e+01	<1.10e1	n/a	n/a	n/a	12.00	n/a
S95T003302	A	Beryllium - ICP-Acid Digest	ug/g	101.0	<5.00e-03	<1.20e+00	<1.10e0	n/a	n/a	n/a	1.200	n/a
S95T003302	A	Bismuth - ICP-Acid Digest	ug/g	85.60	<1.00e-01	3.91e+04	4.25e+04	4.08e+04	8.33	n/a	24.00	n/a
S95T003302	A	Calcium - ICP-Acid Digest	ug/g	86.40	<1.00e-01	170.0	145.0	157.5	15.9	n/a	24.00	n/a
S95T003302	A	Cadmium - ICP-Acid Digest	ug/g	85.40	<5.00e-03	<1.20e+00	<1.10e0	n/a	n/a	n/a	1.200	n/a
S95T003302	A	Cerium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	30.20	31.00	30.60	2.61	n/a	24.00	n/a
S95T003302	A	Cobalt - ICP-Acid Digest	ug/g	87.00	<2.00e-02	<4.80e+00	<4.42e0	n/a	n/a	n/a	4.800	n/a
S95T003302	A	Chromium - ICP-Acid Digest	ug/g	88.20	<1.00e-02	3.22e+03	3.39e+03	3.30e+03	5.14	n/a	2.400	n/a
S95T003302	A	Copper - ICP-Acid Digest	ug/g	88.40	<1.00e-02	2.850	4.330	3.690	45.5	n/a	2.400	n/a
S95T003302	A	Iron - ICP-Acid Digest	ug/g	90.60	<5.00e-02	3.15e+03	3.35e+03	3.25e+03	6.15	n/a	12.00	n/a
S95T003302	A	Potassium - ICP-Acid Digest	ug/g	86.00	<5.00e-01	6.29e+03	6.47e+03	6.38e+03	2.82	n/a	120.0	n/a
S95T003302	A	Lithium - ICP-Acid Digest	ug/g	90.40	<5.00e-02	8.85e+03	9.70e+03	9.28e+03	9.16	n/a	12.00	n/a
S95T003302	A	Magnesium - ICP-Acid Digest	ug/g	92.00	<1.00e-02	12.80	16.00	14.40	22.2	n/a	2.400	n/a
S95T003302	A	Manganese - ICP-Acid Digest	ug/g	84.80	<1.00e-01	28.60	30.90	29.75	7.73	n/a	24.00	n/a
S95T003302	A	Sodium - ICP-Acid Digest	ug/g	85.60	<1.00e-02	1.39e+04	1.55e+04	1.47e+04	10.9	n/a	2.400	n/a
S95T003302	A	Molybdenum - ICP-Acid Digest	ug/g	91.80	3.82e-01	2.65e+04	2.72e+04	2.68e+04	2.61	n/a	24.00	n/a
S95T003302	A	Neodymium - ICP-Acid Digest	ug/g	89.00	<1.00e-01	<2.40e+01	<2.21e1	n/a	n/a	n/a	24.00	n/a
S95T003302	A	Nickel - ICP-Acid Digest	ug/g	86.80	<2.00e-02	262.0	277.0	269.5	5.57	n/a	4.800	n/a
S95T003302	A	Phosphorus - ICP-Acid Digest	ug/g	87.00	<2.00e-01	1.77e+03	1.87e+03	1.82e+03	5.49	n/a	48.00	n/a
S95T003302	A	Lead - ICP-Acid Digest	ug/g	84.00	<1.00e-01	<2.40e+01	<2.21e1	n/a	n/a	n/a	24.00	n/a
S95T003302	A	Sulfur - ICP-Acid Digest	ug/g	83.60	<1.00e-01	64.40	66.10	65.25	2.61	n/a	24.00	n/a
S95T003302	A	Antimony - ICP-Acid Digest	ug/g	80.60	<6.00e-02	<1.44e+01	<1.34e1	n/a	n/a	n/a	14.40	n/a
S95T003302	A	Selenium - ICP-Acid Digest	ug/g	87.20	<1.00e-01	<2.40e+01	<2.21e1	n/a	n/a	n/a	24.00	n/a
S95T003302	A	Silicon - ICP-Acid Digest	ug/g	94.20	1.29e-01	827.0	1.09e+03	958.5	27.4	n/a	12.00	n/a
S95T003302	A	Samarium - ICP-Acid Digest	ug/g	87.80	<1.00e-01	<2.40e+01	<2.21e1	n/a	n/a	n/a	24.00	n/a
S95T003302	A	Strontium - ICP-Acid Digest	ug/g	89.00	<1.00e-02	239.0	250.0	244.5	4.50	n/a	2.400	n/a
S95T003302	A	Titanium - ICP-Acid Digest	ug/g	86.40	<1.00e-02	2.840	2.890	2.865	1.75	n/a	2.400	n/a
S95T003302	A	Thallium - ICP-Acid Digest	ug/g	84.00	<2.00e-01	<4.80e+01	<4.42e1	n/a	n/a	n/a	48.00	n/a
S95T003302	A	Uranium - ICP-Acid Digest	ug/g	85.20	<5.00e-01	<1.20e+02	<1.10e2	n/a	n/a	n/a	120.0	n/a
S95T003302	A	Vanadium - ICP-Acid Digest	ug/g	86.00	<5.00e-02	<1.20e+01	<1.10e1	n/a	n/a	n/a	12.00	n/a
S95T003302	A	Zinc - ICP-Acid Digest	ug/g	82.40	<1.00e-02	10.00	16.80	13.40	50.7	n/a	2.400	n/a
S95T003302	A	Zirconium - ICP-Acid Digest	ug/g	86.40	<1.00e-01	<2.40e+02	<2.21e0	n/a	n/a	n/a	2.400	n/a
S95T003328	W	Bromide by Ion Chromatograph	ug/g	101.0	<1.20e-01	297.7	300.0	298.9	0.67	95.57	138.6	n/a
S95T003328	W	Chloride-IC-Dionex 4000i/4500	ug/g	97.09	<1.70e-02	675.7	657.0	666.4	2.85	93.85	34.28	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003328	W	Fluoride-IC-Dionex 4000i/4500	ug/g	106.8	<1.30e-02	6.86e+03	7.04e+03	6.95e+03	2.59	117.0	26.21	n/a
S95T003328	W	Nitrite-IC - Dionex 4000i/4500	ug/g	94.22	<1.07e-01	219.1	226.0	222.6	3.15	93.68	117.7	n/a
S95T003328	W	Nitrate by IC-Dionex4000i/4500	ug/g	108.8	<1.40e-01	5.38e+04	5.54e+04	5.46e+04	2.93	108.6	282.3	n/a
S95T003328	W	Oxalate by IC - Dionex 4000i	ug/g	103.4	<1.05e-01	1.83e+03	1.88e+03	1.86e+03	2.70	102.8	211.7	n/a
S95T003328	W	Phosphate-IC-Dionex 4000i/4500	ug/g	101.8	<1.19e-01	3.12e+03	3.34e+03	3.23e+03	6.81	128.2	240.0	n/a
S95T003328	W	Sulfate by IC-Dionex4000i/4500	ug/g	101.3	<1.36e-01	318.4	301.0	309.7	5.49	99.72	149.6	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003223		Bulk Density of Sample	g/mL	n/a	n/a	1.160	1.150	1.155	0.87	n/a	5.00e-01	n/a
S95T003277		% Water by IGA using Mettler	%	101.3	n/a	77.87	78.56	78.22	0.88	n/a	n/a	n/a
S95T003277		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003277		DSC Exotherm using Mettler	Joules/g	103.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003303	A	Silver -ICP-Acid Digest	ug/g	85.80	<1.00e-02	4.460	4.630	4.545	3.74	n/a	2.230	n/a
S95T003303	A	Aluminum -ICP-Acid Digest	ug/g	87.60	<5.00e-02	37.10	39.30	38.20	5.76	n/a	11.20	n/a
S95T003303	A	Arsenic -ICP-Acid Digest	ug/g	88.80	<1.00e-01	<2.23e+01	<3.70e1	n/a	n/a	n/a	22.30	n/a
S95T003303	A	Boron -ICP-Acid Digest	ug/g	86.80	3.00e-01	132.0	138.0	135.0	4.44	n/a	11.20	n/a
S95T003303	A	Beryllium -ICP-Acid Digest	ug/g	88.40	<5.00e-02	<1.12e+01	<1.85e1	n/a	n/a	n/a	11.20	n/a
S95T003303	A	Bismuth -ICP-Acid Digest	ug/g	101.0	<5.00e-03	<1.12e+01	<1.85e1	n/a	n/a	n/a	1.120	n/a
S95T003303	A	Calcium -ICP-Acid Digest	ug/g	85.60	<1.00e-01	4.69e+04	4.77e+04	4.73e+04	1.69	n/a	22.30	n/a
S95T003303	A	Calcium -ICP-Acid Digest	ug/g	86.40	<1.00e-01	155.0	151.0	153.0	2.61	n/a	22.30	n/a
S95T003303	A	Cadmium -ICP-Acid Digest	ug/g	85.40	<5.00e-03	<1.12e+00	<1.85e0	n/a	n/a	n/a	1.120	n/a
S95T003303	A	Cerium -ICP-Acid Digest	ug/g	92.00	<1.00e-01	37.30	37.30	37.30	0.00	n/a	22.30	n/a
S95T003303	A	Cobalt -ICP-Acid Digest	ug/g	87.00	<2.00e-02	<4.47e+00	<7.41e0	n/a	n/a	n/a	4.470	n/a
S95T003303	A	Chromium -ICP-Acid Digest	ug/g	88.20	<1.00e-02	3.89e+03	3.93e+03	3.91e+03	1.02	n/a	2.230	n/a
S95T003303	A	Copper -ICP-Acid Digest	ug/g	88.40	<1.00e-02	3.210	<3.70e0	n/a	n/a	n/a	2.230	n/a
S95T003303	A	Iron -ICP-Acid Digest	ug/g	90.60	<5.00e-02	3.78e+03	3.82e+03	3.80e+03	1.05	n/a	11.20	n/a
S95T003303	A	Potassium -ICP-Acid Digest	ug/g	86.00	<5.00e-01	6.59e+03	6.64e+03	6.64e+03	1.66	n/a	112.0	n/a
S95T003303	A	Lanthanum -ICP-Acid Digest	ug/g	90.40	<5.00e-02	1.14e+04	1.15e+04	1.14e+04	0.87	n/a	11.20	n/a
S95T003303	A	Lithium -ICP-Acid Digest	ug/g	92.00	<1.00e-02	41.10	42.60	41.85	3.58	n/a	2.230	n/a
S95T003303	A	Magnesium -ICP-Acid Digest	ug/g	84.80	<1.00e-01	38.30	<3.70e1	n/a	n/a	n/a	22.30	n/a
S95T003303	A	Manganese -ICP-Acid Digest	ug/g	85.60	<1.00e-02	1.74e+04	1.62e+04	1.68e+04	7.14	n/a	2.230	n/a
S95T003303	A	Molybdenum -ICP-Acid Digest	ug/g	87.80	<5.00e-02	<1.12e+01	<1.85e1	n/a	n/a	n/a	11.20	n/a
S95T003303	A	Sodium -ICP-Acid Digest	ug/g	91.80	3.82e-01	2.74e+04	2.79e+04	2.76e+04	1.81	n/a	22.30	n/a
S95T003303	A	Neodymium -ICP-Acid Digest	ug/g	89.00	<1.00e-01	<2.23e+01	<3.70e1	n/a	n/a	n/a	22.30	n/a
S95T003303	A	Nickel -ICP-Acid Digest	ug/g	86.80	<2.00e-02	269.0	273.0	271.0	1.48	n/a	4.470	n/a
S95T003303	A	Phosphorus -ICP-Acid Digest	ug/g	87.00	<2.00e-01	1.95e+03	2.00e+03	1.98e+03	2.53	n/a	44.70	n/a
S95T003303	A	Lead -ICP-Acid Digest	ug/g	84.00	<1.00e-01	<2.23e+01	<3.70e1	n/a	n/a	n/a	22.30	n/a
S95T003303	A	Sulfur -ICP-Acid Digest	ug/g	83.60	<1.00e-01	59.00	64.50	61.75	8.91	n/a	22.30	n/a
S95T003303	A	Antimony -ICP-Acid Digest	ug/g	80.60	<6.00e-02	<1.34e+01	<2.22e1	n/a	n/a	n/a	13.40	n/a
S95T003303	A	Selenium -ICP-Acid Digest	ug/g	87.20	<1.00e-01	<2.23e+01	<3.70e1	n/a	n/a	n/a	22.30	n/a
S95T003303	A	Silicon -ICP-Acid Digest	ug/g	94.20	1.29e-01	1.03e+03	976.0	1.00e+03	5.38	n/a	11.20	n/a
S95T003303	A	Samarium -ICP-Acid Digest	ug/g	87.80	<1.00e-01	<2.23e+01	<3.70e1	n/a	n/a	n/a	22.30	n/a
S95T003303	A	Strontium -ICP-Acid Digest	ug/g	89.00	<1.00e-02	227.0	230.0	228.5	1.31	n/a	2.230	n/a
S95T003303	A	Titanium-ICP-Acid Digest	ug/g	86.40	<1.00e-02	3.360	<3.70e0	n/a	n/a	n/a	2.230	n/a
S95T003303	A	Thallium -ICP-Acid Digest	ug/g	84.00	<2.00e-01	<4.47e+01	<7.41e1	n/a	n/a	n/a	44.70	n/a
S95T003303	A	Uranium -ICP-Acid Digest	ug/g	85.20	<5.00e-02	<1.12e+02	<1.85e2	n/a	n/a	n/a	112.0	n/a
S95T003303	A	Vanadium -ICP-Acid Digest	ug/g	86.00	<5.00e-01	<1.12e+02	<1.85e1	n/a	n/a	n/a	11.20	n/a
S95T003303	A	Zinc -ICP-Acid Digest	ug/g	82.40	<1.00e-02	11.40	8.100	9.750	33.8	n/a	2.230	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003303	A		Zirconium -ICP-Acid Digest	ug/g	86.40	<1.00e-02	<2.23e+00	<3.70e0	n/a	n/a	n/a	2.230	n/a
S95T003329	W		Bromide by Ion Chromatograph	ug/g	101.0	<1.26e-01	647.6	627.0	637.3	3.29	n/a	145.2	n/a
S95T003329	W		Chloride-IC-Dionex 4000i/4500	ug/g	97.09	<1.70e-02	647.6	647.0	647.3	0.15	n/a	19.59	n/a
S95T003329	W		Fluoride-IC-Dionex 4000i/4500	ug/g	106.8	<1.30e-02	7.09e+03	6.99e+03	7.04e+03	1.42	n/a	27.47	n/a
S95T003329	W		Nitrite-IC - Dionex 4000i/4500	ug/g	94.22	<1.07e-01	225.7	228.0	226.8	0.88	n/a	123.3	n/a
S95T003329	W		Nitrate by IC-Dionex4000i/4500	ug/g	108.8	<1.40e-01	5.48e+04	5.43e+04	5.46e+04	0.92	n/a	295.8	n/a
S95T003329	W		Oxalate by IC - Dionex 4000i	ug/g	103.4	<1.05e-01	1.82e+03	1.77e+03	1.80e+03	2.79	n/a	121.0	n/a
S95T003329	W		Phosphate-IC-Dionex 4000i/4500	ug/g	101.8	<1.19e-01	2.95e+03	2.89e+03	2.92e+03	2.05	n/a	137.1	n/a
S95T003329	W		Sulfate by IC-Dionex4000i/4500	ug/g	101.3	<1.36e-01	279.0	296.0	287.5	5.91	n/a	156.7	n/a
S95T003344	F		Alpha of Digested Solid	uci/g	112.5	<8.55e-04	1.82e-01	2.43e-01	2.12e-01	28.7	78.06	1.16e-03	3.67E+00

Final Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 13

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003224		Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.130	1.160	5.17	n/a	5.00e-01	n/a
S95T003278		% Water by IGA using Mettler	%	101.6	n/a	50.78	40.95	45.87	21.4	n/a	n/a	n/a
S95T003278		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003278		DSC Exotherm using Mettler	Joules/g	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003304	A	Silver - ICP-Acid Digest	ug/g	85.80	<1.00e-02	5.810	5.780	5.795	0.52	n/a	4.580	n/a
S95T003304	A	Aluminum - ICP-Acid Digest	ug/g	87.60	<5.00e-02	44.80	39.50	42.15	12.6	n/a	22.90	n/a
S95T003304	A	Arsenic - ICP-Acid Digest	ug/g	88.80	<1.00e-01	<4.58e+01	<4.09e1	n/a	n/a	n/a	45.80	n/a
S95T003304	A	Boron - ICP-Acid Digest	ug/g	86.80	3.00e-01	162.0	139.0	150.5	15.3	n/a	22.90	n/a
S95T003304	A	Barium - ICP-Acid Digest	ug/g	88.40	<5.00e-02	<2.29e+01	<2.04e1	n/a	n/a	n/a	22.90	n/a
S95T003304	A	Beryllium - ICP-Acid Digest	ug/g	101.0	<5.00e-03	<2.29e+00	<2.04e0	n/a	n/a	n/a	2.290	n/a
S95T003304	A	Bismuth - ICP-Acid Digest	ug/g	85.60	<1.00e-01	5.03e+04	5.15e+04	5.09e+04	2.36	n/a	45.80	n/a
S95T003304	A	Calcium - ICP-Acid Digest	ug/g	86.40	<1.00e-01	225.0	237.0	231.0	5.19	n/a	45.80	n/a
S95T003304	A	Cadmium - ICP-Acid Digest	ug/g	85.40	<5.00e-03	<2.29e+00	<2.04e0	n/a	n/a	n/a	2.290	n/a
S95T003304	A	Cerium - ICP-Acid Digest	ug/g	92.00	<1.00e-01	56.20	62.60	59.40	10.8	n/a	45.80	n/a
S95T003304	A	Cobalt - ICP-Acid Digest	ug/g	87.00	<2.00e-02	<9.16e+00	<8.18e0	n/a	n/a	n/a	9.160	n/a
S95T003304	A	Chromium - ICP-Acid Digest	ug/g	88.20	<1.00e-02	4.31e+03	4.36e+03	4.34e+03	1.15	n/a	4.580	n/a
S95T003304	A	Copper - ICP-Acid Digest	ug/g	88.40	<1.00e-02	<4.58e+00	<4.09e0	n/a	n/a	n/a	4.580	n/a
S95T003304	A	Iron - ICP-Acid Digest	ug/g	90.60	<5.00e-02	3.85e+03	3.85e+03	3.85e+03	0.00	n/a	22.90	n/a
S95T003304	A	Potassium - ICP-Acid Digest	ug/g	86.00	<5.00e-01	7.16e+03	7.03e+03	7.10e+03	1.83	n/a	229.0	n/a
S95T003304	A	Lanthanum - ICP-Acid Digest	ug/g	90.40	<5.00e-02	1.32e+04	1.40e+04	1.36e+04	5.88	n/a	22.90	n/a
S95T003304	A	Lithium - ICP-Acid Digest	ug/g	92.00	<1.00e-02	23.30	21.20	22.25	9.44	n/a	4.580	n/a
S95T003304	A	Magnesium - ICP-Acid Digest	ug/g	84.80	<1.00e-01	<4.58e+01	41.90	n/a	n/a	n/a	45.80	n/a
S95T003304	A	Manganese - ICP-Acid Digest	ug/g	85.60	<1.00e-02	1.77e+04	1.86e+04	1.82e+04	4.96	n/a	4.580	n/a
S95T003304	A	Molybdenum - ICP-Acid Digest	ug/g	87.80	<5.00e-02	<2.29e+01	<2.04e1	n/a	n/a	n/a	22.90	n/a
S95T003304	A	Sodium - ICP-Acid Digest	ug/g	91.80	3.82e-01	2.91e+04	2.86e+04	2.88e+04	1.73	n/a	45.80	n/a
S95T003304	A	Neodymium - ICP-Acid Digest	ug/g	89.00	<1.00e-01	<4.58e+01	<4.09e1	n/a	n/a	n/a	45.80	n/a
S95T003304	A	Nickel - ICP-Acid Digest	ug/g	86.80	<2.00e-02	252.0	257.0	254.5	1.96	n/a	9.160	n/a
S95T003304	A	Phosphorus - ICP-Acid Digest	ug/g	87.00	<2.00e-01	2.09e+03	2.30e+03	2.20e+03	9.57	n/a	91.60	n/a
S95T003304	A	Lead - ICP-Acid Digest	ug/g	84.00	<1.00e-01	<4.58e+01	<4.09e1	n/a	n/a	n/a	45.80	n/a
S95T003304	A	Sulfur - ICP-Acid Digest	ug/g	83.60	<1.00e-01	79.50	60.50	70.00	27.1	n/a	45.80	n/a
S95T003304	A	Antimony - ICP-Acid Digest	ug/g	80.60	<6.00e-02	<2.75e+01	<2.45e1	n/a	n/a	n/a	27.50	n/a
S95T003304	A	Selenium - ICP-Acid Digest	ug/g	87.20	<1.00e-01	<4.58e+01	<4.09e1	n/a	n/a	n/a	45.80	n/a
S95T003304	A	Silicon - ICP-Acid Digest	ug/g	94.20	1.29e-01	939.0	960.0	949.5	2.21	n/a	22.90	n/a
S95T003304	A	Samarium - ICP-Acid Digest	ug/g	87.80	<1.00e-01	<4.58e+01	<4.09e1	n/a	n/a	n/a	45.80	n/a
S95T003304	A	Strontium - ICP-Acid Digest	ug/g	89.00	<1.00e-02	263.0	298.0	280.5	12.5	n/a	4.580	n/a
S95T003304	A	Titanium - ICP-Acid Digest	ug/g	86.40	<1.00e-02	<4.58e+00	4.140	n/a	n/a	n/a	4.580	n/a
S95T003304	A	Thallium - ICP-Acid Digest	ug/g	84.00	<2.00e-01	<9.16e+01	<8.18e1	n/a	n/a	n/a	91.60	n/a
S95T003304	A	Uranium - ICP-Acid Digest	ug/g	85.20	<5.00e-01	<2.29e+02	<2.04e2	n/a	n/a	n/a	229.0	n/a
S95T003304	A	Vanadium - ICP-Acid Digest	ug/g	86.00	<5.00e-02	<2.29e+01	<2.04e1	n/a	n/a	n/a	22.90	n/a
S95T003304	A	Zinc - ICP-Acid Digest	ug/g	82.40	<1.00e-02	15.20	15.20	15.20	0.00	n/a	4.580	n/a
S95T003304	W	Zirconium - ICP-Acid Digest	ug/g	86.40	<1.00e-02	<4.58e+00	<4.09e0	n/a	n/a	n/a	4.580	n/a
S95T003330	W	Bromide by Ion Chromatograph	ug/g	106.3	<1.26e-01	497.8	490.0	493.9	1.62	99.63	264.2	n/a
S95T003330	W	Chloride-IC-Dionex 4001/4500	ug/g	98.23	<1.70e-02	460.3	1.37e+03	915.1	99.5	103.6	35.64	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003330	W	Fluoride-IC-Dionex 4000i/4500	ug/g	104.9	<1.30e-02	6.52e+03	6.73e+03	6.63e+03	3.17	123.3	27.26	n/a
S95T003330	W	Nitrite-IC - Dionex 4000i/4500	ug/g	99.07	<1.07e-01	932.9	328.0	630.5	96.0	87.88	224.3	n/a
S95T003330	W	Nitrate by IC-Dionex4000i/4500	ug/g	105.9	1.89e-01	5.03e+04	5.24e+04	5.14e+04	4.09	110.7	293.5	n/a
S95T003330	W	Oxalate by IC - Dionex 4000i	ug/g	106.1	<1.05e-01	1.70e+03	1.73e+03	1.71e+03	1.75	107.6	220.1	n/a
S95T003330	W	Phosphate-IC-Dionex 4000i/4500	ug/g	107.3	6.83e-01	2.73e+03	3.95e+03	3.34e+03	36.5	119.4	249.5	n/a
S95T003330	W	Sulfate by IC-Dionex4000i/4500	ug/g	104.0	<1.36e-01	4.13.2	542.0	477.6	27.0	101.0	285.1	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003225		Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.240	1.215	4.12	n/a	5.00e-01	n/a
S95T003279		% Water by IGA using Mettler	%	101.6	n/a	77.56	78.29	77.93	0.94	n/a	n/a	n/a
S95T003279		DSC Exotherm Dry	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003279		DSC Exotherm using Mettler	Joules/g	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003305	A	Silver -ICP-Acid Digest	ug/g	89.60	<1.00e-02	4.530	4.760	4.645	4.95	87.40	3.600	n/a
S95T003305	A	Aluminum -ICP-Acid Digest	ug/g	92.40	<5.00e-02	44.50	43.00	43.75	3.43	90.06	18.00	n/a
S95T003305	A	Arsenic -ICP-Acid Digest	ug/g	94.20	<1.00e-01	<3.60e+01	<3.66e1	151.0	18.5	92.28	18.00	n/a
S95T003305	A	Boron -ICP-Acid Digest	ug/g	95.40	<5.00e-02	165.0	137.0	151.0	18.5	92.28	18.00	n/a
S95T003305	A	Barium -ICP-Acid Digest	ug/g	91.60	<5.00e-02	<1.80e+01	<1.83e1	n/a	n/a	89.60	18.00	n/a
S95T003305	A	Beryllium -ICP-Acid Digest	ug/g	105.2	<5.00e-03	<1.80e+00	<1.83e0	n/a	n/a	96.80	1.800	n/a
S95T003305	A	Bismuth -ICP-Acid Digest	ug/g	89.80	<1.00e-01	4.73e+04	4.76e+04	4.74e+04	0.63	197.0	36.00	n/a
S95T003305	A	Calcium -ICP-Acid Digest	ug/g	88.60	<1.00e-01	280.0	228.0	254.0	20.5	80.14	36.00	n/a
S95T003305	A	Cadmium -ICP-Acid Digest	ug/g	89.00	<5.00e-03	<1.80e+00	<1.83e0	n/a	n/a	86.40	1.800	n/a
S95T003305	A	Cerium -ICP-Acid Digest	ug/g	94.40	<1.00e-01	50.30	50.30	50.30	0.00	91.02	36.00	n/a
S95T003305	A	Cobalt -ICP-Acid Digest	ug/g	91.00	<2.00e-02	<7.21e+00	<7.31e0	n/a	n/a	88.20	7.210	n/a
S95T003305	A	Chromium -ICP-Acid Digest	ug/g	90.80	<1.00e-02	3.48e+03	3.52e+03	3.50e+03	1.14	81.40	3.600	n/a
S95T003305	A	Copper -ICP-Acid Digest	ug/g	93.00	<1.00e-02	<3.60e+00	<3.66e0	n/a	n/a	89.20	3.600	n/a
S95T003305	A	Iron -ICP-Acid Digest	ug/g	90.60	<5.00e-02	3.38e+03	3.43e+03	3.40e+03	1.47	86.42	18.00	n/a
S95T003305	A	Potassium -ICP-Acid Digest	ug/g	91.00	<5.00e-01	6.00e+03	6.04e+03	6.02e+03	0.66	86.42	180.0	n/a
S95T003305	A	Lanthanum -ICP-Acid Digest	ug/g	93.20	<5.00e-02	1.06e+04	1.01e+04	1.04e+04	4.83	160.3	18.00	n/a
S95T003305	A	Lithium -ICP-Acid Digest	ug/g	94.80	<1.00e-02	12.10	12.90	12.50	6.40	89.66	3.600	n/a
S95T003305	A	Magnesium -ICP-Acid Digest	ug/g	89.00	<1.00e-01	44.00	<3.66e1	n/a	n/a	85.12	3.600	n/a
S95T003305	A	Manganese -ICP-Acid Digest	ug/g	88.80	<1.00e-02	1.58e+04	1.60e+04	1.59e+04	1.26	124.7	3.600	n/a
S95T003305	A	Molybdenum -ICP-Acid Digest	ug/g	91.40	<5.00e-02	<1.80e+01	<1.83e1	n/a	n/a	86.20	18.00	n/a
S95T003305	A	Sodium -ICP-Acid Digest	ug/g	101.6	<1.00e-01	2.56e+04	2.59e+04	2.58e+04	1.17	123.2	36.00	n/a
S95T003305	A	Neodymium -ICP-Acid Digest	ug/g	91.40	<1.00e-01	<3.60e+01	<3.66e1	n/a	n/a	89.00	36.00	n/a
S95T003305	A	Nickel -ICP-Acid Digest	ug/g	90.40	<2.00e-02	211.0	216.0	213.5	2.34	88.40	7.210	n/a
S95T003305	A	Phosphorus -ICP-Acid Digest	ug/g	90.60	<2.00e-01	1.97e+03	2.02e+03	2.00e+03	2.51	94.86	72.10	n/a
S95T003305	A	Lead -ICP-Acid Digest	ug/g	88.00	<1.00e-01	40.40	50.50	45.45	22.2	85.52	36.00	n/a
S95T003305	A	Sulfur -ICP-Acid Digest	ug/g	89.80	1.01e-01	55.50	62.90	59.20	12.5	86.84	36.00	n/a
S95T003305	A	Antimony -ICP-Acid Digest	ug/g	86.20	<6.00e-02	<2.16e+01	<2.19e1	n/a	n/a	79.40	21.60	n/a
S95T003305	A	Selenium -ICP-Acid Digest	ug/g	91.40	<1.00e-01	<3.60e+01	<3.66e1	n/a	n/a	90.00	36.00	n/a
S95T003305	A	Silicon -ICP-Acid Digest	ug/g	115.4	<5.00e-02	860.0	904.0	882.0	4.99	168.6	18.00	n/a
S95T003305	A	Samarium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	<3.60e+01	<3.66e1	n/a	n/a	87.00	36.00	n/a
S95T003305	A	Strontium -ICP-Acid Digest	ug/g	91.80	<1.00e-02	327.0	334.0	330.5	2.12	90.96	3.600	n/a
S95T003305	A	Titanium -ICP-Acid Digest	ug/g	88.20	<1.00e-02	<3.60e+00	<3.66e0	n/a	n/a	86.20	3.600	n/a
S95T003305	A	Thallium -ICP-Acid Digest	ug/g	88.00	<2.00e-01	<7.21e+01	<7.31e1	n/a	n/a	81.20	72.10	n/a
S95T003305	A	Uranium -ICP-Acid Digest	ug/g	88.90	<5.00e-01	<1.80e+02	<1.83e2	n/a	n/a	85.20	180.0	n/a
S95T003305	A	Vanadium -ICP-Acid Digest	ug/g	89.60	<5.00e-02	<1.80e+01	<1.83e1	n/a	n/a	86.60	18.00	n/a
S95T003305	A	Zinc -ICP-Acid Digest	ug/g	86.80	<1.00e-02	65.40	65.40	65.40	0.00	84.14	3.600	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003305	A		Zirconium -ICP-Acid Digest	ug/g	89.80	<1.00e-02	<3.60e+00	<3.66e0	n/a	n/a	86.00	3.600	n/a
S95T003331	W		Bromide by Ion Chromatograph	ug/g	106.3	<1.26e-01	459.9	460.0	459.9	0.00	n/a	270.1	n/a
S95T003331	W		Chloride-IC-Dionex 4000i/4500	ug/g	98.23	<1.70e-02	611.2	606.0	608.6	0.82	n/a	36.44	n/a
S95T003331	W		Fluoride-IC-Dionex 4000i/4500	ug/g	104.9	<1.30e-02	6.80e+03	6.74e+03	6.77e+03	0.89	n/a	27.87	n/a
S95T003331	W		Nitrite-IC - Dionex 4000i/4500	ug/g	99.07	<1.07e-01	335.0	340.0	337.5	1.48	n/a	229.4	n/a
S95T003331	W		Nitrate by IC-Dionex4000i/4500	ug/g	105.9	1.89e-01	5.19e+04	5.16e+04	5.18e+04	0.58	n/a	300.1	n/a
S95T003331	W		Oxalate by IC - Dionex 4000i	ug/g	106.1	<1.05e-01	1.72e+03	1.73e+03	1.73e+03	0.58	n/a	225.1	n/a
S95T003331	W		Phosphate-IC-Dionex 4000i/4500	ug/g	107.3	6.83e-01	2.73e+03	2.75e+03	2.74e+03	0.73	n/a	255.1	n/a
S95T003331	W		Sulfate by IC-Dionex4000i/4500	ug/g	104.0	<1.36e-01	401.1	413.0	407.1	2.95	n/a	291.6	n/a
S95T003345	F		Alpha of Digested Solid	uCi/g	96.88	<3.35e-03	2.19e-01	2.45e-01	2.32e-01	11.2	78.83	5.46e-03	7.25e+00

Note: A triplicate TGA run was performed on sample S95T003278. Results was 74.48%. Average of the three results is 55.44% and standard deviation is 17.29%.

Final Results for Cores 112 and 114
B-204

27-feb-1996 14:09:38
A-0002-1

CORE NUMBER: 114
SEGMENT #: 14

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003226		Bulk Density of Sample	g/mL	n/a	n/a	1.190	1.200	1.195	0.84	n/a	5.00e-01	n/a
S95T003280		% Water by TGA using Mettler	%	101.6	n/a	77.00	78.05	77.53	1.35	n/a	n/a	n/a
S95T003280		DSC Exotherm Dry Calculated	Joules/g	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003280		DSC Exotherm using Mettler	Joules/g	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003306	A	Silver - ICP-Acid Digest	ug/g	89.60	<1.00e-02	4.760	4.410	4.585	7.63	n/a	4.290	n/a
S95T003306	A	Aluminum - ICP-Acid Digest	ug/g	92.40	<5.00e-02	46.40	48.80	47.60	5.04	n/a	21.50	n/a
S95T003306	A	Arsenic - ICP-Acid Digest	ug/g	94.20	<1.00e-01	<4.29e+01	<4.27e1	153.0	13.1	n/a	42.90	n/a
S95T003306	A	Boron - ICP-Acid Digest	ug/g	95.40	<5.00e-02	143.0	163.0	153.0	13.1	n/a	21.50	n/a
S95T003306	A	Barium - ICP-Acid Digest	ug/g	91.60	<5.00e-02	<2.16e+01	<2.14e1	n/a	n/a	n/a	21.50	n/a
S95T003306	A	Beryllium - ICP-Acid Digest	ug/g	105.2	<5.00e-03	<2.16e+00	<2.14e0	n/a	n/a	n/a	2.150	n/a
S95T003306	A	Bismuth - ICP-Acid Digest	ug/g	89.80	<1.00e-01	4.80e+04	4.73e+04	4.76e+04	1.47	n/a	42.90	n/a
S95T003306	A	Calcium - ICP-Acid Digest	ug/g	88.60	<1.00e-01	298.0	369.0	333.5	21.3	n/a	42.90	n/a
S95T003306	A	Cadmium - ICP-Acid Digest	ug/g	88.00	<5.00e-03	<2.16e+00	<2.14e0	n/a	n/a	n/a	2.150	n/a
S95T003306	A	Cerium - ICP-Acid Digest	ug/g	94.40	<1.00e-01	49.00	50.10	49.55	2.22	n/a	42.90	n/a
S95T003306	A	Cobalt - ICP-Acid Digest	ug/g	91.00	<2.00e-02	<8.58e+00	<8.55e0	n/a	n/a	n/a	8.580	n/a
S95T003306	A	Chromium - ICP-Acid Digest	ug/g	90.80	<1.00e-02	2.25e+03	2.23e+03	2.24e+03	0.89	n/a	4.290	n/a
S95T003306	A	Copper - ICP-Acid Digest	ug/g	93.00	<1.00e-02	5.150	<4.27e0	n/a	n/a	n/a	4.290	n/a
S95T003306	A	Iron - ICP-Acid Digest	ug/g	90.60	<5.00e-02	3.64e+03	3.61e+03	3.62e+03	0.83	n/a	21.50	n/a
S95T003306	A	Potassium - ICP-Acid Digest	ug/g	91.00	<5.00e-01	5.76e+03	5.96e+03	5.86e+03	3.41	n/a	215.0	n/a
S95T003306	A	Lanthanum - ICP-Acid Digest	ug/g	93.20	<5.00e-02	1.15e+04	1.16e+04	1.16e+04	0.87	n/a	21.50	n/a
S95T003306	A	Lithium - ICP-Acid Digest	ug/g	94.80	<1.00e-02	24.00	22.80	23.40	5.13	n/a	4.290	n/a
S95T003306	A	Magnesium - ICP-Acid Digest	ug/g	89.00	<1.00e-01	<4.29e+01	<4.27e1	n/a	n/a	n/a	42.90	n/a
S95T003306	A	Manganese - ICP-Acid Digest	ug/g	88.80	<1.00e-02	1.57e+04	1.54e+04	1.56e+04	1.93	n/a	4.290	n/a
S95T003306	A	Molybdenum - ICP-Acid Digest	ug/g	91.40	<5.00e-02	<2.16e+01	<2.14e1	n/a	n/a	n/a	21.50	n/a
S95T003306	A	Sodium - ICP-Acid Digest	ug/g	101.6	<1.00e-01	2.51e+04	2.56e+04	2.54e+04	1.97	n/a	42.90	n/a
S95T003306	A	Neodymium - ICP-Acid Digest	ug/g	91.40	<1.00e-01	<4.29e+01	<4.27e1	n/a	n/a	n/a	42.90	n/a
S95T003306	A	Nickel - ICP-Acid Digest	ug/g	90.40	<2.00e-02	251.0	250.0	250.5	0.40	n/a	8.580	n/a
S95T003306	A	Phosphorus - ICP-Acid Digest	ug/g	90.40	<2.00e-01	1.79e+03	1.78e+03	1.78e+03	0.56	n/a	85.80	n/a
S95T003306	A	Lead - ICP-Acid Digest	ug/g	88.00	<1.00e-01	1.47e+03	1.46e+03	1.46e+03	0.68	n/a	42.90	n/a
S95T003306	A	Sulfur - ICP-Acid Digest	ug/g	89.80	1.01e-01	50.80	63.00	56.90	21.4	n/a	42.90	n/a
S95T003306	A	Antimony - ICP-Acid Digest	ug/g	86.20	<6.00e-02	<2.59e+01	<2.56e1	n/a	n/a	n/a	25.80	n/a
S95T003306	A	Selenium - ICP-Acid Digest	ug/g	91.40	<1.00e-01	<4.29e+01	<4.27e1	n/a	n/a	n/a	42.90	n/a
S95T003306	A	Samarium - ICP-Acid Digest	ug/g	115.4	<5.00e-02	819.0	892.0	855.5	8.53	n/a	21.50	n/a
S95T003306	A	Strontium - ICP-Acid Digest	ug/g	91.80	<1.00e-02	326.0	329.0	327.5	0.92	n/a	4.290	n/a
S95T003306	A	Titanium - ICP-Acid Digest	ug/g	88.20	<1.00e-02	<4.29e+00	<4.27e0	n/a	n/a	n/a	4.290	n/a
S95T003306	A	Thallium - ICP-Acid Digest	ug/g	88.00	<2.00e-01	<8.58e+01	<8.55e1	n/a	n/a	n/a	85.80	n/a
S95T003306	A	Uranium - ICP-Acid Digest	ug/g	88.90	<5.00e-01	<2.16e+02	<2.14e2	n/a	n/a	n/a	215.0	n/a
S95T003306	A	Vanadium - ICP-Acid Digest	ug/g	89.60	<5.00e-02	<2.16e+01	<2.14e1	n/a	n/a	n/a	21.50	n/a
S95T003306	A	Zinc - ICP-Acid Digest	ug/g	86.80	<1.00e-02	262.0	260.0	261.0	0.77	n/a	4.290	n/a
S95T003306	A	Bromine by Ion Chromatograph	ug/g	89.80	<1.00e-01	<4.29e+00	<4.27e0	n/a	n/a	n/a	4.290	n/a
S95T003332	W	Chloride - IC-Dionex 4000i/4500	ug/g	99.13	<1.26e-01	552.4	589.0	570.7	6.49	96.05	90.13	n/a
S95T003332	W		ug/g	98.23	<1.70e-02	602.3	613.0	607.6	1.81	98.15	12.16	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003332	W	Fluoride-IC-Dionex 4000i/4500	ug/g	104.4	<1.30e-02	6.39e+03	6.38e+03	6.39e+03	0.16	98.85	48.83	n/a
S95T003332	W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.6	<1.07e-01	373.2	398.0	385.6	6.49	95.61	76.54	n/a
S95T003332	W	Nitrate by IC-Dionex 4000i/4500	ug/g	100.3	4.70e-01	4.52e+04	4.54e+04	4.53e+04	0.44	106.8	525.8	n/a
S95T003332	W	Oxalate by IC - Dionex 4000i	ug/g	103.2	<1.05e-01	1.80e+03	1.68e+03	1.74e+03	6.90	101.6	75.11	n/a
S95T003332	W	Phosphate-IC-Dionex 4000i/4500	ug/g	100.7	<1.19e-01	2.70e+03	2.53e+03	2.62e+03	6.50	102.8	85.12	n/a
S95T003332	W	Sulfate by IC-Dionex 4000i/4500	ug/g	100.0	<1.36e-01	419.7	480.0	449.9	13.3	98.82	97.28	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003227		Bulk Density of Sample	g/mL	n/a	n/a	1.180	1.220	1.200	3.33	n/a	5.00e-01	n/a
S95T003281		% Water by ToA using Mettler	%	101.6	n/a	77.15	76.67	76.91	0.62	n/a	n/a	n/a
S95T003281		DSC Exotherm Dry Calculated	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003281		DSC Exotherm using Mettler	Joules/g	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003307	A	Silver -ICP-Acid Digest	ug/g	89.60	<1.00e-02	4.300	4.340	4.320	0.93	n/a	3.860	n/a
S95T003307	A	Aluminum -ICP-Acid Digest	ug/g	92.40	<5.00e-02	43.60	53.10	48.35	19.6	n/a	19.30	n/a
S95T003307	A	Arsenic -ICP-Acid Digest	ug/g	94.20	<1.00e-01	<3.86e+01	<4.22e+1	n/a	n/a	n/a	38.60	n/a
S95T003307	A	Boron -ICP-Acid Digest	ug/g	95.40	<5.00e-02	125.0	170.0	147.5	30.5	n/a	19.30	n/a
S95T003307	A	Barium -ICP-Acid Digest	ug/g	91.60	<5.00e-02	<1.93e+01	<2.11e+1	n/a	n/a	n/a	19.30	n/a
S95T003307	A	Beryllium -ICP-Acid Digest	ug/g	105.2	<5.00e-03	<1.93e+01	<2.11e+1	n/a	n/a	n/a	1.930	n/a
S95T003307	A	Bismuth -ICP-Acid Digest	ug/g	89.80	<1.00e-01	5.03e+04	5.33e+04	5.18e+04	5.79	n/a	38.60	n/a
S95T003307	A	Calcium -ICP-Acid Digest	ug/g	88.60	<1.00e-01	521.0	347.0	434.0	40.1	n/a	38.60	n/a
S95T003307	A	Cadmium -ICP-Acid Digest	ug/g	89.00	<5.00e-03	<1.93e+01	<2.11e+1	n/a	n/a	n/a	1.930	n/a
S95T003307	A	Cerium -ICP-Acid Digest	ug/g	94.40	<1.00e-01	61.40	65.30	63.35	6.16	n/a	38.60	n/a
S95T003307	A	Cobalt -ICP-Acid Digest	ug/g	91.00	<2.00e-02	<7.73e+00	<8.46e+0	n/a	n/a	n/a	7.730	n/a
S95T003307	A	Chromium -ICP-Acid Digest	ug/g	90.80	<1.00e-02	1.68e+03	1.78e+03	1.73e+03	5.78	n/a	3.860	n/a
S95T003307	A	Copper -ICP-Acid Digest	ug/g	93.00	<1.00e-02	<3.86e+00	4.510	n/a	n/a	n/a	3.860	n/a
S95T003307	A	Iron -ICP-Acid Digest	ug/g	90.60	<5.00e-02	3.59e+03	3.87e+03	3.73e+03	7.51	n/a	19.30	n/a
S95T003307	A	Potassium -ICP-Acid Digest	ug/g	91.00	<5.00e-01	5.47e+03	5.61e+03	5.61e+03	4.99	n/a	193.0	n/a
S95T003307	A	Lanthanum -ICP-Acid Digest	ug/g	93.20	<5.00e-02	1.20e+04	1.28e+04	1.24e+04	6.45	n/a	19.30	n/a
S95T003307	A	Lithium -ICP-Acid Digest	ug/g	94.80	<1.00e-02	17.50	17.90	17.70	2.26	n/a	3.860	n/a
S95T003307	A	Magnesium -ICP-Acid Digest	ug/g	89.00	<1.00e-01	<3.86e+01	54.20	n/a	n/a	n/a	38.60	n/a
S95T003307	A	Manganese -ICP-Acid Digest	ug/g	88.80	<1.00e-02	1.54e+04	1.64e+04	1.59e+04	6.29	n/a	3.860	n/a
S95T003307	A	Molybdenum -ICP-Acid Digest	ug/g	91.40	<5.00e-02	<1.93e+01	<2.11e+1	n/a	n/a	n/a	19.30	n/a
S95T003307	A	Sodium -ICP-Acid Digest	ug/g	101.6	<1.00e-01	2.35e+04	2.50e+04	2.42e+04	6.19	n/a	38.60	n/a
S95T003307	A	Neodymium -ICP-Acid Digest	ug/g	91.40	<1.00e-01	<3.86e+01	<4.22e+1	n/a	n/a	n/a	38.60	n/a
S95T003307	A	Nickel -ICP-Acid Digest	ug/g	90.40	<2.00e-02	261.0	274.0	267.5	4.86	n/a	7.730	n/a
S95T003307	A	Phosphorus -ICP-Acid Digest	ug/g	90.40	<2.00e-01	1.77e+03	1.88e+03	1.82e+03	6.03	n/a	77.30	n/a
S95T003307	A	Lead -ICP-Acid Digest	ug/g	88.00	<1.00e-01	5.14e+03	5.46e+03	5.30e+03	6.04	n/a	38.60	n/a
S95T003307	A	Sulfur -ICP-Acid Digest	ug/g	89.80	<1.01e-01	58.30	62.00	60.15	6.15	n/a	38.60	n/a
S95T003307	A	Antimony -ICP-Acid Digest	ug/g	86.20	<6.00e-02	<2.32e+01	<2.53e+1	n/a	n/a	n/a	23.20	n/a
S95T003307	A	Selenium -ICP-Acid Digest	ug/g	91.40	<1.00e-01	<3.86e+01	<4.22e+1	n/a	n/a	n/a	38.60	n/a
S95T003307	A	Silicon -ICP-Acid Digest	ug/g	115.4	<5.00e-02	818.0	812.0	815.0	0.74	n/a	19.30	n/a
S95T003307	A	Samarium -ICP-Acid Digest	ug/g	90.80	<1.00e-01	<3.86e+01	<4.22e+1	n/a	n/a	n/a	38.60	n/a
S95T003307	A	Strontium -ICP-Acid Digest	ug/g	91.80	<1.00e-02	273.0	330.0	301.5	18.9	n/a	3.860	n/a
S95T003307	A	Titanium -ICP-Acid Digest	ug/g	88.20	<1.00e-02	<3.86e+00	<4.22e+0	n/a	n/a	n/a	3.860	n/a
S95T003307	A	Thallium -ICP-Acid Digest	ug/g	88.00	<2.00e-01	<7.73e+01	<8.46e+1	n/a	n/a	n/a	77.30	n/a
S95T003307	A	Uranium -ICP-Acid Digest	ug/g	88.90	<5.00e-01	<1.93e+01	<2.11e+1	n/a	n/a	n/a	193.0	n/a
S95T003307	A	Vanadium -ICP-Acid Digest	ug/g	89.60	<5.00e-02	<1.93e+01	<2.11e+1	n/a	n/a	n/a	19.30	n/a
S95T003307	A	Zinc -ICP-Acid Digest	ug/g	86.80	<1.00e-02	626.0	662.0	644.0	5.59	n/a	3.860	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003307	A		Zirconium -ICP-Acid Digest	ug/g	89.80	<1.00e-02	<3.86e+00	<4.22e0	n/a	n/a	n/a	3.860	n/a
S95T003333	W		Bromide by Ion Chromatograph	ug/g	99.13	<1.26e-01	580.4	622.0	601.2	6.99	n/a	88.08	n/a
S95T003333	W		Chloride-IC-Dionex 4000i/4500	ug/g	98.23	<1.70e-02	672.1	622.0	647.0	7.73	n/a	11.88	n/a
S95T003333	W		Fluoride-IC-Dionex 4000i/4500	ug/g	104.4	<1.30e-02	6.33e+03	6.59e+03	6.46e+03	4.02	n/a	47.71	n/a
S95T003333	W		Nitrite-IC - Dionex 4000i/4500	ug/g	100.6	<1.07e-01	381.3	390.0	385.6	2.33	n/a	74.80	n/a
S95T003333	W		Nitrate by IC-Dionex4000i/4500	ug/g	100.3	4.70e-01	4.54e+04	4.75e+04	4.64e+04	4.52	n/a	513.8	n/a
S95T003333	W		Oxalate by IC - Dionex 4000i	ug/g	103.2	<1.05e-01	1.74e+03	1.90e+03	1.82e+03	8.79	n/a	73.40	n/a
S95T003333	W		Phosphate-IC-Dionex 4000i/4500	ug/g	100.7	<1.19e-01	2.68e+03	2.85e+03	2.76e+03	6.15	n/a	3.25e-01	n/a
S95T003333	W		Sulfate by IC-Dionex4000i/4500	ug/g	100.0	<1.36e-01	432.2	474.0	453.1	9.27	n/a	95.07	n/a
S95T003346	F		Alpha of Digested Solid	uCi/g	96.88	<3.35e-03	3.36e-01	3.29e-01	3.33e-01	2.11	77.30	5.53e-03	5.86e+00

Final Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: HHF blank

SEGMENT PORTION: Hydrostatic Head Fluid

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002952	D	Lithium-ICP-Acid Dil.	ug/mL	103.6	-2.36e+00	1.97e+03	1.98e+03	1.98e+03	0.51	-1.48e+02	1.10e-01	n/a
S95T002952		Bromide by Ion Chromatograph	ug/mL	104.7	<1.26e-01	2.77e+04	2.67e+04	2.72e+04	3.68	n/a	1.28e+03	n/a

Final Results for Cores 112 and 114
8-204

CORE NUMBER: 114

SEGMENT #: field blank

SEGMENT PORTION: Field Blank

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003349		% Water by TGA on Perkin Elmer	%	97.39	n/a	99.73	99.57	99.65	0.16	n/a	n/a	n/a
S95T003349		Specific Gravity	Sp.G.	99.10	n/a	1.000	1.000	1.000	0.00	n/a	1.00e-02	n/a
S95T003349		DSC Exotherm Dry	Joules/g Dry	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003349		DSC Exotherm using Mettler	Joules/g	102.3	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003349		Sulfate by IC-Dionex 4000i/4500	ug/mL	95.40	<1.36e-01	1.688	1.780	1.734	5.19	n/a	1.496	n/a
S95T003349		Phosphate-IC-Dionex 4000i/4500	ug/mL	91.58	<2.96e-01	<3.26e+00	<3.26e+00	n/a	n/a	n/a	3.256	n/a
S95T003349		Oxalate by IC - Dionex 4000i	ug/mL	100.8	<1.05e-01	<1.16e+00	<1.16e+00	n/a	n/a	n/a	1.155	n/a
S95T003349		Nitrate-IC - Dionex 4000i/4500	ug/mL	97.23	3.68e-01	4.597	<1.18e+00	4.559	1.75	n/a	1.540	n/a
S95T003349		Fluoride-IC-Dionex 4000i/4500	ug/mL	108.1	<1.30e-02	<1.43e-01	<1.43e-01	n/a	n/a	n/a	1.177	n/a
S95T003349		Chloride-IC-Dionex 4000i/4500	ug/mL	95.32	<1.70e-02	4.94e-01	3.84e-01	4.40e-01	25.5	n/a	1.87e-01	n/a
S95T003349		Bromide by Ion Chromatograph	ug/mL	96.52	<1.26e-01	<1.39e+00	<1.39e+00	n/a	n/a	n/a	1.386	n/a
S95T003349		Alpha in Liquid Samples	ug/mL	107.8	<7.65e-07	<7.65e-07	<1.51e-06	n/a	n/a	112.3	1.02e-06	1.84E+02
S95T003349		Silver-ICP-Acid Dil.	ug/mL	101.8	<1.00e-02	<1.00e-02	<1.00e-02	n/a	n/a	101.6	1.00e-02	n/a
S95T003349		Aluminum-ICP-Acid Dil.	ug/mL	97.20	<5.00e-02	5.39e-02	5.77e-02	5.58e-02	6.81	104.5	5.00e-02	n/a
S95T003349		Arsenic-ICP-Acid Dil.	ug/mL	105.6	<1.00e-01	<1.00e-01	<1.00e-01	n/a	n/a	106.4	1.00e-01	n/a
S95T003349		Boron-ICP-Acid Dil.	ug/mL	99.80	<5.00e-02	2.330	2.340	2.335	0.43	108.4	5.00e-02	n/a
S95T003349		Barium-ICP-Acid Dil.	ug/mL	99.80	<5.00e-02	<5.00e-02	<5.00e-02	n/a	n/a	97.60	5.00e-02	n/a
S95T003349		Beryllium-ICP-Acid Dil.	ug/mL	102.2	<5.00e-03	<5.00e-03	<5.00e-03	n/a	n/a	104.8	5.00e-03	n/a
S95T003349		Bismuth-ICP-Acid Dil.	ug/mL	104.4	<1.00e-01	<1.00e-01	<1.00e-01	n/a	n/a	105.6	1.00e-01	n/a
S95T003349		Calcium-ICP-Acid Dil.	ug/mL	105.8	<1.00e-01	3.42e-01	3.52e-01	3.47e-01	2.88	109.4	1.00e-01	n/a
S95T003349		Cadmium-ICP-Acid Dil.	ug/mL	105.0	<5.00e-03	<5.00e-03	<5.00e-03	n/a	n/a	104.8	5.00e-03	n/a
S95T003349		Cerium-ICP-Acid Dil.	ug/mL	103.6	<1.00e-01	<1.00e-01	<1.00e-01	n/a	n/a	104.0	1.00e-01	n/a
S95T003349		Cobalt-ICP-Acid Dil.	ug/mL	104.6	<2.00e-02	<2.00e-02	<2.00e-02	n/a	n/a	104.0	2.00e-02	n/a
S95T003349		Chromium-ICP-Acid Dil.	ug/mL	105.6	<1.00e-02	<1.00e-02	<1.00e-02	n/a	n/a	105.6	1.00e-02	n/a
S95T003349		Copper-ICP-Acid Dil.	ug/mL	101.2	<1.00e-02	<1.00e-02	<1.00e-02	n/a	n/a	104.8	1.00e-02	n/a
S95T003349		Iron-ICP-Acid Dil.	ug/mL	104.4	<5.00e-02	1.10e-01	1.08e-01	1.09e-01	1.83	104.8	5.00e-02	n/a
S95T003349		Potassium-ICP-Acid Dil.	ug/mL	100.4	<5.00e-01	5.21e-01	<5.00e-01	n/a	n/a	103.1	5.00e-01	n/a
S95T003349		Lanthanum-ICP-Acid Dil.	ug/mL	101.6	<5.00e-02	<5.00e-02	<5.00e-02	n/a	n/a	101.6	5.00e-02	n/a
S95T003349		Lithium-ICP-Acid Dil.	ug/mL	96.80	<1.00e-02	<1.00e-02	<1.00e-02	n/a	n/a	100.8	1.00e-02	n/a
S95T003349		Magnesium-ICP-Acid Dil.	ug/mL	98.60	<1.00e-01	<1.00e-01	<1.00e-01	n/a	n/a	108.8	1.00e-01	n/a
S95T003349		Manganese-ICP-Acid Dil.	ug/mL	101.8	<1.00e-02	2.10e-02	2.17e-02	2.14e-02	3.28	99.10	1.00e-02	n/a
S95T003349		Molybdenum-ICP-Acid Dil.	ug/mL	104.2	<5.00e-02	<5.00e-02	<5.00e-02	n/a	n/a	105.6	5.00e-02	n/a
S95T003349		Sodium-ICP-Acid Dil.	ug/mL	98.00	<1.00e-01	4.660	4.750	4.705	1.91	100.0	1.00e-01	n/a
S95T003349		Neodymium-ICP-Acid Dil.	ug/mL	102.2	<1.00e-01	<1.00e-01	<1.00e-01	n/a	n/a	104.8	1.00e-01	n/a
S95T003349		Nickel-ICP-Acid Dil.	ug/mL	104.4	<2.00e-02	<2.00e-02	<2.00e-02	n/a	n/a	104.8	2.00e-02	n/a
S95T003349		Phosphorus-ICP-Acid Dil.	ug/mL	106.4	<2.00e-01	<2.00e-01	<2.00e-01	n/a	n/a	108.8	2.00e-01	n/a
S95T003349		Lead-ICP-Acid Dil.	ug/mL	106.4	<1.00e-01	<1.00e-01	<1.00e-01	n/a	n/a	105.6	1.00e-01	n/a
S95T003349		Sulfur-ICP-Acid Dil.	ug/mL	101.2	<1.00e-01	4.74e-01	4.70e-01	4.72e-01	0.85	106.9	1.00e-01	n/a
S95T003349		Antimony-ICP-Acid Dil.	ug/mL	98.20	<6.00e-02	<6.00e-02	<6.00e-02	n/a	n/a	100.0	6.00e-02	n/a
S95T003349		Selenium-ICP-Acid Dil.	ug/mL	100.6	<1.00e-01	<1.00e-01	<1.00e-01	n/a	n/a	105.6	1.00e-01	n/a
S95T003349		Silicon-ICP-Acid Dil.	ug/mL	103.0	<5.00e-02	4.310	4.310	4.340	1.38	149.6	5.00e-02	n/a
S95T003349		Samarium-ICP-Acid Dil.	ug/mL	98.20	<1.00e-01	<1.00e-01	<1.00e-01	n/a	n/a	103.2	1.00e-01	n/a

Sample#	R A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95I003770	D	Strontium-ICP-Acid Dil.	ug/mL	99.00	<1.00e-02	<1.00e-02	<1.00e-2	n/a	n/a	100.0	1.00e-02	n/a
S95I003770	D	Titanium-ICP-Acid Dil.	ug/mL	98.60	<1.00e-02	<1.00e-02	<1.00e-2	n/a	n/a	100.8	1.00e-02	n/a
S95I003770	D	Thallium-ICP-Acid Dil.	ug/mL	102.4	<2.00e-01	<2.00e-01	<2.00e-1	n/a	n/a	101.6	2.00e-01	n/a
S95I003770	D	Uranium-ICP-Acid Dil.	ug/mL	95.70	<5.00e-01	<5.00e-01	<5.00e-1	n/a	n/a	106.4	5.00e-01	n/a
S95I003770	D	Vanadium-ICP-Acid Dil.	ug/mL	101.6	<5.00e-02	<5.00e-02	<5.00e-2	n/a	n/a	103.2	5.00e-02	n/a
S95I003770	D	Zinc-ICP-Acid Dil.	ug/mL	104.0	<1.00e-02	6.53e-02	7.17e-02	6.85e-02	9.34	108.4	1.00e-02	n/a
S95I003770	D	Zirconium-ICP-Acid Dil.	ug/mL	100.0	<1.00e-02	<1.00e-02	<1.00e-2	n/a	n/a	102.4	1.00e-02	n/a

WHC-SD-WM-DP-160, REV. 1

CHAIN OF CUSTODY FORMS

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

SHIP

(1) Shipment Number 2004-08-TF (2) Sample Number 95-225 (3) Supervisor Paul Ferguson
 (4) Tank B-204 (5) Riser 2 (6) Segment 1 (7) Core 112 (8) Cask Serial Number 11047

Radiation Survey Data:		(9) FIELD		(10) SHIPMENT DESCRIPTION	
Over Top Dose Rate	<u>L.5</u>	(Alpha)	<u>20.5</u>	A. Work Package Number	<u>55-25-00555</u>
Side Dose Rate	<u>L.5</u>	(Beta-Gamma)	<u>50.5</u>	B. Cask Seal Number	<u>1381</u>
Bottom Dose Rate	<u>L.5</u>	(Alpha)	<u>50.5</u>	C. Sampler Serial Number	<u>94-303</u>
Smearable Contamination	<u>L.20</u>	(Alpha)	<u>520</u>	D. Date and Time Sampler Unseated	<u>10/16/95 @ 2:10</u>
	<u>1000</u>	(Beta-Gamma)	<u>51K</u>	E. Expected Liquid Content	<u>30%</u>
RCT* (HPT)	<u>[Signature]</u>	(Signature)	<u>[Signature]</u>	F. Expected Solid Content	<u>70%</u>
RCT* (HPT)	<u>[Signature]</u>	(Signature)	<u>[Signature]</u>	G. Dose Rate Through Drill String	<u>4.2 mS/hr</u>
				H. Expected Sample Length	<u>19"</u>

WHC-SD-WM-DP-160, REV. 1

(11) INFORMATION (include statement of laboratory tests to be performed.)

5

(12) Field Comments	(34) Laboratory Comments
COG Eng. will determine expected sample length after zip cord.	

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	222-S	Mc. Jones Mc. Jones	10-12-95 9:00	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
Mc. Jones Mc. Jones		David J. Keane	10-12-95 9:30	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
David J. Keane David J. Keane		N. L. APPLERS	10-12-95	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?	Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 20GW-08-TF (2) Sample Number 95-226 (3) Supervisor Zane Paymen (8) Cask Serial Number 1047
(4) Tank B-204 (5) Riser 2 (6) Segment 2 (7) Core 112

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>6.5</u>					A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate	<u>4.5</u>					3. Cask Seal Number	<u>1379</u>
Bottom Dose Rate	<u>4.5</u>					C. Sampler Serial Number	<u>94-298</u>
Smearable Contamination	<u>120</u>					D. Date and Time Sampler Unseated	<u>10/14/85 @ 2225</u>
						E. Expected Liquid Content	<u>30%</u>
						F. Expected Solid Content	<u>70%</u>
						G. Dose Rate Through Drill String	<u>5.2 mR/Hr</u>
						H. Expected Sample Length	<u>19"</u>

RCT* [Signature] (HPT) (Beta-Gamma) RCT* [Signature] (HPT) (Alpha) (Beta-Gamma) (Signature)

(11) INFORMATION (Include statement of laboratory tests to be performed.)

56

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
<u>B-204</u>	<u>222-5</u>	<u>M.C. Jones</u>	<u>10-12-95 9:00</u>	
(19) Relinquished By (Sign and PRINT) <u>James Sickels</u>	(20) Received By (Sign and PRINT) <u>David Keane</u>		(21) Date/Time <u>10/12/95</u>	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) <u>David Keane</u>	(24) Received By (Sign and PRINT) <u>N. LAPIERS</u>		(25) Date/Time <u>10-12-95</u>	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)		(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release? ☒ Yes ☐ No (31) Seal Intact Upon Receipt? ☒ Yes ☐ No

(32) Seal Data Consistent with this Record? ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No Cask Seal No. ☒ Yes ☐ No Sample No. ☒ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling, S6-85 Goldanrod - Tank Farm Operations, S4-43 BC-6000-309 10/28/91

0041

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 2000-08-1F (2) Sample Number 95-222 (3) Supervisor R. Frank Swift (8) Cask Serial Number C1015
 (4) Tank B-204 (5) Riser 2 (6) Segment 3 (7) Core 112

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		110) Shipment Description	
Over Top Dose Rate		<u>1.5</u>		<u>20.5</u>		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate		<u>1.5</u>		<u>20.5</u>		B. Cask Seal Number	<u>4425</u>
Bottom Dose Rate		<u>1.5</u>		<u>20.5</u>		C. Sampler Serial Number	<u>94-236</u>
Smearable Contamination		<u>120</u>		<u>20</u>		D. Date and Time Sampler Unseated	<u>10-12-95 0234</u>
		(Alpha)		(Alpha)		E. Expected Liquid Content	<u>30%</u>
		<u>1000</u>		(Beta-Gamma)		F. Expected Solid Content	<u>70%</u>
		(Signature)		(Signature)		G. Dose Rate Through Drill String	<u>0.5MR</u>
						H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

(12) Field Comments		(34) Laboratory Comments	
222's hab. 1300mL H2O Added			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	222's	M.C. Jones M.C. Jones	10-12-95 9:00	
(19) Relinquished By (Sign and PRINT)	(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments	
M.C. Jones	David J. Keane	10-12-95		
(23) Relinquished By (Sign and PRINT)	(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments	
David J. Keane	David J. Keane	10-12-95		
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management Yellow - Recipient of Sample Pink - Core Sampling S&P&S Gold - Record - Tank Farm Operations S&P&S

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 2000-08-TF (2) Sample Number 95-228 (3) Supervisor R. L. Lusk (4) Tank B-204 (5) Riser 2 (6) Segment 4 (7) Core 112 (8) Cask Serial Number 1009C

Radiation Survey Data:		(9) FIELD		(13) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>6.5</u>			<u>6.5</u>		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate	<u>6.5</u>			<u>6.5</u>		B. Cask Seal Number	<u>4426</u>
Bottom Dose Rate	<u>6.5</u>			<u>6.5</u>		C. Sampler Serial Number	<u>94-219</u>
Smearable Contamination	<u>220</u>			<u>220</u>		D. Date and Time Sampler Unseated	<u>10-12-95 0320</u>
	<u>1000</u>			<u>1000</u>		E. Expected Liquid Content	<u>30%</u>
						F. Expected Solid Content	<u>70%</u>
						G. Dose Rate Through Drill String	<u>2.5 mR/hr</u>
						H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

60

(12) Field Comments		(34) Laboratory Comments	
<u>222's Lab</u> <u>1300 mL H₂O Added</u>			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
<u>B-204</u>	<u>222's</u>	<u>M. C. Jones</u>	<u>12-10-95</u>	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
<u>M. C. Jones</u>		<u>Daniel J. Kearns</u>	<u>12-12-95</u>	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
<u>Daniel J. Kearns</u>		<u>William J. Kearns</u>	<u>12-12-95</u>	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

(32) Seal Date Consistent with this Record?

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number 205W-08-TP (2) Sample Number 95-229 (3) Supervisor R. Frank Frost (8) Cask Serial Number C1037
 (4) Tank B-204 (5) Riser 2 (6) Segment 5 (7) Case 112

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(110) Shipment Description	
Over Top Dose Rate	<u>1.5</u>	<u>1.5</u>		<u>1.5</u>		A. Work Package Number	<u>FS-95-00555</u>
Side Dose Rate	<u>1.5</u>	<u>1.5</u>		<u>1.5</u>		B. Cask Seal Number	<u>4427</u>
Bottom Dose Rate	<u>1.5</u>	<u>1.5</u>		<u>1.5</u>		C. Sampler Serial Number	<u>88-94-299</u>
Smearable Contamination	<u>1.20</u>	<u>1.20</u>	(Alpha)	<u>1.20</u>		D. Date and Time Sampler Unsealed	<u>10-12-95 0419</u>
	<u>1.000</u>	<u>1.000</u>	(Beta-Gamma)	<u>1.000</u>		E. Expected Liquid Content	<u>30%</u>
	<u>1.000</u>	<u>1.000</u>	(Beta-Gamma)	<u>1.000</u>		F. Expected Solid Content	<u>70%</u>
	<u>1.000</u>	<u>1.000</u>	(Beta-Gamma)	<u>1.000</u>		G. Dose Rate Through Drill String	<u>4.5 mS/hr</u>
	<u>1.000</u>	<u>1.000</u>	(Beta-Gamma)	<u>1.000</u>		H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)
2225 hab
1300mL H2O added

(12) Field Comments
2225 hab
1300mL H2O added

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
<u>B-204</u>	<u>2225 hab</u>	<u>Mc Jones M. Jones</u>	<u>10-12-95 11:45</u>	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
<u>Mc Jones M. Jones</u>		<u>Dave Kearns</u>	<u>10-12-95</u>	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
<u>Dave Kearns</u>		<u>Mc Jones M. Jones</u>	<u>10-12-95 13:35</u>	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?	Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 2004-08-TF (2) Sample Number 95-230 (3) Supervisor R. Frank Fort (4) Tank B-204 (5) Riser 2 (6) Segment 6 (7) Core 112 (8) Cask Serial Number 1014C

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(11) Shipment Description
Over Top Dose Rate	<u>6.5</u>		<u>6.5</u>	A. Work Package Number <u>FS-95-00555</u>
Side Dose Rate	<u>6.5</u>		<u>6.5</u>	B. Cask Seal Number <u>-4428</u>
Bottom Dose Rate	<u>6.5</u>		<u>6.5</u>	C. Sampler Serial Number <u>94-241</u>
Smearable Contamination	<u>120</u>	(Alpha)	<u>120</u>	D. Date and Time Sampler Unseated <u>10-12-95 / 10:35 AM</u>
	<u>1000</u>	(Beta-Gamma)	<u>1000</u>	E. Expected Liquid Content <u>30%</u>
		(Alpha)		F. Expected Solid Content <u>70%</u>
		(Beta-Gamma)		G. Dose Rate Through Drill String <u>4.5</u>
		(Alpha)		H. Expected Sample Length <u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)
100

(12) Field Comments
2225 lab
1300ml H₂O Added

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
<u>B-204</u>	<u>2225 lab</u>	<u>M.S. Jones</u>	<u>10-12-95 11:45</u>	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
<u>M.S. Jones</u>		<u>David J. Kearse</u>	<u>10-12-95</u>	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
<u>David J. Kearse</u>		<u>David J. Kearse</u>	<u>10-12-95 13:45</u>	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release? ☒ Yes ☐ No

(31) Seal Intact Upon Receipt? ☒ Yes ☐ No

(132) Seal Date Consistent with this Record? ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Sample No. ☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 20W-08-TP (2) Sample Number 95-231 (3) Supervisor M.C. Jones (4) Tank B-204 (5) Riser 2 (6) Segment 7 (7) Core 112 (8) Cask Serial Number C-2000

Radiation Survey Data:		(9) FIELD		(13) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<0.5			Work Package Number	ES-95-00555		
Side Dose Rate	<0.5			Cask Seal Number	3280		
Bottom Dose Rate	<0.5			Sampler Serial Number	94-215		
Smearable Contamination	<20			Date and Time Sampler Unsealed	10-12-95 11:41		
	<1000			Expected Liquid Content	30%		
				Expected Solid Content	70%		
				Dose Rate Through Drill String	6.5 HR		
				Expected Sample Length	19"		

(11) INFORMATION (include statement of laboratory tests to be performed.)

Post-it brand fax transmittal memo 7671 # of pages 4

To	Leela Sasaki	From	Enie
Co.		Co.	
Dept.		Phone #	
Fax #		Fax #	

(12) Field Comments

1300 ml. Head fluid added.

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	222-S	M.C. Jones M.C. Jones	10-13-95 8:00	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.C. Jones M.C. Jones		W.D. Dudley W.D. Dudley	10/13/95 10:45	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
		W.D. Dudley W.D. Dudley	10-13-95 11:15	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 207W-08-7F (2) Sample Number 95-232 (3) Supervisor M.C. Jones
 (4) Tank B-204 (5) Riser 2 (6) Segment 8 (7) Core 112 (8) Cask Serial Number C-1048

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate		< 0.5		LO.5		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate		< 0.5		LO.5		B. Cask Seal Number	<u>3381</u>
Bottom Dose Rate		< 0.5		LO.5		C. Sampler Serial Number	<u>94-305</u>
Sneareable Contamination		< 20	(Alpha)	LO.5 / L.A.S		D. Date and Time Sampler Unseated	<u>10-12-95 12:26 PM</u>
		< 1000	(Alpha)	L.30 / L.A.S		E. Expected Liquid Content	<u>30%</u>
			(Beta-Gamma)	L.30 / L.A.S		F. Expected Solid Content	<u>20%</u>
RCT* (HPT)		<u>Torr Qualit</u>		(Signature)		G. Dose Rate Through Drill String	<u>4.5 MR/HR</u>
						H. Expected Sample Length	<u>19"</u>

WHC-SD-WM-DP-160, REV. 1

(11) INFORMATION (Include statement of laboratory tests to be performed.)

102

(12) Field Comments		(34) Laboratory Comments	
1300 ml. of Head Fluid Added. Small Amount of Waste on Bottom of Sampler			
(13) Point of Origin <u>B-204</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones</u>	(16) Date/Time <u>10-13-95 8:00</u>
(19) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>	(20) Received By (Sign and PRINT) <u>DO DUKEX</u>	(21) Date/Time <u>10-13-95 10:45</u>	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>	(24) Received By (Sign and PRINT) <u>FE DUKES</u>	(25) Date/Time <u>10-13-95 11:15</u>	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>	(28) Received By (Sign and PRINT) <u>FE DUKES</u>	(29) Date/Time	(30) Receiver Comments
(18) Seal Intact Upon Release?		(32) Seal Data Consistent with this Record?	
Yes ☒ No ☐	Yes ☒ No ☐	Cask Seal No. ☒ Yes ☐ No	Sample No. ☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-7F (2) Sample Number 95-233 (3) Supervisor M.C. Jones
(4) Tank B-204 (5) Riser 2 (6) Segment 9 (7) Core 112 (8) Cask Serial Number C1040

Radiation Survey Data:		(9) FIELD	(33) LABORATORY	(11) Shipment Description
Over Top Dose Rate	<u><0.5</u>		<u>LO.5</u>	A. Work Package Number <u>ES-95-00555</u>
Side Dose Rate	<u><0.5</u>		<u>LO.5</u>	B. Cask Seal Number <u>2P 10145 3282</u> <u>1380</u>
Bottom Dose Rate	<u><0.5</u>		<u>LO.5</u>	C. Sampler Serial Number <u>94-2220</u>
Smearable Contamination	<u><20</u>	(Alpha)	<u>LO.5 / CAS</u>	D. Date and Time Sampler Unseated <u>10-12-95</u> <u>1301</u>
	<u><1004</u>	(Beta-Gamma)	<u>LIK / LAS</u>	E. Expected Liquid Content <u>30%</u>
RCT* (HPT)	<u>[Signature]</u>	(Signature)	<u>[Signature]</u>	F. Expected Solid Content <u>70%</u>
RCT* (HPT)	<u>[Signature]</u>	(Signature)	<u>[Signature]</u>	G. Dose Rate Through Drill String <u><1.5 mR/hr</u>
				H. Expected Sample Length <u>191"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

WHC-SD-WM-OP-160, REV.1

103

(12) Field Comments		(34) Laboratory Comments	
1300 MI Head PWR APR 21			
(13) Point of Origin <u>B-204</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones</u>	(16) Date/Time <u>10-13-95 8:00</u>
(19) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>	(20) Received By (Sign and PRINT) <u>[Signature]</u>	(21) Date/Time <u>10/13/95</u>	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(24) Received By (Sign and PRINT) <u>[Signature]</u>	(25) Date/Time <u>10-13-95</u>	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT) <u>[Signature]</u>	(28) Received By (Sign and PRINT) <u>[Signature]</u>	(29) Date/Time <u>10-13-95</u>	(30) Receiver Comments
(31) Seal Intact Upon Receipt? <u>[Signature]</u>		(32) Seal Data Consistent with this Record?	
Yes ☒ No ☐	Yes ☒ No ☐	Shipment No. <u>[Signature]</u>	Cask Seal No. <u>[Signature]</u>
Yes ☒ No ☐	Yes ☒ No ☐	Yes ☒ No ☐	Yes ☒ No ☐

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number 200 W-08-TF (2) Sample Number 942570 (3) Supervisor Zane Chapman (8) Cask Serial Number C1042
 Tank B-204 (5) Riser 2 (6) Segment 10 (7) Core 112

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(110) Shipment Description	
Over Top Dose Rate	<u>4.5 mR/hr</u>		<u>40.5 mR/hr</u>	A. Work Package Number	<u>55-95-60555</u>		
Side Dose Rate	<u>4.5 mR/hr</u>		<u>40.5 mR/hr</u>	B. Cask Seal Number	<u>2361</u>		
Bottom Dose Rate	<u>4.5 mR/hr</u>		<u>40.5 mR/hr</u>	C. Sampler Serial Number	<u>94-310</u>		
Smearable Contamination	<u>4.20 dpm</u>	(Alpha)	<u>4.20 dpm / LAS</u>	D. Date and Time Sampler Unseated	<u>10-12-95/1945</u>		
	<u>4.100 dpm</u>	(Beta-Gamma)	<u>4.1K dpm / LAS</u>	E. Expected Liquid Content	<u>30%</u>		
	<u>4.100 dpm</u>	(Signature)	<u>4.1K dpm</u>	F. Expected Solid Content	<u>70%</u>		
	<u>4.100 dpm</u>	(Signature)	<u>4.1K dpm</u>	G. Dose Rate Through Drill String	<u>4.2 mR/hr</u>		
	<u>4.100 dpm</u>	(Signature)	<u>4.1K dpm</u>	H. Expected Sample Length	<u>19"</u>		

WHC-SD-WM-DP-60, REV. I

(11) INFORMATION (Include statement of laboratory tests to be performed.)

104

(12) Field Comments		(34) Laboratory Comments	
1300 ml Head Fluid Added			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	222-S	McCabe	10-13-95	
(19) Relinquished By (Sign and PRINT)		David J. Keane	10-13-95	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT)		David J. Keane	10-13-95	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)		David J. Keane	10-13-95	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	Shipment-No.	Cask Seal-No.	Sample No.
☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-17 (2) Sample Number 95-235 (3) Supervisor J. McKeane
 (4) Tank B-204 (5) Riser 2 (6) Segment 11 (7) Core 112 (8) Cask Serial Number C1038

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate		<0.5		2.5		A. Work Package Number	65-25-00555
Side Dose Rate		<0.5		2.5		B. Cask Seal Number	2362
Bottom Dose Rate		<0.5		2.5		C. Sampler Serial Number	94224
Smearable Contamination		<20		20		D. Date and Time Sampler Unseated	4/15/95 2:002
		(Alpha)		(Alpha)		E. Expected Liquid Content	80%
		<1006		1000		F. Expected Solid Content	70%
		(Beta-Gamma)		(Beta-Gamma)		G. Dose Rate Through Drill String	2.2 mS/hr
RCT* (HPT)		T. McKeane		(Signature)		H. Expected Sample Length	19"
RCT* (HPT)							

(11) INFORMATION (Include statement of laboratory tests to be performed.)

WHC-SD-WM-DP-160, REV. 1

(112) Field Comments		(134) Laboratory Comments	
B00 ml Head fluid added			

(113) Point of Origin	(114) Destination	(115) Sender Name (Sign and PRINT)	(116) Date/Time	(117) Sender Comments
B-204	222-S	M. C. Jones	10-13-95 8:00	
(119) Relinquished By (Sign and PRINT)	(120) Received By (Sign and PRINT)	(121) Date/Time	(122) Receiver Comments	
M. C. Jones	D. J. Keane	4/15/95		
(123) Relinquished By (Sign and PRINT)	(124) Received By (Sign and PRINT)	(125) Date/Time	(126) Receiver Comments	
D. J. Keane	E. J. Dukes	4/15/95		
(127) Relinquished By (Sign and PRINT)	(128) Received By (Sign and PRINT)	(129) Date/Time	(130) Receiver Comments	

(118) Seal Intact Upon Release?	(131) Seal Intact Upon Receipt?	(132) Seal Data Consistent with this Record?	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☐ Yes ☐ No	☐ Yes ☐ No	☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-IF (2) Sample Number 95-236 (3) Supervisor Paul Thompson
 (4) Tank B-204 (5) Riser 2 (6) Segment 12 (7) Core 112 (8) Cask Serial Number C1055

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate		< 0.5		< 0.5		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate		< 0.5		< 0.5		B. Cask Seal Number	<u>3207</u>
Bottom Dose Rate		< 0.5		< 0.5		C. Sampler Serial Number	<u>94-238</u>
Smearable Contamination		< 2.0		< 2.0		D. Date and Time Sampler Unseated	<u>10-15-95 (0206)</u>
		< 1000		< 1000		E. Expected Liquid Content	<u>30%</u>
						F. Expected Solid Content	<u>70%</u>
RCT* (HPT)	<u>T. J. [Signature]</u>					G. Dose Rate Through Drill String	
RCT* (HPT)						H. Expected Sample Length	

(11) INFORMATION (Include statement of laboratory tests to be performed.)
106
 WHC-SD-WM-DP-160, REV. 1

(12) Field Comments		(34) Laboratory Comments	
<u>2220 hmb, 1300 mb H2O added</u>			
(13) Point of Origin <u>B-204</u>	(14) Destination <u>2225</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones</u>	(16) Date/Time <u>10-13-95</u>
(18) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>	(19) Relinquished By (Sign and PRINT) <u>David J. Kane</u>	(20) Received By (Sign and PRINT) <u>David J. Kane</u>	(21) Date/Time <u>10/13/95</u>
(22) Relinquished By (Sign and PRINT) <u>David J. Kane</u>	(23) Relinquished By (Sign and PRINT) <u>David J. Kane</u>	(24) Received By (Sign and PRINT) <u>David J. Kane</u>	(25) Date/Time <u>10/13/95</u>
(26) Relinquished By (Sign and PRINT)	(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time
(31) Seal Intact Upon Receipt?		(32) Seal Data Consistent with this Record?	
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-FF (2) Sample Number 95-237 (3) Supervisor R. Frank Faust
 (4) Tank B-204 (5) Riser 2 (6) Segment 13 (7) Core 112 (8) Cask Serial Number C1012

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate		< 0.5		< 0.5		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate		< 0.5		< 0.5		B. Cask Seal Number	<u>4429</u>
Bottom Dose Rate		< 0.5		< 0.5		C. Sampler Serial Number	<u>95-091</u>
Smearable Contamination		< 20		< 20		D. Date and Time Sampler Unseated	<u>10-13-95 (0308)</u>
		< 1000		< 1000		E. Expected Liquid Content	<u>30%</u>
						F. Expected Solid Content	<u>70%</u>
RCT* (HPT)						G. Dose Rate Through Drill String	<u>< 5 mR</u>
RCT* (HPT)						H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

107

(12) Field Comments		(134) Laboratory Comments	
2225 Lab 1300mH H2O added			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	2225 Lab	McJannet-McJannet	10-13-95	
(19) Relinquished By (Sign and PRINT)	McJannet-McJannet	David Jones	10-13-95	(22) Receiver Comments
(23) Relinquished By (Sign and PRINT)	David Jones	David Jones	10-13-95	(26) Receiver Comments
(27) Relinquished By (Sign and PRINT)	David Jones	David Jones	10-13-95	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

(32) Seal Data Consistent with this Record?

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-TF (2) Sample Number 95-238 (3) Supervisor R. Leek & Jack
(4) Tank B-204 (5) Riser 2 (6) Segment 14 (7) Core 712 (8) Cask Serial Number 15-6

Radiation Survey Data:

(9) FIELD	(33) LABORATORY
Over Top Dose Rate <u>4.5 mR/hr</u>	<u>40.5 mR/hr</u>
Side Dose Rate <u>4.5 mR/hr</u>	<u>40.5 mR/hr</u>
Bottom Dose Rate <u>4.5 mR/hr</u>	<u>40.5 mR/hr</u>
Smearable Contamination <u>230 dpm</u>	<u>400 dpm</u>
ECT* (HPT) <u>[Signature]</u>	ECT* (HPT) <u>[Signature]</u>

(10) Shipment Description

A. Work Package Number	<u>ES-95-00555</u>
B. Cask Seal Number	<u>4430</u>
C. Sampler Serial Number	<u>95-092</u>
D. Date and Time Sampler Unseated	<u>10-13-95 (0420)</u>
E. Expected Liquid Content	<u>30%</u>
F. Expected Solid Content	<u>70%</u>
G. Dose Rate Through Drill String	<u>2.5 mR</u>
H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

100

(12) Field Comments

2225 hab.
1300 mR H₂O added
10 3/4" push - reached 3000 lb downforce

(34) Laboratory Co.

Post-it™ brand fax transmittal memo 7671 # of pages 1

To	Leek & Jack
From	Leek & Jack
Co.	
Dept.	
Phone #	
Fax #	

(13) Point of Origin <u>B-204</u>	(14) Destination <u>2225 hab</u>	(15) Sender Name (Sign and PRINT) <u>M.C. Jones</u>	(16) Date/Time <u>10-13-95</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>M.C. Jones</u>	(20) Received By (Sign and PRINT) <u>Drew</u>	(21) Date/Time <u>10/13/95</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>Drew</u>	(24) Received By (Sign and PRINT) <u>M.C. Jones</u>	(25) Date/Time <u>10-13-95</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT) <u>Drew</u>	(28) Received By (Sign and PRINT) <u>M.C. Jones</u>	(29) Date/Time <u>10-13-95</u>	(30) Receiver Comments	

(18) Seal Intact Upon Release? ☒ Yes ☐ No	(31) Seal Intact Upon Receipt? ☒ Yes ☐ No	(32) Seal Data Consistent with this Record? ☒ Yes ☐ No	Shipment No. ☒ Yes ☐ No	Cask Seal No. ☒ Yes ☐ No	Sample No. ☒ Yes ☐ No
---	---	--	---	--	---

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08TF (2) Sample Number 95-246 (3) Supervisor Lance Rayman (8) Cask Serial Number SH 6-9
 (4) Tank B-204 (5) Riser 7 (6) Segment 1 (7) Core 114

Radiation Survey Data:		(9) FIELD		(13) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>6.5 urem/hr</u>			A. Work Package Number	<u>ES-95-00555</u>		
Side Dose Rate	<u>2.5 urem/hr</u>			B. Cask Seal Number	<u>10115-SH 6-9 2363</u>		
Bottom Dose Rate	<u>2.5 urem/hr</u>			C. Sampler Serial Number	<u>95-074</u>		
S measurable Contamination	<u>420 cpm/100cm²</u>			D. Date and Time Sampler Unsealed	<u>10/3/95 @ 2112</u>		
	<u>41,000 cpm/100cm²</u>			E. Expected Liquid Content	<u>30%</u>		
				F. Expected Solid Content	<u>70%</u>		
				G. Dose Rate Through Drill String	<u>4.5 mS/hr</u>		
				H. Expected Sample Length	<u>19"</u>		

(11) INFORMATION (Include statement of laboratory tests to be performed.)

LOCKING PIN ON CASK, BROKE

(12) Field Comments

2225 bub.
.13 gal. H₂O added

Post-it™ brand fax transmittal memo 7671 # of pages >

To	Leela Sankh	From	Enie
Co.		Co.	
Dept.		Phone #	
Fax #		Fax #	

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	2225 bub	R. Frank Frost	10-16-95	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)		(22) Receiver Comments
R. Frank Frost		M. E. C. C. C.	10-15-95	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)		(26) Receiver Comments
M. E. C. C. C.		E. D. D. D.	10-15-95	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)		(30) Receiver Comments

(18) Seal Intact Upon Release? ☒ Yes ☐ No

(31) Seal Intact Upon Receipt? ☒ Yes ☐ No

(32) Seal Data Consistent with this Record? ☒ Yes ☐ No

Shipment No. ☒ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Sample No. ☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200-W-08-TE (2) Sample Number 95-247 (3) Supervisor Tate Langston
(4) Tank B-204 (5) Riser 7 (6) Segment 2 (7) Core 114 (8) Cask Serial Number C1044

Reduction Survey Data:		(9) FIELD	(10) LABORATORY	(10) Shipment Description
Over Top Dose Rate	<u>505 ml/l</u>		<u>50.5 meq/l</u>	A. Work Package Number <u>ES-95-005-55</u>
Side Dose Rate	<u>505 ml/l</u>		<u>50.5 meq/l</u>	B. Cask Seal Number <u>2364</u>
Bottom Dose Rate	<u>505 ml/l</u>		<u>50.5 meq/l</u>	C. Sampler Serial Number <u>95-C83</u>
Sensurable Contamination	<u>200 ml/100%</u>		<u>50.5 meq/l</u>	D. Date and Time Sampler Unseated <u>10/17/95 @ 0145</u>
	<u>51K 200/100%</u>		<u>50.5 meq/l</u>	E. Expected Liquid Content <u>30%</u>
	<u>51K 200/100%</u>		<u>50.5 meq/l</u>	F. Expected Solid Content <u>70%</u>
RCT* (HPT)	<u>202</u>	(Beta-Gamma)		G. Dose Rate Through Drill String <u>5 mR/hr</u>
RCT* (HPT)	<u>202</u>	(Signature)		H. Expected Sample Length <u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

110

(12) Field Comments
2223 bmb
1300 487 ml H₂O added
9/10-11-95

Post-it™ brand fax transmittal memo 7571

To	From
Co.	Co.
Dept.	Phone #
Fax #	Fax #

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	2223 bmb	R. Fawc East	10/17/95 0900	
(18) Reinspected By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
R. Fawc East		R. Fawc East	10/29/10-178	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
R. Fawc East		R. Fawc East	10-178/1015	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?
☒ Yes ☐ No	☒ Yes ☐ No
Shipment No.	Cask Seal No.
☒ Yes ☐ No	☒ Yes ☐ No
Sample No.	
☒ Yes ☐ No	

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

1 Shipment Number 200W-08-TF (2) Sample Number 25-248 (3) Supervisor Joe Longman (8) Cask Serial Number 28-5
J Tank B-204 (5) Riser 7 (6) Segment 3 (7) Core 14

(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>50.5 mcf/hr</u>		<u>50.5 mcf/hr</u>	A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate	<u>50.5 mcf/hr</u>		<u>50.5 mcf/hr</u>	B. Cask Seal Number	<u>2365</u>
Bottom Dose Rate	<u>50.5 mcf/hr</u>		<u>50.5 mcf/hr</u>	C. Sampler Serial Number	<u>95-080</u>
Smearable Contamination	<u>2.5 pCi/100cm²</u> (Alpha)		<u>2.20 pCi/100cm²</u> (Alpha)	D. Date and Time Sampler Unseated	<u>10/16/95 @ 0448 0313</u>
	<u>1.1 pCi/100cm²</u> (Beta-Gamma)		<u>2.1 pCi/100cm²</u> (Beta-Gamma)	E. Expected Liquid Content	<u>30%</u>
RCT* (HPT)	<u>R. Longman</u> (Signature)	RCT* (HPT)	<u>Charles Longman</u> (Signature)	F. Expected Solid Content	<u>70%</u>
				G. Dose Rate Through Drill String	<u>1.5 mS/hr</u>
				H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

111

(12) Field Comments		(34) Laboratory Comments	
<u>2225 Lmb.</u> <u>1300 ml H₂O added</u>			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
<u>B-204</u>	<u>2225</u>	<u>R. Frank Frost</u>	<u>10/16/95 0900</u>	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
<u>R. Frank Frost</u>		<u>James L. Fickel</u>	<u>10/16/95 0930</u>	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
<u>James L. Fickel</u>		<u>James L. Fickel</u>	<u>10-17-95/015</u>	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Date Consistent with this Record?

Shipment No. _____ Cask Seal No. 28-5 ☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number 200W-08-76 (2) Sample Number 95-249 (3) Supervisor [Signature] (8) Cask Serial Number 22-6
 (4) Tank B-204 (5) Riser 7 (6) Segment 4 (7) Core 14

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>50.5 mR/hr</u>			<u>40.5 mR/hr</u>		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate	<u>50.5 mR/hr</u>			<u>40.5 mR/hr</u>		B. Cask Seal Number	<u>2366</u>
Bottom Dose Rate	<u>50.5 mR/hr</u>			<u>40.5 mR/hr</u>		C. Sampler Serial Number	<u>95-078</u>
Smearable Contamination	<u>220 dpm/100cm²</u>	(Alpha)		<u>220 dpm/100cm²</u>		D. Date and Time Sampler Unseated	<u>10/16/95 @ 0418</u>
	<u>515 dpm/100cm²</u>	(Beta-Gamma)		<u>110 dpm/100cm²</u>		E. Expected Liquid Content	<u>30%</u>
RCT* (HPT)	<u>[Signature]</u>			<u>[Signature]</u>		F. Expected Solid Content	<u>70%</u>
RCT* (HPT)	<u>[Signature]</u>			<u>[Signature]</u>		G. Dose Rate Through Drill String	<u>.5 mS/hr</u>
						H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

112

(12) Field Comments		(34) Laboratory Comments	
<p>2225 hmb 1300ml H₂O added</p>			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	2225	R. Frank Faust	10/17/95 0900	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
R. Frank Faust		James L. Williams	10-17-95/0928	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
James L. Williams		James L. Williams	10-17-95/1015	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(31) Seal Intact Upon Receipt?		(32) Seal Data Consistent with this Record?	
Yes ☒ No ☐	Yes ☐ No ☐	Yes ☒ No ☐	Yes ☐ No ☐

Shipment No. 2366 Cask Seal No. 2366 Sample No. 2366

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-TF (2) Sample Number 25-250 (3) Supervisor Tom Kuyper (8) Cask Serial Number 1009C
 (4) Tank B-204 (5) Riser 7 (6) Segment 5 (7) Core 114

Radiation Survey Data:		(9) FIELD		(13) LABORATORY		(110) Shipment Description	
Over Top Dose Rate		<u>≤ 0.5 mR/hr</u>		<u>20.5 mR/hr</u>		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate		<u>≤ 0.5 mR/hr</u>		<u>20.5 mR/hr</u>		B. Cask Seal Number	<u>2367</u>
Bottle Dose Rate		<u>≤ 0.5 mR/hr</u>		<u>20.5 mR/hr</u>		C. Sampler Serial Number	<u>95-090</u>
Smearable Contamination		<u>≤ 200 pCi/100 cm²</u> (Alpha)		<u>≤ 200 pCi/100 cm²</u> (Alpha)		D. Date and Time Sampler Unseated	<u>10/17/95 @ 0505</u>
		<u>≤ 1 K Bq/100 cm²</u> (Beta-Gamma)		<u>≤ 1 K Bq/100 cm²</u> (Beta-Gamma)		E. Expected Liquid Content	<u>30%</u>
RCT* (HPT)	<u>RCT*</u>					F. Expected Solid Content	<u>70%</u>
						G. Dose Rate Through Drill String	<u>5 mR/hr</u>
						H. Expected Sample Length	<u>19"</u>

WHC-SD-WM-DP-160 REV. 1

(11) INFORMATION (Include statement of laboratory tests to be performed.)

113

(12) Field Comments		(14) Destination		(15) Sender Name (Sign and PRINT)		(16) Date/Time		(17) Sender Comments			
2725 hab 1300 mb #20 added		2725 hab		R. Frank Frost		10/18/95-0930					
		(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)		(21) Date/Time		(22) Receiver Comments			
		R. Frank Frost		R. Frank Frost		10/18/95 0945					
		(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)		(25) Date/Time		(26) Receiver Comments			
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)		(29) Date/Time		(30) Receiver Comments		(32) Seal Data Consistent with this Record?			

Sample No.

☒ Yes ☐ No

Cask Seal No.

☒ Yes ☐ No

Shipment No.

☒ Yes ☐ No☒ Yes ☐ No☐ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-7F (2) Sample Number 95-251 (3) Supervisor R. Frank Frost (8) Cask Serial Number 8-1014C
 (4) Tank B-204 (5) Riser 7 (6) Segment 6 (7) Core 114

Radiation Survey Data:		(9) FIELD	(13) LABORATORY	(110) Shipment Description
Over Top Dose Rate	<u>50.5 mR/hr</u>		<u>10.5 mR/hr</u>	A. Work Package Number <u>ES-95-00555</u>
Side Dose Rate	<u>50.5 mR/hr</u>		<u>10.5 mR/hr</u>	B. Cask Seal Number <u>3286</u>
Bottom Dose Rate	<u>50.5 mR/hr</u>		<u>10.5 mR/hr</u>	C. Sampler Serial Number <u>95-089</u>
Smearable Contamination	<u>220 pCi/100 cm²</u> (Alpha)		<u>220 pCi/100 cm²</u> (Alpha)	D. Date and Time Sample: Unseated <u>10-17-95</u> <u>1037</u>
	<u>51 Kdpm/100 cm²</u> (Beta-Gamma)		<u>51 Kdpm/100 cm²</u> (Beta-Gamma)	E. Expected Liquid Content <u>30%</u>
				F. Expected Solid Content <u>70%</u>
RCT* (HPT)	<u>Blank</u>		<u>Charles Cooper</u> (Signature)	G. Dose Rate Through Drill String <u>4.5 mR</u>
RCT* (HPT)				H. Expected Sample Length <u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

114

WHC-SD-WM-DP-160, REV. 1

(12) Field Comments		(34) Laboratory Comments	
<u>2225 mb. 1300 mb H₂O added</u>			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sander Comments
<u>B-204</u>	<u>2225 mb</u>	<u>R. Frank Frost</u>	<u>10/18/95 0930</u>	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
<u>R. Frank Frost</u>		<u>Charles Cooper</u>	<u>10/18/95 0945</u>	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
<u>Charles Cooper</u>		<u>Charles Cooper</u>	<u>10-18-95 1000</u>	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☐ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

(32) Seal Data Consistent with this Record?

X

6037

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 2004-08-TE (2) Sample Number 95-252 (3) Supervisor M. C. Jones
(4) Tank B-204 (5) Riser 7 (6) Segment 7 (7) Core 114 (8) Cask Serial Number C-1047

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u><0.5 - alpha-</u>			<u>105 mcfn</u>		A. Work Package Number	<u>ES-95-01555</u>
Side Dose Rate	<u><0.5 - alpha-</u>			<u>105 mcfn</u>		B. Cask Seal Number	<u>3284</u>
Bottom Dose Rate	<u><0.5 - alpha-</u>			<u>105 mcfn</u>		C. Sampler Serial Number	<u>95-072</u>
Smearable Contamination	<u><200 dpm/100cm²</u> (Alpha)			<u><200 dpm/100cm²</u> (Alpha)		D. Date and Time Sampler Unseated	<u>10-17-95 21:23</u>
	<u><1 K dpm/100cm²</u> (Beta-Gamma)			<u><1 K dpm/100cm²</u> (Beta-Gamma)		E. Expected Liquid Content	<u>30%</u>
RCT* (HPT)	<u>[Signature]</u>	RCT* (HPT)	<u>[Signature]</u>			F. Expected Solid Content	<u>70%</u>
						G. Dose Rate Through Drill String	<u><1.5 MR/HR</u>
						H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

115

WHC-SD-WM-DP-160, REV. I

Post-it® brand fax transmittal memo 7671 # of pages 1

To	Leela Sanki		
Co.	Hit Cells		
Dept.			
Fax #			

(12) Field Comments
Head Fluid was added.

(34) Laborator

(13) Point of Origin <u>B-204</u>	(14) Destination <u>222-S</u>	(15) Sender Name (Sign and PRINT) <u>R. Frank East</u>	(16) Date/Time <u>10/20/95</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>R. Frank East</u>	(20) Received By (Sign and PRINT) <u>Leela Sanki</u>	(21) Date/Time <u>10/20/95</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>Leela Helms</u>	(24) Received By (Sign and PRINT) <u>Leela Helms</u>	(25) Date/Time <u>10/20/95</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release? ☒ Yes ☐ No	(31) Seal Intact Upon Receipt? ☒ Yes ☐ No	Shipment No. ☒ Yes ☐ No	Cask Seal No. ☒ Yes ☐ No	Sample No. ☒ Yes ☐ No
(32) Seal Data Consistent with this Record?				

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-7F (2) Sample Number 95-253 (3) Supervisor R. Lusk Street (4) Tank B-204 (5) Riser 7 (6) Segment 8 (7) Core 114 (8) Cask Serial Number 25-6

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>0.5 mR/hr</u>		<u>0.5 mR/hr</u>		A. Work Package Number	<u>ES-95-00555</u>	
Side Dose Rate	<u>0.5 mR/hr</u>		<u>0.5 mR/hr</u>		B. Cask Seal Number	<u>3289</u>	
Bottom Dose Rate	<u>0.5 mR/hr</u>		<u>0.5 mR/hr</u>		C. Sampler Serial Number	<u>95-087</u>	
Smearable Contamination	<u>2.0 pCi/100cm²</u> (Alpha)		<u>0.1 pCi/100cm²</u> (Alpha)		D. Date and Time Sampler Unseated	<u>10-18-95 (1403)</u>	
			<u>0.1 pCi/100cm²</u> (Beta-Gamma)		E. Expected Liquid Content	<u>30%</u>	
					F. Expected Solid Content	<u>20%</u>	
					G. Dose Rate Through Drill String	<u>4.5 mR</u>	
					H. Expected Sample Length	<u>19"</u>	

(11) INFORMATION (Include statement of laboratory tests to be performed.)

116

(12) Field Comments		(34) Laboratory Comments	
<p>2225 LAB. 1300 ml H₂O added</p>			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	2225 LAB	James Sickels		
(19) Relinquished By (Sign and PRINT)	(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments	
James Sickels	Connie Bodewick			
(23) Relinquished By (Sign and PRINT)	(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments	
Connie Bodewick	James Sickels	10-19-95		
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	

(31) Seal Intact Upon Release?	(32) Seal Intact Upon Receipt?	Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPI

(1) Shipment Number 200 W-08-7F (2) Sample Number 95-254 (3) Supervisor R. Frank (4) Tank B-204 (5) Riser 7 (6) Segment 9 (7) Core 114 (8) Cask Serial Number C-1015

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>0.05 mR/hr</u>			<u>20.5 mR/hr</u>		A. Work Package Number	<u>ES-95-00553</u>
Side Dose Rate	<u>0.05 mR/hr</u>			<u>20.5 mR/hr</u>		B. Cask Seal Number	<u>3293</u>
Bottom Dose Rate	<u>0.05 mR/hr</u>			<u>20.5 mR/hr</u>		C. Sampler Serial Number	<u>95-071</u>
Smearable Contamination	<u>0.20 Bq/100cm²</u>	(Alpha)		<u>20.5 mR/hr</u>		D. Date and Time Sampler Unsealed	<u>10-18-95 / 17:34</u>
	<u>0.12 Bq/100cm²</u>	(Beta-Gamma)		<u>21K / LAS</u>		E. Expected Liquid Content	<u>30%</u>
				<u>(Beta-Gamma)</u>		F. Expected Solid Content	<u>70%</u>
RCT* (HPT)	<u>0.05 mR/hr</u>			<u>(Signature)</u>		G. Dose Rate Through Drill String	<u>4.5 MR/HR</u>
RCT* (HPT)	<u>0.05 mR/hr</u>			<u>(Signature)</u>		H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (include statement of laboratory tests to be performed.)

112

(12) Field Comments		(34) Laboratory Comments	
2225 WAB. 1300 ml H ₂ O ADDED			
(13) Point of Origin <u>B-204</u>	(14) Destination <u>2225 WAB</u>	(15) Sender Name (Sign and PRINT) <u>James S. Kels</u>	(16) Date/Time <u>10/19/95</u>
(19) Relinquished By (Sign and PRINT) <u>James S. Kels</u>	(20) Received By (Sign and PRINT) <u>Connie Boderick</u>	(21) Date/Time <u>10/19/95</u>	(17) Sender Comments
(23) Relinquished By (Sign and PRINT) <u>Connie Boderick</u>	(24) Received By (Sign and PRINT) <u>James S. Kels</u>	(25) Date/Time <u>10-18-95</u>	(22) Receiver Comments
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(26) Receiver Comments
(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Date Consistent with this Record?	
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	
Shipment No.		Cask Seal No.	
☒ Yes ☐ No		☒ Yes ☐ No	
Sample No.		☒ Yes ☐ No	

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number	200W-08-TF	(2) Sample Number	95-355	(3) Supervisor	M.L. Jones	(4) Tank	B-204	(5) Riser	7	(6) Segment	10	(7) Core	114	(8) Cask Serial Number	C-1037
Radiation Survey Data:															
(9) FIELD															
(33) LABORATORY															
Over Top Dose Rate	20.5 mR/hr														
Side Dose Rate	20.5 mR/hr														
Bottom Dose Rate	20.5 mR/hr														
Smearable Contamination	20 dpm/100cm ²														
Field readings															
over top -	20.5 mR/hr														
side dose -	20.5 mR/hr														
bottom -	20.5 mR/hr														
d -	20 dpm/100cm ²														
Signature: [Signature]															
RCT* (HPT)															
Signature: [Signature]															
Dose Rate Through Drill String															
Expected Sample Length															

WHC-SD-WM-DP-160, REV. 1

118

{12} Field Comments

Head Fluid too early

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B 204	222-S	Will Spore M. C. Jones	10/19/85 1030	
(19) Relinquished By (Sign and PRINT)	(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments	
James Siekels General	Connie Boderick Connors Boderick	10/19/85 1045		
(23) Relinquished By (Sign and PRINT)	(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments	
Connie Boderick	James N. LAPIERS	10-19-85		
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	
(31) Seal Intact Upon Receipt?		(32) Seal Date Consistent with this Record?		
Yes ☒ No ☐	Yes ☒ No ☐			
(38) Seal Intact Upon Release?		(39) Seal No.		Sample No.
Yes ☒ No ☐	Yes ☐ No ☐			Yes ☒ No ☐

DISTRIBUTION: White - Office of Sample Management
Yellow - Recipient of Sample
Pink - Core Sampling, S6-85
Goldenrod - Tank Farm Operations, S4-43
BC-6000-309 (02/94)

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number 200W-08-7F (2) Sample Number 95-256 (3) Supervisor M.C. Jones

(4) Tank B-204 (5) Riser 7 (6) Segment 11 (7) Core 114 (8) Cask Serial Number C-1048

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u><0.5 mR/hr</u>			A. Work Package Number	<u>ES-95-00535</u>		
Side Dose Rate	<u><0.5 mR/hr</u>			B. Cask Seal Number	<u>3223</u>		
Bottom Dose Rate	<u><0.5 mR/hr</u>			C. Sampler Serial Number	<u>95-088</u>		
Smearable Contamination	<u><25 Bq/100cm²</u> (Alpha)			D. Date and Time Sampler Unseated	<u>10-18-95/19:58</u>		
	<u><1.8 Bq/100cm²</u> (Beta-Gamma)			E. Expected Liquid Content	<u>30%</u>		
				F. Expected Solid Content	<u>70%</u>		
RCT* (HPT)	<u>[Signature]</u>			G. Dose Rate Through Drill String	<u><0.5 mR/hr</u>		
RCT* (HPT)	<u>[Signature]</u>			H. Expected Sample Length	<u>19</u>		

(11) INFORMATION (include statement of laboratory tests to be performed.)

(12) Field Comments		(34) Laboratory Comments	
<p>Hand field taped to drill string</p>			

(13) Point of Origin	(14) Destination	(15) Sender	(16) Date/Time	(17) Sender Comments
B-204	222-S	[Signature]	10-20-95/10:16	

(19) Relinquished By (Sign and PRINT)	(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
[Signature]	[Signature]	10-20-95/10:16	

(23) Relinquished By (Sign and PRINT)	(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
[Signature]	[Signature]	10-20-95/10:16	

(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments
[Signature]	[Signature]	10-20-95/10:16	

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 2001AL-08-7E (2) Sample Number 95-257 (3) Supervisor James Langston
 (4) Tank E-204 (5) Riser 7 (6) Segment 12 (7) Core 114 (8) Cask Serial Number 62000

Radiation Survey Data:		(9) FIELD		(10) SHIPMENT DESCRIPTION	
Over Top Dose Rate	<u><0.5 mR/hr</u>	(13) LABORATORY		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate	<u><0.5 mR/hr</u>			B. Cask Seal Number	<u>1363</u>
Bottom Dose Rate	<u><0.5 mR/hr</u>			C. Sampler Serial Number	<u>2P 95-25795-092</u>
Measurable Contamination	<u><20 cps/100cm²</u> (Alpha)			D. Date and Time Sampler Unseated	<u>10-18-95 @ 2033</u>
	<u><1Kcpa/100cm²</u> (Beta-Gamma)			E. Expected Liquid Content	<u>30%</u>
	<u><1Kcpa/100cm²</u> (Beta-Gamma)			F. Expected Solid Content	<u>70%</u>
RCR* (HPT)	<u>unrec</u> (Signature)	RCR* (HPT)	<u>Charles Lopez</u> (Signature)	G. Dose Rate Through Drill String	<u>.5 mR/hr</u>
				H. Expected Sample Length	<u>19"</u>

(1) INFORMATION (Include statement of laboratory tests to be performed.)
 120

(1) Field Comments		(34) Laboratory Comments	
<u>Head Fluid Used</u>			
(13) Point of Origin <u>204 Bay</u>	(14) Destination <u>2223</u>	(15) Sender Name (Sign and Print) <u>Deborah Bellarthy</u>	(16) Date/Time <u>10-20-95</u>
(19) Reinspected By (Sign and Print) <u>Deborah Bellarthy</u>	(20) Received By (Sign and Print) <u>James Langston</u>	(21) Date/Time <u>10-20-95/1049</u>	(22) Receiver Comments
(23) Reinspected By (Sign and Print) <u>James Langston</u>	(24) Received By (Sign and Print) <u>James Langston</u>	(25) Date/Time <u>10-20-95/1049</u>	(26) Receiver Comments
(27) Reinspected By (Sign and Print)	(28) Received By (Sign and Print)	(29) Date/Time	(30) Receiver Comments
(31) Seal Intact Upon Release? ☒ Yes ☐ No		(32) Seal Data Consistent with this Record? ☒ Yes ☐ No	
(33) Seal Intact Upon Receipt? ☒ Yes ☐ No		Cask Seal No. ☒ Yes ☐ No	

6017

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 262W-08-IF (2) Sample Number 95-258 (3) Supervisor Joe Chapman (8) Cask Serial Number C2001
 (4) Tank B-204 (5) Riser 7 (6) Segment 13 (7) Core 114

Radiation Survey Data:		(33) LABORATORY		(110) Shipment Description	
Over Top Dose Rate	<u>50.5 mR/hr</u>		<u>10.5 mR/hr</u>	A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate	<u>50.5 mR/hr</u>		<u>60.5 mR/hr</u>	B. Cask Seal Number	<u>1364</u>
Bottom Dose Rate	<u>50.5 mR/hr</u>		<u>10.5 mR/hr</u>	C. Sampler Serial Number	<u>94-225</u>
Smearable Contamination	<u>250 pCi/100cm²</u> (Alpha)		<u>270 pCi/100cm²</u> (Alpha)	D. Date and Time Sampler Unseated	<u>10-19-95 00236</u>
	<u>51 pCi/100cm²</u> (Beta-Gamma)		<u>214 pCi/100cm²</u> (Beta-Gamma)	E. Expected Liquid Content	<u>30%</u>
RCT* (HPT)	<u>Amey</u> (Signature)			F. Expected Solid Content	<u>70%</u>
RCT* (HPT)	<u>Charles Cooper</u> (Signature)			G. Dose Rate Through Drill String	<u>15 mR/hr</u>
				H. Expected Sample Length	<u>19"</u>

(11) INFORMATION (include statement of laboratory tests to be performed.)

HC-ED-WM-DR-160, REV. 1

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(12) Field Comments

HEAD FLUID USED

(13) Laboratory Comments

(13) Point of Origin <u>262W-08-IF</u>	(14) Destination <u>2225</u>	(15) Sender/Receiver (Sign and Print) <u>Joe Chapman</u>	(16) Date/Time <u>10/20/95</u>	(17) Sender Comments
(19) Reinspected By (Sign and Print) <u>Joe Chapman</u>	(20) Received By (Sign and Print) <u>Joe Chapman</u>	(21) Date/Time <u>10-20-95/10:18</u>	(22) Receiver Comments	
(23) Disinpected By (Sign and Print) <u>Joe Chapman</u>	(24) Received By (Sign and Print) <u>Joe Chapman</u>	(25) Date/Time <u>10-20-95/10:47</u>	(26) Receiver Comments	
(27) Reinspected By (Sign and Print) <u>Joe Chapman</u>	(28) Received By (Sign and Print) <u>Joe Chapman</u>	(29) Date/Time	(30) Receiver Comments	

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No
Shipment No. ☒ Yes ☐ No		Cask Seal No. ☒ Yes ☐ No
Sample No. ☒ Yes ☐ No		

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-77 (2) Sample Number 95-259 (3) Supervisor Tracy Longman
 (4) Tank B-204 (5) Riser 7 (6) Segment 14 (7) Core 114 (8) Cask Serial Number 21054

Radiation Survey Date:		(9) FIELD	(23) LABORATORY	(10) Shipment Description
Over Top Dose Rate	<u>50.5 mR/hr</u>		<u>50.5 mR/hr</u>	A. Work Package Number <u>55-25-00555</u>
Side Dose Rate	<u>50.5 mR/hr</u>		<u>50.5 mR/hr</u>	B. Cask Seal Number <u>1368</u>
Bottom Dose Rate	<u>50.5 mR/hr</u>		<u>50.5 mR/hr</u>	C. Sampler Serial Number <u>25-081</u>
Smearable Contamination	<u>520 Rg/100cm²</u> (Alpha)		<u>220 Rg/100cm²</u> (Alpha)	D. Date and Time Sampler Unseated <u>10-17-95/0351</u>
	<u>51 Rg/100cm²</u> (Beta-Gamma)		<u>11 Rg/100cm²</u> (Beta-Gamma)	E. Expected Liquid Content <u>30.2%</u>
RCT* (HPT)	<u>[Signature]</u>		<u>[Signature]</u>	F. Expected Solid Content <u>76.9%</u>
RCT* (HPT)	<u>[Signature]</u>		<u>[Signature]</u>	G. Dose Rate Through Drill String <u>25 mR/hr</u>
				H. Expected Sample Length <u>11"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)
 122

(12) Field Comments		(34) Laboratory Comments	
<u>HBD Went off at 11"</u>			

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Receiver Name (Sign and PRINT)	(17) Sender Comments	(18) Receiver Comments
<u>204B R7</u>	<u>2225</u>	<u>Debra Hartley</u>	<u>Debra Hartley</u>	<u>10/20/95</u>	<u>10/20/95</u>
(19) Relinquished By (Sign and PRINT)	(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments	(23) Sender Comments	(24) Receiver Comments
<u>Debra Hartley</u>	<u>Debra Hartley</u>	<u>10/20/95</u>	<u>10/20/95</u>	<u>10/20/95</u>	<u>10/20/95</u>
(25) Relinquished By (Sign and PRINT)	(26) Received By (Sign and PRINT)	(27) Date/Time	(28) Receiver Comments	(29) Sender Comments	(30) Receiver Comments
<u>Debra Hartley</u>	<u>Debra Hartley</u>	<u>10/20/95</u>	<u>10/20/95</u>	<u>10/20/95</u>	<u>10/20/95</u>

(31) Seal Intact Upon Receipt?	(32) Seal Data Consistent with this Record?	Shipment No.	Cask Seal No.	Sample No.
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number 200W-08-TF (2) Sample Number Field Blank (3) Supervisor Tamara Longman (8) Cask Serial Number C-1054
 (4) Tank B-204 (5) Riser 7 (6) Segment 44A (7) Core 114

Radiation Survey Date:		(9) FIELD	(10) SHIPMENT DESCRIPTION
Over Top Dose Rate	<u>0.5 mSv/h</u>	(13) LABORATORY	A. Work Package Number <u>ES-95-00555</u>
Side Dose Rate	<u>0.5 mSv/h</u>		B. Cask Seal Number <u>1361</u>
Bottom Dose Rate	<u>0.5 mSv/h</u>		C. Sampler Serial Number <u>94-026</u>
Smearable Contamination	<u>0.20 Bq/100 cm²</u> (Alpha)		D. Date and Time Sampler Unseated <u>4/4</u>
	<u>0.16 Bq/100 cm²</u> (Beta-Gamma)		E. Expected Liquid Content <u>100%</u>
			F. Expected Solid Content <u>0%</u>
RCT* (HPT)	<u>None</u> (Signature)	RCT* (HPT)	G. Dose Rate Through Drill String <u>44</u>
			H. Expected Sample Length <u>19"</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

123

Post-it™ brand fax transmittal memo 7671 # of pages 4

To	Leela Sasaki
Co.	Co.
Dept.	Phone #
Fax #	Fax #

(12) Field Comments

Field Blank

(34) Laboratory

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-204	2025	R. Frank Frost	10/18/95 0930	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
R. Frank Frost		Charles C. Edgely	10/18/95 0945	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
Charles C. Edgely		EF Dabbs	10-18-95 1100	
(27) Relinquished By (Sign and PRINT)		(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments

(18) Seal Intact Upon Release?	(31) Seal Intact Upon Receipt?	(32) Seal Date Consistent with this Record?
☒ Yes ☐ No	☒ Yes ☐ No	☒ Yes ☐ No

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

(1) Shipment Number 200W-08-12 (2) Sample Number 445 Blank (3) Supervisor Zachary
 (4) Tank B-204 (5) Riser 7 (6) Segment NA (7) Core 114 (8) Cask Serial Number NA

Radiation Survey Data:		(9) FIELD		(33) LABORATORY		(10) Shipment Description	
Over Top Dose Rate	<u>NA</u>	<u>0.5 uR/hr</u>		<u>0.5 uR/hr</u>		A. Work Package Number	<u>ES-95-00555</u>
Side Dose Rate	<u>0.5 uR/hr</u>	<u>0.5 uR/hr</u>		<u>0.5 uR/hr</u>		B. Cask Seal Number	<u>1362</u>
Bottom Dose Rate	<u>0.5 uR/hr</u>	<u>0.5 uR/hr</u>		<u>0.5 uR/hr</u>		C. Sampler Serial Number	<u>NA</u>
Smearable Contamination	<u>NA</u>	<u>0.5 uR/hr</u>		<u>0.5 uR/hr</u>		D. Date and Time Sampler Unsealed	<u>NA</u>
		<u>0.5 uR/hr</u>		<u>0.5 uR/hr</u>		E. Expected Liquid Content	<u>100%</u>
		<u>0.5 uR/hr</u>		<u>0.5 uR/hr</u>		F. Expected Solid Content	<u>0%</u>
		<u>0.5 uR/hr</u>		<u>0.5 uR/hr</u>		G. Dose Rate Through Drill String	<u>NA</u>
		<u>0.5 uR/hr</u>		<u>0.5 uR/hr</u>		H. Expected Sample Length	<u>NA</u>

(11) INFORMATION (Include statement of laboratory tests to be performed.)

124

SD-WM-DP-160, REV. 1

(12) Field Comments

Hydrostatic Head Fluid Blank

(34) Laboratory Comments

(13) Point of Origin <u>241-B</u>	(14) Destination <u>222 S</u>	(15) Sender Name (Sign and PRINT) <u>James Sickels</u>	(16) Date/Time <u>10/19/95</u>	(17) Sender Comments
(19) Relinquished By (Sign and PRINT) <u>James Sickels</u>	(20) Received By (Sign and PRINT) <u>Connie Rodenck</u>	(21) Date/Time <u>10/19/95</u>	(22) Receiver Comments	
(23) Relinquished By (Sign and PRINT) <u>Connie Rodenck</u>	(24) Received By (Sign and PRINT) <u>James Sickels</u>	(25) Date/Time <u>10-19-95</u>	(26) Receiver Comments	
(27) Relinquished By (Sign and PRINT)	(28) Received By (Sign and PRINT)	(29) Date/Time	(30) Receiver Comments	
(18) Seal Intact Upon Release? ☐ Yes ☐ No		(31) Seal Intact Upon Receipt? ☒ Yes ☐ No		(32) Seal Date Consistent with this Record? ☒ Yes ☐ No
Shipment No. ☒ Yes ☐ No		Cask Seal No. ☒ Yes ☐ No		Sample No. ☒ Yes ☐ No

DISTRIBUTION: White - Office of Sample Management

Yellow - Recipient of Sample

Pink - Core Sampling, S&B-85

Goldenrod - Tank Farm Operations, S&B-43

BC-6000-309 (02/94)

WHC-SD-WM-DP-160, REV. 1

PHOTOGRAPHS

B-204 CORE 112 SEGMENT #1

10-16-95

B-204 CORE 112 SEGMENT #2

10-16-95

B-204 CORE 1/2 SEGMENT #3

10-16-95

B-204 CORE 112 SEGMENT #4

10-16-95

B-204 Core 1/2 Segment #5

10-16-95

B-204 Core 112 Segment #6

10-16-95

B-204 Core 112 Segment #7

10-18-95

B-204 Core 112 Segment #8

10-18-93-

B-204 Core 112 Segment #9

10-18-95

B-264 Core 112 Segment #10

11-18-95

B-204 Core 112 Seg #11

B-204 Core 112 Seg 12

B-204 Core 112 Seg 13

B-204 Core 112 Seg 14

B-204 Core 114 Seg #1

B-204 CORE 114 SEGMENT #2

10-19-95

B-204 CORE 114 SEGMENT #3

10-23-95

WHC-SD-WM-DP-160, REV.1

B-204 Core 114 Segment #4

10-23-95

WHC-SD-WM-DP-160, REV. 1

B-204 CORE 114 SEGMENT #5

10-23-95

B-204 CORE 114 SEGMENT #6

10-23-95

WHC-SD-WM-DP-160, REV. 1

B-204 Core 114 Segment #6

Bulk Derivatives

11-14-95

B-204 Core 114 Segment #7

10-24-95

10/24/95

B-204 CORE 114 SEGMENT #8

B-204 CORE 114 SEGMENT #9

10-24-95

B-204 Core 114 Segment #10

10/25/95

B-204 CORE 114 SEGMENT #11

10/25/95

B-204 CORE 114 SEGMENT #12

10-25-95

B-204 CORE 114 SEGMENT #13

10-26-93-

B-204 Core 114 Segment #14

10-26-88

B-204 Core 114 Field Blank

10-23-95

WHC-SD-WM-DP-160, REV. 1

SAMPLE HANDLING

LABCORE Data Entry Template for Worklist#

2900

Analyst: CC Instrument: BA000 Book # 1A

Method: LO-160-103 Rev/Mod A7

Worklist Comment: B-204 C112 SEG #1 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.95</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002838	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>150</u>		mL
95000158	B-204	4 SAMPLE	S95T002838	0	DLIQWT01	SOLID	<u>N/A</u>	<u>150.1</u>		g
95000158	B-204	5 SAMPLE	S95T002838	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002838	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002838	0	LLIQWT01	SOLID	<u>N/A</u>	<u>55</u>		g
95000158	B-204	8 SAMPLE	S95T002838	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9 SAMPLE	S95T002838	0	SLDVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	10 SAMPLE	S95T002838	0	SLDWT-01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	11 SAMPLE	S95T002838	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002838	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2900

CC 10-19-95
Analyst Signature Date

CC 10-19-95
Analyst Signature Date

Reviewed by RK Feller on 10/19/95

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#

2901

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C112 SEG #2 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002839	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>130</u>		mL
95000158	B-204	4 SAMPLE	S95T002839	0	DLIQWT01	SOLID	<u>N/A</u>	<u>125.6</u>		g
95000158	B-204	5 SAMPLE	S95T002839	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002839	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002839	0	LLIQWT01	SOLID	<u>N/A</u>	<u>122.5</u>		g
95000158	B-204	8 SAMPLE	S95T002839	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9 SAMPLE	S95T002839	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002839	0	SLDWT-01	SOLID	<u>N/A</u>	<u>40.2</u>		g
95000158	B-204	11 SAMPLE	S95T002839	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002839	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2901

EC 10-19-95
Analyst Signature Date

EC 10-19-95
Analyst Signature Date

Reviewed by RK Fuller on 10/19/95

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#

2902

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod AM

Worklist Comment: B-204 C112 SEG #3 RISER 2 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>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002840	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002840	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002840	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002840	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002840	0	LLIQWT01	SOLID	<u>N/A</u>	<u>55</u>		g
95000158	B-204	8 SAMPLE	S95T002840	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9 SAMPLE	S95T002840	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002840	0	SLDWT-01	SOLID	<u>N/A</u>	<u>347.1</u>		g
95000158	B-204	11 SAMPLE	S95T002840	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002840	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 2902

EC
Analyst Signature Date 10-19-95

EC
Analyst Signature Date 10-19-95

Reviewed by R K Fuller 10/19/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2903

Analyst: SC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A7

Worklist Comment: B-204 C112 SEG #4 RISER 2 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>499.78</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002841	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002841	0	DLIQT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002841	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002841	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002841	0	LLIQT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000158	B-204	8 SAMPLE	S95T002841	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9 SAMPLE	S95T002841	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002841	0	SLDWT-01	SOLID	<u>N/A</u>	<u>369.4</u>		g
95000158	B-204	11 SAMPLE	S95T002841	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002841	0	DRGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2903

SC 10-19-95
Analyst Signature Date

SC 10-19-95
Analyst Signature Date

Reviewed by RK Feller 10/20/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2904

Analyst: ELC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A7

Worklist Comment: B-204 C112 SEG #5 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	20	20.01	N/A	
		2 INSTCHK02			EXTRUD01	SOLID	500	499.78	N/A	
95000158	B-204	3 SAMPLE	S95T002842	0	DLIQVOL1	SOLID	N/A	0		mL
95000158	B-204	4 SAMPLE	S95T002842	0	DLIQWT01	SOLID	N/A	0		g
95000158	B-204	5 SAMPLE	S95T002842	0	EST.G/ML	SOLID	N/A	0		g/mL
95000158	B-204	6 SAMPLE	S95T002842	0	EXTRUD01	SOLID	N/A	complete		
95000158	B-204	7 SAMPLE	S95T002842	0	LLIQWT01	SOLID	N/A	0		g
95000158	B-204	8 SAMPLE	S95T002842	0	NOTEBOOK	SOLID	N/A	N-1181		
95000158	B-204	9 SAMPLE	S95T002842	0	SLDVOL01	SOLID	N/A	NA		mL
95000158	B-204	10 SAMPLE	S95T002842	0	SLDWT-01	SOLID	N/A	361.9		g
95000158	B-204	11 SAMPLE	S95T002842	0	APPEAR01	SOLID	N/A	complete		
95000158	B-204	12 SAMPLE	S95T002842	0	ORGVOL01	SOLID	N/A	0		mL

Final page for worklist #

2904

ELC 10-19-95
Analyst Signature Date

ELC 10-19-95
Analyst Signature Date

Reviewed by OK Fuller 10/20/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2905

Analyst: ELC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C112 SEG #6 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.74</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002843	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002843	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002843	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002843	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002843	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	8 SAMPLE	S95T002843	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9 SAMPLE	S95T002843	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002843	0	SLDWT-01	SOLID	<u>N/A</u>	<u>363.3</u>		g
95000158	B-204	11 SAMPLE	S95T002843	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002843	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2905

ELC 10-19-95
Analyst Signature Date

ELC 10-19-95
Analyst Signature Date

Reviewed by PK Fuller on 10/20/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2922

Analyst: EL Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C112 SEG # 7 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>1999</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002844	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002844	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002844	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002844	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002844	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	8 SAMPLE	S95T002844	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9 SAMPLE	S95T002844	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002844	0	SLDWT-01	SOLID	<u>N/A</u>	<u>357.0</u>		g
95000158	B-204	11 SAMPLE	S95T002844	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002844	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2922

EL 10-20-95
Analyst Signature Date

EL 10-20-95
Analyst Signature Date

Reviewed by RK Fuller 10/20/95

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#

2923

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C112 SEG # 8 RISER 2 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>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002845	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002845	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002845	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002845	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002845	0	LLIQWT01	SOLID	<u>N/A</u>	<u>7.4</u>		g
95000158	B-204	8 SAMPLE	S95T002845	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-181</u>		
95000158	B-204	9 SAMPLE	S95T002845	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002845	0	SLDWT-01	SOLID	<u>N/A</u>	<u>366.8</u>		g
95000158	B-204	11 SAMPLE	S95T002845	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002845	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2923

EC 10-20-95
Analyst Signature Date

EC 10-20-95
Analyst Signature Date

Reviewed by RK Fuller 10/20/95

Data Entry Comments:

WHC-SD-WM-DP-160, REV. 1
LABCORE Data Entry Template for Worklist#

2925

Analyst: EC Instrument: BA000 Book # 10/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C112 SEG #9 RISER 2 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>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002846	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002846	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002846	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002846	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002846	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000158	B-204	8 SAMPLE	S95T002846	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9 SAMPLE	S95T002846	0	SLDVOL01	SOLID	<u>N/A</u>	<u>N/A</u>		mL
95000158	B-204	10 SAMPLE	S95T002846	0	SLDWT-01	SOLID	<u>N/A</u>	<u>367.1</u>		g
95000158	B-204	11 SAMPLE	S95T002846	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002846	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2925

EC 10-19-95
Analyst Signature Date

EC 10-19-95
Analyst Signature Date

Reviewed by RK Fuller 10/20/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2926

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C112 SEG #10 RISER 2 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>499.75</u>	<u>N/A</u>	
95000158	B-204	3	SAMPLE	S95T002847	0		DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000158	B-204	4	SAMPLE	S95T002847	0		DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5	SAMPLE	S95T002847	0		EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
95000158	B-204	6	SAMPLE	S95T002847	0		EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7	SAMPLE	S95T002847	0		LLIQWT01	SOLID	<u>N/A</u>	<u>LS</u>		g
95000158	B-204	8	SAMPLE	S95T002847	0		NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9	SAMPLE	S95T002847	0		SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
95000158	B-204	10	SAMPLE	S95T002847	0		SLDWT-01	SOLID	<u>N/A</u>	<u>368.2</u>		g
95000158	B-204	11	SAMPLE	S95T002847	0		APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12	SAMPLE	S95T002847	0		ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

2926

EC 10-19-95
Analyst Signature Date

EC 10-19-95
Analyst Signature Date

Reviewed by RK Fuller 10/20/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2929

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A7

Worklist Comment: B-204 C112 SEG #11 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002848	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002848	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002848	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002848	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002848	0	LLIQWT01	SOLID	<u>N/A</u>	<u>25</u>		g
95000158	B-204	8 SAMPLE	S95T002848	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>AI-1181</u>		
95000158	B-204	9 SAMPLE	S95T002848	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002848	0	SLDWT-01	SOLID	<u>N/A</u>	<u>378.1</u>		g
95000158	B-204	11 SAMPLE	S95T002848	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002848	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2929

EC 10-20-95
Analyst Signature Date

EC 10-20-95
Analyst Signature Date

Reviewed by PK Fuller 10/20/95

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#

2930

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A 7

Worklist Comment: B-204 C112 SEG #12 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>17.99</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002849	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002849	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002849	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002849	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002849	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000158	B-204	8 SAMPLE	S95T002849	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>NA/81</u>		
95000158	B-204	9 SAMPLE	S95T002849	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002849	0	SLDWT-01	SOLID	<u>N/A</u>	<u>372.7</u>		g
95000158	B-204	11 SAMPLE	S95T002849	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002849	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

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2930

EC 10-20-95
Analyst Signature Date

EC 10-20-95
Analyst Signature Date

Reviewed by QK Fuller 10/20/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2931

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C112 SEG #13 RISER 2 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>1999</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.75</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002850	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000158	B-204	4 SAMPLE	S95T002850	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002850	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
95000158	B-204	6 SAMPLE	S95T002850	0	EXTRUD01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000158	B-204	7 SAMPLE	S95T002850	0	LLIQWT01	SOLID	<u>N/A</u>	<u>55</u>		g
95000158	B-204	8 SAMPLE	S95T002850	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000158	B-204	9 SAMPLE	S95T002850	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
95000158	B-204	10 SAMPLE	S95T002850	0	SLDWT-01	SOLID	<u>N/A</u>	<u>375.7</u>		g
95000158	B-204	11 SAMPLE	S95T002850	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002850	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

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EC 10-20-95
Analyst Signature Date

EC 10-20-95
Analyst Signature Date

Reviewed by RH Fuller 10/20/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2932

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C112 SEG #14 RISER 2 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>499.74</u>	<u>N/A</u>	
95000158	B-204	3 SAMPLE	S95T002851	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000158	B-204	4 SAMPLE	S95T002851	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000158	B-204	5 SAMPLE	S95T002851	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000158	B-204	6 SAMPLE	S95T002851	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	7 SAMPLE	S95T002851	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000158	B-204	8 SAMPLE	S95T002851	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N+181</u>		
95000158	B-204	9 SAMPLE	S95T002851	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000158	B-204	10 SAMPLE	S95T002851	0	SLDWT-01	SOLID	<u>N/A</u>	<u>366.5</u>		g
95000158	B-204	11 SAMPLE	S95T002851	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000158	B-204	12 SAMPLE	S95T002851	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

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2932

EC
Analyst Signature Date 10-17-95

EC
Analyst Signature Date 10-19-95

Reviewed by R. Fuller 10/20/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2975

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #2 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.75</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002908	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002908	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002908	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002908	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002908	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000161	B-204	8 SAMPLE	S95T002908	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002908	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002908	0	SLDWT-01	SOLID	<u>N/A</u>	<u>322.5</u>		g
95000161	B-204	11 SAMPLE	S95T002908	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002908	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2975

EC 10-25-95
Analyst Signature Date

EC 10-25-95
Analyst Signature Date

Reviewed by Arthur B. Beny 10-25-95

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#

2976

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #1 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.74</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002907	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>130</u>		mL
95000161	B-204	4 SAMPLE	S95T002907	0	DLIQWT01	SOLID	<u>N/A</u>	<u>125.5</u>		g
95000161	B-204	5 SAMPLE	S95T002907	0	EST.G/ML	SOLID	<u>N/A</u>	<u>1.96</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002907	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002907	0	LLIQWT01	SOLID	<u>N/A</u>	<u><20</u>		g
95000161	B-204	8 SAMPLE	S95T002907	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002907	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002907	0	SLDWT-01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	11 SAMPLE	S95T002907	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002907	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2976

EC 10-25-95
Analyst Signature Date

EC 10-25-95
Analyst Signature Date

Reviewed by Arthur B. Brey 10-25-95

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#

2983

Analyst: EC **Instrument:** BA000 **Book #** N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #3 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.74</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002909	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002909	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002909	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002909	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002909	0	LLIQWT01	SOLID	<u>N/A</u>	<u><10</u>		g
95000161	B-204	8 SAMPLE	S95T002909	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-181</u>		
95000161	B-204	9 SAMPLE	S95T002909	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002909	0	SLDWT-01	SOLID	<u>N/A</u>	<u>325.3</u>		g
95000161	B-204	11 SAMPLE	S95T002909	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002909	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

Final page for worklist #

2983

EC 10-25-95
Analyst Signature **Date**

EC 10-25-95
Analyst Signature **Date**

Reviewed by A. B. Bay 10-25-95

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#

2984

Analyst: EC Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #4 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.74</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002910	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002910	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002910	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002910	0	EXTRUD01	SOLID	<u>N/A</u>	<u>Complete</u>		
95000161	B-204	7 SAMPLE	S95T002910	0	LLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	8 SAMPLE	S95T002910	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002910	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002910	0	SLDWT-01	SOLID	<u>N/A</u>	<u>344.7</u>		g
95000161	B-204	11 SAMPLE	S95T002910	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002910	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2984

EC 10-25-95
Analyst Signature Date

EC 10-25-95
Analyst Signature Date

Reviewed by Atkins, B. Bony 10-25-95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2985

Analyst: EC Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #5 RISER 7 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>499.75</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002920	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		ml
95000161	B-204	4 SAMPLE	S95T002920	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002920	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/ml
95000161	B-204	6 SAMPLE	S95T002920	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002920	0	LLIQWT01	SOLID	<u>N/A</u>	<u><10</u>		g
95000161	B-204	8 SAMPLE	S95T002920	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002920	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		ml
95000161	B-204	10 SAMPLE	S95T002920	0	SLDWT-01	SOLID	<u>N/A</u>	<u>343.8</u>		g
95000161	B-204	11 SAMPLE	S95T002920	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002920	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		ml

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EC 10-25-95
Analyst Signature Date

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Analyst Signature Date

Reviewed by Allen B. Roney 10-25-95

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#

2986

Analyst: EC Instrument: BA000 Book # UA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #6 RISER 7 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>499.75</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002921	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002921	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002921	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002921	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002921	0	LLIQWT01	SOLID	<u>N/A</u>	<u><10</u>		g
95000161	B-204	8 SAMPLE	S95T002921	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002921	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002921	0	SLDWT-01	SOLID	<u>N/A</u>	<u>339.5</u>		g
95000161	B-204	11 SAMPLE	S95T002921	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002921	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2986

EC 10-25-95

Analyst Signature

Date

EC 10-25-95

Analyst Signature

Date

Data Entry Comments:

WHC-SD-WM-DP-160, REV. 1
LABCORE Data Entry Template for Worklist#

2987

Analyst: EC **Instrument:** BA000 **Book #** NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 FIELD BLANK RISER 7 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>499.50</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002922	0	DLIQVOL1	LIQUID	<u>N/A</u>	<u>230</u>		mL
95000161	B-204	4 SAMPLE	S95T002922	0	DLIQWT01	LIQUID	<u>N/A</u>	<u>213.6</u>		g
95000161	B-204	5 SAMPLE	S95T002922	0	EST.G/ML	LIQUID	<u>N/A</u>	<u>92</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002922	0	EXTRUD01	LIQUID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002922	0	LLIQWT01	LIQUID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	8 SAMPLE	S95T002922	0	NOTEBOOK	LIQUID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002922	0	SLDVOL01	LIQUID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002922	0	SLDWT-01	LIQUID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	11 SAMPLE	S95T002922	0	APPEAR01	LIQUID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002922	0	ORGVOL01	LIQUID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 2987

EC 10-25-95
Analyst Signature **Date**
Review by B. Bury 10-25-95

EC 10-25-95
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#

2995

Analyst: EC Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #7 RISER 7 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>499.75</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002953	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002953	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002953	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002953	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002953	0	LLIQWT01	SOLID	<u>N/A</u>	<u><20</u>		g
95000161	B-204	8 SAMPLE	S95T002953	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002953	0	SLDVOL01	SOLID	<u>N/A</u>	<u>N/A</u>		mL
95000161	B-204	10 SAMPLE	S95T002953	0	SLDWT-01	SOLID	<u>N/A</u>	<u>356.3</u>		g
95000161	B-204	11 SAMPLE	S95T002953	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002953	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2995

EC 10-25-95
Analyst Signature Date

EC 10-25-95
Analyst Signature Date

Revised by Andrew B. Bony 10-25-95

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#

2996

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #8 RISER 7 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>499.75</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002949	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002949	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002949	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002949	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002949	0	LLIQWT01	SOLID	<u>N/A</u>	<u>520</u>		g
95000161	B-204	8 SAMPLE	S95T002949	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002949	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002949	0	SLDWT-01	SOLID	<u>N/A</u>	<u>359.0</u>		g
95000161	B-204	11 SAMPLE	S95T002949	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002949	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2996

EC 10-25-95
Analyst Signature Date

EC 10-25-95
Analyst Signature Date

Reviewed by H.B. Bay 10-25-95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2997

Analyst: EC Instrument: BA000 Book # N/A

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #9 RISER 7 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>499.75</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002950	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002950	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002950	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002950	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002950	0	LLIQWT01	SOLID	<u>N/A</u>	<u><20</u>		g
95000161	B-204	8 SAMPLE	S95T002950	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002950	0	SLDVOL01	SOLID	<u>N/A</u>	<u>N/A</u>		mL
95000161	B-204	10 SAMPLE	S95T002950	0	SLDWT-01	SOLID	<u>N/A</u>	<u>363.1</u>		g
95000161	B-204	11 SAMPLE	S95T002950	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002950	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2997

EC 10-25-95
Analyst Signature Date

EC 10-25-95
Analyst Signature Date

Reviewed by ALB B. Bay 10-25-95

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#

2998

Analyst: Ee Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #10 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.75</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002951	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002951	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002951	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002951	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002951	0	LLIQWT01	SOLID	<u>N/A</u>	<u><20</u>		g
95000161	B-204	8 SAMPLE	S95T002951	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002951	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002951	0	SLDWT-01	SOLID	<u>N/A</u>	<u>365.6</u>		g
95000161	B-204	11 SAMPLE	S95T002951	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002951	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

2998

EAL 10-25-95
Analyst Signature Date

EAL 10-25-95
Analyst Signature Date

Reviewed by Allen B. Bury 10/25/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

2999

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #11 RISER 7 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>499.74</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002954	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002954	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002954	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002954	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002954	0	LLIQWT01	SOLID	<u>N/A</u>	<u><20</u>		g
95000161	B-204	8 SAMPLE	S95T002954	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002954	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002954	0	SLDWT-01	SOLID	<u>N/A</u>	<u>364.9</u>		g
95000161	B-204	11 SAMPLE	S95T002954	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002954	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist # 2999

EC 10-25-95
Analyst Signature Date

EC 10-25-95
Analyst Signature Date

Received by Atle B. Ruy 10-25-95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

3000

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #12 RISER 7 EXTRUSION

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01			EXTRUD01	SOLID	<u>20</u>	<u>19.98</u>	<u>N/A</u>	
		2 INSTCHK02			EXTRUD01	SOLID	<u>500</u>	<u>499.74</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002955	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002955	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002955	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002955	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002955	0	LLIQWT01	SOLID	<u>N/A</u>	<u><20</u>		g
95000161	B-204	8 SAMPLE	S95T002955	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002955	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002955	0	SLDWT-01	SOLID	<u>N/A</u>	<u>364.2</u> <u>361.1</u>		g
95000161	B-204	11 SAMPLE	S95T002955	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002955	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

3000

EC 10-25-95
Analyst Signature Date

EC 10-25-95
Analyst Signature Date

Reviewed by Albert B. Bandy 10-25-95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

3001

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #13 RISER 7 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>499.74</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002956	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002956	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002956	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002956	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002956	0	LLIQWT01	SOLID	<u>N/A</u>	<u>55</u>		g
95000161	B-204	8 SAMPLE	S95T002956	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002956	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002956	0	SLDWT-01	SOLID	<u>N/A</u>	<u>369.5</u>		g
95000161	B-204	11 SAMPLE	S95T002956	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002956	0	ORGVOL01	SOLID	<u>N/A</u>	<u>0</u>		mL

Final page for worklist #

3001

EC 10-26-95
Analyst Signature Date

EC 10-26-95
Analyst Signature Date

Reviewed by John B. Benney 10-20-95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

3002

Analyst: EC Instrument: BA000 Book # NA

Method: LO-160-103 Rev/Mod A-7

Worklist Comment: B-204 C114 SEG #14 RISER 7 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>499.74</u>	<u>N/A</u>	
95000161	B-204	3 SAMPLE	S95T002957	0	DLIQVOL1	SOLID	<u>N/A</u>	<u>0</u>		mL
95000161	B-204	4 SAMPLE	S95T002957	0	DLIQWT01	SOLID	<u>N/A</u>	<u>0</u>		g
95000161	B-204	5 SAMPLE	S95T002957	0	EST.G/ML	SOLID	<u>N/A</u>	<u>0</u>		g/mL
95000161	B-204	6 SAMPLE	S95T002957	0	EXTRUD01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	7 SAMPLE	S95T002957	0	LLIQWT01	SOLID	<u>N/A</u>	<u><5</u>		g
95000161	B-204	8 SAMPLE	S95T002957	0	NOTEBOOK	SOLID	<u>N/A</u>	<u>N-1181</u>		
95000161	B-204	9 SAMPLE	S95T002957	0	SLDVOL01	SOLID	<u>N/A</u>	<u>NA</u>		mL
95000161	B-204	10 SAMPLE	S95T002957	0	SLDWT-01	SOLID	<u>N/A</u>	<u>371.8</u>		g
95000161	B-204	11 SAMPLE	S95T002957	0	APPEAR01	SOLID	<u>N/A</u>	<u>complete</u>		
95000161	B-204	12 SAMPLE	S95T002957	0	ORGVOL01	SOLID	<u>N/A</u>	<u>6</u>		mL

Final page for worklist #

3002

EC 10-26-95
Analyst Signature Date

EC 10-26-95
Analyst Signature Date

Reviewed by John B. Benzy 10-30-95

Data Entry Comments:

WHC-SD-WM-DP-160, REV. 1

SAMPLE PREPARATIONS

LABCORE Data Entry Template for Worklist#

3593

Analyst: KRM Instrument: FUS01 Book # _____

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

Worklist Comment: B-204 Fusion 2979->2987, 3038->3109. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		.250	N/A	g/L
95000158	B-204	2 SAMPLE	S95T002987	0 F	FUSION01	SOLID	N/A	5.964		g/L
		1.491 → .250						60		
95000158	B-204	3 SAMPLE	S95T002987	0	DOSE-02	SOLID	N/A	6.000		mrads/hour
95000158	B-204	4 DUP	S95T002987	0 F	FUSION01	SOLID	5.964	6.000	N/A	g/L
		1.500 → .250								
95000158	B-204	5 DUP	S95T002987	0	DOSE-02	SOLID		60	N/A	mrads/hour
95000158	B-204	6 SAMPLE	S95T003109	0 F	FUSION01	SOLID	N/A	4.048		g/L
		1.012 → .250								
95000158	B-204	7 SAMPLE	S95T003109	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000158	B-204	8 DUP	S95T003109	0 F	FUSION01	SOLID	4.048	4.036	N/A	g/L
		1.009 → .250								
95000158	B-204	9 DUP	S95T003109	0	DOSE-02	SOLID		4.5	N/A	mrads/hour

Final page for worklist #

3593

Analyst Signature Date 11-18-95

Analyst Signature Date 11/21/95

Reviewed by RK Zeller
11/21/95

Data Entry Comments: HPT WAS SCOTT CORBALY

Sam 2987 = Dup 10mc HCL/10mc CON HNO₃ - BROWN AND CLEAR (COLOR)
Sam 3109 = Dup 10mc HCL/10mc CON HNO₃ - BROWN AND CLEAR IN COLOR

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#

3594

Analyst: KPM Instrument: FUS01 Book # _____

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

Worklist Comment: B-204 Fusion 3040->3110, 3042->3111. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		<u>.250</u>	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003110	0 F	FUSION01	SOLID	N/A	<u>4.024</u>		g/L
			<u>1.006</u> → <u>.250</u>							
95000158	B-204	3 SAMPLE	S95T003110	0	DOSE-02	SOLID	N/A	<u>2.5</u>		mrads/hour
95000158	B-204	4 DUP	S95T003110	0 F	FUSION01	SOLID	<u>4.024</u>	<u>4.020</u>	N/A	g/L
			<u>1.005</u> → <u>.250</u>							
95000158	B-204	5 DUP	S95T003110	0	DOSE-02	SOLID		<u>2.5</u>	N/A	mrads/hour
95000158	B-204	6 SAMPLE	S95T003111	0 F	FUSION01	SOLID	N/A	<u>4.096</u>		g/L
			<u>1.024</u> → <u>.250</u>							
95000158	B-204	7 SAMPLE	S95T003111	0	DOSE-02	SOLID	N/A	<u>2.5</u>		mrads/hour
95000158	B-204	8 DUP	S95T003111	0 F	FUSION01	SOLID	<u>4.096</u>	<u>4.076</u>	N/A	g/L
			<u>1.019</u> → <u>.250</u>							
95000158	B-204	9 DUP	S95T003111	0	DOSE-02	SOLID		<u>2.5</u>	N/A	mrads/hour

Final page for worklist #

3594

Analyst Signature

Date

11-18-95

Analyst Signature

Date

11/21/95

Reviewed by RK Fuller
11/21/95

Data Entry Comments:

APT SCOTT CORBALY

SAM 3110 & Dup 10mL HCL/10mL CON HNO₃ ALL SAMPLES ARE BROWN AND
SAM 3111 & Dup 10mL HCL/10mL CON HNO₃ CLEAR

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#

3595

Analyst: KRM Instrument: FUS01 Book # _____

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

Worklist Comment: B-204 Fusion 3044->3112, 3046->3113. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		<u>.250</u>	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003112	0 F	FUSION01	SOLID	N/A	<u>2.008</u>		g/L
		<u>.5020</u>	<u>→ .250</u>							
95000158	B-204	3 SAMPLE	S95T003112	0	DOSE-02	SOLID	N/A	<u>4.5</u>		mrad/hour
95000158	B-204	4 DUP	S95T003112	0 F	FUSION01	SOLID	<u>2.008</u>	<u>2.0072</u>	N/A	g/L
		<u>.5018</u>	<u>→ .250</u>							
95000158	B-204	5 DUP	S95T003112	0	DOSE-02	SOLID		<u>4.5</u>	N/A	mrad/hour
95000158	B-204	6 SAMPLE	S95T003113	0 F	FUSION01	SOLID	N/A	<u>1.8748</u>		g/L
		<u>.4687</u>	<u>→ .250</u>							
95000158	B-204	7 SAMPLE	S95T003113	0	DOSE-02	SOLID	N/A	<u>4.5</u>		mrad/hour
95000158	B-204	8 DUP	S95T003113	0 F	FUSION01	SOLID	<u>1.8748</u>	<u>1.8708</u>	N/A	g/L
		<u>.4677</u>	<u>→ .250</u>							
95000158	B-204	9 DUP	S95T003113	0	DOSE-02	SOLID		<u>4.5</u>	N/A	mrad/hour

Final page for worklist #

3595

Analyst Signature

Date

Analyst Signature

Date

Reviewed by Bert Griffin - RK Fuller 11/20/95

Data Entry Comments: HPT - SCOTT CORBALEY

S95T 3112 SAM & DUP 5mL HCL/5mL CON HNO₃ - BROWN AND CLEAR IN COLOR
S95T 3113 SAM & DUP 5mL HCL/5mL CON HNO₃ - BROWN AND CLEAR IN COLOR

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#

3596

Analyst: EAL Instrument: FUS01 AL11066 Book # N/A

Method: LA-549-141 Rev/Mod 0.0

Worklist Comment: B-204 Fusion 3048->3114, 3050->3115. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		250ml	N/A	g/L
95000158	B-204	2 SAMPLE .4685g → .250	S95T003114	0 F	FUSION01	SOLID	N/A	1.8740		g/L
95000158	B-204	3 SAMPLE .4655g → .250	S95T003114	0	DOSE-02	SOLID	N/A	2.5	2.5 EAL	mrad/hour
95000158	B-204	4 DUP .4655g → .250	S95T003114	0 F	FUSION01	SOLID	1.8740	1.8628	N/A	g/L
95000158	B-204	5 DUP	S95T003114	0	DOSE-02	SOLID		2.5	N/A	mrad/hour
95000158	B-204	6 SAMPLE .4666g → .250	S95T003115	0 F	FUSION01	SOLID	N/A	1.8664		g/L
95000158	B-204	7 SAMPLE H → .250 EAL	S95T003115	0	DOSE-02	SOLID	N/A	2.5		mrad/hour
95000158	B-204	8 DUP .4737g → .250	S95T003115	0 F	FUSION01	SOLID	1.8664	1.8948	N/A	g/L
95000158	B-204	9 DUP	S95T003115	0	DOSE-02	SOLID		2.5	N/A	mrad/hour

Final page for worklist #

3596

[Signature] 11-19-95
Analyst Signature Date

[Signature] 11-20-95
Analyst Signature Date

Reviewed by Bert Griffin RKF
11/20/95

Data Entry Comments:
HPT: SCOTT

OTT: 2.5 mrad/hr

S95T003114 & DUP: 5ml HCL, 35ml H₂O₂(con) - color is brown w/ 17% solids

S95T003115 & DUP: 5ml HCL, 35ml H₂O₂(con) color is tan 0% solids

PREP BLANK: 5ml HCL,

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#

3597

Analyst: KRM Instrument: FUS01 Book #

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

Worklist Comment: B-204 Fusion 3054->3117, 3058->3118. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID		.250	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003117 0 F		FUSION01	SOLID	N/A	2.0268		g/L
			.5067 → .250							
95000158	B-204	3 SAMPLE	S95T003117 0		DOSE-02	SOLID	N/A	4.5		mrads/hour
95000158	B-204	4 DUP	S95T003117 0 F		FUSION01	SOLID	2.0268	2.0144	N/A	g/L
			.5036 → .250							
95000158	B-204	5 DUP	S95T003117 0		DOSE-02	SOLID		4.5	N/A	mrads/hour
95000158	B-204	6 SAMPLE	S95T003118 0 F		FUSION01	SOLID	N/A	1.9804		g/L
			.4951 → .250							
95000158	B-204	7 SAMPLE	S95T003118 0		DOSE-02	SOLID	N/A	4.5		mrads/hour
95000158	B-204	8 DUP	S95T003118 0 F		FUSION01	SOLID	1.9804	1.9812	N/A	g/L
			.4953 → .250							
95000158	B-204	9 DUP	S95T003118 0		DOSE-02	SOLID		4.5	N/A	mrads/hour

Final page for worklist # 3597

Analyst Signature Date 11-19-95

Analyst Signature Date 11-20-95

Reviewed by Bert Liffen
RK Miller
11/20/95

Data Entry Comments: HPT - SCOTT CORBALEY

S95T003117 - Sam & Dup 5mL HCL/5mL CON HNO₃ } SAMPLES BROWN AND CLEAR
S95T003118 - Sam & Dup 5mL HCL/5mL CON HNO₃ } IN COLOR

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#

3598

Analyst: QAM Instrument: FUS01 5116355 Book #

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

Worklist Comment: B-204 Fusion 3058->3119, 3060->3120. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>.250L</u>	<u>.250L</u>	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003119	0 F	FUSION01	SOLID	N/A	<u>2.2486</u>		g/L
			<u>.5620g</u>							
95000158	B-204	3 SAMPLE	S95T003119	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrad/hour
95000158	B-204	4 DUP	S95T003119	0 F	FUSION01	SOLID	<u>2.2480</u>	<u>2.3768</u>	N/A	g/L
			<u>.5942g</u>							
95000158	B-204	5 DUP	S95T003119	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrad/hour
95000158	B-204	6 SAMPLE	S95T003120	0 F	FUSION01	SOLID	N/A	<u>2.1444</u>		g/L
			<u>.5361g</u>							
95000158	B-204	7 SAMPLE	S95T003120	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrad/hour
95000158	B-204	8 DUP	S95T003120	0 F	FUSION01	SOLID	<u>2.1444</u>	<u>2.2112</u>	N/A	g/L
			<u>.5528g</u>							
95000158	B-204	9 DUP	S95T003120	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrad/hour

Final page for worklist #

3598

QAM 11-22-95
Analyst Signature Date

Dary 11-22-95
Analyst Signature Date
Verified By M/L 11/23/95

Data Entry Comments:

All samples & QC have 20ml HCl, 30ml HNO₃, <10% solids.
HPT was Scott Youckebach.

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#

3599

Analyst: QJM Instrument: FUS01 50116355 Book #

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

Worklist Comment: B-204 Fusion 3261->3336, 3263->3337. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250</u>	<u>250</u>	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003336	0 F	FUSION01	SOLID	N/A	<u>2.2060</u>		g/L
			<u>5515g</u>							
95000161	B-204	3 SAMPLE	S95T003336	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003336	0 F	FUSION01	SOLID	<u>2.2060</u>	<u>2.1464</u>	N/A	g/L
			<u>5366g</u>							
95000161	B-204	5 DUP	S95T003336	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003337	0 F	FUSION01	SOLID	N/A	<u>2.1876</u>		g/L
			<u>5469g</u>							
95000161	B-204	7 SAMPLE	S95T003337	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003337	0 F	FUSION01	SOLID	<u>2.1876</u>	<u>2.1352</u>	N/A	g/L
			<u>5338g</u>							
95000161	B-204	9 DUP	S95T003337	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrads/hour

Final page for worklist #

3599

QJM 11-22-95
Analyst Signature Date

Dany Hromada 11-22-95
Analyst Signature Date
Verified By M/L 11/23/95

Data Entry Comments

All samples & QC - 20ml HCl, 30ml HNO₃, <10% Oxid
HPT was Scott Gauderback

LABCORE Data Entry Template for Worklist#

3600

Analyst: QAM Instrument: FUS01 SR16355 Book #

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

Worklist Comment: B-204 Fusion 3265->3338, 3267->3339. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>.250</u>	<u>.250</u>	<u>N/A</u>	g/L
95000161	B-204	2 SAMPLE	S95T003338	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.1376</u>		g/L
			<u>.5344g</u>							
95000161	B-204	3 SAMPLE	S95T003338	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003338	0 F	FUSION01	SOLID	<u>2.1376</u>	<u>2.1612</u>	<u>N/A</u>	g/L
			<u>.5403g</u>							
95000161	B-204	5 DUP	S95T003338	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour
95000161	B-204	6 SAMPLE	S95T003339	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.1600</u>		g/L
			<u>.5400g</u>							
95000161	B-204	7 SAMPLE	S95T003339	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003339	0 F	FUSION01	SOLID	<u>2.1600</u>	<u>2.1576</u>	<u>N/A</u>	g/L
			<u>.5394g</u>							
95000161	B-204	9 DUP	S95T003339	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist # 3600

QAM 11-22-95
Analyst Signature Date

[Signature] 11-22-95
Analyst Signature Date
Verified By N/L 11/23/95

Data Entry Comments:

All Samples & QC - 20ml HCl, 30ml HNO₃, <1% solids
HPT was sent to Gander back

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#

3601

Analyst:

QAM

Instrument: FUS01 SN16355

Book # _____

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

Worklist Comment: B-204 Fusion 3271->3341. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>.250</u>	<u>.250</u>	<u>N/A</u>	g/L
95000161	B-204	2 SAMPLE	S95T003341	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.1400</u>		g/L
95000161	B-204	3 SAMPLE	S95T003341	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003341	0 F	FUSION01	SOLID	<u>2.1400</u>	<u>2.2720</u>	<u>N/A</u>	g/L
95000161	B-204	5 DUP	S95T003341	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

3601

QAM
Analyst Signature

11-22-95
Date

[Signature]
Analyst Signature

11-22-95
Date

Verified By *[Signature]*
11/23/95

Data Entry Comments:

All samples & QC - 20ml HCl, 30ml HNO₃, 10% solids
HPT was Scott Ganderback.

WHC-SD-WM-DP-160, REV. 1
LABCORE Data Entry Template for Worklist#

3771

Analyst: QAM

Instrument: FUS01 5216355

Book # _____

Method: LA-549-141 Rev/Mod B-2 D-C

Worklist Comment: B-204 Fusion KOH 3052->3116, 3257->3334 dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>2.250</u>	<u>2.250</u>	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003116	0 F	FUSION01	SOLID	N/A	<u>2.2444</u>		g/L
			<u>.5611g → .2500</u>							
95000158	B-204	3 SAMPLE	S95T003116	0	DOSE-02	SOLID	N/A	<u>.2</u>		mrads/hour
95000158	B-204	4 DUP	S95T003116	0 F	FUSION01	SOLID	<u>2.2444</u>	<u>2.2264</u>	N/A	g/L
			<u>.5566g → .2500</u>							
95000158	B-204	5 DUP	S95T003116	0	DOSE-02	SOLID		<u>.2</u>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003334	0 F	FUSION01	SOLID	N/A	<u>2.0236</u>		g/L
			<u>.5059g → .2500</u>							
95000161	B-204	7 SAMPLE	S95T003334	0	DOSE-02	SOLID	N/A	<u>.2</u>		mrads/hour
95000161	B-204	8 DUP	S95T003334	0 F	FUSION01	SOLID	<u>2.0236</u>	<u>2.1540</u>	N/A	g/L
			<u>.5385g → .2500</u>							
95000161	B-204	9 DUP	S95T003334	0	DOSE-02	SOLID		<u>.2</u>	N/A	mrads/hour

Final page for worklist #

3771

Analyst Signature QAM

Date 11-30-95

Analyst Signature SPK

Date 11-30-95

3052 B-204 C112 Seg # 104H cell # 7
3257 B-204 C114 2 LH cell # 7

Reviewed by SPK 12/1/95

Data Entry Comments:

QC samples & QC - 20ml HCl, 30ml HNO₃, <190 acids
HPT was not valid

LABCORE Data Entry Template for Worklist#

3772

Analyst: AMInstrument: FUS01 SR46355

Book # _____

Method: LA-549-141 Rev/Mod B-2-D-C

Worklist Comment: B-204 Fusion KOH 3259->3335, 3269->3340 dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250</u>	<u>250</u>	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003335	0 F	FUSION01	SOLID	N/A	<u>2.1816</u>		g/L
			<u>.5454g</u>							
95000161	B-204	3 SAMPLE	S95T003335	0	DOSE-02	SOLID	N/A	<u>2</u>		mrads/hour
95000161	B-204	4 DUP	S95T003335	0 F	FUSION01	SOLID	<u>2.1816</u>	<u>2.1140</u>	N/A	g/L
			<u>.5285g</u>							
95000161	B-204	5 DUP	S95T003335	0	DOSE-02	SOLID		<u>2</u>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003340	0 F	FUSION01	SOLID	N/A	<u>2.1120</u>		g/L
			<u>.5280g</u>							
95000161	B-204	7 SAMPLE	S95T003340	0	DOSE-02	SOLID	N/A	<u>2</u>		mrads/hour
95000161	B-204	8 DUP	S95T003340	0 F	FUSION01	SOLID	<u>2.1120</u>	<u>2.0600</u>	N/A	g/L
			<u>.5150g</u>							
95000161	B-204	9 DUP	S95T003340	0	DOSE-02	SOLID		<u>2</u>	N/A	mrads/hour

Final page for worklist #

3772

Analyst Signature AM Date 11-30-95Analyst Signature SL Date 11-30-95

3259 B-204 C114 ^{Seg#} 344 cell# 7
 3269 B-204 C114 844 cell# 7

Reviewed by RK Miller 12/1/95

Data Entry Comments:

All samples at GC - 20ml HCl, 30ml HNO₃, <1% solids
HPT was Valdey

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#

3773

Analyst: QAMInstrument: FUS01 SA 11/23/95

Book # _____

Method: LA-549-141 Rev/Mod B-2 11/28/95

Worklist Comment: B-204 Fusion KOH 3273->3342, 3275->3343 dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>250</u>	<u>250</u>	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003342	0 F	FUSION01	SOLID	N/A	<u>2.3492</u>		g/L
			<u>.5673g -> .250L</u>							
95000161	B-204	3 SAMPLE	S95T003342	0	DOSE-02	SOLID	N/A	<u>2</u>		mrad/hour
95000161	B-204	4 DUP	S95T003342	0 F	FUSION01	SOLID	<u>2.3492</u>	<u>2.2938</u>	N/A	g/L
			<u>.5747g -> .250L</u>							
95000161	B-204	5 DUP	S95T003342	0	DOSE-02	SOLID		<u>2</u>	N/A	mrad/hour
95000161	B-204	6 SAMPLE	S95T003343	0 F	FUSION01	SOLID	N/A	<u>2.0880</u>		g/L
			<u>.5220g -> .250L</u>							
95000161	B-204	7 SAMPLE	S95T003343	0	DOSE-02	SOLID	N/A	<u>2</u>		mrad/hour
95000161	B-204	8 DUP	S95T003343	0 F	FUSION01	SOLID	<u>2.0880</u>	<u>2.2164</u>	N/A	g/L
			<u>.5541g -> .250L</u>							
95000161	B-204	9 DUP	S95T003343	0	DOSE-02	SOLID		<u>2</u>	N/A	mrad/hour

Final page for worklist #

3773

QAMurphy 11-30-95
Analyst Signature Date

Shelley 11-30-95
Analyst Signature Date

3273 B-204 C114 ^{Seq#} 10 cell#20
3275 B-204 C114 11 cell#20

Reviewed by QK Fuller 12/1/95

Data Entry Comments:

QC - 20ml HCl, 30ml H₂O₂, <1% Adich
HPT was See Valday

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#

3774

Analyst: AMP Instrument: FUS01 AL11066 Book # N/A

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

Worklist Comment: B-204 Fusion KOH 3277->3344 dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>.250</u>	<u>.250</u>	<u>N/A</u>	g/L
95000161	B-204	2 SAMPLE	S95T003344	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.3188</u>		g/L
			<u>0.5797g</u>							
95000161	B-204	3 SAMPLE	S95T003344	0	DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003344	0 F	FUSION01	SOLID	<u>2.3188</u>	<u>2.1956</u>	<u>N/A</u>	g/L
			<u>0.5489</u>							
95000161	B-204	5 DUP	S95T003344	0	DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist # 3774

Anthony Purnick 12-2-95
Analyst Signature Date

Linda Conlin 12-2-95
Analyst Signature Date

Reviewed By
M/LA 12/3/95

Located in Cell #20.

Data Entry Comments: BLK 10mL Con Nitric

SAM 40mL Con Nitric 10mL HCL HP B:11 Bishop

DUP 40mL Con Nitric 10mL HCL

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#

3820

Analyst: ADP Instrument: FUS01 AL1066 Book # N/A

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

Worklist Comment: B-204 Fusion 3279->3345, 3281->3346. gll

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	<u>.250</u>	<u>.250</u>	<u>N/A</u>	g/L
95000161	B-204	2 SAMPLE	S95T003345	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.1816</u>		g/L
		<u>0.5454g</u> → <u>.250 L</u>								
95000161	B-204	3 SAMPLE	S95T003345	0	DOSE-02	SOLID	<u>N/A</u>	<u>1</u>		mrads/hour
95000161	B-204	4 DUP	S95T003345	0 F	FUSION01	SOLID	<u>2.1816</u>	<u>2.384</u>	<u>N/A</u>	g/L
		<u>0.5960g</u> → <u>.250 L</u>								
95000161	B-204	5 DUP	S95T003345	0	DOSE-02	SOLID	<u>1</u>	<u>1</u>	<u>N/A</u>	mrads/hour
95000161	B-204	6 SAMPLE	S95T003346	0 F	FUSION01	SOLID	<u>N/A</u>	<u>2.154</u>		g/L
		<u>0.5385g</u> → <u>.250 L</u>								
95000161	B-204	7 SAMPLE	S95T003346	0	DOSE-02	SOLID	<u>N/A</u>	<u>.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003346	0 F	FUSION01	SOLID	<u>2.154</u>	<u>2.1644</u>	<u>N/A</u>	g/L
		<u>0.5411g</u> → <u>.250 L</u>								
95000161	B-204	9 DUP	S95T003346	0	DOSE-02	SOLID	<u>.5</u>	<u>.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

3820

ADP 12-2-95
Analyst Signature Date

Leah Conlin 12-2-95
Analyst Signature Date

Reviewed By
M/L 12/3/95

Data Entry Comments:

3345 Sample & Dup 5mL HCL & 35mL Con-HNO₃

3346 Sample & Dup 5mL HCL & 35mL Con-HNO₃

AD Bill 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#

3585

Analyst:

[Signature]

Instrument: H2001 50116355 Book #

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

Worklist Comment: B-204 Water Digest 3260->3312, 3261->3313.gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	<u>1.00</u>	<u>1.00</u>	<u>80 II</u>	<u>11-27-95</u>
							<u>2.50</u>	<u>2.50</u>	<u>N/A</u>	<u>g/L</u>
95000161	B-204	2 SAMPLE	S95T003312	0 W	<u>1.00</u> H20DIG01	SOLID	<u>N/A</u>	<u>9.3930</u>	<u>80 II</u>	<u>11-27-95</u>
			<u>.9393g</u>					<u>3.7572</u>	<u>80 II</u>	<u>g/L</u>
95000161	B-204	3 SAMPLE	S95T003312	0	<u>80 II</u> DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		<u>mrad/hour</u>
					<u>11-27-95</u>		<u>9.3930</u>	<u>9.1210</u>		
95000161	B-204	4 DUP	S95T003312	0 W	<u>1.00</u> H20DIG01	SOLID	<u>3.7572</u>	<u>3.6984</u>	<u>N/A</u>	<u>g/L</u>
			<u>.9121g</u>							
95000161	B-204	5 DUP	S95T003312	0	<u>80 II</u> DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	<u>mrad/hour</u>
					<u>11-27-95</u>		<u>5.7600</u>			
95000161	B-204	6 SAMPLE	S95T003313	0 W	<u>1.00</u> H20DIG01	SOLID	<u>N/A</u>	<u>2.3040</u>	<u>80 II</u>	<u>11-27-95</u>
			<u>.5760g</u>							
95000161	B-204	7 SAMPLE	S95T003313	0	<u>80 II</u> DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		<u>mrad/hour</u>
					<u>11-27-95</u>		<u>5.7600</u>	<u>5.5220</u>		
95000161	B-204	8 DUP	S95T003313	0 W	<u>1.00</u> H20DIG01	SOLID	<u>2.3040</u>	<u>2.2084</u>	<u>N/A</u>	<u>g/L</u>
			<u>.5522g</u>							
95000161	B-204	9 DUP	S95T003313	0	<u>80 II</u> DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	<u>mrad/hour</u>
					<u>11-27-95</u>					

Final page for worklist #

3585

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

As per chemist instructions 125 ml amber poly vials
were used. HPT was Scott Corkally
Bernard Griffin II 11-27-95

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#

3602

Analyst: GM **Instrument:** H2001 SN 16355 **Book #** _____

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

Worklist Comment: B-204 Water Digest 2979->2981, 3037->3085. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	<u>100</u>	<u>100</u>	N/A	g/L
95000158	B-204	2 SAMPLE	S95T002981	0 W	H20DIG01	SOLID	N/A	<u>8.9290</u>		g/L
		<u>8929g → .100l</u>								
95000158	B-204	3 SAMPLE	S95T002981	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000158	B-204	4 DUP	S95T002981	0 W	H20DIG01	SOLID	<u>8.9290</u>	<u>9.2960</u>	N/A	g/L
		<u>.9296g → .100l</u>								
95000158	B-204	5 DUP	S95T002981	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrads/hour
95000158	B-204	6 SAMPLE	S95T003085	0 W	H20DIG01	SOLID	N/A	<u>7.7090</u>		g/L
		<u>.7709g → .100l</u>								
95000158	B-204	7 SAMPLE	S95T003085	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000158	B-204	8 DUP	S95T003085	0 W	H20DIG01	SOLID	<u>7.7090</u>	<u>7.4740</u>	N/A	g/L
		<u>.7474g → .100l</u>								
95000158	B-204	9 DUP	S95T003085	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrads/hour

Final page for worklist # 3602

GM 11-22-95
Analyst Signature Date

DM 11/22/95
Analyst Signature Date
Verified By M/L 11/23/95

Data Entry Comments:

As per chemists instructions 125ml poly amber vials were used.
HPT was Scott Corbally

LABCORE Data Entry Template for Worklist#

3603

Analyst:

[Signature]

Instrument: H2O01 SN16355

Book # _____

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

Worklist Comment: B-204 Water Digest 3038->3086, 3039->3087. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>100</u>	<u>100</u>	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003086	0 W	H2ODIG01	SOLID	N/A	<u>7.2240</u>		g/L
		<u>.7224g</u> → <u>.1001</u>								
95000158	B-204	3 SAMPLE	S95T003086	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrad/hour
95000158	B-204	4 DUP	S95T003086	0 W	H2ODIG01	SOLID	<u>7.2240</u>	<u>7.0950</u>	N/A	g/L
		<u>.7095g</u> → <u>.1001</u>								
95000158	B-204	5 DUP	S95T003086	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrad/hour
95000158	B-204	6 SAMPLE	S95T003087	0 W	H2ODIG01	SOLID	N/A	<u>9.8440</u>		g/L
		<u>.9844g</u> → <u>.1001</u>								
95000158	B-204	7 SAMPLE	S95T003087	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrad/hour
95000158	B-204	8 DUP	S95T003087	0 W	H2ODIG01	SOLID	<u>9.8440</u>	<u>9.5980</u>	N/A	g/L
		<u>.9598g</u> → <u>.1001</u>								
95000158	B-204	9 DUP	S95T003087	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrad/hour

Final page for worklist #

3603

[Signature]
Analyst Signature

11-22-95
Date

[Signature]
Analyst Signature

11-22-95
Date

Verified By *[Signature]*
11/23/95

Data Entry Comments:

As per chemists instructions 125ml amber poly vials were used.
HPT was 5000 Corbally

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#

3604

Analyst: QAM Instrument: H2001 SA116355 Book # _____

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

Worklist Comment: B-204 Water Digest 3040->3088, 3041->3089. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000158	B-204	2 SAMPLE	S95T003088	0 W	H2001G01	SOLID	<u>N/A</u>	<u>8.7530</u>		g/L
		<u>.8753g -> .1001</u>								
95000158	B-204	3 SAMPLE	S95T003088	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	4 DUP	S95T003088	0 W	H2001G01	SOLID	<u>8.7530</u>	<u>8.4250</u>	<u>N/A</u>	g/L
		<u>.8425g -> .1001</u>								
95000158	B-204	5 DUP	S95T003088	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour
95000158	B-204	6 SAMPLE	S95T003089	0 W	H2001G01	SOLID	<u>N/A</u>	<u>8.5580</u>		g/L
		<u>.8558g -> .1001</u>								
95000158	B-204	7 SAMPLE	S95T003089	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	8 DUP	S95T003089	0 W	H2001G01	SOLID	<u>8.5580</u>	<u>8.3750</u>	<u>N/A</u>	g/L
		<u>.8375g -> .1001</u>								
95000158	B-204	9 DUP	S95T003089	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

3604

Q Murphy 11-22-95
Analyst Signature Date

Paul Hammett 11/22/95
Analyst Signature Date
Verified By M/L 11/23/95

Data Entry Comments: As per Chemists instructions 125ml amber polyvials
were used. HPT was Scott Corbally

LABCORE Data Entry Template for Worklist#

3606

Analyst:

[Signature]

Instrument: H2001 5016355

Book # _____

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

Worklist Comment: B-204 Water Digest 3262->3314, 3263->3315. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	.100	.100	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003314	0 W	H20DIG01	SOLID	N/A	9.9090		g/L
			.9909g → .1002							
95000161	B-204	3 SAMPLE	S95T003314	0	DOSE-02	SOLID	N/A	<.5		mrads/hour
95000161	B-204	4 DUP	S95T003314	0 W	H20DIG01	SOLID	9.9090	9.9010	N/A	g/L
			.9901g → .1002							
95000161	B-204	5 DUP	S95T003314	0	DOSE-02	SOLID		<.5	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003315	0 W	H20DIG01	SOLID	N/A	9.8980		g/L
			.9898g → .1002							
95000161	B-204	7 SAMPLE	S95T003315	0	DOSE-02	SOLID	N/A	<.5		mrads/hour
95000161	B-204	8 DUP	S95T003315	0 W	H20DIG01	SOLID	9.8980	10.2200	N/A	g/L
			1.0220g → .1002							
95000161	B-204	9 DUP	S95T003315	0	DOSE-02	SOLID		<.5	N/A	mrads/hour

Final page for worklist #

3606

[Signature] 11-22-95
Analyst Signature Date

[Signature] 11-22-95
Analyst Signature Date
Verified By *[Signature]* 11/23/95

Data Entry Comments:

As per Chemists instructions 125ml amber poly vials were used. HPT was Scott Corbally

LABCORE Data Entry Template for Worklist#

3607

Analyst:

[Signature]

Instrument: H2001 50116355 Book #

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

Worklist Comment: B-204 Water Digest 3264->3316, 3265->3317. gih

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20D1G01	SOLID	<u>100</u>	<u>100</u>	<u>N/A</u>	g/L
95000161	B-204	2 SAMPLE	S95T003316	0 W	H20D1G01	SOLID	<u>N/A</u>	<u>9.6960</u>		g/L
			<u>.9696g</u>							
								<u>→ .100L</u>		
95000161	B-204	3 SAMPLE	S95T003316	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrad/hour
95000161	B-204	4 DUP	S95T003316	0 W	H20D1G01	SOLID	<u>9.6960</u>	<u>9.6070</u>	<u>N/A</u>	g/L
			<u>.9607g</u>							
								<u>→ .100L</u>		
95000161	B-204	5 DUP	S95T003316	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrad/hour
95000161	B-204	6 SAMPLE	S95T003317	0 W	H20D1G01	SOLID	<u>N/A</u>	<u>9.1840</u>		g/L
			<u>.9184g</u>							
								<u>→ .100L</u>		
95000161	B-204	7 SAMPLE	S95T003317	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrad/hour
95000161	B-204	8 DUP	S95T003317	0 W	H20D1G01	SOLID	<u>9.1840</u>	<u>9.6690</u>	<u>N/A</u>	g/L
			<u>.9669g</u>							
								<u>→ .100L</u>		
95000161	B-204	9 DUP	S95T003317	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrad/hour

Final page for worklist #

3607

[Signature]
Analyst Signature

11-22-95
Date

[Signature]
Analyst Signature

11-22-95
Date

Verified By *[Signature]* 11/23/95

Data Entry Comments:

As per Chemists instruction 125ml amber poly vials were used. HPT was Scott Corbally

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#

3608

Analyst: QAM **Instrument:** H2001 SR16355 **Book #** _____

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

Worklist Comment: B-204 Water Digest 3266->3318, 3267->3319. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20D1G01	SOLID	<u>.100</u>	<u>.100</u>	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003318	0 W	H20D1G01	SOLID	N/A	<u>10.1310</u>		g/L
			<u>1.0131g</u>							
95000161	B-204	3 SAMPLE	S95T003318	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrad/hour
95000161	B-204	4 DUP	S95T003318	0 W	H20D1G01	SOLID	<u>10.1310</u>	<u>9.5480</u>	N/A	g/L
			<u>.9548g</u>							
95000161	B-204	5 DUP	S95T003318	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrad/hour
95000161	B-204	6 SAMPLE	S95T003319	0 W	H20D1G01	SOLID	N/A	<u>7.0870</u>		g/L
			<u>.7087g</u>							
95000161	B-204	7 SAMPLE	S95T003319	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrad/hour
95000161	B-204	8 DUP	S95T003319	0 W	H20D1G01	SOLID	<u>7.0870</u>	<u>7.1580</u>	N/A	g/L
			<u>.7158g</u>							
95000161	B-204	9 DUP	S95T003319	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrad/hour

Final page for worklist #

3608

QAMurphy 11-22-95
Analyst Signature **Date**

[Signature] 11-22-95
Analyst Signature **Date**
Verified By M/L 11/23/95

Data Entry Comments:

As per chemists instructions 125ml amber poly vials
were used. HPT was Scott Corbally

LABCORE Data Entry Template for Worklist#

3609

Analyst: QAM Instrument: H2O01 50116355 Book #

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

Worklist Comment: B-204 Water Digest 3270->3322, 3271->3323. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>.100</u>	<u>.100</u>	<u>N/A</u>	g/L
95000161	B-204	2 SAMPLE	S95T003322 0 W		H2ODIG01	SOLID	<u>N/A</u>	<u>9.6006</u>		g/L
			<u>.9600g → .100l</u>							
95000161	B-204	3 SAMPLE	S95T003322 0		DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003322 0 W		H2ODIG01	SOLID	<u>9.6000</u>	<u>9.4330</u>	<u>N/A</u>	g/L
			<u>.9433g → .100l</u>							
95000161	B-204	5 DUP	S95T003322 0		DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour
95000161	B-204	6 SAMPLE	S95T003323 0 W		H2ODIG01	SOLID	<u>N/A</u>	<u>8.8570</u>		g/L
			<u>.8857g → .100l</u>							
95000161	B-204	7 SAMPLE	S95T003323 0		DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003323 0 W		H2ODIG01	SOLID	<u>8.8576</u>	<u>8.8740</u>	<u>N/A</u>	g/L
			<u>.8874g → .100l</u>							
95000161	B-204	9 DUP	S95T003323 0		DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

3609

QAM 11-22-95
Analyst Signature Date

Shirley J. Kenna 11-22-95
Analyst Signature Date

Data Entry Comments:
As per Chemists instructions 125ml amber poly vials were
used. HPT was Scott Corbally
Bertrand Griffin II 11-27-95

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#

3631

Analyst:

JAM

Instrument:

H2001 SN16355

Book #

Method: LA-504-101 Rev/Mod

D-O

Worklist Comment: B-204 H2O DIGEST 3042->3090, 3043->3091.SLP

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>.100</u>	<u>.100</u>	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003090	0 W	H2ODIG01	SOLID	N/A	<u>8.3530</u>		g/L
		<u>.8353g -> .100l</u>								
95000158	B-204	3 SAMPLE	S95T003090	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrad/hour
95000158	B-204	4 DUP	S95T003090	0 W	H2ODIG01	SOLID	<u>8.3530</u>	<u>8.16260</u>	N/A	g/L
		<u>.8626g -> .100l</u>								
95000158	B-204	5 DUP	S95T003090	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrad/hour
95000158	B-204	6 SAMPLE	S95T003091	0 W	H2ODIG01	SOLID	N/A	<u>8.1410</u>		g/L
		<u>.8141g -> .100l</u>								
95000158	B-204	7 SAMPLE	S95T003091	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrad/hour
95000158	B-204	8 DUP	S95T003091	0 W	H2ODIG01	SOLID	<u>8.1410</u>	<u>8.41680</u>	N/A	g/L
		<u>.8468g -> .100l</u>								
95000158	B-204	9 DUP	S95T003091	0	DOSE-02	SOLID		<u><.5</u>	N/A	mrad/hour

Final page for worklist #

3631

Analyst Signature

Date

JAM 11-22-95

Analyst Signature

Date

[Signature] 11-22-95

Verified By *W/L* 11/23/95

Data Entry Comments:

As per chemist instructions 125ml amber polyvials were used
HPT was Scott Corbally

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#

3632

Analyst: QAM Instrument: H2001 SN 16355 Book # _____

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

Worklist Comment: B-204 H2O DIGEST 3044->3092, 3045->3093

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	<u>.1001</u>	<u>.1001</u>	<u>N/A</u>	g/L
95000158	B-204	2 SAMPLE	S95T003092	0 W	H20DIG01	SOLID	<u>N/A</u>	<u>9.7770</u>		g/L
		<u>9.777g -> .1001</u>								
95000158	B-204	3 SAMPLE	S95T003092	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrad/hour
95000158	B-204	4 DUP	S95T003092	0 W	H20DIG01	SOLID	<u>9.7770</u>	<u>9.4720</u>	<u>N/A</u>	g/L
		<u>9.472g -> .1001</u>								
95000158	B-204	5 DUP	S95T003092	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrad/hour
95000158	B-204	6 SAMPLE	S95T003093	0 W	H20DIG01	SOLID	<u>N/A</u>	<u>8.9170</u>		g/L
		<u>8.917g -> .1001</u>								
95000158	B-204	7 SAMPLE	S95T003093	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrad/hour
95000158	B-204	8 DUP	S95T003093	0 W	H20DIG01	SOLID	<u>8.9170</u>	<u>8.7850</u>	<u>N/A</u>	g/L
		<u>8.785g -> .1001</u>								
95000158	B-204	9 DUP	S95T003093	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrad/hour

Final page for worklist # 3632

QAM 11-22-95
Analyst Signature Date

Dan Smith 11-22-95
Analyst Signature Date
Verified By M/L 11/23/95

Data Entry Comments:

As per Chemist instructions 125ml amber poly vials were used. HPT was Scott Corbally

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#

3633

Analyst: QAM Instrument: H2001 2N116355 Book # _____

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

Worklist Comment: B-204 H2O DIGEST 3048->3096, 3049->3097

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>.100l</u>	<u>.100l</u>	<u>N/A</u>	g/L
95000158	B-204	2 SAMPLE	S95T003096	0 W	H2ODIG01	SOLID	<u>N/A</u>	<u>10.9850</u>		g/L
		<u>1.0985g</u> →	<u>.100l</u>							
95000158	B-204	3 SAMPLE	S95T003096	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	4 DUP	S95T003096	0 W	H2ODIG01	SOLID	<u>10.9850</u>	<u>10.5080</u>	<u>N/A</u>	g/L
		<u>1.0508g</u> →	<u>.100l</u>							
95000158	B-204	5 DUP	S95T003096	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour
95000158	B-204	6 SAMPLE	S95T003097	0 W	H2ODIG01	SOLID	<u>N/A</u>	<u>11.3320</u>		g/L
		<u>1.1332g</u> →	<u>.100l</u>							
95000158	B-204	7 SAMPLE	S95T003097	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	8 DUP	S95T003097	0 W	H2ODIG01	SOLID	<u>11.3320</u>	<u>11.8020</u>	<u>N/A</u>	g/L
		<u>1.1802g</u> →	<u>.100l</u>							
95000158	B-204	9 DUP	S95T003097	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist # 3633

QAM 11-22-95
Analyst Signature Date

Dan Hemm 11-22-95
Analyst Signature Date

Verified By M/LT

Data Entry Comments:
As per Chemists instructions 125ml amber poly vials were used.
HPT was Scott Corbally

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#

3634

Analyst: QAM Instrument: H2001 SN16355 Book # _____

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

Worklist Comment: B-204 H2O DIGEST 3046->3094, 3047->3095

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	.1001	.1001	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003094	0 W	H20DIG01	SOLID	N/A	7.9640		g/L
			.7964g → .1001							
95000158	B-204	3 SAMPLE	S95T003094	0	DOSE-02	SOLID	N/A	<.5		mrad/hour
95000158	B-204	4 DUP	S95T003094	0 W	H20DIG01	SOLID	7.9640	7.9980	N/A	g/L
			7.998g → .1001							
95000158	B-204	5 DUP	S95T003094	0	DOSE-02	SOLID		<.5	N/A	mrad/hour
95000158	B-204	6 SAMPLE	S95T003095	0 W	H20DIG01	SOLID	N/A	10.3180		g/L
			1.0318g → .1001							
95000158	B-204	7 SAMPLE	S95T003095	0	DOSE-02	SOLID	N/A	<.5		mrad/hour
95000158	B-204	8 DUP	S95T003095	0 W	H20DIG01	SOLID	10.3180	10.3190	N/A	g/L
			1.0319g → .1001							
95000158	B-204	9 DUP	S95T003095	0	DOSE-02	SOLID		<.5	N/A	mrad/hour

Final page for worklist # 3634

QAM 11-22-95
Analyst Signature Date

Scott Corbally 11/22/95
Analyst Signature Date
Verified By M/L

Data Entry Comments:

As per chemists instructions 125ml amber poly vials were used.
HPT was Scott Corbally

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#

3635

Analyst: QAM Instrument: H2001 SN16355 Book #

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

Worklist Comment: B-204 H20 DIGEST 3053->3101, 3054->3102

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	<u>.1002</u>	<u>.1002</u>	<u>N/A</u>	g/L
95000158	B-204	2 SAMPLE	S95T003101	0 W	H20DIG01	SOLID	<u>N/A</u>	<u>11.4000</u>		g/L
		<u>1.1400g</u>	<u>= .1002</u>							
95000158	B-204	3 SAMPLE	S95T003101	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	4 DUP	S95T003101	0 W	H20DIG01	SOLID	<u>11.4000</u>	<u>11.2220</u>	<u>N/A</u>	g/L
		<u>1.1222g</u>	<u>= .1002</u>							
95000158	B-204	5 DUP	S95T003101	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour
95000158	B-204	6 SAMPLE	S95T003102	0 W	H20DIG01	SOLID	<u>N/A</u>	<u>10.5860</u>		g/L
		<u>1.0586g</u>	<u>= .1002</u>							
95000158	B-204	7 SAMPLE	S95T003102	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	8 DUP	S95T003102	0 W	H20DIG01	SOLID	<u>10.5860</u>	<u>10.6930</u>	<u>N/A</u>	g/L
		<u>1.0643g</u>	<u>= .1002</u>							
95000158	B-204	9 DUP	S95T003102	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

3635

QAMurphy 11-22-95
Analyst Signature Date

[Signature] 11-22-95
Analyst Signature Date
Verified By M/L

Data Entry Comments:

As per chemists instructions 125ml poly amber vials were used.
HPT was Scott Corbally

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#

3636

Analyst:

QAM

Instrument: H2001 SN 116355

Book #

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

Worklist Comment: B-204 H2O DIGEST 3055->3103, 3056->3104. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	.1001	.1001	N/A	g/L
95000158	B-204	2 SAMPLE	S95T003103	0 W	H2ODIG01	SOLID	N/A	11.4270		g/L
		1.1427g → .1001								
95000158	B-204	3 SAMPLE	S95T003103	0	DOSE-02	SOLID	N/A	<.5		mrads/hour
95000158	B-204	4 DUP	S95T003103	0 W	H2ODIG01	SOLID	11.4270	10.6930	N/A	g/L
		1.0643g → .1001								
95000158	B-204	5 DUP	S95T003103	0	DOSE-02	SOLID		<.5	N/A	mrads/hour
95000158	B-204	6 SAMPLE	S95T003104	0 W	H2ODIG01	SOLID	N/A	10.1600		g/L
		1.0160g → .1001								
95000158	B-204	7 SAMPLE	S95T003104	0	DOSE-02	SOLID	N/A	<.5		mrads/hour
95000158	B-204	8 DUP	S95T003104	0 W	H2ODIG01	SOLID	10.1600	10.0360	N/A	g/L
		1.0036g → .1001								
95000158	B-204	9 DUP	S95T003104	0	DOSE-02	SOLID		<.5	N/A	mrads/hour

Final page for worklist #

3636

QAM 11-22-95
Analyst Signature Date

Ray Hammond 11-22-95
Analyst Signature Date
Verified By *W/L* 11/23/95

Data Entry Comments:

As per chemists instructions 125ml amber poly vials were used. HPT was Scott Corbally

LABCORE Data Entry Template for Worklist#

3637

Analyst: GM Instrument: H2001 5016355 Book #

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

Worklist Comment: B-204 H2O DIGEST 3059->3107, 3060->3108. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20DIG01	SOLID	<u>.100</u>	<u>.100</u>	<u>N/A</u>	g/L
95000158	B-204	2 SAMPLE	S95T003107	0 W	H20DIG01	SOLID	<u>N/A</u>	<u>9.0810</u>		g/L
95000158	B-204	3 SAMPLE	S95T003107	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	4 DUP	S95T003107	0 W	H20DIG01	SOLID	<u>9.0810</u>	<u>9.0190</u>	<u>N/A</u>	g/L
95000158	B-204	5 DUP	S95T003107	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour
95000158	B-204	6 SAMPLE	S95T003108	0 W	H20DIG01	SOLID	<u>N/A</u>	<u>8.3610</u>		g/L
95000158	B-204	7 SAMPLE	S95T003108	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	8 DUP	S95T003108	0 W	H20DIG01	SOLID	<u>8.3610</u>	<u>8.2940</u>	<u>N/A</u>	g/L
95000158	B-204	9 DUP	S95T003108	0	DOSE-02	SOLID		<u><.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

3637

GM 11-22-95
Analyst Signature Date

Aug Smith 11-22-95
Analyst Signature Date
Verified By MP 11/23/95

Data Entry Comments:

As per chemists instructions 125ml amber poly vials were used. HPL was Scott Corbally

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#

3638

Analyst: QAM Instrument: H2O01 50116355 Book # _____

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

Worklist Comment: B-204 Water Digest 3057->3105, 3058->3106. gjh

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H2ODIG01	SOLID	<u>.1000</u>	<u>.1000</u>	N/A	g/L
95000158	B-204	2	SAMPLE	S95T003105	0	W	H2ODIG01	SOLID	<u>N/A</u>	<u>8.8700</u>		g/L
				<u>.8870g</u>								
95000158	B-204	3	SAMPLE	S95T003105	0		DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	4	DUP	S95T003105	0	W	H2ODIG01	SOLID	<u>8.8700</u>	<u>8.9600</u>	N/A	g/L
				<u>.8960g</u>								
95000158	B-204	5	DUP	S95T003105	0		DOSE-02	SOLID		<u><.5</u>	N/A	mrads/hour
95000158	B-204	6	SAMPLE	S95T003106	0	W	H2ODIG01	SOLID	<u>N/A</u>	<u>7.6980</u>		g/L
				<u>.7698g</u>								
95000158	B-204	7	SAMPLE	S95T003106	0		DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000158	B-204	8	DUP	S95T003106	0	W	H2ODIG01	SOLID	<u>7.6980</u>	<u>8.1040</u>	N/A	g/L
				<u>.8104g</u>								
95000158	B-204	9	DUP	S95T003106	0		DOSE-02	SOLID		<u><.5</u>	N/A	mrads/hour

Final page for worklist #

3638

QAM 11-22-95
Analyst Signature Date

Paul Hammit 11-22-95
Analyst Signature Date
Verified By M/L/A 11/23/95

Data Entry Comments:

As per chemists instructions 125ml amber poly vials were used. HPI was Scott Corbally

LABCORE Data Entry Template for Worklist#

3639

Analyst:

[Signature]

Instrument: H2001

5011635

Book #

Method: LA-504-101 Rev/Mod

D-O

Worklist Comment: B-204 Water Digest 3050->3098. gjh

B-204 C112 Seg #9 Lower Half Solids

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<i>.100</i>	<i>.100</i>	<i>N/A</i>	g/L
95000158	B-204	2 SAMPLE	S95T003098	0 W	H2001G01	SOLID	<i>N/A</i>	<i>8.2760</i>		g/L
			<i>.8276g -> .100l</i>							
95000158	B-204	3 SAMPLE	S95T003098	0	DOSE-02	SOLID	<i>N/A</i>	<i><.5</i>		mrad/hour
95000158	B-204	4 DUP	S95T003098	0 W	H2001G01	SOLID	<i>8.2760</i>	<i>8.8020</i>	<i>N/A</i>	g/L
			<i>.8802g -> .100l</i>							
95000158	B-204	5 DUP	S95T003098	0	DOSE-02	SOLID		<i><.5</i>	<i>N/A</i>	mrad/hour

Final page for worklist #

3639

Analyst Signature

Date

11-22-95

Analyst Signature

Date

[Signature] *11/22/95*

MLH

11/23/95

Data Entry Comments:

*As per chemists instructions 125ml amber poly vials were used.
HPT was Scott Corbally*

LABCORE Data Entry Template for Worklist#

4010

Analyst: RA Instrument: H2001 5 N16355 Book #

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

Worklist Comment: B-204 Water Digest 3051->3099,3052->3100 dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP		H20D1G01	SOLID	<u>.100l</u>	<u>.100l</u>	<u>N/A</u>	<u>g/L</u>
95000158	B-204	2 SAMPLE	S95T003099 0 W <u>.9226g → .100l</u>	H20D1G01	SOLID	<u>N/A</u>	<u>9.226</u>		<u>g/L</u>
95000158	B-204	3 SAMPLE	S95T003099 0 <u>.100l</u>	DOSE-02	SOLID	<u>N/A</u>	<u>2.1</u>	<u>← .1</u>	<u>2.5</u> <u>12-4-95</u> <u>mrads/hour</u>
95000158	B-204	4 DUP	S95T003099 0 W <u>9.545 → .100l</u>	H20D1G01	SOLID	<u>9.226</u>	<u>9.545</u>	<u>N/A</u>	<u>g/L</u>
95000158	B-204	5 DUP	S95T003099 0	DOSE-02	SOLID	<u>2.1</u>	<u>2.1</u>	<u>N/A</u>	<u>mrads/hour</u>
95000158	B-204	6 SAMPLE	S95T003100 0 W <u>.9083 → .100l</u>	H20D1G01	SOLID	<u>N/A</u>	<u>9.083</u>		<u>g/L</u>
95000158	B-204	7 SAMPLE	S95T003100 0	DOSE-02	SOLID	<u>N/A</u>	<u>2.1</u>	<u>← .1</u>	<u>2.5</u> <u>12-4-95</u> <u>mrads/hour</u>
95000158	B-204	8 DUP	S95T003100 0 W <u>9.658 → .100l</u>	H20D1G01	SOLID	<u>9.083</u>	<u>9.658</u>	<u>N/A</u>	<u>g/L</u>
95000158	B-204	9 DUP	S95T003100 0	DOSE-02	SOLID	<u>2.1</u>	<u>2.1</u>	<u>N/A</u>	<u>mrads/hour</u>

Final page for worklist #

4010

Maclinn Green 12-3-95
Analyst Signature Date

RA 12-4-95
Analyst Signature Date

Reviewed by RK Heller 12/5/95

Data Entry Comments:

As per chemists instructions 125ml amber poly vials
were used. HPT was Joe Valdez

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#

4011

Analyst: QAM Instrument: H2001 3255 Book # _____

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

Worklist Comment: B-204 Water Digest 3256->3308, 3257->3309. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20D1G01	SOLID	<u>100</u> <small>2K7 12/14/95</small>	<u>.100</u>	<u>N/A</u>	g/L
95000161	B-204	2 SAMPLE	S95T003308	0 W	H20D1G01	SOLID	<u>N/A</u>	<u>5.4680</u>		g/L
			<u>.5468g → .100g</u>							
95000161	B-204	3 SAMPLE	S95T003308	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003308	0 W	H20D1G01	SOLID	<u>5.4680</u>	<u>5.2500</u>	<u>N/A</u>	g/L
			<u>.5250g → .100g</u>							
95000161	B-204	5 DUP	S95T003308	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	<u>N/A</u>	mrads/hour
95000161	B-204	6 SAMPLE	S95T003309	0 W	H20D1G01	SOLID	<u>N/A</u>	<u>5.0990</u>		g/L
			<u>.5099g → .100g</u>							
95000161	B-204	7 SAMPLE	S95T003309	0	DOSE-02	SOLID	<u>N/A</u>	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003309	0 W	H20D1G01	SOLID	<u>5.0990</u>	<u>5.0510</u>	<u>N/A</u>	g/L
			<u>.5051g → .100g</u>							
95000161	B-204	9 DUP	S95T003309	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	<u>N/A</u>	mrads/hour

Final page for worklist #

4011

QAM 12-13-95
Analyst Signature Date

Keith Feller for Gary LaPlant
Analyst Signature Date
12/14/95

Data Entry Comments:

HPT was Sig Andor

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#

4012

Analyst: QMM Instrument: H2001 SN16355 Book # _____

Method: LA-504-101 Rev/Mod EO

Worklist Comment: B-204 Water Digest 3258->3310, 3259->3311. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20D1G01	SOLID	100 RRF, 12/14/95	100	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003310	0 W	H20D1G01	SOLID	N/A	4.9070		g/L
95000161	B-204	3 SAMPLE	S95T003310	0	DOSE-02	SOLID	N/A	<.5		mrads/hour
95000161	B-204	4 DUP	S95T003310	0 W	H20D1G01	SOLID	4.9070	4.9860	N/A	g/L
95000161	B-204	5 DUP	S95T003310	0	DOSE-02	SOLID	<.5	<.5	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003311	0 W	H20D1G01	SOLID	N/A	5.3630		g/L
95000161	B-204	7 SAMPLE	S95T003311	0	DOSE-02	SOLID	N/A	<.5		mrads/hour
95000161	B-204	8 DUP	S95T003311	0 W	H20D1G01	SOLID	5.3630	5.2700	N/A	g/L
95000161	B-204	9 DUP	S95T003311	0	DOSE-02	SOLID	<.5	<.5	N/A	mrads/hour

Final page for worklist #

4012

QMM 12-14-95
Analyst Signature Date

Keith Fuller for Gary L. Plant
Analyst Signature Date
12/14/95

Reviewed by RK Fuller 12/14/95

Data Entry Comments:
HPT was Sig. Under

LABCORE Data Entry Template for Worklist#

4013

Analyst: SM Instrument: H2001 SN116355 Book # _____

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

Worklist Comment: B-204 Water Digest 3268->3320,3269->3321. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	^{RK7 12/14/95} <u>1.200</u>	<u>100</u>	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003320	0 W	H2001G01	SOLID	N/A	<u>5.0900</u>		g/L
			<u>.5090g -> .1000</u>							
95000161	B-204	3 SAMPLE	S95T003320	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003320	0 W	H2001G01	SOLID	<u>5.0900</u>	<u>5.1280</u>	N/A	g/L
			<u>.5128g -> .1000</u>							
95000161	B-204	5 DUP	S95T003320	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003321	0 W	H2001G01	SOLID	N/A	<u>5.5100</u>		g/L
			<u>.5510g -> .1000</u>							
95000161	B-204	7 SAMPLE	S95T003321	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003321	0 W	H2001G01	SOLID	<u>5.5100</u>	<u>5.5000</u>	N/A	g/L
			<u>.5500g -> .1000</u>							
95000161	B-204	9 DUP	S95T003321	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour

Final page for worklist #

4013

SM 12-14-95
Analyst Signature Date

Keith Fuller for Gary Laplant
Analyst Signature Date
12/14/95

Reviewed by PK Fuller 12/14/95

Data Entry Comments:
HPT was Sig Chandra

LABCORE Data Entry Template for Worklist#

4016

Analyst: QMM Instrument: H2001 SN110355 Book # _____

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

Worklist Comment: B-204 Water Digest 3272->3324, 3273->3325. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>100</u>	<u>100</u>	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003324	0 W	H2001G01	SOLID	N/A	<u>5.7850</u>		g/L
			<u>.5785g → .100g</u>							
95000161	B-204	3 SAMPLE	S95T003324	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003324	0 W	H2001G01	SOLID	<u>5.7850</u>	<u>5.4740</u>	N/A	g/L
			<u>.5474g → .100g</u>							
95000161	B-204	5 DUP	S95T003324	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003325	0 W	H2001G01	SOLID	N/A	<u>5.2860</u>		g/L
			<u>.5286g → .100g</u>							
95000161	B-204	7 SAMPLE	S95T003325	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003325	0 W	H2001G01	SOLID	<u>5.2860</u>	<u>5.5170</u>	N/A	g/L
			<u>.5517g → .100g</u>							
95000161	B-204	9 DUP	S95T003325	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour

Final page for worklist #

4016

QMM 12-14-95
Analyst Signature Date

Keith Fuller for Gary Patton
Analyst Signature Date
12/14/95

Reviewed by RK Fuller 12/14/95

Data Entry Comments:
HPT was Sig Q and/or

LABCORE Data Entry Template for Worklist#

4017

Analyst: QNM Instrument: H2001 30116357 Book # _____Method: LA-504-101 Rev/Mod E-0

Worklist Comment: B-204 Water Digest 3274->3326,3275->3327. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<u>100</u>	<u>100</u>	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003326	0 W	H2001G01	SOLID	N/A	<u>5.2290</u>		g/L
		<u>5229g</u>	<u>>.1000</u>							
95000161	B-204	3 SAMPLE	S95T003326	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003326	0 W	H2001G01	SOLID	<u>5.2290</u>	<u>5.3190</u>	N/A	g/L
		<u>5309g</u>	<u>>.1000</u>							
95000161	B-204	5 DUP	S95T003326	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003327	0 W	H2001G01	SOLID	N/A	<u>5.4080</u>		g/L
		<u>5408g</u>	<u>>.1000</u>							
95000161	B-204	7 SAMPLE	S95T003327	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003327	0 W	H2001G01	SOLID	<u>5.4080</u>	<u>5.1480</u>	N/A	g/L
		<u>5148g</u>	<u>>.1000</u>							
95000161	B-204	9 DUP	S95T003327	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour

Final page for worklist #

4017

Analyst Signature QNM Date 12-14-95Analyst Signature Keith Fuller for Jay Latant Date 12/14/95Reviewed by Rk Fuller 12/14/95

Data Entry Comments:

HPT was Sig Gander

LABCORE Data Entry Template for Worklist#

4018

Analyst: QMM Instrument: H2001 5016355 Book # _____

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

Worklist Comment: B-204 Water Digest 3276->3328, 3277->3329. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H20D1G01	SOLID	<u>1.100</u> <small>PKF 12/14/95</small>	<u>1.100</u>	N/A	g/L
95000161	B-204	2 SAMPLE	S95T003328	0 W	H20D1G01	SOLID	N/A	<u>5.4550</u>		g/L
		<u>.5455g</u> $\rightarrow$ <u>.1000</u>								
95000161	B-204	3 SAMPLE	S95T003328	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003328	0 W	H20D1G01	SOLID	<u>5.4550</u>	<u>5.3350</u>	N/A	g/L
		<u>.5335g</u> $\rightarrow$ <u>.1000</u>								
95000161	B-204	5 DUP	S95T003328	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003329	0 W	H20D1G01	SOLID	N/A	<u>5.2070</u>		g/L
		<u>.5207g</u> $\rightarrow$ <u>.1000</u>								
95000161	B-204	7 SAMPLE	S95T003329	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003329	0 W	H20D1G01	SOLID	<u>5.2070</u>	<u>5.1530</u>	N/A	g/L
		<u>.5653g</u> $\rightarrow$ <u>.1000</u>								
95000161	B-204	9 DUP	S95T003329	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour

Final page for worklist #

4018

QMM 12-13-95
Analyst Signature Date

Keith Fuller for Gary LaPlant
Analyst Signature Date
12/14/95

Reviewed by PK Fuller 12/14/95

Data Entry Comments:

HPT was Sig Qander

LABCORE Data Entry Template for Worklist#

4019

Analyst: [Signature] Instrument: H2001 SW 16355 Book # _____

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

Worklist Comment: B-204 Water Digest 3278->3330, 3279->3331. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	<u>100</u>	<u>100</u>	N/A	g/L
							<i>RK Filler 12/14/95</i>			
95000161	B-204	2 SAMPLE	S95T003330	0 W	H2ODIG01	SOLID	N/A	<u>5.2470</u>		g/L
		<u>.5247g</u> → <u>.100g</u>								
95000161	B-204	3 SAMPLE	S95T003330	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	4 DUP	S95T003330	0 W	H2ODIG01	SOLID	<u>5.2470</u>	<u>5.3470</u>	N/A	g/L
		<u>.5347g</u> → <u>.100g</u>								
95000161	B-204	5 DUP	S95T003330	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003331	0 W	H2ODIG01	SOLID	N/A	<u>5.1310</u>		g/L
		<u>.5131g</u> → <u>.100g</u>								
95000161	B-204	7 SAMPLE	S95T003331	0	DOSE-02	SOLID	N/A	<u><.5</u>		mrads/hour
95000161	B-204	8 DUP	S95T003331	0 W	H2ODIG01	SOLID	<u>5.1310</u>	<u>5.2450</u>	N/A	g/L
		<u>.5245g</u> → <u>.100g</u>								
95000161	B-204	9 DUP	S95T003331	0	DOSE-02	SOLID	<u><.5</u>	<u><.5</u>	N/A	mrads/hour

Final page for worklist #

4019

[Signature] 12-13-95
Analyst Signature Date

[Signature] for Gary L. Plant
Analyst Signature Date
12/14/95

Reviewed by RK Filler 12/14/95

Data Entry Comments
HPT was Sig Rando

LABCORE Data Entry Template for Worklist#

4020

Analyst:

QAM

Instrument: H2001 *SN16355* Book #

Method: LA-504-101 Rev/Mod *C-D*

Worklist Comment: B-204 Water Digest 3280->3332, 3281->3333. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2001G01	SOLID	<i>100</i>	<i>100</i>	N/A	g/L
							<i>100</i>			
95000161	B-204	2 SAMPLE	S95T003332	0 W	H2001G01	SOLID	N/A	<i>5.5920</i>		g/L
95000161	B-204	3 SAMPLE	S95T003332	0	DOSE-02	SOLID	N/A	<i><.5</i>		mrads/hour
95000161	B-204	4 DUP	S95T003332	0 W	H2001G01	SOLID	<i>5.5920</i>	<i>5.1160</i>	N/A	g/L
95000161	B-204	5 DUP	S95T003332	0	DOSE-02	SOLID	<i><.5</i>	<i><.5</i>	N/A	mrads/hour
95000161	B-204	6 SAMPLE	S95T003333	0 W	H2001G01	SOLID	N/A	<i>5.7220</i>		g/L
95000161	B-204	7 SAMPLE	S95T003333	0	DOSE-02	SOLID	N/A	<i><.5</i>		mrads/hour
95000161	B-204	8 DUP	S95T003333	0 W	H2001G01	SOLID	<i>5.7220</i>	<i>5.2330</i>	N/A	g/L
95000161	B-204	9 DUP	S95T003333	0	DOSE-02	SOLID	<i><.5</i>	<i><.5</i>	N/A	mrads/hour

Final page for worklist #

4020

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

APT was Sig Plando

LABCORE Data Entry Template for Worklist#

3973

Analyst:

QAM

Instrument:

ACD01

3011.355

Book #

WHC1A/G43HC1A10
WHC2/13MW402N15

Method: LA-505-159 Rev/Mod

C-0

Worklist Comment: B-204 Acid Digest 3279->3305, 3280->3306, 3281->3307. gll

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	<u>1</u>	<u>0.050</u> <u>1.287</u> <u>12/13/95</u>	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L <u>O.F. - QAM 12-13-95</u>
95000161	B-204	3	SAMPLE	S95T003305	0	A	ACIDIG01	SOLID	N/A	<u>5.5480</u>		g/L
			<u>-2777g -> .0501</u>									
95000161	B-204	4	SAMPLE	S95T003305	0		DOSE-02	SOLID	N/A	<u>.5</u>		mrads/hour
95000161	B-204	5	DUP	S95T003305	0	A	ACIDIG01	SOLID	<u>5.5480</u>	<u>5.4700</u>	N/A	g/L
			<u>-2735g -> .0501</u>									
95000161	B-204	6	DUP	S95T003305	0		DOSE-02	SOLID	<u>.5</u>	<u>.5</u>	N/A	mrads/hour
95000161	B-204	7	SPK	S95T003305	0	A	ACIDIG01	SOLID	<u>5.5320</u>	<u>20</u>	N/A	g/L <u>O.F. - QAM 12-14-95</u>
			<u>-2766g -> .0501</u>									<u>5.5320g/L</u>
95000161	B-204	8	SPK	S95T003305	0		DOSE-02	SOLID	N/A	<u>.5</u>	N/A	mrads/hour
95000161	B-204	9	SAMPLE	S95T003306	0	A	ACIDIG01	SOLID	N/A	<u>4.6600</u>		g/L
			<u>-2330g -> .0501</u>									
95000161	B-204	10	SAMPLE	S95T003306	0		DOSE-02	SOLID	N/A	<u>.5</u>		mrads/hour
95000161	B-204	11	DUP	S95T003306	0	A	ACIDIG01	SOLID	<u>4.6600</u>	<u>4.6800</u>	N/A	g/L
			<u>-2340g -> .0501</u>									
95000161	B-204	12	DUP	S95T003306	0		DOSE-02	SOLID	<u>.5</u>	<u>.5</u>	N/A	mrads/hour
95000161	B-204	13	SAMPLE	S95T003307	0	A	ACIDIG01	SOLID	N/A	<u>5.1760</u>		g/L
			<u>-2588g -> .0501</u>									
95000161	B-204	14	SAMPLE	S95T003307	0		DOSE-02	SOLID	N/A	<u>.5</u>		mrads/hour
95000161	B-204	15	DUP	S95T003307	0	A	ACIDIG01	SOLID	<u>5.1760</u>	<u>4.7360</u>	N/A	g/L
			<u>-2368g -> .0501</u>									
95000161	B-204	16	DUP	S95T003307	0		DOSE-02	SOLID	<u>.5</u>	<u>.5</u>	N/A	mrads/hour

Data Entry Comments:

<1000 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#

3973

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
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Final page for worklist #

3973

Q. Murphy
Analyst Signature

12-14-95
Date

Rich Fella for Gary LaPlant
Analyst Signature

12/15/95
Date

Reviewed by RK Fella
12/15/95

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#

4281

Analyst:

QAM

Instrument:

ACD01

SN16355

Book #

WHC1A G4JWHC1A10
WHC2 L3mwH2C2N15

Method: LA-505-159 Rev/Mod

D-0

Worklist Comment: B-204 C112 Seg 2,3U,3L,4U,4L,5U Acid Digest rkf

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
95000158	B-204	3 SAMPLE	S95T002980	0 A	ACIDIG01	SOLID	N/A	<u>3.6180</u>		g/L
		<u>.1809g</u> → <u>.0501</u>								
95000158	B-204	4 SAMPLE	S95T002980	0	DOSE-02	SOLID	N/A	<u>4</u>		mrads/hour
		<u>.1346g</u> → <u>QAM 12-18-95</u>								
95000158	B-204	5 DUP	S95T002980	0 A	ACIDIG01	SOLID	<u>3.6180</u>	<u>2.6420</u>	N/A	g/L
		<u>.1346g</u> → <u>.0501</u>								
95000158	B-204	6 DUP	S95T002980	0	DOSE-02	SOLID	<u>4</u>	<u>3.3</u>	N/A	mrads/hour
95000158	B-204	7 SPK	S95T002980	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
		<u>.1062g</u> → <u>.0501</u>								
95000158	B-204	8 SPK	S95T002980	0	DOSE-02	SOLID	<u>N/A</u>	<u>2</u>	N/A	mrads/hour
95000158	B-204	9 SAMPLE	S95T003061	0 A	ACIDIG01	SOLID	N/A	<u>4.1520</u>		g/L
		<u>.2076g</u> → <u>.0501</u>								
95000158	B-204	10 SAMPLE	S95T003061	0	DOSE-02	SOLID	N/A	<u>.4</u>		mrads/hour
95000158	B-204	11 DUP	S95T003061	0 A	ACIDIG01	SOLID	<u>4.1520</u>	<u>5.3080</u>	N/A	g/L
		<u>.2654g</u> → <u>.0501</u>								
95000158	B-204	12 DUP	S95T003061	0	DOSE-02	SOLID	<u>.4</u>	<u>.6</u>	N/A	mrads/hour
95000158	B-204	13 SAMPLE	S95T003062	0 A	ACIDIG01	SOLID	N/A	<u>4.4460</u>		g/L
		<u>.2223g</u> → <u>.0501</u>								
95000158	B-204	14 SAMPLE	S95T003062	0	DOSE-02	SOLID	N/A	<u>.5</u>		mrads/hour
95000158	B-204	15 DUP	S95T003062	0 A	ACIDIG01	SOLID	<u>4.4460</u>	<u>4.6460</u>	N/A	g/L
		<u>.2348g</u> → <u>.0501</u>								
95000158	B-204	16 DUP	S95T003062	0	DOSE-02	SOLID	<u>.5</u>	<u>.3</u>	N/A	mrads/hour
95000158	B-204	17 SAMPLE	S95T003063	0 A	ACIDIG01	SOLID	N/A	<u>5.6440</u>		g/L
		<u>.2847g</u> → <u>.0501</u>								
95000158	B-204	18 SAMPLE	S95T003063	0	DOSE-02	SOLID	N/A	<u>.3</u>		mrads/hour

Data Entry Comments:

< 1070 solids

HPT was for Valley

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#

4281

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	19 DUP 2148g → .0501	S95T003063	0 A	ACIDIG01	SOLID	5.1140	4.2960	N/A	g/L
95000158	B-204	20 DUP	S95T003063	0	DOSE-02	SOLID	.3	.4	N/A	mrads/hour
95000158	B-204	21 SAMPLE 2060g → .0501	S95T003064	0 A	ACIDIG01	SOLID	N/A	4.1200		g/L
95000158	B-204	22 SAMPLE	S95T003064	0	DOSE-02	SOLID	N/A	.5		mrads/hour
95000158	B-204	23 DUP 2252g → .0501	S95T003064	0 A	ACIDIG01	SOLID	4.1200	4.5040	N/A	g/L
95000158	B-204	24 DUP	S95T003064	0	DOSE-02	SOLID	.5	.5	N/A	mrads/hour
95000158	B-204	25 SAMPLE 2289g → .0501	S95T003065	0 A	ACIDIG01	SOLID	N/A	4.5780		g/L
95000158	B-204	26 SAMPLE	S95T003065	0	DOSE-02	SOLID	N/A	.5		mrads/hour
95000158	B-204	27 DUP 2405g → .0501	S95T003065	0 A	ACIDIG01	SOLID	4.5780	4.8100	N/A	g/L
95000158	B-204	28 DUP	S95T003065	0	DOSE-02	SOLID	.5	.5	N/A	mrads/hour

Final page for worklist #

4281

JA Murphy 12-20-95
Analyst Signature Date

Keith Fuller 12/21/95
Analyst Signature Date

2979 → 2980 Core 112 Seg 2
3037 → 3061 Core 112 Seg 3u
3038 → 3062 Core 112 Seg 3L
3039 → 3063 Core 112 Seg 4u
3040 → 3064 Core 112 Seg 4L
3041 → 3065 Core 112 Seg 5u

Reviewed by QK Fuller 12/21/95

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#

4286

Analyst:

QAM

Instrument:

ACD01 SN116355

Book #

WHC1A/64JWHC1A N10
WHC2/L3mWHC2N15

Method: LA-505-159 Rev/Mod

D-D

Worklist Comment: B-204 C112 Seg 5L,6U,6L,7U,7L,8U Acid Digest rkf

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				ACIDIG01	SOLID	1	.050	N/A	g/L
		2	STD-PREP				ACIDIG01	SOLID	20	20	N/A	D.F. QAM 12-18-95 94-12-8-95
95000158	B-204	3	SAMPLE	S95T003066	0	A	ACIDIG01	SOLID	N/A	4.3340		g/L
				.2167g → .0500								
95000158	B-204	4	SAMPLE	S95T003066	0		DOSE-02	SOLID	N/A	2		mrad/hour
95000158	B-204	5	DUP	S95T003066	0	A	ACIDIG01	SOLID	4.3340	5.1160	N/A	g/L
				.2558g → .0500								
95000158	B-204	6	DUP	S95T003066	0		DOSE-02	SOLID		2	N/A	mrad/hour
95000158	B-204	7	SPK	S95T003066	0	A	ACIDIG01	SOLID	20	20	N/A	DF. QAM 12-18-95 94-12-8-95
				.2470g → .0500								4.9400g/L
95000158	B-204	8	SPK	S95T003066	0		DOSE-02	SOLID		3	N/A	mrad/hour
95000158	B-204	9	SAMPLE	S95T003067	0	A	ACIDIG01	SOLID	N/A	4.2440		g/L
				.2147g → .0500								
95000158	B-204	10	SAMPLE	S95T003067	0		DOSE-02	SOLID	N/A	5.5		mrad/hour
95000158	B-204	11	DUP	S95T003067	0	A	ACIDIG01	SOLID	4.2440	5.8010	N/A	g/L
				.2902g → .0500								
95000158	B-204	12	DUP	S95T003067	0		DOSE-02	SOLID		5.5	N/A	mrad/hour
95000158	B-204	13	SAMPLE	S95T003068	0	A	ACIDIG01	SOLID	N/A	4.4900		g/L
				.2245g → .0500								
95000158	B-204	14	SAMPLE	S95T003068	0		DOSE-02	SOLID	N/A	5.5		mrad/hour
95000158	B-204	15	DUP	S95T003068	0	A	ACIDIG01	SOLID	4.4900	5.8620	N/A	g/L
				.2931g → .0500								
95000158	B-204	16	DUP	S95T003068	0		DOSE-02	SOLID		5.5	N/A	mrad/hour
95000158	B-204	17	SAMPLE	S95T003069	0	A	ACIDIG01	SOLID	N/A	5.4900		g/L
				.2745g → .0500								
95000158	B-204	18	SAMPLE	S95T003069	0		DOSE-02	SOLID	N/A	5.5		mrad/hour

Data Entry Comments:

<1070 Solids
HPT was for Valley

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#

4286

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	19 DUP	S95T003069	0 A	ACIDIG01	SOLID	5.4900	5.2520	N/A	g/L
		12626g → .0501								
95000158	B-204	20 DUP	S95T003069	0	DOSE-02	SOLID		<.5	N/A	mrad/hour
95000158	B-204	21 SAMPLE	S95T003070	0 A	ACIDIG01	SOLID	N/A	5.6900		g/L
		12545g → .0501								
95000158	B-204	22 SAMPLE	S95T003070	0	DOSE-02	SOLID	N/A	.5		mrad/hour
95000158	B-204	23 DUP	S95T003070	0 A	ACIDIG01	SOLID	5.6400	5.8360	N/A	g/L
		2918g → .0501								
95000158	B-204	24 DUP	S95T003070	0	DOSE-02	SOLID		.7	N/A	mrad/hour
95000158	B-204	25 SAMPLE	S95T003071	0 A	ACIDIG01	SOLID	N/A	4.7700		g/L
		2385g → .0501								
95000158	B-204	26 SAMPLE	S95T003071	0	DOSE-02	SOLID	N/A	.5		mrad/hour
95000158	B-204	27 DUP	S95T003071	0 A	ACIDIG01	SOLID	4.7700	4.3500	N/A	g/L
		2175g → .0501								
95000158	B-204	28 DUP	S95T003071	0	DOSE-02	SOLID		.7	N/A	mrad/hour

Final page for worklist #

4286

Y. Murphy 12-20-95
Analyst Signature Date

Keith Fuller 12-21-95
Analyst Signature Date

<u>Direct</u>	<u>Daughter</u>		
3042	→	3066	Core 112 5u
3043	→	3067	Core 112 6u
3044	→	3068	Core 112 6L
3045	→	3069	Core 112 7u
3046	→	3070	Core 112 7L
3047	→	3071	Core 112 8u

RK Fuller 12/15/95

Reviewed by RK Fuller
12/21/95

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.

232

LABCORE Data Entry Template for Worklist#

4303

Analyst: Leah

Instrument: ACD01 5116355

Book # WHC1A/G4JWHCIAD10
WHC2/13MWHC2J015

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

Worklist Comment: B-204 C112 Seg 11L,12U,12L,13U,13L,14U Acid Digest rkf

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
95000158	B-204	3	SAMPLE	S95T003078	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.2700</u>		g/L ✓
				<u>.2635 → .0500</u>								
95000158	B-204	4	SAMPLE	S95T003078	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour
95000158	B-204	5	DUP	S95T003078	0	A	ACIDIG01	SOLID	<u>5.2700</u>	<u>4.3580</u>	N/A	g/L ✓
				<u>.2179 → .0500</u>								
95000158	B-204	6	DUP	S95T003078	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	N/A	mrads/hour
95000158	B-204	7	SPK	S95T003078	0	A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L ↗ 4.5940
				<u>.2297 → .0500</u>								
95000158	B-204	8	SPK	S95T003078	0		DOSE-02	SOLID	<u>NA</u>	<u>4.5</u>	N/A	mrads/hour
95000158	B-204	9	SAMPLE	S95T003079	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>4.6760</u>		g/L
				<u>.2338 → .0500</u>								
95000158	B-204	10	SAMPLE	S95T003079	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour
95000158	B-204	11	DUP	S95T003079	0	A	ACIDIG01	SOLID	<u>4.6760</u>	<u>5.1780</u>	N/A	g/L
				<u>.2589 → .0500</u>								
95000158	B-204	12	DUP	S95T003079	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	N/A	mrads/hour
95000158	B-204	13	SAMPLE	S95T003080	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.1100</u>		g/L
				<u>.2555 → .0500</u>								
95000158	B-204	14	SAMPLE	S95T003080	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour
95000158	B-204	15	DUP	S95T003080	0	A	ACIDIG01	SOLID	<u>5.1100</u>	<u>4.9580</u>	N/A	g/L
				<u>.2479 → .0500</u>								
95000158	B-204	16	DUP	S95T003080	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	N/A	mrads/hour
95000158	B-204	17	SAMPLE	S95T003081	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.7340</u>		g/L
				<u>.2867 → .0500</u>								
95000158	B-204	18	SAMPLE	S95T003081	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour

Data Entry Comments:

NOTE: 3078 Spike Some final dilute
was lost due to spilling.

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#

4303

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	19 DUP	S95T003081	0 A	ACIDIG01	SOLID	5.7340	5.7280	N/A	g/L
			2864 → .050L							
95000158	B-204	20 DUP	S95T003081	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000158	B-204	21 SAMPLE	S95T003082	0 A	ACIDIG01	SOLID	N/A	5.1420		g/L
			2571 → .050L							
95000158	B-204	22 SAMPLE	S95T003082	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000158	B-204	23 DUP	S95T003082	0 A	ACIDIG01	SOLID	5.1420	5.9020	N/A	g/L
			2951 → .050L							
95000158	B-204	24 DUP	S95T003082	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000158	B-204	25 SAMPLE	S95T003083	0 A	ACIDIG01	SOLID	N/A	5.4020		g/L
			2701 → .050L							
95000158	B-204	26 SAMPLE	S95T003083	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000158	B-204	27 DUP	S95T003083	0 A	ACIDIG01	SOLID	5.4020	4.7220	N/A	g/L
			2361 → .050L							
95000158	B-204	28 DUP	S95T003083	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour

Final page for worklist #

4303

Analyst Signature

Date

12-17-95

Analyst Signature

Date

12/18/95

① 3054 → 3078 Core 112 11L
 ② 3055 → 3079 12L
 ③ 3056 → 3080 12L
 ④ 3057 → 3081 13L
 ⑤ 3058 → 3082 13L
 ⑥ 3059 → 3083 14L

Reviewed by Keith Fuller 12/18/95

Data Entry Comments:

< 1% 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#

4307

Analyst:

AM

Instrument:

ACD01 SN16355

Book #

WHC1A / G4JWHC1A-W10
WHC2 / L3MWHC2-N15

Method: LA-505-159 Rev/Mod

D-0

Worklist Comment: B204 C112 Seg 8L,9U,9L,10U,10L,11U Acid digest rkf

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	1	.050	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	20	20	N/A	D.F. 12-18-95 g/L 9AM
95000158	B-204	3 SAMPLE .2564g → .0501	S95T003072 0 A		ACIDIG01	SOLID	N/A	5.1200		g/L
95000158	B-204	4 SAMPLE	S95T003072 0		DOSE-02	SOLID	N/A	.2		mrad/hour
95000158	B-204	5 DUP .2623g → .0501	S95T003072 0 A		ACIDIG01	SOLID	5.1200	5.2460	N/A	g/L
95000158	B-204	6 DUP	S95T003072 0		DOSE-02	SOLID	.2	.2	N/A	mrad/hour
95000158	B-204	7 SPK .2312g → .0501	S95T003072 0 A		ACIDIG01	SOLID	20	20	N/A	D.F. 12-18-95 9AM g/L 4.6240g/L
95000158	B-204	8 SPK	S95T003072 0		DOSE-02	SOLID	.2	.2	N/A	mrad/hour
95000158	B-204	9 SAMPLE .2416g → .0501	S95T003073 0 A		ACIDIG01	SOLID	N/A	4.8320		g/L
95000158	B-204	10 SAMPLE	S95T003073 0		DOSE-02	SOLID	N/A	<.5		mrad/hour
95000158	B-204	11 DUP .2634g → .0501	S95T003073 0 A		ACIDIG01	SOLID	4.8320	5.2480	N/A	g/L
95000158	B-204	12 DUP	S95T003073 0		DOSE-02	SOLID	<.5	<.5	N/A	mrad/hour
95000158	B-204	13 SAMPLE .2919g → .0501	S95T003074 0 A		ACIDIG01	SOLID	N/A	5.8380		g/L
95000158	B-204	14 SAMPLE	S95T003074 0		DOSE-02	SOLID	N/A	<.5		mrad/hour
95000158	B-204	15 DUP .2623g → .0501	S95T003074 0 A		ACIDIG01	SOLID	5.8380	5.2460	N/A	g/L
95000158	B-204	16 DUP	S95T003074 0		DOSE-02	SOLID	<.5	<.5	N/A	mrad/hour
95000158	B-204	17 SAMPLE 2K7 12/10/95 → .2692, .2691g → .0501	S95T003075 0 A		ACIDIG01	SOLID	N/A	5.3820		g/L
95000158	B-204	18 SAMPLE	S95T003075 0		DOSE-02	SOLID	N/A	<.5		mrad/hour

Data Entry Comments:

<100 solids
APT was Joe Valdez

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#

4307

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	19 DUP 0.2750g → .0501	S95T003075	0 A	ACIDIG01	SOLID	5.3820	5.5000	N/A	g/L
95000158	B-204	20 DUP	S95T003075	0	DOSE-02	SOLID	<.5	<.5	N/A	mrad/hour
95000158	B-204	21 SAMPLE 0.2192g → .0501	S95T003076	0 A	ACIDIG01	SOLID	N/A	4.3840		g/L
95000158	B-204	22 SAMPLE	S95T003076	0	DOSE-02	SOLID	N/A	<.5		mrad/hour
95000158	B-204	23 DUP 0.2436g → .0501	S95T003076	0 A	ACIDIG01	SOLID	4.3840	4.8720	N/A	g/L
95000158	B-204	24 DUP	S95T003076	0	DOSE-02	SOLID	<.5	<.5	N/A	mrad/hour
95000158	B-204	25 SAMPLE .2458g → .0501	S95T003077	0 A	ACIDIG01	SOLID	N/A	4.9160		g/L
95000158	B-204	26 SAMPLE	S95T003077	0	DOSE-02	SOLID	N/A	<.5		mrad/hour
95000158	B-204	27 DUP .2870g → .0501	S95T003077	0 A	ACIDIG01	SOLID	4.9160	5.7400	N/A	g/L
95000158	B-204	28 DUP	S95T003077	0	DOSE-02	SOLID	<.5	<.5	N/A	mrad/hour

Final page for worklist #

4307

AM Murphy 12-20-95
Analyst Signature Date

Keith Fuller 12/21/95
Analyst Signature Date

① 3048 → 3072 Core 112 8L
② 3049 → 3073 9u
③ 3050 → 3074 9L
④ 3051 → 3075 10u
⑤ 3052 → 3076 10L
⑥ 3053 → 3077 11u

Reviewed by RK Fuller 12/21/95

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#

4309

Analyst: lmh

Instrument: ACD01 SR1635J

Book # WHC1A/G4JWHC1A010
WHC2/L3MWHC2015

Method: LA-505-159 Rev/Mod DO

Worklist Comment: B-204 C114 Seg 4L,5U,5L,6U,6L,7U Acid Digest rkf

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>	g/L
95000161	B-204	3 SAMPLE	S95T003287 0 A		ACIDIG01	SOLID	<u>N/A</u>	<u>5.6960</u>		g/L
		<u>.2848</u> → <u>.050</u>								
95000161	B-204	4 SAMPLE	S95T003287 0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour
95000161	B-204	5 DUP	S95T003287 0 A		ACIDIG01	SOLID	<u>5.6960</u>	<u>4.5180</u>	<u>N/A</u>	g/L
		<u>.2259</u> → <u>.050</u>								
95000161	B-204	6 DUP	S95T003287 0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrads/hour
95000161	B-204	7 SPK	S95T003287 0 A		ACIDIG01	SOLID	<u>20</u>	<u>20</u>	<u>N/A</u>	g/L
		<u>.2600</u> → <u>.050</u>								5.2000 g/L
95000161	B-204	8 SPK	S95T003287 0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrads/hour
95000161	B-204	9 SAMPLE	S95T003288 0 A		ACIDIG01	SOLID	<u>N/A</u>	<u>4.5080</u>		g/L
		<u>.2254</u> → <u>.050</u>								
95000161	B-204	10 SAMPLE	S95T003288 0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour
95000161	B-204	11 DUP	S95T003288 0 A		ACIDIG01	SOLID	<u>4.5080</u>	<u>5.1740</u>	<u>N/A</u>	g/L
		<u>.2587</u> → <u>.050</u>								
95000161	B-204	12 DUP	S95T003288 0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrads/hour
95000161	B-204	13 SAMPLE	S95T003289 0 A		ACIDIG01	SOLID	<u>N/A</u>	<u>4.4320</u>		g/L
		<u>.2216</u> → <u>.050</u>								
95000161	B-204	14 SAMPLE	S95T003289 0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour
95000161	B-204	15 DUP	S95T003289 0 A		ACIDIG01	SOLID	<u>4.4320</u>	<u>4.2740</u>	<u>N/A</u>	g/L
		<u>.2137</u> → <u>.050</u>								
95000161	B-204	16 DUP	S95T003289 0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrads/hour
95000161	B-204	17 SAMPLE	S95T003290 0 A		ACIDIG01	SOLID	<u>N/A</u>	<u>4.4280</u>		g/L
		<u>.2214</u> → <u>.050</u>								
95000161	B-204	18 SAMPLE	S95T003290 0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrads/hour

Data Entry Comments:

± 1 % 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#

4309

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	19 DUP	S95T003290	0 A	ACIDIG01	SOLID	4.4280	5.0500	N/A	g/L
		.2525 → .0500								
95000161	B-204	20 DUP	S95T003290	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000161	B-204	21 SAMPLE	S95T003291	0 A	ACIDIG01	SOLID	N/A	5.8200		g/L
		.2910 → .0500								
95000161	B-204	22 SAMPLE	S95T003291	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000161	B-204	23 DUP	S95T003291	0 A	ACIDIG01	SOLID	5.8200	4.7040	N/A	g/L
		.2352 → .0500								
95000161	B-204	24 DUP	S95T003291	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000161	B-204	25 SAMPLE	S95T003292	0 A	ACIDIG01	SOLID	N/A	4.2700		g/L
		.2135 → .0500								
95000161	B-204	26 SAMPLE	S95T003292	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000161	B-204	27 DUP	S95T003292	0 A	ACIDIG01	SOLID	4.2700	4.5980	N/A	g/L
		.2299 → .0500								
95000161	B-204	28 DUP	S95T003292	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour

Final page for worklist #

4309

Analyst Signature Date 12-17-95

Analyst Signature Date 12/18/95

RK Fuller 12/15/95
3287 → 3261 → 3287 Core 114 4L
3288 → 3262 → 3288 5L
3289 → 3263 → 3289 5L
3290 → 3264 → 3290 6L
3291 → 3265 → 3291 6L
3292 → 3266 → 3292 7L

Reviewed by RK Fuller 12/18/95

Data Entry Comments: Reviewed RK 12/18/95

LABCORE Data Entry Template for Worklist#

4310

Analyst: lck Instrument: ACD01 3216355 Book # WHC1A/G4JWHC1A/10
WHC2/13MWHC2015

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

Worklist Comment: B-204 C112 Seg 14L & C114 Seg 2U,2L,3U,3L,4U Acid Digest rkf

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>	g/L
95000158	B-204	3 SAMPLE	S95T003084	0 A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.0220</u>		g/L
		<u>.2511</u> → <u>.0500</u>								
95000158	B-204	4 SAMPLE	S95T003084	0	DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrad/hour
95000158	B-204	5 DUP	S95T003084	0 A	ACIDIG01	SOLID	<u>5.0220</u>	<u>5.5260</u>	<u>N/A</u>	g/L
		<u>.2763</u> → <u>.0500</u>								
95000158	B-204	6 DUP	S95T003084	0	DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrad/hour
95000158	B-204	7 SPK	S95T003084	0 A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	<u>N/A</u>	g/L
		<u>.2642</u> → <u>.0500</u>								
95000158	B-204	8 SPK	S95T003084	0	DOSE-02	SOLID	<u>N.9</u>	<u>4.8</u>	<u>N/A</u>	mrad/hour
95000161	B-204	9 SAMPLE	S95T003282	0 A	ACIDIG01	SOLID	<u>N/A</u>	<u>4.7700</u>		g/L
		<u>.2385</u> → <u>.0500</u>								
95000161	B-204	10 SAMPLE	S95T003282	0	DOSE-02	SOLID	<u>N/A</u>	<u>4.8</u>	<u>N/A</u>	mrad/hour
		<u>.2274</u> → <u>.0500</u>								
95000161	B-204	11 DUP	S95T003282	0 A	ACIDIG01	SOLID	<u>4.7700</u>	<u>4.5480</u>	<u>N/A</u>	g/L
95000161	B-204	12 DUP	S95T003282	0	DOSE-02	SOLID	<u>.6</u>	<u>4.5</u>	<u>N/A</u>	mrad/hour
95000161	B-204	13 SAMPLE	S95T003283	0 A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.1340</u>		g/L
		<u>.2567</u> → <u>.0500</u>								
95000161	B-204	14 SAMPLE	S95T003283	0	DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrad/hour
95000161	B-204	15 DUP	S95T003283	0 A	ACIDIG01	SOLID	<u>5.1340</u>	<u>5.4940</u>	<u>N/A</u>	g/L
		<u>.2747</u> → <u>.0500</u>								
95000161	B-204	16 DUP	S95T003283	0	DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrad/hour
95000161	B-204	17 SAMPLE	S95T003284	0 A	ACIDIG01	SOLID	<u>N/A</u>	<u>5.0480</u>		g/L
		<u>.2524</u> → <u>.0500</u>								
95000161	B-204	18 SAMPLE	S95T003284	0	DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrad/hour

Data Entry Comments:

41% 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#

4310

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	19 DUP	S95T003284	0 A	ACIDIG01	SOLID	3.0480	5.2940	N/A	g/L
		2647 → .050L								
95000161	B-204	20 DUP	S95T003284	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000161	B-204	21 SAMPLE	S95T003285	0 A	ACIDIG01	SOLID	N/A	5.9180		g/L
		2959 → .050L								
95000161	B-204	22 SAMPLE	S95T003285	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000161	B-204	23 DUP	S95T003285	0 A	ACIDIG01	SOLID	5.9180	5.1780	N/A	g/L
		2589 → .050L								
95000161	B-204	24 DUP	S95T003285	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000161	B-204	25 SAMPLE	S95T003286	0 A	ACIDIG01	SOLID	N/A	4.4920		g/L
		2246 → .050L								
95000161	B-204	26 SAMPLE	S95T003286	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000161	B-204	27 DUP	S95T003286	0 A	ACIDIG01	SOLID	4.4920	5.0820	N/A	g/L
		2541 → .050L								
95000161	B-204	28 DUP	S95T003286	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour

Final page for worklist #

4310

Analyst Signature Parent Date 12-17-95

3060 → 3084 Core 112 14L

3256 → 3282 Core 114 2u

3257 → 3283 2L

3258 → 3284 3u

3259 → 3285 3L

3260 → 3286 4u

Analyst Signature Keith Fuller Date 12/18/95

Reviewed by RK Fuller
12/18/95

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#

4311

Analyst: l m h Instrument: ACD01 3016355 Book # WH C1A/G4JWHC1A210
WHC2/L3MWHC2015

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

Worklist Comment: B-204 C114 Seg 7L,8U,8L,9U,9L,10U Acid Digest rkf

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>	g/L
95000161	B-204	3	SAMPLE	S95T003293	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>4.6400</u>		g/L
				<u>.2320</u>								
				<u>→ .050</u>								
95000161	B-204	4	SAMPLE	S95T003293	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrad/hour
95000161	B-204	5	DUP	S95T003293	0	A	ACIDIG01	SOLID	<u>4.6400</u>	<u>5.1600</u>	<u>N/A</u>	g/L
				<u>.2580</u>								
				<u>→ .050</u>								
95000161	B-204	6	DUP	S95T003293	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrad/hour
95000161	B-204	7	SPK	S95T003293	0	A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	<u>N/A</u>	g/L
				<u>.2728</u>								
				<u>→ .050</u>								
95000161	B-204	8	SPK	S95T003293	0		DOSE-02	SOLID	<u>NA</u>	<u>4.5</u>	<u>N/A</u>	mrad/hour
95000161	B-204	9	SAMPLE	S95T003294	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>4.6060</u>		g/L
				<u>.2303</u>								
				<u>→ .050</u>								
95000161	B-204	10	SAMPLE	S95T003294	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrad/hour
95000161	B-204	11	DUP	S95T003294	0	A	ACIDIG01	SOLID	<u>4.6060</u>	<u>5.5840</u>	<u>N/A</u>	g/L
				<u>.2792</u>								
				<u>→ .050</u>								
95000161	B-204	12	DUP	S95T003294	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrad/hour
95000161	B-204	13	SAMPLE	S95T003295	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>4.8740</u>		g/L
				<u>.2437</u>								
				<u>→ .050</u>								
95000161	B-204	14	SAMPLE	S95T003295	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrad/hour
95000161	B-204	15	DUP	S95T003295	0	A	ACIDIG01	SOLID	<u>4.8740</u>	<u>4.9960</u>	<u>N/A</u>	g/L
				<u>.2498</u>								
				<u>→ .050</u>								
95000161	B-204	16	DUP	S95T003295	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	<u>N/A</u>	mrad/hour
95000161	B-204	17	SAMPLE	S95T003296	0	A	ACIDIG01	SOLID	<u>N/A</u>	<u>4.8660</u>		g/L
				<u>.2433</u>								
				<u>→ .050</u>								
95000161	B-204	18	SAMPLE	S95T003296	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>		mrad/hour

Data Entry Comments:

< 1% Solids

HPT: Scott Corbally

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#

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GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	19 DUP	S95T003296	0 A	ACIDIG01	SOLID	4.8660	4.3060	N/A	g/L
		.2153 → .050L								
95000161	B-204	20 DUP	S95T003296	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000161	B-204	21 SAMPLE	S95T003297	0 A	ACIDIG01	SOLID	N/A	5.2980		g/L
		.2649 → .050L								
95000161	B-204	22 SAMPLE	S95T003297	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000161	B-204	23 DUP	S95T003297	0 A	ACIDIG01	SOLID	5.2980	4.4400	N/A	g/L
		.2220 → .050L								
95000161	B-204	24 DUP	S95T003297	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000161	B-204	25 SAMPLE	S95T003298	0 A	ACIDIG01	SOLID	N/A	5.4020		g/L
		.2701 → .050L								
95000161	B-204	26 SAMPLE	S95T003298	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000161	B-204	27 DUP	S95T003298	0 A	ACIDIG01	SOLID	5.4020	5.5780	N/A	g/L
		.2789 → .050L								
95000161	B-204	28 DUP	S95T003298	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour

Final page for worklist #

4311

Analyst Signature Date 12-17-95

Analyst Signature Date 12-18-95

3267 → 3293 Core 114 7L
3268 → 3294 8u
3269 → 3295 8L
3270 → 3296 9u
3271 → 3297 9L
3272 → 3298 10u

Reviewed by QK Fuller 12/18/95

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.

24%

LABCORE Data Entry Template for Worklist#

4312

Analyst: lmf Instrument: ACD01 12/2355 Book # WHC1A / G4JWHC1A010
WHC2 / L3MWHC2015

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

Worklist Comment: B-204 C114 Seg 10L,11U,11L,12U,12L,13U Acid Digest rkf

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
95000161	B-204	3	SAMPLE	S95T003299	0	A	ACIDIG01	SOLID	N/A	<u>5.9060</u>		g/L
				<u>.2953</u>								
95000161	B-204	4	SAMPLE	S95T003299	0		DOSE-02	SOLID	N/A	<u>4.5</u>		mrad/hour
95000161	B-204	5	DUP	S95T003299	0	A	ACIDIG01	SOLID	<u>5.9060</u>	<u>5.1900</u>	N/A	g/L
				<u>.2595</u>								
95000161	B-204	6	DUP	S95T003299	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	N/A	mrad/hour
95000161	B-204	7	SPK	S95T003299	0	A	ACIDIG01	SOLID	<u>20</u>	<u>20</u>	N/A	g/L
				<u>.2149</u>								
95000161	B-204	8	SPK	S95T003299	0		DOSE-02	SOLID	<u>N/A</u>	<u>4.5</u>	N/A	mrad/hour
95000161	B-204	9	SAMPLE	S95T003300	0	A	ACIDIG01	SOLID	N/A	<u>4.2560</u>		g/L
				<u>.2128</u>								
95000161	B-204	10	SAMPLE	S95T003300	0		DOSE-02	SOLID	N/A	<u>4.5</u>		mrad/hour
95000161	B-204	11	DUP	S95T003300	0	A	ACIDIG01	SOLID	<u>4.2560</u>	<u>4.1420</u>	N/A	g/L
				<u>.2071</u>								
95000161	B-204	12	DUP	S95T003300	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	N/A	mrad/hour
95000161	B-204	13	SAMPLE	S95T003301	0	A	ACIDIG01	SOLID	N/A	<u>5.8820</u>		g/L
				<u>.2941</u>								
95000161	B-204	14	SAMPLE	S95T003301	0		DOSE-02	SOLID	N/A	<u>4.5</u>		mrad/hour
95000161	B-204	15	DUP	S95T003301	0	A	ACIDIG01	SOLID	<u>5.8820</u>	<u>5.8780</u>	N/A	g/L
				<u>.2939</u>								
95000161	B-204	16	DUP	S95T003301	0		DOSE-02	SOLID	<u>4.5</u>	<u>4.5</u>	N/A	mrad/hour
95000161	B-204	17	SAMPLE	S95T003302	0	A	ACIDIG01	SOLID	N/A	<u>4.1700</u>		g/L
				<u>.2085</u>								
95000161	B-204	18	SAMPLE	S95T003302	0		DOSE-02	SOLID	N/A	<u>4.5</u>		mrad/hour

Data Entry Comments:

< 1 % 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#

4312

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	19 DUP	S95T003302	0 A	ACIDIG01	SOLID	4.1700	4.5280	N/A	g/L
95000161	B-204	20 DUP	S95T003302	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000161	B-204	21 SAMPLE	S95T003303	0 A	ACIDIG01	SOLID	N/A	4.4760		g/L
95000161	B-204	22 SAMPLE	S95T003303	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000161	B-204	23 DUP	S95T003303	0 A	ACIDIG01	SOLID	4.4760	5.4000	N/A	g/L
95000161	B-204	24 DUP	S95T003303	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour
95000161	B-204	25 SAMPLE	S95T003304	0 A	ACIDIG01	SOLID	N/A	4.3660		g/L
95000161	B-204	26 SAMPLE	S95T003304	0	DOSE-02	SOLID	N/A	4.5		mrads/hour
95000161	B-204	27 DUP	S95T003304	0 A	ACIDIG01	SOLID	4.3660	4.8920	N/A	g/L
95000161	B-204	28 DUP	S95T003304	0	DOSE-02	SOLID	4.5	4.5	N/A	mrads/hour

Final page for worklist #

4312

Handwritten Signature Date 12-17-95
Analyst Signature Date

Handwritten Signature for Yung Ra Plant Date 12/18/95
Analyst Signature Date

3273 → 3299 Core 114 10L
3274 → 3300 11L
3275 → 3301 11L
3276 → 3302 12L
3277 → 3303 12L
3278 → 3304 13L

Reviewed by RK Fuller 12/18/95

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.

WHC-SD-WM-DP-160, REV. 1

INORGANIC ANALYSES

LABCORE Data Entry Template for Worklist#

4354

Analyst: BDV Instrument: DSC01 Book #

Method: LA-514-113 Rev/Mod

Worklist Comment: Dry DSC for B-204. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	1 SAMPLE	S95T002976	0	DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000158	B-204	2 DUP	S95T002976	0	DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	3 SAMPLE	S95T002984	0	DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000158	B-204	4 DUP	S95T002984	0	DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	5 SAMPLE	S95T002986	0	DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000158	B-204	6 DUP	S95T002986	0	DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	7 SAMPLE	S95T003255	0	DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000161	B-204	8 DUP	S95T003255	0	DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	9 SAMPLE	S95T003349	0	DSC-02	LIQUID	N/A	Ø		Joules/g Dry
95000161	B-204	10 DUP	S95T003349	0	DSC-02	LIQUID	Ø	Ø	N/A	Joules/g Dry

Data entered & verified by

Final page for worklist #

4354

Blandina Valenzuela 12/20/95

Analyst Signature

Date

Analyst Signature

Date

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

4356

Analyst: BDV Instrument: DSC01 Book # —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Dry DSC for B-204. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	1 SAMPLE	S95T002979	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	2 DUP	S95T002979	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	3 SAMPLE	S95T003037	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	4 DUP	S95T003037	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	5 SAMPLE	S95T003038	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	6 DUP	S95T003038	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	7 SAMPLE	S95T003039	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	8 DUP	S95T003039	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	9 SAMPLE	S95T003040	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	10 DUP	S95T003040	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	11 SAMPLE	S95T003041	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	12 DUP	S95T003041	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	13 SAMPLE	S95T003042	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	14 DUP	S95T003042	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	15 SAMPLE	S95T003043	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	16 DUP	S95T003043	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	17 SAMPLE	S95T003044	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	18 DUP	S95T003044	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

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#

4356

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	19 SAMPLE	S95T003045	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	20 DUP	S95T003045	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

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Final page for worklist #

4356

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#

4357

Analyst: BW Instrument: DSC01 Book # Method: LA-514-113 Rev/Mod

Worklist Comment: Dry DSC for B-204. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	1 SAMPLE	S95T003046	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	2 DUP	S95T003046	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	3 SAMPLE	S95T003047	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	4 DUP	S95T003047	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	5 SAMPLE	S95T003048	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	6 DUP	S95T003048	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	7 SAMPLE	S95T003049	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	8 DUP	S95T003049	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	9 SAMPLE	S95T003050	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	10 DUP	S95T003050	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	11 SAMPLE	S95T003051	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	12 DUP	S95T003051	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	13 SAMPLE	S95T003052	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	14 DUP	S95T003052	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	15 SAMPLE	S95T003053	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	16 DUP	S95T003053	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	17 SAMPLE	S95T003054	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	18 DUP	S95T003054	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

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#

4357

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	19 SAMPLE	S95T003055	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	20 DUP	S95T003055	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

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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#

4358

Analyst: BDV Instrument: DSC01 Book #

Method: LA-514-113 Rev/Mod

Worklist Comment: Dry DSC for B-204. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	1 SAMPLE	S95T003056	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	2 DUP	S95T003056	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	3 SAMPLE	S95T003057	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	4 DUP	S95T003057	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	5 SAMPLE	S95T003058	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	6 DUP	S95T003058	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	7 SAMPLE	S95T003059	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	8 DUP	S95T003059	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000158	B-204	9 SAMPLE	S95T003060	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000158	B-204	10 DUP	S95T003060	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	11 SAMPLE	S95T003256	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	12 DUP	S95T003256	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	13 SAMPLE	S95T003257	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	14 DUP	S95T003257	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	15 SAMPLE	S95T003258	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	16 DUP	S95T003258	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	17 SAMPLE	S95T003259	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	18 DUP	S95T003259	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

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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LABCORE Data Entry Template for Worklist#**4358**

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	19 SAMPLE	S95T003260	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	20 DUP	S95T003260	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Data entered and verified by **Final page for worklist # 4358**

Blandina Valenzuela 12/20/95

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#

4359

Analyst: BW Instrument: DSC01 Book #

Method: LA-514-113 Rev/Mod

Worklist Comment: Dry DSC for B-204. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	1 SAMPLE	S95T003261	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	2 DUP	S95T003261	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	3 SAMPLE	S95T003262	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	4 DUP	S95T003262	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	5 SAMPLE	S95T003263	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	6 DUP	S95T003263	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	7 SAMPLE	S95T003264	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	8 DUP	S95T003264	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	9 SAMPLE	S95T003265	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	10 DUP	S95T003265	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	11 SAMPLE	S95T003266	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	12 DUP	S95T003266	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	13 SAMPLE	S95T003267	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	14 DUP	S95T003267	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	15 SAMPLE	S95T003268	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	16 DUP	S95T003268	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	17 SAMPLE	S95T003269	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	18 DUP	S95T003269	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

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#

4359

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	19 SAMPLE	S95T003270	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	20 DUP	S95T003270	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Data entered and verified by

Final page for worklist #

4359

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#

4360

Analyst: BDN Instrument: DSC01 Book #

Method: LA-514-113 Rev/Mod

Worklist Comment: Dry DSC for B-204. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	1 SAMPLE	S95T003271	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	2 DUP	S95T003271	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	3 SAMPLE	S95T003272	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	4 DUP	S95T003272	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	5 SAMPLE	S95T003273	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	6 DUP	S95T003273	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	7 SAMPLE	S95T003274	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	8 DUP	S95T003274	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	9 SAMPLE	S95T003275	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	10 DUP	S95T003275	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	11 SAMPLE	S95T003276	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	12 DUP	S95T003276	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	13 SAMPLE	S95T003277	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	14 DUP	S95T003277	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	15 SAMPLE	S95T003278	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	16 DUP	S95T003278	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
95000161	B-204	17 SAMPLE	S95T003279	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	18 DUP	S95T003279	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

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#

4360

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	19 SAMPLE	S95T003280	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	20 DUP	S95T003280	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Final page for worklist #

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Data entered & verified by

Blandina Valenzuela 12/20/95

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#

4361

Analyst:

BDV

Instrument: DSC01

Book #

—

Method: LA-514-113 Rev/Mod

—

Worklist Comment: Dry DSC for B-204. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	1 SAMPLE	S95T003281	0	DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000161	B-204	2 DUP	S95T003281	0	DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Final page for worklist #

4361

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.

Bulk Density Worksheet

Requestor: L. Susaki

Date: 11/1/98

Tank: B284
Core: 112
Seg: 2
Auger: NA

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar#: 7749A
Jar/Vial Size: 125 mL
Initial Weight: 167.1 g
Final Weight: g
Net Weight: g

Cone#: 7749A
Final Vol: 9.0 mL
Initial Weight: 7.7 g
Final Weight: 18.2 g
Net Weight: 10.5 g

Appearance/Narrative: _____

Bulk Den: 10.5/9.0 = 1.17 g/mL

Lab Core # 11/1/98 ABC
Entry SGT002917

Jar#: 7749B
Jar/Vial Size: 125 mL
Initial Weight: 167.1 g
Final Weight: g
Net Weight: g

Cone#: 7749B
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 19.2 g
Net Weight: 11.6 g

Appearance/Narrative: _____

Bulk Den: 11.6/10.0 = 1.16 g/mL

WHC-SD-WM-DP-160, REV. 1

Bulk Density Worksheet

Requestor: L. Sasaki

Date: 11-1-95

WHC-SD-WM-DP-160, REV. 1

Tank: B204
Core: 112
Seg: 3 LH
Auger: N4

Tank: B204
Core: 112
Seg: 3 LH
Auger: N4

Tank: B204
Core: 112
Seg: 3 LH
Auger: N4

Tank: B204
Core: 112
Seg: 3 LH
Auger: N4

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar# 8159 (UH)
Jar/Vial Size: 1 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Conc# 1 (A)
Final Vol: 14.0 mL
Initial Weight: 7.6 g
Final Weight: 24.25 g
Net Weight: 16.65 g

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar# 8159 (UH)
Jar/Vial Size: 1 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Conc# 2 (B)
Final Vol: 14.5 mL
Initial Weight: 7.6 g
Final Weight: 26.23 g
Net Weight: 17.53 g

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar# 8161 (LH)
Jar/Vial Size: 1 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Conc# 1 (A)
Final Vol: 11.0 mL
Initial Weight: 7.6 g
Final Weight: 21.03 g
Net Weight: 13.43 g

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar# 8161 (LH)
Jar/Vial Size: 1 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Conc# 2 (B)
Final Vol: 11.0 mL
Initial Weight: 7.6 g
Final Weight: 26.79 g
Net Weight: 13.19 g

Appearance/Narrative:

Bulk Den: 16.65/4
= 1.19 g/mL
Vol - Total 14 mL
Solids Vol - 9.5 mL
Liq Vol 3 1/2 mL
Yellow in color

Appearance/Narrative:

Bulk Den: 17.53/14.5
= 1.21 g/mL
Vol total = 14.5 mL
Solids Vol 10 mL
Liq Vol 1 mL
Color yellow

Appearance/Narrative:

Bulk Den: 13.43/11.0
= 1.22 g/mL
Vol total 11.0
Solids Vol 9.0 mL
Liq Vol 2.0 mL
Color yellow

Appearance/Narrative:

Bulk Den: 13.19/11.0
= 1.20
Vol total = 11.0 mL
Solids Vol = 9.0 mL
Liq Vol 2.0 mL
Color yellow

Bulk Density Worksheet

Requestor: L. SasakiDate: 1-1-95

Tank: B204
 Core: 112
 Seg: 404
 Auger: NH

Tank: B204
 Core: 112
 Seg: 404
 Auger: NH

Tank: B204
 Core: 112
 Seg: 414
 Auger: NH

Tank: B204
 Core: 112
 Seg: 414
 Auger: NH

Start Time: 11:45
 End Time: 11:45
 Homogenization Time (Min.): 595700299

Jar# 8166 (A)
 Jar/Vial Size: 100.0 mL
 Initial Weight: 7.6 g
 Final Weight: 23.8 g
 Net Weight: 16.2 g

Cone# 8166 (A)
 Final Vol: 13.5 mL
 Initial Weight: 7.6 g
 Final Weight: 23.8 g
 Net Weight: 16.2 g

Start Time: 11:45
 End Time: 11:45

Homogenization Time (Min.): 595700299

Jar# 8166 (B)
 Jar/Vial Size: 100.0 mL
 Initial Weight: 7.62 g
 Final Weight: 19.6 g
 Net Weight: 12.0 g

Cone# 8166 (B)
 Final Vol: 10 mL
 Initial Weight: 7.6 g
 Final Weight: 19.6 g
 Net Weight: 12.0 g

Start Time: 595700299
 End Time: 595700299

Homogenization Time (Min.): 595700299

Jar# 8165 (A)
 Jar/Vial Size: 100.0 mL
 Initial Weight: 7.6 g
 Final Weight: 19.1 g
 Net Weight: 11.5 g

Cone# 8165 (A)
 Final Vol: 10.0 mL
 Initial Weight: 7.6 g
 Final Weight: 19.1 g
 Net Weight: 11.5 g

Start Time: 595700299
 End Time: 595700299

Homogenization Time (Min.): 595700299

Jar# 8165 (B)
 Jar/Vial Size: 100.0 mL
 Initial Weight: 7.6 g
 Final Weight: 19.2 g
 Net Weight: 11.6 g

Cone# 8165 (B)
 Final Vol: 10.0 mL
 Initial Weight: 7.6 g
 Final Weight: 19.2 g
 Net Weight: 11.6 g

Appearance/Narrative:

Net Dev = $16.2 / 13.5 = 1.20$ g/mL
 (1.20 g/mL)
 * Approx. 2.5 mls of
 Liquid on Top

Appearance/Narrative:

Net Dev = $12.0 / 10.0 = 1.20$ g/mL
 (1.20 g/mL)
 * Approx. 2.5 mls of
 Liquid on Top

Appearance/Narrative:

Net Dev = $11.5 / 10.0 = 1.15$ g/mL
 (1.15 g/mL)
 * Approx. 2.5 mls of
 Liquid on Top

Appearance/Narrative:

Net Dev = $11.6 / 10.0 = 1.16$ g/mL
 (1.16 g/mL)
 * Approx. 2.5 mls of
 Liquid on Top

Bulk Density Worksheet

WHC-SD-WM-DP-160, REV.1

Requestor: < Sasak

Date: _____

Tank: B204
Core: 112
Seg: 5 U4
Auger: 114

Tank: B204
Core: 112
Seg: 5 U4
Auger: 114

Tank: B204
Core: 112
Seg: 5 U4
Auger: 114

Tank: B204
Core: 112
Seg: 5 U4
Auger: 114

Start Time: _____
End Time: 5:57:00
Homogenization Time (Min.): 93

Jar: 5168
Jar Vol Size: 4.0 mL
Initial Weight: 7.6 g
Final Weight: 18.3 g
Net Weight: 10.7 g

Conc: 8168
Final Vol: 4.0 mL
Initial Weight: 7.6 g
Final Weight: 18.3 g
Net Weight: 10.7 g

Start Time: _____
End Time: 5:16:5
Homogenization Time (Min.): 65

Jar: 5165
Jar Vol Size: 4.0 mL
Initial Weight: 7.6 g
Final Weight: 19.2 g
Net Weight: 11.6 g

Conc: 8168
Final Vol: 4.0 mL
Initial Weight: 7.6 g
Final Weight: 19.2 g
Net Weight: 11.6 g

Start Time: _____
End Time: 5:57:00
Homogenization Time (Min.): 94

Jar: 5167
Jar Vol Size: 4.0 mL
Initial Weight: 7.6 g
Final Weight: 19.9 g
Net Weight: 12.3 g

Conc: 8167
Final Vol: 4.0 mL
Initial Weight: 7.6 g
Final Weight: 19.9 g
Net Weight: 12.3 g

Start Time: _____
End Time: 5:57:00
Homogenization Time (Min.): 94

Jar: 5167
Jar Vol Size: 4.0 mL
Initial Weight: 7.6 g
Final Weight: 19.9 g
Net Weight: 12.3 g

Conc: 8167
Final Vol: 4.0 mL
Initial Weight: 7.6 g
Final Weight: 19.9 g
Net Weight: 12.3 g

Appearance/Narrative:

Appearance/Narrative:

Appearance/Narrative:

Appearance/Narrative:

300000 = $10.7 / 9.0 = 1.19 \text{ g/cc}$
0.5 L of Volume = 1.19
Liquid

300000 = $11.6 / 9.0 = 1.29 \text{ g/cc}$
0.5 L of Volume = 1.29
Liquid

300000 = $12.3 / 9.0 = 1.37 \text{ g/cc}$
0.5 L of Volume = 1.37
Liquid

300000 = $12.3 / 9.0 = 1.37 \text{ g/cc}$
0.5 L of Volume = 1.37
Liquid

Bulk Density Worksheet

Requestor: Lu Samkel

Tank: B204
Core: 112
Seg: 6 U4
Auger: N4

Tank: B204
Core: 112
Seg: 6 U4
Auger: N4

Tank: B204
Core: 112
Seg: 6 U4
Auger: N4

Date: 11-1-95

Tank: B204
Core: 112
Seg: 6 U4
Auger: N4

WHC-SD-WM-DR-160 REV.1

Start Time: _____
End Time: 5:57:00.295
Homogenization Time (Min.): _____

Lot: 5170 (A)
Jar/Vial Size: 5 mL
Initial Weight: 20.0 g
Final Weight: 7.6 g
Net Weight: 12.4 g

Conc: 5170 (A)
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 20.0 g
Net Weight: 12.4 g

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

Lot: 5170 (B)
Jar/Vial Size: 5 mL
Initial Weight: 20.0 g
Final Weight: 7.6 g
Net Weight: 12.4 g

Conc: 5170 (B)
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 20.0 g
Net Weight: 12.4 g

Start Time: _____
End Time: 5:57:00.296
Homogenization Time (Min.): _____

Lot: 5169 (A)
Jar/Vial Size: 5 mL
Initial Weight: 20.0 g
Final Weight: 7.6 g
Net Weight: 12.4 g

Conc: 5169 (A)
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 20.0 g
Net Weight: 12.4 g

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

Lot: 5169 (B)
Jar/Vial Size: 5 mL
Initial Weight: 20.0 g
Final Weight: 7.6 g
Net Weight: 12.4 g

Conc: 5169 (B)
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 20.0 g
Net Weight: 12.4 g

Appearance/Narrative:

Appearance/Narrative:

Appearance/Narrative:

Appearance/Narrative:

$Bulk\ Density = \frac{12.4}{10.0} = 1.24\ g/cc$
 $Bulk\ Density = \frac{12.2}{10.0} = 1.22\ g/cc$
 $Bulk\ Density = \frac{12.5}{10.0} = 1.25\ g/cc$
 $Bulk\ Density = \frac{13.7}{11.5} = 1.19\ g/cc$

Bulk Density Worksheet

Requestor: Lasak

Date: _____

WHC-SD-WM-DB 160, REV. 1

Tank: 1304
Core: 112
Seg: 7
Auger: 014

Tank: 1304
Core: 112
Seg: 7
Auger: 014

Tank: 1304
Core: 112
Seg: 7
Auger: 014

Tank: 1304
Core: 112
Seg: 7
Auger: 014

Start Time: _____
End Time: 5:57:00
Homogenization Time (Min.): 10
Jar/Vial Size: 10.0 mL
Initial Weight: 19.8 g
Final Weight: 12.2 g
Net Weight: 7.6 g

Start Time: _____
End Time: 8:17:22
Homogenization Time (Min.): 10
Jar/Vial Size: 10.0 mL
Initial Weight: 20.8 g
Final Weight: 13.2 g
Net Weight: 7.6 g

Start Time: _____
End Time: 8:17:58
Homogenization Time (Min.): 10
Jar/Vial Size: 10.0 mL
Initial Weight: 19.6 g
Final Weight: 12.0 g
Net Weight: 7.6 g

Start Time: _____
End Time: 8:17:58
Homogenization Time (Min.): 10
Jar/Vial Size: 10.0 mL
Initial Weight: 19.6 g
Final Weight: 12.0 g
Net Weight: 7.6 g

Conc'd: 8172
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 19.8 g
Net Weight: 12.2 g

Conc'd: 8172
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 20.8 g
Net Weight: 13.2 g

Conc'd: 8175
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 19.6 g
Net Weight: 12.0 g

Conc'd: 8175
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 19.6 g
Net Weight: 12.0 g

Appearance/Narrative:
BIR/Den = 12.2/100
1.22 g/mL

Appearance/Narrative:
BIR/Den = 13.2/100
1.32 g/mL

Appearance/Narrative:
BIR/Den = 12.0/100
1.20 g/mL

Appearance/Narrative:
BIR/Den = 12.0/100
1.20 g/mL

Bulk Density Worksheet

Requestor: L. S. S. S.Date: 11-6-95

Tank: B-204
 Core: 112
 Seg: 8
 Auger: NA

Tank: B-204
 Core: 112
 Seg: 8
 Auger: NA

Tank: B-204
 Core: 112
 Seg: 8
 Auger: NA

Tank: B-204
 Core: 112
 Seg: 8
 Auger: NA

Tank: B-204
 Core: 112
 Seg: 8
 Auger: NA

Start Time: _____
 End Time: 5:57:00
 Homogenization Time (Min.): _____

Jar/Vial Size: 1 mL
 Initial Weight: 1.7 g
 Final Weight: 1.7 g
 Net Weight: 0 g

Conc: 8227
 Final Vol: 12.0 mL
 Initial Weight: 5.7 g
 Final Weight: 22.4 g
 Net Weight: 14.7 g

Start Time: _____
 End Time: _____

Homogenization Time (Min.): _____

Jar/Vial Size: 1 mL
 Initial Weight: 1.7 g
 Final Weight: 1.7 g
 Net Weight: 0 g

Conc: 8227
 Final Vol: 10.5 mL
 Initial Weight: 1.7 g
 Final Weight: 20.8 g
 Net Weight: 13.1 g

Start Time: _____
 End Time: _____

Homogenization Time (Min.): _____

Jar/Vial Size: 1 mL
 Initial Weight: 1.7 g
 Final Weight: 1.7 g
 Net Weight: 0 g

Conc: 8228
 Final Vol: 15.0 mL
 Initial Weight: 1.7 g
 Final Weight: 28.9 g
 Net Weight: 15.1 g

Start Time: _____
 End Time: _____

Homogenization Time (Min.): _____

Jar/Vial Size: 1 mL
 Initial Weight: 1.7 g
 Final Weight: 1.7 g
 Net Weight: 0 g

Conc: 8228
 Final Vol: 10.5 mL
 Initial Weight: 1.7 g
 Final Weight: 20.2 g
 Net Weight: 12.6 g

Appearance/Narrative:

Appearance/Narrative:

Appearance/Narrative:

Appearance/Narrative:

Bulk Density = $\frac{14.7}{12.0} = 1.23 \text{ g/mL}$ Bulk Density = $\frac{13.1}{10.5} = 1.25 \text{ g/mL}$ Bulk Density = $\frac{15.1}{15.0} = 1.01 \text{ g/mL}$ Bulk Density = $\frac{12.6}{10.5} = 1.20 \text{ g/mL}$

Approx 1 mL of Liquid

Sealed and stored in container

Approx 2 mL of Liquid

Approx 1 mL of Liquid

Sealed and stored in container

Bulk Density Worksheet

Requestor: L. Sasaki

Date: _____

WHC-SD-WM-DP-160, REV. 1

Tank: B264
 Core: 112
 Seg: 9
 Auger: 1064

Start Time: _____
 End Time: _____

Homogenization
 Time (Min.): _____

Lot: 8224 (A)
 Jar/Vial Size: 250 mL
 Initial Weight: 42.2 g
 Final Weight: 38.5 g
 Net Weight: 21.5 g

Conc: 8224 (A)
 Final Vol: 16.0 mL
 Initial Weight: 7.6 g
 Final Weight: 19.53 g
 Net Weight: 11.93 g

Appearance/Narrative:

Bulk Den = 11.93/16= 1.19 g/mL

Tank: B264
 Core: 112
 Seg: 9
 Auger: 1064

Start Time: _____
 End Time: _____

Homogenization
 Time (Min.): _____

Lot: 8224 (B)
 Jar/Vial Size: 250 mL
 Initial Weight: 32.2 g
 Final Weight: 29.8 g
 Net Weight: 22.0 g

Conc: 8224 (B)
 Final Vol: 8.5 mL
 Initial Weight: 7.6 g
 Final Weight: 17.73 g
 Net Weight: 10.13 g

Appearance/Narrative:

Bulk Den = 10.13/8.5= 1.19 g/mL

Tank: B264
 Core: 112
 Seg: 9
 Auger: 1064

Start Time: _____
 End Time: _____

Homogenization
 Time (Min.): _____

Lot: 8225 (A)
 Jar/Vial Size: 250 mL
 Initial Weight: 33.0 g
 Final Weight: 73.8 g
 Net Weight: 19.2 g

Conc: 8225 (A)
 Final Vol: 9 mL
 Initial Weight: 7.6 g
 Final Weight: 13.4 g
 Net Weight: 10.8 g

Appearance/Narrative:

Bulk Den = 10.8/9= 1.20 g/mL

Tank: B264
 Core: 112
 Seg: 9
 Auger: 1064

Start Time: _____
 End Time: _____

Homogenization
 Time (Min.): _____

Lot: 8225 (B)
 Jar/Vial Size: 250 mL
 Initial Weight: 29.7 g
 Final Weight: 27.4 g
 Net Weight: 22.3 g

Conc: 8225 (B)
 Final Vol: _____ mL
 Initial Weight: 7.7 g
 Final Weight: 20.3 g
 Net Weight: 12.6 g

Appearance/Narrative:

Bulk Den = 12.6/10.5= 1.20 g/mL

Bulk Density Worksheet

Requestor: L. Sasak

Date: 11/9/95

Tank: B204
Core: 112
Seg: 10
Auger: N/A

Tank: B204
Core: 112
Seg: 10
Auger: N/A

Tank: B204
Core: 112
Seg: 10
Auger: N/A

Tank: B204
Core: 112
Seg: 10
Auger: N/A

WHC-SD-WM-DP-160, REV 15

Start Time: _____
End Time: 5957003003
Homogenization Time (Min.): _____
Jarff: 822604
Jar/Vial Size: 250 mL
Initial Weight: 27.7 g
Final Weight: 27.7 g
Net Weight: 20.2 g

Conck: 822604
Final Vol: 9.5 mL
Initial Weight: 2.6 g
Final Weight: 19.7 g
Net Weight: 12.1 g

Start Time: _____
End Time: _____
Homogenization Time (Min.): _____
Jarff: 822604
Jar/Vial Size: 250 mL
Initial Weight: 32.9 g
Final Weight: 29.7.6 g
Net Weight: 30.3 g

Conck: 822604
Final Vol: 15 mL
Initial Weight: 2.7 g
Final Weight: 26.9 g
Net Weight: 19.2 g

Start Time: _____
End Time: 5957003004
Homogenization Time (Min.): _____
Jarff: 822924
Jar/Vial Size: 250 mL
Initial Weight: 32.9 g
Final Weight: 17.4 g
Net Weight: 9.7 g

Conck: 822924
Final Vol: 8.0 mL
Initial Weight: 7.7 g
Final Weight: 17.4 g
Net Weight: 9.7 g

Start Time: _____
End Time: _____
Homogenization Time (Min.): _____
Jarff: 822924
Jar/Vial Size: 250 mL
Initial Weight: 9.7 g
Final Weight: 17.3 g
Net Weight: 9.7 g

Conck: 822924
Final Vol: 8.0 mL
Initial Weight: 7.6 g
Final Weight: 17.3 g
Net Weight: 9.7 g

Appearance/Narrative: Bulk Density

12.1 g
12.1 g
12.1 g

Appearance/Narrative: Bulk Density

19.2/15.1 = 1.28 g/mL

Appearance/Narrative: Bulk Density

9.7/8.0 = 1.21 g/mL

Appearance/Narrative: Bulk Density

9.7/8.0 = 1.21 g/mL

Bulk Density Worksheet

Requestor: LC Sasak

Date: 11-9-95

Tank: B204
Core: 112
Seg: 11
Auger: NA

Tank: B204
Core: 112
Seg: 11
Auger: NA

Tank: B204
Core: 112
Seg: 11
Auger: NA

Tank: B204
Core: 112
Seg: 11
Auger: NA

Start Time: LC
End Time: 5:57:00 3005
Homogenization Time (Min.): (A)
Jar#: 8233 (64)
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Cone#: 8233A
Final Vol: 9.5 mL
Initial Weight: 7.6 g
Final Weight: 19.5 g
Net Weight: 11.9 g

Appearance/Narrative: 11.9/1.25

Start Time: LC
End Time: 5:57:00 3005
Homogenization Time (Min.): (B)
Jar#: 8233 (64)
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Cone#: 8233B
Final Vol: 7.8 mL
Initial Weight: 7.5 g
Final Weight: 18.3 g
Net Weight: 10.8 g

Appearance/Narrative: 10.8/1.20

Start Time: LC
End Time: 5:57:00 3006
Homogenization Time (Min.): (A)
Jar#: 8232 (44)
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Cone#: 8232(A)
Final Vol: 5 mL
Initial Weight: 7.7 g
Final Weight: 13.4 g
Net Weight: 5.7 g

Appearance/Narrative: 5.7/5 = 1.14

Start Time: LC
End Time: 5:57:00 3006
Homogenization Time (Min.): (B)
Jar#: 8232 (44)
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Cone#: 8232(B)
Final Vol: mL
Initial Weight: 7.6 g
Final Weight: 17.3 g
Net Weight: 9.7 g

Appearance/Narrative: 9.7/8.8 = 1.11

WHC-SD-WM-DP-160

WHC-SD-WM-DP-160, REV. 1

Bulk Density Worksheet

Requestor: C. SASAKI

Date: 11-9-95

Tank: B204
Core: 112
Seg: 12
Auger: NA

Tank: B204
Core: 112
Seg: 12
Auger: NA

Tank: B204
Core: 112
Seg: 12
Auger: NA

Tank: B204
Core: 112
Seg: 12
Auger: NA

Start Time: 11:10
End Time: 11:10

Homogenization Time (Min.): 5957003007 (A)

Jar/Vial Size: 8235 (UH) mL

Initial Weight: g

Final Weight: g

Net Weight: g

Conc'd: 8235 (A)

Final Vol: 8.5 mL

Initial Weight: 7.6 g

Final Weight: 17.2 g

Net Weight: 11.6 g

Appearance/Narrative:

BIK Des = 11.6/8.5 =

1.36 g/mL

Start Time: 11:10
End Time: 11:10

Homogenization Time (Min.):

Jar/Vial Size: 8235 (UH) mL

Initial Weight: g

Final Weight: g

Net Weight: g

Conc'd: 8235 (B)

Final Vol: 8.0 mL

Initial Weight: 7.6 g

Final Weight: 18.2 g

Net Weight: 10.6 g

Appearance/Narrative:

BIK Des = 10.6/8.0 =

1.32 g/mL

Start Time: 11:10
End Time: 11:10

Homogenization Time (Min.): 5957003003

Jar/Vial Size: 8234 (UH) mL

Initial Weight: g

Final Weight: g

Net Weight: g

Conc'd: 8234 (A)

Final Vol: 8.0 mL

Initial Weight: 7.6 g

Final Weight: 17.5 g

Net Weight: 9.9 g

Appearance/Narrative:

BIK Des = 9.9/8.0 =

1.23 g/mL

Start Time: 11:10
End Time: 11:10

Homogenization Time (Min.):

Jar/Vial Size: 8234 (UH) mL

Initial Weight: g

Final Weight: g

Net Weight: g

Conc'd: 8234 (B)

Final Vol: 10 mL

Initial Weight: 7.5 g

Final Weight: 20.0 g

Net Weight: 12.5 g

Appearance/Narrative:

BIK Des = 12.5/10.0 =

1.25 g/mL

Bulk Density Worksheet

Requestor: L. Sasak

Date: 11-9-95

Tank: B204
Core: 112
Seg: 13
Auger: N4

Tank: B204
Core: 112
Seg: 13
Auger: N4

Tank: B204
Core: 112
Seg: 13
Auger: N4

Tank: B204
Core: 112
Seg: 13
Auger: N4

Start Time: 11:09
End Time: 11:19
Homogenization Time (Min.): 10
Jar#: 8239(A)
Jar/Vial Size: 10 mL
Initial Weight: 15 g
Final Weight: 18.5 g
Net Weight: 3.5 g

Cone#: 8239(A)
Final Vol: 10 mL
Initial Weight: 15 g
Final Weight: 18.5 g
Net Weight: 3.5 g

Appearance/Narrative:

Bulk Density = 10/3.5
= 1.27 g/mL

Start Time: 11:19
End Time: 11:29
Homogenization Time (Min.): 10
Jar#: 8239(B)
Jar/Vial Size: 10 mL
Initial Weight: 15 g
Final Weight: 21.6 g
Net Weight: 6.6 g

Cone#: 8239(B)
Final Vol: 11 mL
Initial Weight: 15 g
Final Weight: 21.6 g
Net Weight: 6.6 g

Appearance/Narrative:

Bulk Density = 11/6.6
= 1.26 g/mL

Start Time: 11:29
End Time: 11:39
Homogenization Time (Min.): 10
Jar#: 8237(A)
Jar/Vial Size: 10 mL
Initial Weight: 15 g
Final Weight: 18.9 g
Net Weight: 3.9 g

Cone#: 8237(A)
Final Vol: 10 mL
Initial Weight: 15 g
Final Weight: 18.9 g
Net Weight: 3.9 g

Appearance/Narrative:

Bulk Density = 11.3/9
= 1.26 g/mL

Start Time: 11:39
End Time: 11:49
Homogenization Time (Min.): 10
Jar#: 8237(B)
Jar/Vial Size: 10 mL
Initial Weight: 15 g
Final Weight: 20.5 g
Net Weight: 5.5 g

Cone#: 8237(B)
Final Vol: 10 mL
Initial Weight: 15 g
Final Weight: 20.5 g
Net Weight: 5.5 g

Appearance/Narrative:

Bulk Density = 12.8/10
= 1.28 g/mL

Bulk Density Worksheet

WHC-SD-WM-DP-160, REV. 1

Requestor: L. Sasak

Date: 11-9-95

Tank: B204
Core: 112
Seg: 14
Auger: N/A

Tank: B204
Core: 112
Seg: 14
Auger: N/A

Tank: B204
Core: 112
Seg: 14
Auger: N/A

Tank: B204
Core: 112
Seg: 14
Auger: N/A

LC 11-9-95
Start Time: 8:57
End Time: 10:30

Homogenization Time (Min.): (A)
Jar# 8231(VH)
Jar/Vial Size: Conc mL
Initial Weight: 7.6 g
Final Weight: 19.5 g
Net Weight: 11.9 g

Cone# 10 mL
Final Vol: 10 mL
Initial Weight: 19.5 g
Final Weight: 19.5 g
Net Weight: 0 g

Appearance/Narrative: 11.9/10 = 1.19

Homogenization Time (Min.): (B)
Jar# 8231(VH)
Jar/Vial Size: Conc mL
Initial Weight: 7.6 g
Final Weight: 21.8 g
Net Weight: 14.2 g

Cone# 12 mL
Final Vol: 12 mL
Initial Weight: 21.8 g
Final Weight: 21.8 g
Net Weight: 0 g

Appearance/Narrative: 14.2/12 = 1.18

Homogenization Time (Min.): (A)
Jar# 8230(2H)
Jar/Vial Size: Conc mL
Initial Weight: 7.5 g
Final Weight: 18.5 g
Net Weight: 11.0 g

Cone# 8230(A)
Final Vol: 8 mL
Initial Weight: 7.5 g
Final Weight: 18.5 g
Net Weight: 11.0 g

Appearance/Narrative: 11.0/8 = 1.38

Homogenization Time (Min.): (B)
Jar# 8230(2H)
Jar/Vial Size: Conc mL
Initial Weight: 7.6 g
Final Weight: 18.6 g
Net Weight: 11.0 g

Cone# 8230(B)
Final Vol: 8 mL
Initial Weight: 7.6 g
Final Weight: 18.6 g
Net Weight: 11.0 g

Appearance/Narrative: 11.0/8 = 1.38

Bulk Density Worksheet

Requestor: _____

Tank: B-204
 Core: 114
 Seg: 2 LH
 Auger: _____

Tank: B-204
 Core: 114
 Seg: 2 LH
 Auger: _____

Tank: B-204
 Core: 114
 Seg: 2 LH
 Auger: _____

Tank: B-204
 Core: 114
 Seg: 2 LH
 Auger: _____

Date: 11/9/95

WHC-SD-WM-DP-160, REV. 1

Start Time: _____
 End Time: _____
 Homogenization Time (Min.): _____
 Jar# 8247
 Jar/Vial Size: _____ mL
 Initial Weight: _____ g
 Final Weight: _____ g
 Net Weight: _____ g

Core# 8247-1
 Final Vol: 12.5 mL
 Initial Weight: 7.6 g
 Final Weight: 22.6 g
 Net Weight: 15 g

Start Time: _____
 End Time: _____
 Homogenization Time (Min.): _____
 Jar# 8247
 Jar/Vial Size: _____ mL
 Initial Weight: _____ g
 Final Weight: _____ g
 Net Weight: _____ g

Core# 8247-2
 Final Vol: 12.5 mL
 Initial Weight: 7.6 g
 Final Weight: 22.5 g
 Net Weight: 14.6 g

Start Time: _____
 End Time: _____
 Homogenization Time (Min.): _____
 Jar# 8246
 Jar/Vial Size: _____ mL
 Initial Weight: _____ g
 Final Weight: _____ g
 Net Weight: _____ g

Core# 8246
 Final Vol: 14.0 mL
 Initial Weight: 7.6 g
 Final Weight: 23.7 g
 Net Weight: 16.1 g

Start Time: _____
 End Time: _____
 Homogenization Time (Min.): _____
 Jar# 8246
 Jar/Vial Size: _____ mL
 Initial Weight: _____ g
 Final Weight: _____ g
 Net Weight: _____ g

Core# 8246
 Final Vol: 11.5 mL
 Initial Weight: 7.6 g
 Final Weight: 21.0 g
 Net Weight: 13.4 g

Appearance/Narrative: _____

BD = $\frac{15.25}{12.5} = 1.28 \text{ g/mL}$
8.5 mls Solids
7.5 mls Liquid
4.6

Appearance/Narrative: _____

BD = $\frac{14.6}{12.5} = 1.17 \text{ g/mL}$
8.5 mls Solids
4.6 mls Liquid

Appearance/Narrative: _____

BD = $\frac{16.1}{14} = 1.15 \text{ g/mL}$

Appearance/Narrative: _____

BD = $\frac{13.4}{11.5} = 1.17 \text{ g/mL}$

Bulk Density Worksheet

Requestor: L. S. S. 11

Date: 11-9-95

Tank: 8204
Core: 114
Seg: 3 LH
Auger: -

Tank: 8204
Core: 114
Seg: 3 LH dup
Auger: -

Tank: 8204
Core: 114
Seg: 3 LH
Auger: -

Tank: 8204
Core: 114
Seg: 3 LH dup
Auger: -

Start Time: 5:57:20
End Time: 3:20:5
Homogenization Time (Min.): 1
Jars: 8240 ①
Jar/Vial Size: 5 mL
Initial Weight: 25.3 g
Final Weight: 15.7 g
Net Weight: 9.6 g

Core: 8240-1
Final Vol: 13.5 mL
Initial Weight: 7.6 g
Final Weight: 25.3 g
Net Weight: 15.7 g

Start Time: 5:57:20
End Time: 3:20:5
Homogenization Time (Min.): 1
Jars: 8240 ②
Jar/Vial Size: 5 mL
Initial Weight: 25.3 g
Final Weight: 15.7 g
Net Weight: 9.6 g

Core: 8240-2
Final Vol: 14.0 mL
Initial Weight: 7.6 g
Final Weight: 23.9 g
Net Weight: 16.3 g

Start Time: 5:57:20
End Time: 3:20:5
Homogenization Time (Min.): 1
Jars: 8380 ①
Jar/Vial Size: 5 mL
Initial Weight: 25.3 g
Final Weight: 15.7 g
Net Weight: 9.6 g

Core: 8380-1
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 19.1 g
Net Weight: 11.5 g

Start Time: 5:57:20
End Time: 3:20:5
Homogenization Time (Min.): 1
Jars: 8380 ②
Jar/Vial Size: 5 mL
Initial Weight: 25.3 g
Final Weight: 15.7 g
Net Weight: 9.6 g

Core: 8380-2
Final Vol: 11.0 mL
Initial Weight: 7.6 g
Final Weight: 26.7 g
Net Weight: 13.1 g

Appearance/Narrative: Bulk Density

15.7/13.5 = 1.16 g/mL

Appearance/Narrative: Bulk Density

16.3/14.0 = 1.16 g/mL

Appearance/Narrative: Bulk Density

11.5/10.0 = 1.15 g/mL

Appearance/Narrative: Bulk Density

13.1/11.0 = 1.19 g/mL

Bulk Density Worksheet

Requestor: L. Sak

Date: 11-9-95

Tank: B-204
Core: 114
Seg: 4
Auger: NA

Tank: B-204
Core: 114
Seg: 4
Auger: NA

Tank: B-204
Core: 114
Seg: 4
Auger: NA

Tank: B-204
Core: 114
Seg: 4
Auger: NA

Start Time: 7:00
End Time: 11:00
Homogenization Time (Min.): 557003207
Jar # 8383 (LH)
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc# 8383 (LH)
Final Vol: 10.0 mL
Initial Weight: 7.6 g
Final Weight: 17.1 g
Net Weight: 11.5 g

Appearance/Narrative:

BK Den = 11.5/10.0 =
1.15 g/mL

Start Time: 7:00
End Time: 11:00
Homogenization Time (Min.):
Jar # 8383 (LH)
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc# 8383 (LH)
Final Vol: 11.0 mL
Initial Weight: 7.5 g
Final Weight: 20.6 g
Net Weight: 13.1 g

Appearance/Narrative:

BK Den = 13.1/11.0 =
1.19 g/mL

Start Time: 7:00
End Time: 11:00
Homogenization Time (Min.): 557003206
Jar # 8382 (LH)
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc# 8382 (LH)
Final Vol: 12 mL
Initial Weight: 7.6 g
Final Weight: 21.4 g
Net Weight: 13.8 g

Appearance/Narrative:

BK Den = 13.8/12.0 =
1.15 g/mL

Conc# 8382 (LH)
Final Vol: 12 mL
Initial Weight: 7.6 g
Final Weight: 21.4 g
Net Weight: 13.8 g

Appearance/Narrative:

BK Den = 13.8/12.0 =
1.15 g/mL

Bulk Density Worksheet

Requestor: L. Sack

Date: 11-14-95

Tank: B-204
Core: 114
Seg: 5 L
Auger: NA

Tank: B-204
Core: 114
Seg: 5 L
Auger: NA

Tank: B-204
Core: 114
Seg: 5 L
Auger: NA

Start Time: 7:45
End Time: 7:53

Homogenization

Time (Min.): 10
Jar: 8244
Jar/Vial Size: 250 mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc# 8244 A
Final Vol: 9.5 mL
Initial Weight: 7.6 g
Final Weight: 9.0 g
Net Weight: 1.4 g

9 ml Solids
.5 ml liquid

Appearance/Narrative: Dep.

9.5 / 1.4 = 1.20

Start Time: 8:20
End Time: 8:30

Homogenization

Time (Min.): 10
Jar: 8244
Jar/Vial Size: 250 mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc# 8244 B
Final Vol: 10 mL
Initial Weight: 7.6 g
Final Weight: 8.8 g
Net Weight: 1.2 g

Appearance/Narrative: Dep.

10 / 1.2 = 1.12

Start Time: 8:15
End Time: 8:30

Homogenization

Time (Min.): 15
Jar: 8245
Jar/Vial Size: 250 mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc# 8245 A
Final Vol: 9.5 mL
Initial Weight: 7.6 g
Final Weight: 19.0 g
Net Weight: 11.4 g

9 ml Solids
.5 ml liquid

Appearance/Narrative: Dep.

9.5 / 11.4 = 1.20

Start Time: 8:35
End Time: 8:52

Homogenization

Time (Min.): 15
Jar: 8245
Jar/Vial Size: 250 mL
Initial Weight: g
Final Weight: g
Net Weight: g

Conc# 8245 B
Final Vol: 10 mL
Initial Weight: 7.6 g
Final Weight: 19.2 g
Net Weight: 11.6 g

Appearance/Narrative: Dep.

10 / 11.6 = 1.16

Bulk Density Worksheet

WHC-SD-WM-DP-160, REV. 1

Requestor: L. Sassek

lower

Tank: B-204
Core: 114
Seg: 6 V
Auger: NA

Tank: B-204
Core: 114
Seg: 6 V
Auger: NA

upper

Tank: B-204
Core: 114
Seg: 6 V
Auger: NA

Date: 11/14/95

Tank: B-204
Core: 114
Seg: 6 V
Auger: NA

Start Time: _____
End Time: _____

Homogenization Time (Min.): 595700 3211

Jar#: 8242
Jar/Vial Size: 6 mL
Initial Weight: 3.8 g
Final Weight: 20.1 g
Net Weight: 12.5 g

Conc'd: 8242(A)
Final Vol: 10.5 mL
Initial Weight: 7.6 g
Final Weight: 20.1 g
Net Weight: 12.5 g

5 liquid

Appearance/Narrative: Bulk Density

10.5 / 12.5 = 1.19

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

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

Conc'd: 8242(B)
Final Vol: 10.5 mL
Initial Weight: 7.6 g
Final Weight: 19.1 g
Net Weight: 11.5 g

5 liquid

Appearance/Narrative: Slip

10.5 / 11.5 = 1.09

Start Time: _____
End Time: _____

Homogenization Time (Min.): 595700 3210

Jar#: 8243
Jar/Vial Size: _____ mL
Initial Weight: 3.8 g
Final Weight: 19.4 g
Net Weight: 11.8 g

Conc'd: 8243(A)
Final Vol: 10.5 mL
Initial Weight: 7.6 g
Final Weight: 19.4 g
Net Weight: 11.8 g

Appearance/Narrative: _____

10.5 / 11.8 = 1.12

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar#: _____
Jar/Vial Size: _____ mL
Initial Weight: 3.8 g
Final Weight: 20.1 g
Net Weight: 12.4 g

Conc'd: 8243(B)
Final Vol: 10 mL
Initial Weight: 7.7 g
Final Weight: 20.1 g
Net Weight: 12.4 g

Appearance/Narrative: Slip

10.5 / 12.4 = 1.24

Bulk Density Worksheet

Requestor: _____

Date: 11/13/95

Lower Half Solids

Tank: B-204
Core: 114
Seg: 7
Auger: NA

Tank: B-204
Core: 114
Seg: 7
Auger: NA

Start Time: 8:55
End Time: 9:10

Homogenization Time (Min.): 15

Lot: 8457
Jar/Vial Size: 250 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Conc: 8457(14)
Final Vol: 9.10 mL
Initial Weight: 7.6 g
Final Weight: 18.2 g
Net Weight: 10.6 g

upper Half Solids

Start Time: 9:12
End Time: 9:15

Homogenization Time (Min.): 14

Lot: 8457
Jar/Vial Size: 250 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Conc: 8457(18)
Final Vol: 10.5 mL
Initial Weight: 7.6 g
Final Weight: 18.7 g
Net Weight: 11.1 g

Lower Half

Start Time: 10:30
End Time: 10:30

Homogenization Time (Min.): 10

Lot: 8458
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Conc: 8458(A)
Final Vol: 9.0 mL
Initial Weight: 7.6 g
Final Weight: 18.3 g
Net Weight: 10.7 g

Lower Half

Start Time: 10:35
End Time: 10:45

Homogenization Time (Min.): 10

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

Conc: 8458(B)
Final Vol: 10.5 mL
Initial Weight: 7.6 g
Final Weight: 19.7 g
Net Weight: 12.1 g

Appearance/Narrative: _____

Bulk Density: 10.0

2.06 g/mL

9/10.6 g = 1.05 g/mL

Appearance/Narrative: _____

Bulk Density: 10.7/2.0

1.18 g/mL

Appearance/Narrative: _____

Bulk Density: 12.1/10.5

1.15 g/mL

Bulk Density Worksheet

Requestor: _____

WHC-SD-WM-DP-160, REV. 1

Date: 11/9/95

Tank: B-204
Core: 114
Seg: 8 LH
Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

Jar#: 8381
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Cone#: 8381(1)
Final Vol: 14.5 mL
Initial Weight: 7.6 g
Final Weight: 24.9 g
Net Weight: 17.3 g

5951003214

Tank: B-204
Core: 114
Seg: 8 VH dup
Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

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

Cone#: 8381(2)
Final Vol: 13.0 mL
Initial Weight: 7.6 g
Final Weight: 22.7 g
Net Weight: 15.1 g

L.C. Entry 11/10/95
NSC

Tank: B-204
Core: 114
Seg: 8 LH
Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

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

Cone#: 8379(1)
Final Vol: 14.5 mL
Initial Weight: 7.6 g
Final Weight: 24.7 g
Net Weight: 17.1 g

5957003215

Tank: B-204
Core: 114
Seg: 8 LH dup
Auger: _____

Start Time: _____
End Time: _____

Homogenization
Time (Min.): _____

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

Cone#: 8379(2)
Final Vol: 13.5 mL
Initial Weight: 7.6 g
Final Weight: 23.4 g
Net Weight: 15.8 g

Appearance/Narrative: _____

Blk Den = 173/44
= 1.199 g/ml

Appearance/Narrative: _____

Blk Den = 15.5/13.0
= 1.16 g/ml

Appearance/Narrative: _____

Blk Den 17.1/14.5
= 1.18 g/ml

Appearance/Narrative: _____

Blk Den 15.8/14.5
= 1.07 g/ml

Post-it "b" and fax transmittal memo 7671 # of pages 3

To	From
Lee A. Sanki	Lee A. Sanki
Co.	Co.
Dept.	Dept.
Fax # 3-6555	Phone # 3-1432

Requestor: _____

Tank: 6204 0/4
Core: 114
Seg: 9
Auger: WA

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

Tank: 5204 4/4
Core: 114
Seg: 9
Auger: WA

reet

Date: 11-10-25

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

Start Time: _____
End Time: _____
Homogenization Time (Min.): _____
Jar # 8459 (A)
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Core # 8459 (A)
Final Vol: 8.5 mL
Initial Weight: 7.5 g
Final Weight: 17.6 g
Net Weight: 10.1 g

Start Time: _____
End Time: _____
Homogenization Time (Min.): _____
Jar # _____
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Core # 8459 (B)
Final Vol: 6.0 mL
Initial Weight: 7.7 g
Final Weight: 14.7 g
Net Weight: 7.0 g

Start Time: _____
End Time: _____
Homogenization Time (Min.): _____
Jar # 8460 (L)
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Core # 8460 (A)
Final Vol: 10.5 mL
Initial Weight: 7.6 g
Final Weight: 20.0 g
Net Weight: 12.4 g

Start Time: _____
End Time: _____
Homogenization Time (Min.): _____
Jar # _____
Jar/Vial Size: _____ mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Core # 8460 (B)
Final Vol: 10.0 mL
Initial Weight: 7.7 g
Final Weight: 19.2 g
Net Weight: 11.5 g

Appearance/Narrative: _____

BK Dev = 10.1/8.5 = 1.18 g/mL

1.18 g/mL

Appearance/Narrative: _____

BK Dev = 7.0/6.0 = 1.16 g/mL

1.16 g/mL

Appearance/Narrative: _____

BK Dev = 12.4/10.5 = 1.18 g/mL

1.18 g/mL

Appearance/Narrative: _____

BK Dev = 11.5/10.0 = 1.15 g/mL

1.15 g/mL

BK Dev = 12.4/10.5 =

Bulk Density Worksheet

Requestor: L. SASAKI

Tank: B-264
Core: 114
Seg: 10 UH
Auger: —

Tank: B-204
Core: 114
Seg: 10 UH clup
Auger: —

Tank: B-204
Core: 114
Seg: 10 LH
Auger: —

Date: 11/17/85
Tank: —
Core: —
Seg: LH dup
Auger: —

WHC-SD-WM-DP-160, REV. 1

Start Time: —
End Time: —
Homogenization Time (Min.): —
Jar#: 8384
Jar/Vial Size: — mL
Initial Weight: — g
Final Weight: — g
Net Weight: — g
595700328

ph. 8384
Conc#: 8462(A)
Final Vol: 11.0 mL
Initial Weight: 7.59 g
Final Weight: 20.32 g
Net Weight: 12.73 g

ph. 8384
Conc#: 8462(B)
Final Vol: 11.0 mL
Initial Weight: 7.45 g
Final Weight: 20.45 g
Net Weight: 12.80 g

ph. 8462
Conc#: 8462(A)
Final Vol: 12.5 mL
Initial Weight: 7.73 g
Final Weight: 22.45 g
Net Weight: 14.72 g

ph. 8462
Conc#: 8462(B)
Final Vol: 11.0 mL
Initial Weight: 7.62 g
Final Weight: 20.34 g
Net Weight: 12.72 g

W. S. SAKI

W. S. SAKI

W. S. SAKI

W. S. SAKI

Appearance/Narrative: SD = 12.13/11 (-115) ml
One A = 2 ml of water + 9 ml of solids
B = 2 ml of water + 9 ml of solids

Appearance/Narrative: SD = 12.80/11 (-115) ml
One A = 2 ml of water + 9 ml of solids
B = 2 ml of water + 9 ml of solids

Appearance/Narrative: A' = 14.72/12.5
= 1.18 g/ml

Appearance/Narrative: B' = 12.72/11.0
= 1.16 g/ml

Bulk Density Worksheet

Requestor: L. Sarmiento

Date: 11-17-95

Tank: 8204
Core: 114
Seg: 11
Auger: DA

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

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

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

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar# 8465
Jar/Vial Size 250 mL
Initial Weight 581.3 g
Final Weight 577.1 g
Net Weight 124.2 g

5557003220
Conc# 8465 (A)
Final Vol: 8.5 mL
Initial Weight 7.64 g
Final Weight 17.34 g
Net Weight 9.70 g

Appearance/Narrative: _____

BD = #A 1.5 liquid enclosed

7 ul solids

1.85 = 1.14

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

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

Conc# 8465 (B)
Final Vol: 12 mL
Initial Weight 7.67 g
Final Weight 21.34 g
Net Weight 13.65 g

Appearance/Narrative: _____

(#B) 5 ul liquid

11 ul solids

13.65 / 12 = 1.18

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar# 8466
Jar/Vial Size 250 mL
Initial Weight 575.3 g
Final Weight _____ g
Net Weight _____ g

5557003221
Conc# 8466 (A)
Final Vol: 10.5 mL
Initial Weight 7.64 g
Final Weight 19.83 g
Net Weight 12.24 g

Appearance/Narrative: _____

(#A)

12.24 / 10.5 = 1.17

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

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

Conc# 8466 (B)
Final Vol: 11.5 mL
Initial Weight 7.64 g
Final Weight 21.09 g
Net Weight 13.45 g

Appearance/Narrative: _____

(#B)

13.45 / 11.5 = 1.17

lower half

upper half

Bulk Density Worksheet

Requestor: L. S. Smith

Date: 11-20-95

Tank: B204
Core: 114
Seg: 12 (u)
Auger: —

Tank: B204
Core: 114
Seg: 12 (u)
Auger: —

Tank: B204
Core: 114
Seg: 12 (u)
Auger: —

Tank: B204
Core: 114
Seg: 12 (u)
Auger: —

Start Time: —
End Time: —

Homogenization Time (Min.): —

Jar # 8463
Jar/Vial Size: — mL
Initial Weight: — g
Final Weight: — g
Net Weight: — g

595703222

Cone # 8463
Final Vol: — mL
Initial Weight: 7.56 g
Final Weight: 18.05 g
Net Weight: 10.49 g

Appearance/Narrative: Bulk Density

10.49 / 8.66 = 1.19

Start Time: —
End Time: —

Homogenization Time (Min.): —

Jar # 8463
Jar/Vial Size: — mL
Initial Weight: — g
Final Weight: — g
Net Weight: — g

8463

Cone # 8463
Final Vol: — mL
Initial Weight: 7.70 g
Final Weight: 19.04 g
Net Weight: 11.34 g

Appearance/Narrative: Bulk Density

11.34 / 9.5 = 1.19

Start Time: —
End Time: —

Homogenization Time (Min.): —

Jar # 8461 A
Jar/Vial Size: — mL
Initial Weight: — g
Final Weight: — g
Net Weight: — g

595700323

Cone # 8461 A
Final Vol: 12.5 mL
Initial Weight: 7.54 g
Final Weight: 22.05 g
Net Weight: 14.51 g

BK Den = 145/125

Appearance/Narrative: 1.5 mls of water

11.0 mls of solids

BK Den = 1.16 g/ml

Start Time: —
End Time: —

Homogenization Time (Min.): —

Jar # 8461 B
Jar/Vial Size: — mL
Initial Weight: — g
Final Weight: — g
Net Weight: — g

595700323

Cone # 8461 B
Final Vol: 13.5 mL
Initial Weight: 7.64 g
Final Weight: 23.17 g
Net Weight: — g

BK Den = 1553/135

Appearance/Narrative: 1.5 mls of water

12.0 mls of solids

BK Den = 1.15 g/ml

Bulk Density Worksheet

Requestor: Leek, S. Sak

Date: 11-22-95

Tank: B-204
Core: 114
Seg: 13
Auger: N/A

Tank:
Core:
Seg:
Auger:

Tank: B-204
Core: 114
Seg: 13
Auger: N/A

Tank:
Core:
Seg:
Auger:

Start Time:
End Time:
Homogenization Time (Min.):
Jar #: 8484
Jar/Vial Size: 250 mL
Initial Weight: g
Final Weight: g
Net Weight: g

Core #: 8484(2)
Final Vol: 9.0 mL
Initial Weight: 7.64 g
Final Weight: 18.37 g
Net Weight: 10.73 g

Start Time:
End Time:
Homogenization Time (Min.):
Jar #:
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Core #: 8484(8)
Final Vol: 10.5 mL
Initial Weight: 7.62 g
Final Weight: 19.53 g
Net Weight: 11.91 g

Start Time:
End Time:
Homogenization Time (Min.):
Jar #: 8467
Jar/Vial Size: 250 mL
Initial Weight: g
Final Weight: g
Net Weight: g

Core #: 8467(4)
Final Vol: 11.8 mL
Initial Weight: 7.61 g
Final Weight: 21.72 g
Net Weight: 14.11 g

Start Time:
End Time:
Homogenization Time (Min.):
Jar #:
Jar/Vial Size: mL
Initial Weight: g
Final Weight: g
Net Weight: g

Core #: 8467(6)
Final Vol: 10.0 mL
Initial Weight: 7.67 g
Final Weight: 20.12 g
Net Weight: 12.45 g

Appearance/Narrative:

Bulk Density = 10.73/9.0 =

1.19 g/mL

Appearance/Narrative:

Bulk Density = 11.91/10.5 =

1.13 g/mL

Appearance/Narrative:

Bulk Density = 14.11/11.8 =

1.19 g/mL

Appearance/Narrative:

Bulk Density = 12.45/10.0 =

1.24 g/mL

Bulk Density Worksheet

Requestor: L. G. Baker

Date: 11-22-95

Tank: B-204
Core: 114
Seg: 14
Auger: N/A

Tank: B-204
Core: 114
Seg: 14
Auger: N/A

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

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar#: 8468
Jar/Vial Size: 250 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

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

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar#: 8470
Jar/Vial Size: 250 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Start Time: _____
End Time: _____

Homogenization Time (Min.): _____

Jar#: 8470
Jar/Vial Size: 250 mL
Initial Weight: _____ g
Final Weight: _____ g
Net Weight: _____ g

Conc#: 8468 (A)
Final Vol: 8.0 mL
Initial Weight: 7.68 g
Final Weight: 17.20 g
Net Weight: 9.52 g

Conc#: 8468 (B)
Final Vol: 11.5 mL
Initial Weight: 7.68 g
Final Weight: 21.46 g
Net Weight: 13.78 g

Conc#: 8470 (A)
Final Vol: 9.5 mL
Initial Weight: 7.62 g
Final Weight: 18.32 g
Net Weight: 11.20 g

Conc#: 8470 (B)
Final Vol: 10.5 mL
Initial Weight: 7.61 g
Final Weight: 20.44 g
Net Weight: 12.82 g

Appearance/Narrative: _____

Bulk Density = 9.52 / 8.0 = 1.19 g/mL

Appearance/Narrative: _____

Bulk Density = 13.78 / 11.5 = 1.20 g/mL

Appearance/Narrative: _____

Bulk Density = 11.20 / 9.5 = 1.18 g/mL

Appearance/Narrative: _____

Bulk Density = 12.82 / 10.5 = 1.22 g/mL

LABCORE Data Entry Template for Worklist#

3395

Analyst: DPB Instrument: BA001 Book # 134N/6-B

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

Worklist Comment: SpG B-204 (Do not run in replicate)

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			SPG-01	LIQUID	<u>1.11</u> ⁶⁰	<u>1.143</u>	<u>N/A</u>	Sp.G.
95000158	B-204	2 SAMPLE	S95T002976	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.058</u> <u>1.058</u> 12-7-95 HCA	<u>.01</u>	Sp.G.
95000158	B-204	3 DUP	S95T002976	0	SPG-01	LIQUID	<u>1.058</u>	<u>1.054</u>	<u>N/A</u>	Sp.G.
95000158	B-204	4 SAMPLE	S95T002984	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.049</u>	<u>.01</u>	Sp.G.
95000158	B-204	5 DUP	S95T002984	0	SPG-01	LIQUID	<u>1.049</u>	<u>1.055</u>	<u>N/A</u>	Sp.G.
95000158	B-204	6 SAMPLE	S95T002986	0	SPG-01	LIQUID	<u>N/A</u>	<u>0.995</u>	<u>.01</u>	Sp.G.
95000158	B-204	7 DUP	S95T002986	0	SPG-01	LIQUID	<u>0.995</u>	<u>0.998</u>	<u>N/A</u>	Sp.G.
95000161	B-204	8 SAMPLE	S95T003255	0	SPG-01	LIQUID	<u>N/A</u>	<u>1.025</u>	<u>.01</u>	Sp.G.
95000161	B-204	9 DUP	S95T003255	0	SPG-01	LIQUID	<u>1.025</u>	<u>1.059</u>	<u>N/A</u>	Sp.G.
95000161	B-204	10 SAMPLE	S95T003349	0	SPG-01	LIQUID	<u>N/A</u>	<u>0.980</u>	<u>.01</u>	Sp.G.
95000161	B-204	11 DUP	S95T003349	0	SPG-01	LIQUID	<u>0.980</u>	<u>0.992</u>	<u>N/A</u>	Sp.G.
		12 STD			SPG-01	LIQUID	<u>1.11</u>	<u>1.102</u>	<u>N/A</u>	Sp.G.

Final page for worklist #

3395

Don P. Begley / 11/13/95
Analyst Signature Date

Shana L. Clabbe 11-14-95
Analyst Signature Date

Data Entry Comments:

Sample size for all: 0.15017 mL

Results on back

Reviewed by H. Anastor

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#1 G 2.02078
T 1.85619
N 0.16459

WNC 8D-WM-DP-180, REV.1

3255 SAM G 2.01448
T 1.86052
N 0.15396

2976 SAM G 2.08243
T 1.92355
N 0.15888

3255 DUP G 2.07783
T 1.91879
N 0.15904

2976 DUP G 2.02882
T 1.87054
N 0.15834

3349 SAM G 2.07572
T 1.92848
N 0.14724

2984 SAM G 2.01827
T 1.86070
N 0.15757

3349 DUP G 2.04530
T 1.89631
N 0.14899

2984 DUP G 2.06434
T 1.90588
N 0.15846

Std #2

G 2.05500
T 1.88956
N 0.16544

2986 SAM G 1.97169
PPS 11/13
DUP T 1.82230
N 0.14939

2986 DUP G 2.00400
T 1.85411
N 0.14989

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	2.0278	
Work List	Tare Weight (W1)	1.8562	
3395	Weight of Solution (W2-W1)	0.17161	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.1428	NA
Matrix			
LIQUID			
Sample #			
134N16-B			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time	∇ RESULT ∇		
	Specific Gravity =	1.143	

Data Entry by: <i>8211</i>	Date: 11/14/95
Approved by: <i>H. Anastos</i>	Date: 12-7-95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0824	
Work List	Tare Weight (W1)	1.9236	
3395	Weight of Solution (W2-W1)	0.15888	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.0580	NA
Matrix			
LIQUID			
Sample #			
S95T002976			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time	∇ RESULT ∇		
	Specific Gravity =	1.058	

Data Entry by: <i>SLN</i>	Date: 11/14/95
Approved by: <i>H. Anastor</i>	Date: 12-7-95

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE/DUP	REPLICATE
SAMPLE/DUP	Gross Weight (W2)	2.0289	
Work List	Tare Weight (W1)	1.8705	
3395	Weight of Solution (W2-W1)	0.15834	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.0544	NA
Matrix			
LIQUID			
Sample #			
S95T002976			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time	∇ RESULT ∇		
	Specific Gravity =	1.054	

Data Entry by: <i>gLU</i>	Date: 11/14/95
Approved by: <i>H. Anastos</i>	Date: 12-7-95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0183	
Work List	Tare Weight (W1)	1.8607	
3395	Weight of Solution (W2-W1)	0.15757	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.0493	NA
Matrix			
LIQUID			
Sample #			
S95T002984			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time			
	∇ RESULT ∇		
	Specific Gravity =	1.049	

Data Entry by: <i>SHU</i>	Date: 11/14/95
Approved by: <i>H. Anastro</i>	Date: 12-7-95

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE/DUP	REPLICATE
SAMPLE/DUP	Gross Weight (W2)	2.0643	
Work List	Tare Weight (W1)	1.9059	
3395	Weight of Solution (W2-W1)	0.15846	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.0552	NA
Matrix			
LIQUID			
Sample #			
S95T002984			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time	∇ RESULT ∇		
	Specific Gravity =	1.055	

Data Entry by: <i>SLH</i>	Date: 11/14/95
Approved by: <i>H. Anastos</i>	Date: 12-7-95

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	1.9717	
Work List	Tare Weight (W1)	1.8223	
3395	Weight of Solution (W2-W1)	0.14939	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	0.9948	NA
Matrix			
LIQUID			
Sample #			
S95T002986			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time	∇ RESULT ∇		
	Specific Gravity =	0.995	

Data Entry by: <i>SLU</i>	Date: 11/14/95
Approved by: <i>H. Anastor</i>	Date: 12-7-95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE DUP	REPLICATE
SAMPLE DUP	Gross Weight (W2)	2.0040	
Work List	Tare Weight (W1)	1.8541	
3395	Weight of Solution (W2-W1)	0.14989	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	0.9981	NA
Matrix			
LIQUID			
Sample #			
S95T002986			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time	∇ RESULT ∇		
	Specific Gravity =	0.998	

Data Entry by: <i>SLU</i>	Date: 11/14/95
Approved by: <i>H. Anastos</i>	Date: 12-7-95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0145	
Work List	Tare Weight (W1)	1.8605	
3395	Weight of Solution (W2-W1)	0.15396	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.0252	NA
Matrix			
LIQUID			
Sample #			
S95T003255			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst			
D. BROMLEY	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
Date			
11/13/95	v RESULT v		
Time	Specific Gravity =	1.025	

Data Entry by: <i>SHU</i>	Date: 11/14/95
Approved by: <i>H. Anastor</i>	Date: 12-7-95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE DUP	REPLICATE
SAMPLE DUP	Gross Weight (W2)	2.0778	
Work List	Tare Weight (W1)	1.9188	
3395	Weight of Solution (W2-W1)	0.15904	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.0591	NA
Matrix			
LIQUID			
Sample #			
S95T003255			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time	∇ RESULT ∇		
	Specific Gravity =	1.059	

Data Entry by: <i>SHL</i>	Date: 11/14/95
Approved by: <i>H. Anastro</i>	Date: 12-7-95

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE	REPLICATE
SAMPLE	Gross Weight (W2)	2.0757	
Work List	Tare Weight (W1)	1.9285	
3395	Weight of Solution (W2-W1)	0.14724	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	0.9805	NA
Matrix			
LIQUID			
Sample #			
S95T003349			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95	v RESULT v		
Time	Specific Gravity =	0.980	

Data Entry by: <i>SLY</i>	Date: 11/14/95
Approved by: <i>H. Anastor</i>	Date: 12-7-95

PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		SAMPLE DUP	REPLICATE
SAMPLE DUP	Gross Weight (W2)	2.0453	
Work List	Tare Weight (W1)	1.8963	
3395	Weight of Solution (W2-W1)	0.14899	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	0.9921	NA
Matrix			
LIQUID			
Sample #			
S95T003349			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95			
Time	∇ RESULT ∇		
	Specific Gravity =	0.992	

Data Entry by: <i>Sh 11</i>	Date: 11/14/95
Approved by: <i>H. Anastor</i>	Date: 12-7-95

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PLACE ANALYTICAL CARD IN BOX BELOW OR ATTACH TRAVELER

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

Type		STANDARD	STANDARD
STANDARD	Gross Weight (W2)	2.0550	
Work List	Tare Weight (W1)	1.8896	
3395	Weight of Solution (W2-W1)	0.16544	0
Test Code	Volume of Solution μ L	150.1700	
SPG-01	Specific Gravity	1.1017	NA
Matrix			
LIQUID			
Sample #			
134N16B			
Instrument Code	Gross Weight (W2) = Wt. of vial + cap + cotton + solution		
N/A	Tare Weight (W1) = Wt. of vial + cap + cotton		
Analyst	Specific Gravity = $[(W2-W1) * 1000 \mu\text{L/mL}] / [\text{Vol. of Solution } \mu\text{L} * 1.000 \text{ g/mL}]$		
D. BROMLEY			
Date			
11/13/95	v RESULT v		
Time	Specific Gravity =	1.102	

Data Entry by: <i>SLI</i>	Date: 11/14/95
Approved by: <i>H. Anastro</i>	Date: 12-7-95

LABCORE Completed Worklist Report for Worklist# 3654

Analyst: ehc

Instrument: IC03

Book# 422294

Method: LC-573-10.5 Rev/Mod D-1

Worklist Comment: Bromide required, rest extra. S95T002952 0.3 M LiBr.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	NC2	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	NC3	QC	1	<1.40e-1	ug/mL
1	CCB		0		@IC-QC	PC4	QC	1	<1.19e-1	ug/mL
1	CCB		0		@IC-QC	SO4	QC	1	4.60e-01	0.460 ug/mL
1	CCB		0		@IC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL
2	CCV		0		@IC-QC	F	QC	59	6.26e+01	106.100 % Recovery
2	CCV		0		@IC-QC	CL	QC	79	8.18e+01	103.540 % Recovery
2	CCV		0		@IC-QC	NC2	QC	536	5.50e+02	102.610 % Recovery
2	CCV		0		@IC-QC	BR	QC	575	6.02e+02	104.700 % Recovery
2	CCV		0		@IC-QC	NC3	QC	614	6.51e+02	106.030 % Recovery
2	CCV		0		@IC-QC	PC4	QC	546	5.89e+02	107.880 % Recovery
2	CCV		0		@IC-QC	SO4	QC	631	6.67e+02	105.710 % Recovery
2	CCV		0		@IC-QC	OXALATE2	QC	525	5.84e+02	111.240 % Recovery
3	SAMPLE	S95T002952	0		@IC-01	BR-02	LIQUID	N/A	2.774e+04	1.285e+003 ug/mL
4	DUP	S95T002952	0		@IC-01	BR-02	LIQUID	2.77e+04	2.67e+04	3.680 RPD
5	SAMPLE	S95T002976	0		@IC-01	F-02	LIQUID	N/A	6.838e+03	27.570 ug/mL
5	SAMPLE	S95T002976	0		@IC-01	CL-02	LIQUID	N/A	6.912e+02	36.060 ug/mL
5	SAMPLE	S95T002976	0		@IC-01	NC2-02	LIQUID	N/A	2.169e+03	226.900 ug/mL
5	SAMPLE	S95T002976	0		@IC-01	BR-02	LIQUID	N/A	< 2.672e+02	267.200 ug/mL
5	SAMPLE	S95T002976	0		@IC-01	NC3-02	LIQUID	N/A	4.897e+04	296.900 ug/mL
5	SAMPLE	S95T002976	0		@IC-01	PC4-02	LIQUID	N/A	2.538e+03	252.400 ug/mL
5	SAMPLE	S95T002976	0		@IC-01	SO4-02	LIQUID	N/A	1.344e+03	288.500 ug/mL
5	REJECT	S95T002976	0		@IC-01	OXALATE2	LIQUID	N/A	< 2.227e+02	ug/mL
6	DUP	S95T002976	0		@IC-01	F-02	LIQUID	6.84e+03	6.70e+03	2.070 RPD
6	DUP	S95T002976	0		@IC-01	CL-02	LIQUID	6.91e+02	6.70e+02	3.090 RPD
6	DUP	S95T002976	0		@IC-01	NC2-02	LIQUID	2.17e+03	2.23e+03	2.730 RPD
6	DUP	S95T002976	0		@IC-01	BR-02	LIQUID	<2.67e2	1.06e+03	RPD
6	DUP	S95T002976	0		@IC-01	NC3-02	LIQUID	4.90e+04	4.92e+04	0.410 RPD
6	DUP	S95T002976	0		@IC-01	PC4-02	LIQUID	2.54e+03	2.72e+03	6.840 RPD
6	DUP	S95T002976	0		@IC-01	SO4-02	LIQUID	1.34e+03	1.47e+03	9.250 RPD
6	DUP	S95T002976	0		@IC-01	OXALATE2	LIQUID	<2.23e2	7.53e+02	RPD
7	SPK	S95T002976	0		@IC-01	F-02	LIQUID	59	43.143	73.120 % Recovery
7	SPK	S95T002976	0		@IC-01	CL-02	LIQUID	79	75.182	95.170 % Recovery
7	SPK	S95T002976	0		@IC-01	NC2-02	LIQUID	536	516.319	96.330 % Recovery
7	SPK	S95T002976	0		@IC-01	BR-02	LIQUID	575	594.000	103.300 % Recovery
7	SPK	S95T002976	0		@IC-01	NC3-02	LIQUID	614	600.296	97.770 % Recovery
7	SPK	S95T002976	0		@IC-01	PC4-02	LIQUID	546	562.404	103.000 % Recovery
7	SPK	S95T002976	0		@IC-01	SO4-02	LIQUID	631	621.519	98.500 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 3654

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
7	SPK	S95T002976	0		@IC-01	OXALATE2 LIQUID	525	564.300	107.490 %	Recovery

Comments Section:

Comments for sample# S95T002976 and test @IC-01 .

Oxalate will be rejected

Oxalate will be rejected

Final page for worklist# 3654

Analyst Signature Date

Analyst Signature Date

Reviewer Signature Date

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				10-Jan-96	
Worklist#: 3654				Data File: 3654JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	96010511.d01	INSTR BLANK		1.00
	=>	2	CCV		2	96010511.d02	122N9-A STD		101.00
	=>	3	SAMPLE		3	96010511.d03	S95T002952		10201.00
	=>	4	DUP		4	96010511.d04	S95T002952 DUP		10201.00
	=>	5	SAMPLE			96010511.d05	S95T002976		10201.00
	=>	6	DUP			96010511.d06	S95T002976		4141.00
	=>	7	SPK		5	96010511.d07	S95T002976		2121.00
					6	96010511.d08	S95T002976		2121.00
					7	96010511.d09	S95T002976 SPK		2121.00
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

LABCORE Data Entry Template for Worklist# 3654

Analyst: EE Instrument: IC01 11C03 Book# 122X19-A

Method: LA-533-105 Rev/Mod D1

Worklist Comment: Bromide required, rest extra. S95T002952 0.3 M LiBr.JMF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 CCB			@IC-QC	QC		
2 CCV			@IC-QC	QC		
3 SAMPLE	S95T002952 0		@IC-01	LIQUID	95000161	B-204
	Analytes Requested: BR-02					
4 DUP	S95T002952 0		@IC-01	LIQUID		
5 SAMPLE	S95T002976 0		@IC-01	LIQUID	95000158	B-204
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
6 DUP	S95T002976 0		@IC-01	LIQUID		
7 SPK	S95T002976 0		@IC-01	LIQUID		

Final page for worklist # 3654

E. D. Cohn 1-5-96
Analyst Signature Date

Analyst Signature Date

*copied
Uploaded & posted 1/10/96 JMF
printed*

Data Entry Comments:

Data Reprocessed On 01/05/1996 09:38:27

Sample Name: 122N9-A STD Date: 01/05/1996 08:02:34
Data File : C:\DX\DATA\96010511.D02 WWC-SD-WM-DP-160, REV. 1
Method : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 2 Detector: CDM-2
Analyst : *EW. Loh* Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 101 3000 5Hz 0.00 10.00 100000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	55898	203826	1	
2	1.06	FLUORIDE	62.609	1489045	8468001	1	-0.93
3	1.58	CHLORIDE	81.812	1273809	7596751	2	0.64
4	1.90	NITRITE	550.355	6023094	36411550	2	1.60
5	2.82	BROMIDE	602.385	3866709	27304268	2	1.81
6	3.20	NITRATE	659.525	4494620	38726946	2	0.95
7	4.60	PHOSPHATE	589.212	1438488	16996380	1	0.00
8	6.18	SULFATE	667.094	3640126	50419610	1	1.81
9	8.12	OXALATE	584.183	1790462	33369784	1	1.50
Totals			3797.175	24072251	219497115		

File: 96010511.D02 Sample: 122N9-A STD

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 302 TO 362.

302

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=====
Sample Name: S95T002976 SPK                               Date: 01/05/1996 10:25:55
Data File  : C:\DX\DATA\96010511.D09                     WHC-CD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 9                       Detector: CDM-2
Analyst    : E.M. Cohn Column:
=====

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```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          2121    3000  5Hz   0.00 10.00   100000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	93041	344920	1	
2	1.06	FLUORIDE	7714.661	10464001	57564499	1	-0.93
3	1.56	CHLORIDE	2295.711	1697925	10315128	2	-0.64
4	1.86	NITRITE	12562.751	5884054	39858111	2	-0.53
5	2.78	BROMIDE	11973.715	3732698	25701413	2	0.36
6	3.10	NITRATE	61125.224	21268995	192247252	2	-2.21
7	4.60	PHOSPHATE	13940.279	1635283	19336056	1	0.00
8	6.16	SULFATE	13892.296	3474013	49962216	1	1.48
9	8.10	OXALATE	11431.627	1672053	30944080	1	1.25
Totals			134936.263	49922063	426273676		

File: 96010511.D09 Sample: S95T002976 SPK

Data Reprocessed On 01/10/1996 16:17:02

```
=====
Sample Name: INSTR BLANK                      Date: 01/05/1996 07:51:20
Data File  : C:\DX\DATA\96010511.d01          WHO-SD-WM-DP-16C, REV. I
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 1           Detector: CDM-2
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1 3000 5Hz 0.00 10.00 100000
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	4.10		0.000	13897	204324	1	
2	5.74	SULFATE	0.460	15310	212250	1	-5.44
Totals			0.460	29207	416574		

File: 96010511.d01 Sample: INSTR BLANK

Data Reprocessed On 01/10/1996 16:17:04

Sample Name: 122N9-A STD	Date: 01/05/1996 08:02:34
Data File : C:\DX\DATA\96010511.d02	WHC-CD-WM-DP-160, REV. 1
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 2	Detector: CDM-2
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	55898	203826	1	
2	1.06	FLUORIDE	62.609	1489045	8468001	1	-0.93
3	1.58	CHLORIDE	81.812	1273809	7596750	2	0.64
4	1.90	NITRITE	550.355	6023094	36411618	2	1.60
5	2.82	BROMIDE	602.385	3866709	27304268	2	1.81
6	3.20	NITRATE	659.525	4494620	38726946	2	0.95
7	4.60	PHOSPHATE	589.212	1438488	16996380	1	0.00
8	6.18	SULFATE	667.094	3640126	50419610	1	1.81
9	8.12	OXALATE	584.183	1790462	33369784	1	1.50
Totals			3797.176	24072251	219497183		

File: 96010511.d02 Sample: 122N9-A STD

Data Reprocessed On 01/10/1996 16:17:06

```
=====
Sample Name: S95T002952                      Date: 01/05/1996 08:27:34
Data File  : C:\DX\DATA\96010511.d03          96010511.DP-16C, REV. 1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 3           Detector: CDM-2
Analyst    :                               Column:
=====
```

```
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1       10201    3000  5Hz   0.00 10.00   100000
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.10	FLUORIDE	821.276	38093	695226	1	2.80
2	1.88	NITRITE	4712.759	12240	372466	1	0.53
3	2.82	BROMIDE	27743.832	1594120	11142614	1	1.81
4	3.22	NITRATE	4639.037	33172	244786	1	1.58
Totals			37916.905	1677625	12455092		

File: 96010511.d03 Sample: S95T002952

Data Reprocessed On 01/10/1996 16:17:08

```
=====
Sample Name: S95T002952 DUP                      Date: 01/05/1996 08:38:34
Data File  : C:\DX\DATA\96010511.d04             WHO-SD-WM-DP-16C, REV.1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 4
Analyst    :                      Column:
Detector: CDM-2
=====
```

```
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1       10201   3000  5Hz   0.00 10.00   100000
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.56	CHLORIDE	474.884	11205	108888	1	-0.64
2	2.78	BROMIDE	26727.999	1459109	10651605	2	0.36
3	3.20	NITRATE	4770.772	41162	325293	2	0.95
Totals			31973.656	1511475	11085786		

File: 96010511.d04 Sample: S95T002952 DUP

Data Reprocessed On 01/10/1996 16:17:09

```
=====
Sample Name: S95T002976                      Date: 01/05/1996 08:49:03
Data File  : C:\DX\DATA\96010511.d05         W/HC-CD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 5           Detector: CDM-2
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1      10201    2715   5Hz   0.00   9.05    100000
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	7328.762	1736175	9914950	1	-0.93
2	1.58	CHLORIDE	940.737	100715	551472	2	0.64
3	1.86	NITRITE	5372.328	130083	837119	2	-0.53
4	3.18	NITRATE	49611.653	3284681	28046306	1	0.32
5	4.62	PHOSPHATE	5534.539	47738	543804	1	0.43
6	6.18	SULFATE	4760.367	19520	268356	1	1.81
7	7.82	OXALATE	3657.178	16593	215820	1	-2.25
Totals			77205.564	5335505	40377826		

File: 96010511.d05 Sample: S95T002976

Data Reprocessed On 01/10/1996 16:17:11

```
=====
Sample Name: S95T002976                      Date: 01/05/1996 09:46:49
Data File  : C:\DX\DATA\96010511.d06
Method     : C:\DX\METHOD\ANIONS.MET        PHC-SD-WM-DP-160, REV 1
ACI Address: 1 System: 2 Inject#: 6
Analyst    :                               Detector: CDM-2
Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         4141   3000  5Hz   0.00 10.00   100000
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	7231.391	4354700	25554189	2	-0.93
2	1.56	CHLORIDE	875.532	262341	1709911	2	-0.64
3	1.86	NITRITE	3155.625	364986	2529344	2	-0.53
4	3.14	NITRATE	49345.471	8576230	73931372	1	-0.95
5	4.60	PHOSPHATE	3303.393	113271	1325366	1	0.00
6	6.18	SULFATE	2223.557	58012	833024	1	1.81
7	8.12	OXALATE	1572.117	10152	344036	1	1.50
Totals			67707.086	13739692	106227241		

File: 96010511.d06 Sample: S95T002976

Data Reprocessed On 01/10/1996 16:17:13

Sample Name: S95T002976 Date: 01/05/1996 10:02:14
 Data File : C:\DX\DATA\96010511.d07
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 7 Detector: CDM-2
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2121	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	6838.428	8236162	50140078	1	-0.93
2	1.58	CHLORIDE	691.172	490095	2826286	1	0.64
3	1.88	NITRITE	2169.308	702390	4404740	1	0.53
4	3.14	NITRATE	48972.787	17488631	150665928	1	-0.95
5	4.62	PHOSPHATE	2538.312	224446	2549844	1	0.43
6	6.20	SULFATE	1344.057	109741	1610284	1	2.14
Totals			62554.064	27251465	212197160		

File: 96010511.d07 Sample: S95T002976

Data Reprocessed On 01/10/1996 16:17:14

Sample Name: S95T002976

Date: 01/05/1996 10:15:05

Data File : C:\DX\DATA\96010511.d08

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 8

Detector: CDM-2

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2121	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	35762	127730	1	
2	1.06	FLUORIDE	6697.197	8949677	48968662	1	-0.93
3	1.56	CHLORIDE	669.631	442488	2727040	2	-0.64
4	1.86	NITRITE	2230.418	682279	4612047	2	-0.53
5	2.36		0.000	19708	195684	1	
6	2.82	BROMIDE	1060.635	36367	266943	2	1.81
7	3.14	NITRATE	49182.100	17704134	151368355	2	-0.95
8	4.62	PHOSPHATE	2717.331	234613	2809218	1	0.43
9	6.20	SULFATE	1469.462	131017	2085586	1	2.14
10	7.58	OXALATE	752.662	16780	193680	1	-5.25
Totals			64779.435	28252826	213354945		

File: 96010511.d08 Sample: S95T002976

Data Reprocessed On 01/10/1996 16:17:16

Sample Name: S95T002976 SPK	Date: 01/05/1996 10:25:55
Data File : C:\DX\DATA\96010511.d09	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 9	Detector: CDM-2
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2121	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	93041	344920	1	
2	1.06	FLUORIDE	7714.661	10464001	57564499	1	-0.93
3	1.56	CHLORIDE	2295.711	1697925	10315128	2	-0.64
4	1.86	NITRITE	12562.751	5884054	39858111	2	-0.53
5	2.78	BROMIDE	11973.715	3732698	25701413	2	0.36
6	3.10	NITRATE	61125.224	21268995	192247252	2	-2.21
7	4.60	PHOSPHATE	13940.279	1635283	19336056	1	0.00
8	6.16	SULFATE	13892.296	3474013	49962216	1	1.48
9	8.10	OXALATE	11431.627	1672053	30944080	1	1.25
Totals			134936.263	49922063	426273676		

File: 96010511.d09 Sample: S95T002976 SPK

WHO-SD-WM-DP-160, REV 1

LABCORE Completed Worklist Report for Worklist# 3655

Analyst: eal

Instrument: ICOTIC03

Book# 109N9E

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B204, Br required, rest extra. JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB		0		@IC-QC	F	QC	1	2.40e-02	2.000e-002 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	<2.96e-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	59	8.42e+01	142.710 % Recovery
2	CCV		0		@IC-QC	CL	QC	79	8.12e+01	102.780 % Recovery
2	CCV		0		@IC-QC	NO2	QC	536	4.99e+02	93.100 % Recovery
2	CCV		0		@IC-QC	BR	QC	575	5.70e+02	99.130 % Recovery
2	CCV		0		@IC-QC	NO3	QC	614	6.01e+02	97.880 % Recovery
2	CCV		0		@IC-QC	PO4	QC	546	6.01e+02	110.070 % Recovery
2	CCV		0		@IC-QC	SO4	QC	631	6.42e+02	101.740 % Recovery
2	CCV		0		@IC-QC	OXALATE2	QC	526	6.08e+02	115.590 % Recovery
3	SAMPLE	S95T002984	0		@IC-01	F-02	LIQUID	N/A	6.465e+03	27.570 ug/mL
3	SAMPLE	S95T002984	0		@IC-01	CL-02	LIQUID	N/A	5.969e+02	36.060 ug/mL
3	SAMPLE	S95T002984	0		@IC-01	NO2-02	LIQUID	N/A	1.356e+03	226.900 ug/mL
3	SAMPLE	S95T002984	0		@IC-01	BR-02	LIQUID	N/A	1.678e+03	267.200 ug/mL
3	SAMPLE	S95T002984	0		@IC-01	NO3-02	LIQUID	N/A	4.333e+04	296.900 ug/mL
3	SAMPLE	S95T002984	0		@IC-01	PO4-02	LIQUID	N/A	1.768e+03	627.800 ug/mL
3	SAMPLE	S95T002984	0		@IC-01	SO4-02	LIQUID	N/A	4.828e+02	288.500 ug/mL
3	SAMPLE	S95T002984	0		@IC-01	OXALATE2	LIQUID	N/A	<2.227e+02	222.700 ug/mL
4	DUP	S95T002984	0		@IC-01	F-02	LIQUID	6.46e+03	6.48e+03	0.310 RPD
4	DUP	S95T002984	0		@IC-01	CL-02	LIQUID	5.97e+02	6.20e+02	3.780 RPD
4	DUP	S95T002984	0		@IC-01	NO2-02	LIQUID	1.36e+03	1.35e+03	0.740 RPD
4	DUP	S95T002984	0		@IC-01	BR-02	LIQUID	1.68e+03	1.71e+03	1.770 RPD
4	DUP	S95T002984	0		@IC-01	NO3-02	LIQUID	4.33e+04	4.27e+04	1.400 RPD
4	DUP	S95T002984	0		@IC-01	PO4-02	LIQUID	1.77e+03	1.83e+03	3.330 RPD
4	DUP	S95T002984	0		@IC-01	SO4-02	LIQUID	4.83e+02	4.92e+02	1.850 RPD
4	DUP	S95T002984	0		@IC-01	OXALATE2	LIQUID	<2.23e2	<2.23e2	RPD
5	SPK	S95T002984	0		@IC-01	F-02	LIQUID	59	78.929	133.780 % Recovery
5	SPK	S95T002984	0		@IC-01	CL-02	LIQUID	79	82.818	104.830 % Recovery
5	SPK	S95T002984	0		@IC-01	NO2-02	LIQUID	536	492.244	91.840 % Recovery
5	SPK	S95T002984	0		@IC-01	BR-02	LIQUID	575	580.236	100.910 % Recovery
5	SPK	S95T002984	0		@IC-01	NO3-02	LIQUID	614	656.850	106.980 % Recovery
5	SPK	S95T002984	0		@IC-01	PO4-02	LIQUID	546	546.101	100.020 % Recovery
5	SPK	S95T002984	0		@IC-01	SO4-02	LIQUID	631	614.651	97.410 % Recovery
5	SPK	S95T002984	0		@IC-01	OXALATE2	LIQUID	526	559.350	106.340 % Recovery
6	SAMPLE	S95T002986	0		@IC-01	F-02	LIQUID	N/A	1.305e+02	27.570 ug/mL

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 3655

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SAMPLE	S95T002986 0	@IC-01	CL-02	LIQUID	N/A <	3.606e+01	36.060 ug/mL
6 SAMPLE	S95T002986 0	@IC-01	NO2-02	LIQUID	N/A <	2.269e+02	226.900 ug/mL
6 SAMPLE	S95T002986 0	@IC-01	BR-02	LIQUID	N/A	2.334e+04	267.200 ug/mL
6 SAMPLE	S95T002986 0	@IC-01	NO3-02	LIQUID	N/A	7.170e+02	296.900 ug/mL
6 SAMPLE	S95T002986 0	@IC-01	PO4-02	LIQUID	N/A <	6.278e+02	627.800 ug/mL
6 SAMPLE	S95T002986 0	@IC-01	SO4-02	LIQUID	N/A <	2.885e+02	288.500 ug/mL
6 SAMPLE	S95T002986 0	@IC-01	OXALATE2	LIQUID	N/A <	2.227e+02	222.700 ug/mL
7 DUP	S95T002986 0	@IC-01	F-02	LIQUID	1.30e+02	6.68e+01	64.230 RPD
7 DUP	S95T002986 0	@IC-01	CL-02	LIQUID	<3.61e1	<3.61e1	RPD
7 DUP	S95T002986 0	@IC-01	NO2-02	LIQUID	<2.27e2	<2.27e2	RPD
7 DUP	S95T002986 0	@IC-01	BR-02	LIQUID	2.33e+04	2.33e+04	0.000 RPD
7 DUP	S95T002986 0	@IC-01	NO3-02	LIQUID	7.17e+02	7.61e+02	5.950 RPD
7 DUP	S95T002986 0	@IC-01	PO4-02	LIQUID	<6.28e2	<6.28e2	RPD
7 DUP	S95T002986 0	@IC-01	SO4-02	LIQUID	<2.88e2	<2.88e2	RPD
7 DUP	S95T002986 0	@IC-01	OXALATE2	LIQUID	<2.23e2	<2.23e2	RPD

Comments Section:

Comments for sample# S95T002984 and test @IC-01
There is a peak interfering with the F std

Final page for worklist# 3655

Analyst Signature	Date	Analyst Signature	Date
Reviewer Signature Date			

Organic acid interference with F
Oxalate standard just slightly high, no known cause
Br was the analyte of interest. JML

LABCORE Data Entry Template for Worklist#

3655

Analyst:

ELL

Instrument: IC01

IC03

Book #

10909-E

Method: LA-533-105 Rev/Mod

D-1

Worklist Comment: B204, Br required, rest extra. JMF

(5/15/11/10/201)
Direct liquid - please double check to start
Adjust from here. JMF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			@IC-QC F	QC	1	4.063	N/A	ug/mL
		1 CCB			@IC-QC CL	QC	1	4.084	N/A	ug/mL
		1 CCB			@IC-QC NO2	QC	1	4.534	N/A	ug/mL
		1 CCB			@IC-QC BR	QC	1	4.150	N/A	ug/mL
		1 CCB			@IC-QC NO3	QC	1	4.699	N/A	ug/mL
		1 CCB			@IC-QC PO4	QC	1	4.596	N/A	ug/mL
		1 CCB			@IC-QC SO4	QC	1	4.678	N/A	ug/mL
		1 CCB			@IC-QC OXALATE2	QC	1	4.525	N/A	ug/mL
		2 CCV			@IC-QC F	QC	59	84.221	N/A	ug/mL
		2 CCV			@IC-QC CL	QC	79	81.2	N/A	ug/mL
		2 CCV			@IC-QC NO2	QC	536	499.3	N/A	ug/mL
		2 CCV			@IC-QC BR	QC	575	570.2	N/A	ug/mL
		2 CCV			@IC-QC NO3	QC	614	601.2	N/A	ug/mL
		2 CCV			@IC-QC PO4	QC	546	600.9	N/A	ug/mL
		2 CCV			@IC-QC SO4	QC	631	641.6	N/A	ug/mL
		2 CCV			@IC-QC OXALATE2	QC	526	608.5	N/A	ug/mL
95000158	B-204	3 SAMPLE	S95T002984	0	@IC-01 F-02	LIQUID	N/A	6.47	1.34	ug/mL
								E3	E2	
95000158	B-204	3 SAMPLE	S95T002984	0	@IC-01 CL-02	LIQUID	N/A	5.77	1.78	ug/mL
								E2	E2	

Data Entry Comments:

Upload used def. limits from IC01. JMF

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#

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GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	3 SAMPLE	S95T002984	0		01C-01 NO2-02	LIQUID	N/A	E3 1.36	E3 1.13	ug/mL
95000158	B-204	3 SAMPLE	S95T002984	0		01C-01 BR-02	LIQUID	N/A	E3 1.68	E2 3.18	ug/mL
95000158	B-204	3 SAMPLE	S95T002984	0		01C-01 NO3-02	LIQUID	N/A	E4 4.33	E3 1.48	ug/mL
95000158	B-204	3 SAMPLE	S95T002984	0		01C-01 PO4-02	LIQUID	N/A	1.77 E3 4.33	E3 4.20 E3	ug/mL
95000158	B-204	3 SAMPLE	S95T002984	0		01C-01 SO4-02	LIQUID	N/A	4.33	E3 1.44	ug/mL
95000158	B-204	3 SAMPLE	S95T002984	0		01C-01 OXALATE2	LIQUID	N/A	E3 1113.53	E3 1.1	ug/mL
95000158	B-204	4 DUP	S95T002984	0		01C-01 F-02	LIQUID	6.47	E3 6.48	N/A	ug/mL
95000158	B-204	4 DUP	S95T002984	0		01C-01 CL-02	LIQUID	5.97	E2 6.20	N/A	ug/mL
95000158	B-204	4 DUP	S95T002984	0		01C-01 NO2-02	LIQUID	1.36	E3 1.35	N/A	ug/mL
95000158	B-204	4 DUP	S95T002984	0		01C-01 BR-02	LIQUID	1.68	E3 1.71	N/A	ug/mL
95000158	B-204	4 DUP	S95T002984	0		01C-01 NO3-02	LIQUID	4.33	E4 4.27	N/A	ug/mL
95000158	B-204	4 DUP	S95T002984	0		01C-01 PO4-02	LIQUID	1.77	E3 1.83	N/A	ug/mL
95000158	B-204	4 DUP	S95T002984	0		01C-01 SO4-02	LIQUID	4.33	E3 1.44	N/A	ug/mL
95000158	B-204	4 DUP	S95T002984	0		01C-01 OXALATE2	LIQUID	1113.53	E3 1113.53	N/A	ug/mL
95000158	B-204	5 SPK	S95T002984	0		01C-01 F-02	LIQUID	100	125.4	N/A	ug/mL
95000158	B-204	5 SPK	S95T002984	0		01C-01 CL-02	LIQUID	100	101.0	N/A	ug/mL
95000158	B-204	5 SPK	S95T002984	0		01C-01 NO2-02	LIQUID	100	58.1 96.7	N/A	ug/mL
95000158	B-204	5 SPK	S95T002984	0		01C-01 BR-02	LIQUID	100	102.8 102.8	N/A	ug/mL
95000158	B-204	5 SPK	S95T002984	0		01C-01 NO3-02	LIQUID	100	96.0 96.0	N/A	ug/mL
95000158	B-204	5 SPK	S95T002984	0		01C-01 PO4-02	LIQUID	100	97.3 97.3	N/A	ug/mL
95000158	B-204	5 SPK	S95T002984	0		01C-01 SO4-02	LIQUID	100	97.3	N/A	ug/mL

Data Entry Comments:

0 is Duplicate 5 is Spike

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#

3655

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	5 SPK	S95T002984	0	01C-01 OXALATE2	LIQUID	100	102.1	N/A	ug/mL
95000158	B-204	6 SAMPLE	S95T002986	0	01C-01 F-02	LIQUID	N/A	1.34	E2	ug/mL
95000158	B-204	6 SAMPLE	S95T002986	0	01C-01 CL-02	LIQUID	N/A	1.78	E2	ug/mL
95000158	B-204	6 SAMPLE	S95T002986	0	01C-01 NO2-02	LIQUID	N/A	1.13	E3	ug/mL
95000158	B-204	6 SAMPLE	S95T002986	0	01C-01 BR-02	LIQUID	N/A	3.18	E2	ug/mL
95000158	B-204	6 SAMPLE	S95T002986	0	01C-01 NO3-02	LIQUID	N/A	1.48	E3	ug/mL
95000158	B-204	6 SAMPLE	S95T002986	0	01C-01 PO4-02	LIQUID	N/A	1.26	E3	ug/mL
95000158	B-204	6 SAMPLE	S95T002986	0	01C-01 SO4-02	LIQUID	N/A	1.44	E3	ug/mL
95000158	B-204	6 SAMPLE	S95T002986	0	01C-01 OXALATE2	LIQUID	N/A	1.11	E3	ug/mL
95000158	B-204	7 DUP	S95T002986	0	01C-01 F-02	LIQUID	1.30	1.33.62	N/A	ug/mL
95000158	B-204	7 DUP	S95T002986	0	01C-01 CL-02	LIQUID	1.78.16	1.78.16	N/A	ug/mL
95000158	B-204	7 DUP	S95T002986	0	01C-01 NO2-02	LIQUID	1.132.61	1.132.61	N/A	ug/mL
95000158	B-204	7 DUP	S95T002986	0	01C-01 BR-02	LIQUID	2.33	2.33	N/A	ug/mL
95000158	B-204	7 DUP	S95T002986	0	01C-01 NO3-02	LIQUID	1.482.58	1.482.58	N/A	ug/mL
95000158	B-204	7 DUP	S95T002986	0	01C-01 PO4-02	LIQUID	1.264.12	1.264.12	N/A	ug/mL
95000158	B-204	7 DUP	S95T002986	0	01C-01 SO4-02	LIQUID	1.438.04	1.438.04	N/A	ug/mL
95000158	B-204	7 DUP	S95T002986	0	01C-01 OXALATE2	LIQUID	1.113.53	1.113.53	N/A	ug/mL

Final page for worklist #

3655

Shun Lambel 11.26.95
Analyst Signature Date

Analyst Signature Date

uploaded 12/4/95 J. M. Luy

Data Entry Comments:

Standard for F & Oxalate was out. They only wanted Br on this sample. There is organic acid interference with F on this run.

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.

WHO-SD-WM-DP-160, REV. 1

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #: S95T002984 & S95T002986 TEST CODE: @IC-01 INSTRUMENT: IC01 WORK LIST #: 3655 BATCH ID: N/A	ANALYST: EA LAMBEL ANALYSIS DATE: 11/26/95 SAMPLE POINT: HERTING SAMPLE PREP: DIRECT
---	---

Result Units	µg/mL	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9-E		142.7%	102.8%	93.1%	97.9%	110.1%	101.7%	99.2%	115.7%
S95T002984		6.47E+03	5.97E+02	1.36E+03	4.33E+04	1.77E+03	<1438.04	1.68E+03	<1113.53
S95T002984		6.48E+03	6.20E+02	1.35E+03	4.27E+04	1.83E+03	<1438.04	1.71E+03	<1113.53
Duplicate 1 RPD		0.3%	3.8%	0.3%	1.5%	3.2%	N/A	2.1%	N/A
S95T002986		1.30E+02	<178.16	<1132.61	<1482.58	<1264.12	<1438.04	2.33E+04	<1113.53
S95T002986		<133.62	<178.16	<1132.61	<1482.58	<1264.12	<1438.04	2.33E+04	<1113.53
Duplicate 2 RPD		N/A	N/A	N/A	N/A	N/A	N/A	0.1%	N/A
S95T002984		128.4%	101.0%	88.1%	102.8%	96.0%	97.3%	96.7%	102.1%

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By: <i>Sharon L. Lambel</i>	Date: _____
Chemist Approval: <i>[Signature]</i>	Date: <i>12/4/95</i>

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LAB LEADER INFO	
Method:	LA-533-105
Matrix:	LIQUID
Test Code:	@IC-01
Work List #:	3655
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/mL
Spike Book Number:	109N9-E
Spike Sample #:	1
Prepared By: SL HOLDEN	
Prepared Date: 11/27/95	
Chemist: JANN FRYE	
Analyst: EA LAMBEL	
Analysis Date: 11/28/95	
Time Complete: 03:09 AM	
Instrument Code: IC01	
Rerun: 0	
Sample Prep: DIRECT	
Sample Point: HERTING	
Sample Type	
STANDARD	109N9-E
SAMPLE 1	S95T002984
DUPLICATE 1	S95T002984
SAMPLE 2	S95T002986
DUPLICATE 2	S95T002986
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T002984
SPIKE DUPLICATE	

PRINT

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	<.063	<.084	<.534	<.899	<.596	<.678	<.160	<.525
Standard Data (µg/mL)	84.221	81.189	499.279	801.184	800.881	841.568	570.213	608.476
Sample 1 Data (µg/mL)	6.47E+03	5.97E+02	1.38E+03	4.33E+04	1.77E+03	<.678	1.68E+03	<.525
Sample 1 Dilution Factor	2121	2121	2121	2121	2121	2121	2121	2121
Sample 1 Prep DF	1	1	1	1	1	1	1	1
Duplicate 1 Data (µg/mL)	6.48E+03	6.20E+02	1.36E+03	4.27E+04	1.83E+03	<.678	1.71E+03	<.525
Duplicate 1 Dilution Factor	2121	2121	2121	2121	2121	2121	2121	2121
Duplicate 1 Prep DF	1	1	1	1	1	1	1	1
Sample 2 Data (µg/mL)	1.30E+02	<.084	<.534	<.899	<.596	<.678	2.33E+04	<.525
Sample 2 Dilution Factor	2121	2121	2121	2121	2121	2121	2121	2121
Sample 2 Prep DF	1	1	1	1	1	1	1	1
Duplicate 2 Data (µg/mL)	<.063	<.084	<.534	<.899	<.596	<.678	2.33E+04	<.525
Duplicate 2 Dilution Factor	2121	2121	2121	2121	2121	2121	2121	2121
Duplicate 2 Prep DF	1	1	1	1	1	1	1	1
Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								
Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								
Spike + Sample 1 (µg/mL)	8.08E+03	2.27E+03	1.13E+04	5.66E+04	1.28E+04	1.29E+04	1.34E+04	1.13E+04
Spike + Dup 1 (µg/mL)								
Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	59	79	538	614	848	931	575	526
Detection Limit	0.063	0.084	0.534	0.899	0.596	0.678	0.160	0.525
Matrix Detection Limit 1	1.34E+02	1.78E+02	1.13E+03	1.48E+03	1.28E+03	1.44E+03	3.18E+02	1.11E+03
Matrix Detection Limit 2	1.34E+02	1.78E+02	1.13E+03	1.48E+03	1.28E+03	1.44E+03	3.18E+02	1.11E+03
Matrix Detection Limit 3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Spike Recovery = $\frac{((\text{Spike} + \text{Sample}) - (\text{Sample}) * (\text{Total Volume})) / ((\text{Spike Vol.}) * (\text{Spike Std.}) * (\text{Sample DF}))}{100\%}$
 Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)
 Duplicate Relative % Difference = $\frac{((\text{Sample} - \text{Duplicate}) / ((\text{Sample} + \text{Duplicate}) / 2) * 100\%)}{100\%}$
 Less than Values are Calculated from the Detection Limit * Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	142.7%	102.8%	93.1%	97.9%	110.1%	101.7%	98.2%	115.7%
Sample 1 In µg/mL	6.47E+03	5.97E+02	1.36E+03	4.33E+04	1.77E+03	<1438.04	1.68E+03	<1113.63
Duplicate 1 In µg/mL	6.48E+03	6.20E+02	1.36E+03	4.27E+04	1.83E+03	<1438.04	1.71E+03	<1113.63
Duplicate 1 RPD	0.3%	3.8%	0.3%	1.6%	3.2%	N/A	2.1%	N/A
Sample 2 In µg/mL	1.30E+02	<178.16	<1132.61	<1482.58	<1264.12	<1438.04	2.33E+04	<1113.63
Duplicate 2 In µg/mL	<133.82	<178.16	<1132.61	<1482.58	<1264.12	<1438.04	2.33E+04	<1113.63
Duplicate 2 RPD	N/A	N/A	N/A	N/A	N/A	N/A	0.1%	N/A
Spike % Recovery	128.4%	101.0%	88.1%	102.8%	96.0%	97.3%	96.7%	102.1%

Date Entry by: *SLH* Date: 11/27/95
 Approved by: *JM Frye* Date: 12/4/95
 Form DIONEX WB1 Rev. 1.3

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=====
Sample Name: BLANK      DIRECT      Date: 11/25/1995 20:36:18
Data File  : C:\DX\DATA\95112501.D02
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 2      Detector: CDM-2
Analyst    : Kenna Lambert Column:
=====

```

11-26-95

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.23	FLUORIDE	0.024	30816	546924	1	12.12
Totals			0.024	30816	546924		

File: 95112501.D02 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 320 TO 327

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=====
Sample Name: 109N9-E STD. .I>10      Date: 11/25/1995 21:46:16
Data File  : C:\DX\DATA\95112501.D03
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 3
Analyst    : [Signature] Column:
Detector: CDM-2
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         101   3000  5Hz   0.00 10.00   500000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.10	FLUORIDE	84.221	1849114	12297850	1	0.00
2	1.63	CHLORIDE	81.188	1168779	8663826	2	0.00
3	1.97	NITRITE	499.279	5506959	39277400	2	0.00
4	2.97	BROMIDE	570.213	3944417	29284952	2	2.30
5	3.37	NITRATE	601.184	4220156	40578210	2	3.06
6	4.90	PHOSPHATE	600.881	1377873	19866262	1	-0.68
7	6.63	SULFATE	641.558	3450321	55356392	1	2.05
8	8.77	OXALATE	608.476	1702335	36106690	1	2.73
Totals			3687.000	23219955	241431582		

File: 95112501.D03 Sample: 109N9-E STD. .I>10

```

=====
Sample Name: S95T002984 .1>10/.5>10      Date: 11/25/1995 23:41:11
Data File  : C:\DX\DATA\95112501.D04
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 4        Detector: CDM-2
Analyst    :                          Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1       2121    3000   5Hz   0.00 10.00   500000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.10	FLUORIDE	6465.478	8766261	48805866	1	0.00
2	1.63	CHLORIDE	596.916	442178	3010399	2	0.00
3	1.97	NITRITE	1355.676	671667	4323833	2	0.00
4	2.97	BROMIDE	1678.073	529516	3739221	2	2.30
5	3.30	NITRATE	43330.261	14333366	145461948	2	1.02
6	4.90	PHOSPHATE	1767.646	208615	2744746	1	-0.68
7	6.60	SULFATE	482.801	92891	1479922	1	1.54
Totals			55676.850	25044493	209565934		

File: 95112501.D04 Sample: S95T002984 .1>10/.5>10

```

=====
Sample Name: S95T002984D.1>10/.5>10      Date: 11/26/1995 00:00:05
Data File  : C:\DX\DATA\95112501.D05
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 5
Analyst    :                               Column:
Detector: CDM-2
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         2121   3000  5Hz   0.00 10.00   500000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.10	FLUORIDE	6483.456	8503343	48961712	1	0.00
2	1.63	CHLORIDE	620.082	445348	3127488	1	0.00
3	1.97	NITRITE	1351.586	658339	4308264	1	0.00
4	2.97	BROMIDE	1713.500	534464	3825827	2	2.30
5	3.30	NITRATE	42680.159	14018138	143151591	2	1.02
6	4.90	PHOSPHATE	1825.802	204562	2835204	1	-0.68
7	6.63	SULFATE	492.308	103909	1518730	1	2.05
Totals			55166.892	24468103	207728816		

File: 95112501.D05 Sample: S95T002984D.1>10/.5>10

Sample Name: S95T002984S.1>10/.5>10 Date: 11/26/1995 01:28:42
 Data File : C:\DX\DATA\95112501.D06
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 6 Detector: CDM-2
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2121	3000	5Hz	0.00	10.00	500000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.10	FLUORIDE	8056.213	10701929	63243324	1	0.00
2	1.63	CHLORIDE	2272.991	1661912	11605126	1	0.00
3	1.97	NITRITE	11267.775	6299276	42294634	1	0.00
4	2.97	BROMIDE	13360.030	4708869	32781926	2	2.30
5	3.30	NITRATE	56585.491	20304884	193522639	2	1.02
6	4.90	PHOSPHATE	12773.566	1562329	20114590	1	-0.68
7	6.60	SULFATE	12896.324	3467639	52928330	1	1.54
8	8.67	OXALATE	11272.518	1599576	31824422	1	1.56
Totals			128484.907	50306414	448314991		

File: 95112501.D06 Sample: S95T002984S.1>10/.5>10

```

=====
Sample Name: S95T002986 .1>10/.5>10      Date: 11/26/1995 02:09:21
Data File  : C:\DX\DATA\95112501.D07
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1  System: 2  Inject#: 7      Detector: CDM-2
Analyst    :                          Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1       2121   3000   5Hz   0.00 10.00   500000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.10	FLUORIDE	130.488	117450	1074466	1	0.00
3	2.93	BROMIDE	23338.447	6584763	58409771	2	1.15
4	3.40	NITRATE	717.045	229187	1999162	2	4.08
Totals			24185.980	6931400	61483399		

File: 95112501.D07 Sample: S95T002986 .1>10/.5>10

```

=====
Sample Name: S95T002986D.1>10/.5>10      Date: 11/26/1995 02:46:19
Data File  : C:\DX\DATA\95112501.D08
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1  System: 2  Inject#: 8      Detector: CDM-2
Analyst    :                          Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1       2121    3000   5Hz   0.00 10.00   500000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.13	FLUORIDE	66.759	68227	650120	1	3.03
2	2.97	BROMIDE	23321.385	8264197	58365262	2	2.30
3	3.40	NITRATE	761.093	245363	2139927	2	4.08
Totals			24149.237	8577787	61155309		

File: 95112501.D08 Sample: S95T002986D.1>10/.5>10

Sample Name: S95T002986S.1>10/.5>10 Date: 11/26/1995 03:09:35
 Data File : C:\DX\DATA\95112501.D09
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 9 Detector: CDM-2
 Analyst : *Lana Lambert* Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

 External 1 2121 3000 5Hz 0.00 10.00 500000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.10	FLUORIDE	1639.505	1813312	11389880	1	0.00
2	1.63	CHLORIDE	1650.307	1212529	8382423	2	0.00
3	1.97	NITRITE	9846.865	5602323	36821040	2	0.00
4	2.93	BROMIDE	36236.303	11808633	92783183	2	1.15
5	3.37	NITRATE	12397.965	4709472	39832993	2	3.06
6	4.90	PHOSPHATE	10992.961	1324119	17269320	1	-0.68
7	6.60	SULFATE	12484.949	3384272	51197592	1	1.54
8	8.67	OXALATE	11367.788	1600531	32095120	1	1.56
Totals			96616.643	31455191	289771551		

File: 95112501.D09 Sample: S95T002986S.1>10/.5>10

LABCORE Completed Worklist Report for Worklist# 3656

Analyst: eal

Instrument: IC01

Book# 10909E

Method: LA-523705 Rev/Mod D-1

Worklist Comment: B204, Bromide required, rest extra. 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	3.68e-01	0.370	ug/mL
1 CCB		0	@IC-QC PO4	QC	1	<2.96e-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	59	6.38e+01	108.140	% Recovery
2 CCV		0	@IC-QC CL	QC	79	7.53e+01	95.320	% Recovery
2 CCV		0	@IC-QC NO2	QC	536	4.93e+02	91.980	% Recovery
2 CCV		0	@IC-QC BR	QC	575	5.55e+02	96.520	% Recovery
2 CCV		0	@IC-QC NO3	QC	614	5.97e+02	97.230	% Recovery
2 CCV		0	@IC-QC PO4	QC	546	5.00e+02	91.580	% Recovery
2 CCV		0	@IC-QC SO4	QC	631	6.02e+02	95.400	% Recovery
2 CCV		0	@IC-QC OXALATE2	QC	526	5.30e+02	100.760	% Recovery
3 SAMPLE	S95T003255	0	@IC-01 F-02	LIQUID	N/A	6.098e+03	27.570	ug/mL
3 SAMPLE	S95T003255	0	@IC-01 CL-02	LIQUID	N/A	5.561e+02	36.060	ug/mL
3 SAMPLE	S95T003255	0	@IC-01 NO2-02	LIQUID	N/A	1.720e+03	226.900	ug/mL
3 SAMPLE	S95T003255	0	@IC-01 BR-02	LIQUID	N/A	2.672e+02	267.200	ug/mL
3 SAMPLE	S95T003255	0	@IC-01 NO3-02	LIQUID	N/A	4.731e+04	296.900	ug/mL
3 SAMPLE	S95T003255	0	@IC-01 PO4-02	LIQUID	N/A	1.911e+03	627.800	ug/mL
3 SAMPLE	S95T003255	0	@IC-01 SO4-02	LIQUID	N/A	6.351e+02	288.500	ug/mL
3 SAMPLE	S95T003255	0	@IC-01 OXALATE2	LIQUID	N/A	2.227e+02	222.700	ug/mL
4 DUP	S95T003255	0	@IC-01 F-02	LIQUID	6.10e+03	5.63e+03	8.010	RPD
4 DUP	S95T003255	0	@IC-01 CL-02	LIQUID	5.56e+02	5.22e+02	6.310	RPD
4 DUP	S95T003255	0	@IC-01 NO2-02	LIQUID	1.72e+03	1.63e+03	5.370	RPD
4 DUP	S95T003255	0	@IC-01 BR-02	LIQUID	<2.67e2	<2.67e2		RPD
4 DUP	S95T003255	0	@IC-01 NO3-02	LIQUID	4.73e+04	4.42e+04	6.780	RPD
4 DUP	S95T003255	0	@IC-01 PO4-02	LIQUID	1.91e+03	1.89e+03	1.050	RPD
4 DUP	S95T003255	0	@IC-01 SO4-02	LIQUID	6.35e+02	6.09e+02	4.180	RPD
4 DUP	S95T003255	0	@IC-01 OXALATE2	LIQUID	<2.23e2	<2.23e2		RPD
5 SPK	S95T003255	0	@IC-01 F-02	LIQUID	59	42.656	72.300	% Recovery
5 SPK	S95T003255	0	@IC-01 CL-02	LIQUID	79	79.890	101.130	% Recovery
5 SPK	S95T003255	0	@IC-01 NO2-02	LIQUID	536	494.007	92.170	% Recovery
5 SPK	S95T003255	0	@IC-01 BR-02	LIQUID	575	559.350	97.280	% Recovery
5 SPK	S95T003255	0	@IC-01 NO3-02	LIQUID	614	563.582	91.790	% Recovery
5 SPK	S95T003255	0	@IC-01 PO4-02	LIQUID	546	<6.28e2		% Recovery
5 SPK	S95T003255	0	@IC-01 SO4-02	LIQUID	631	592.261	93.860	% Recovery
5 SPK	S95T003255	0	@IC-01 OXALATE2	LIQUID	526	534.600	101.630	% Recovery
6 SAMPLE	S95T003349	0	@IC-01 F-02	LIQUID	N/A	1.430e-01	0.143	ug/mL

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 3656

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SAMPLE	S95T003349	0		@IC-01	CL-02	LIQUID	N/A	4.960e-01	0.187 ug/mL
6 SAMPLE	S95T003349	0		@IC-01	NO2-02	LIQUID	N/A	1.177e+00	1.177 ug/mL
6 SAMPLE	S95T003349	0		@IC-01	BR-02	LIQUID	N/A	1.386e+00	1.386 ug/mL
6 SAMPLE	S95T003349	0		@IC-01	NO3-02	LIQUID	N/A	4.597e+00	1.540 ug/mL
6 SAMPLE	S95T003349	0		@IC-01	PO4-02	LIQUID	N/A	3.256e+00	3.256 ug/mL
6 SAMPLE	S95T003349	0		@IC-01	SO4-02	LIQUID	N/A	1.688e+00	1.496 ug/mL
6 SAMPLE	S95T003349	0		@IC-01	OXALATE2	LIQUID	N/A	1.155e+00	1.155 ug/mL
7 DUP	S95T003349	0		@IC-01	F-02	LIQUID	<1.43e-1	<1.43e-1	RPD
7 DUP	S95T003349	0		@IC-01	CL-02	LIQUID	4.96e-01	3.84e-01	25.450 RPD
7 DUP	S95T003349	0		@IC-01	NO2-02	LIQUID	<1.18e0	<1.18e0	RPD
7 DUP	S95T003349	0		@IC-01	BR-02	LIQUID	<1.39e0	<1.39e0	RPD
7 DUP	S95T003349	0		@IC-01	NO3-02	LIQUID	4.60e+00	4.52e+00	1.750 RPD
7 DUP	S95T003349	0		@IC-01	PO4-02	LIQUID	<3.26e0	<3.26e0	RPD
7 DUP	S95T003349	0		@IC-01	SO4-02	LIQUID	1.69e+00	1.78e+00	5.190 RPD
7 DUP	S95T003349	0		@IC-01	OXALATE2	LIQUID	<1.16e0	<1.16e0	RPD

Final page for worklist# 3656

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature James J. [Signature] Date 12/4/95

LABCORE Completed Worklist Report for Worklist# 3656

Analyst: EAL Instrument: IC01 Book# 109109E

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B204, Bromide required, rest extra. JMF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
3 SAMPLE	S95T003255	0	@IC-01 F-02	LIQUID	N/A	6.098e+03	27.570	ug/mL
3 REJECT	S95T003255	0	@IC-01 F-02	LIQUID	N/A	6.098e+03		ug/mL
3 SAMPLE	S95T003255	0	@IC-01 CL-02	LIQUID	N/A	5.561e+02	36.060	ug/mL
3 REJECT	S95T003255	0	@IC-01 CL-02	LIQUID	N/A	5.561e+02		ug/mL
3 SAMPLE	S95T003255	0	@IC-01 NO2-02	LIQUID	N/A	1.720e+03	226.900	ug/mL
3 REJECT	S95T003255	0	@IC-01 NO2-02	LIQUID	N/A	1.720e+03		ug/mL
3 SAMPLE	S95T003255	0	@IC-01 BR-02	LIQUID	N/A	2.672e+02	267.200	ug/mL
3 REJECT	S95T003255	0	@IC-01 BR-02	LIQUID	N/A	2.672e+02		ug/mL
3 SAMPLE	S95T003255	0	@IC-01 NO3-02	LIQUID	N/A	4.731e+04	296.900	ug/mL
3 REJECT	S95T003255	0	@IC-01 NO3-02	LIQUID	N/A	4.731e+04		ug/mL
3 SAMPLE	S95T003255	0	@IC-01 PO4-02	LIQUID	N/A	1.911e+03	627.800	ug/mL
3 REJECT	S95T003255	0	@IC-01 PO4-02	LIQUID	N/A	1.911e+03		ug/mL
3 SAMPLE	S95T003255	0	@IC-01 SO4-02	LIQUID	N/A	6.351e+02	288.500	ug/mL
3 REJECT	S95T003255	0	@IC-01 SO4-02	LIQUID	N/A	6.351e+02		ug/mL
3 SAMPLE	S95T003255	0	@IC-01 OXALATE2	LIQUID	N/A	2.227e+02	222.700	ug/mL
3 REJECT	S95T003255	0	@IC-01 OXALATE2	LIQUID	N/A	2.227e+02		ug/mL
4 DUP	S95T003255	0	@IC-01 F-02	LIQUID	6.10e+03	5.63e+03	8.010	RPD
4 DUP	S95T003255	0	@IC-01 CL-02	LIQUID	5.56e+02	5.22e+02	6.310	RPD
4 DUP	S95T003255	0	@IC-01 NO2-02	LIQUID	1.72e+03	1.63e+03	5.370	RPD
4 DUP	S95T003255	0	@IC-01 BR-02	LIQUID	<2.67e2	<2.67e2		RPD
4 DUP	S95T003255	0	@IC-01 NO3-02	LIQUID	4.73e+04	4.42e+04	6.780	RPD
4 DUP	S95T003255	0	@IC-01 PO4-02	LIQUID	1.91e+03	1.89e+03	1.050	RPD
4 DUP	S95T003255	0	@IC-01 SO4-02	LIQUID	6.35e+02	6.09e+02	4.180	RPD
4 DUP	S95T003255	0	@IC-01 OXALATE2	LIQUID	<2.23e2	<2.23e2		RPD
5 SPK	S95T003255	0	@IC-01 F-02	LIQUID	59	42.656	72.300	% Recovery
5 SPK	S95T003255	0	@IC-01 CL-02	LIQUID	79	79.890	101.130	% Recovery
5 SPK	S95T003255	0	@IC-01 NO2-02	LIQUID	536	494.007	92.170	% Recovery
5 SPK	S95T003255	0	@IC-01 BR-02	LIQUID	575	559.350	97.280	% Recovery
5 SPK	S95T003255	0	@IC-01 NO3-02	LIQUID	614	563.582	91.790	% Recovery
5 SPK	S95T003255	0	@IC-01 PO4-02	LIQUID	100	88.36e2	88.360	% Recovery
5 SPK	S95T003255	0	@IC-01 PO4-02	LIQUID	546	<6.28e2		% Recovery
5 SPK	S95T003255	0	@IC-01 SO4-02	LIQUID	631	592.261	93.860	% Recovery
5 SPK	S95T003255	0	@IC-01 OXALATE2	LIQUID	526	534.600	101.630	% Recovery
6 SAMPLE	S95T003349	0	@IC-01 F-02	LIQUID	N/A	1.430e-01	0.143	ug/mL
6 REJECT	S95T003349	0	@IC-01 F-02	LIQUID	N/A	1.430e-01		ug/mL
6 SAMPLE	S95T003349	0	@IC-01 CL-02	LIQUID	N/A	4.960e-01	0.187	ug/mL
6 REJECT	S95T003349	0	@IC-01 CL-02	LIQUID	N/A	4.960e-01		ug/mL
6 SAMPLE	S95T003349	0	@IC-01 NO2-02	LIQUID	N/A	1.177e+00	1.177	ug/mL
6 REJECT	S95T003349	0	@IC-01 NO2-02	LIQUID	N/A	1.177e+00		ug/mL
6 SAMPLE	S95T003349	0	@IC-01 BR-02	LIQUID	N/A	1.386e+00	1.386	ug/mL
6 REJECT	S95T003349	0	@IC-01 BR-02	LIQUID	N/A	1.386e+00		ug/mL

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 3656

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SAMPLE	S95T003349	0	@IC-01 NO3-02	LIQUID	N/A	4.597e+00	1.540	ug/mL
6 REJECT	S95T003349	0	@IC-01 NO3-02	LIQUID	N/A	4.597e+00		ug/mL
6 SAMPLE	S95T003349	0	@IC-01 PO4-02	LIQUID	N/A	3.256e+00	3.256	ug/mL
6 REJECT	S95T003349	0	@IC-01 PO4-02	LIQUID	N/A	3.256e+00		ug/mL
6 SAMPLE	S95T003349	0	@IC-01 SO4-02	LIQUID	N/A	1.688e+00	1.496	ug/mL
6 REJECT	S95T003349	0	@IC-01 SO4-02	LIQUID	N/A	1.688e+00		ug/mL
6 SAMPLE	S95T003349	0	@IC-01 OXALATE2	LIQUID	N/A	1.155e+00	1.155	ug/mL
6 REJECT	S95T003349	0	@IC-01 OXALATE2	LIQUID	N/A	1.155e+00		ug/mL
7 DUP	S95T003349	0	@IC-01 F-02	LIQUID	<1.43e-1	<1.43e-1		RPD
7 DUP	S95T003349	0	@IC-01 CL-02	LIQUID	4.96e-01	3.84e-01	25.450	RPD
7 DUP	S95T003349	0	@IC-01 NO2-02	LIQUID	<1.18e0	<1.18e0		RPD
7 DUP	S95T003349	0	@IC-01 BR-02	LIQUID	<1.39e0	<1.39e0		RPD
7 DUP	S95T003349	0	@IC-01 NO3-02	LIQUID	4.60e+00	4.52e+00	1.750	RPD
7 DUP	S95T003349	0	@IC-01 PO4-02	LIQUID	<3.26e0	<3.26e0		RPD
7 DUP	S95T003349	0	@IC-01 SO4-02	LIQUID	1.69e+00	1.78e+00	5.190	RPD
7 DUP	S95T003349	0	@IC-01 OXALATE2	LIQUID	<1.16e0	<1.16e0		RPD

Final page for worklist# 3656

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

[Signature]
Reviewer Signature _____ Date *11/30/95*

LABCORE Data Entry Template for Worklist#

3656

Analyst: EAL

Instrument: IC01

Book # 109N9-E

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B204, Bromide required, rest extra. JMF *Direct liquid, dilute lots to skirt 4, adjust (5/11/95, 10/20/95) JMF*

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 CCB			@IC-QC F	QC	1	<.013	N/A	ug/mL
		1 CCB			@IC-QC CL	QC	1	<.017	N/A	ug/mL
		1 CCB			@IC-QC NO2	QC	1	<.170 2.120	N/A	ug/mL
		1 CCB			@IC-QC BR	QC	1	<.140	N/A	ug/mL
		1 CCB			@IC-QC NO3	QC	1	<.140	N/A	ug/mL
		1 CCB			@IC-QC PO4	QC	1	<.296	N/A	ug/mL
		1 CCB			@IC-QC SO4	QC	1	<.136	N/A	ug/mL
		1 CCB			@IC-QC OXALATE2	QC	1	<.105	N/A	ug/mL
		2 CCV			@IC-QC F	QC	59	63.8	N/A	ug/mL
		2 CCV			@IC-QC CL	QC	79	75.3	N/A	ug/mL
		2 CCV			@IC-QC NO2	QC	536	492.6 554.8	N/A	ug/mL
		2 CCV			@IC-QC BR	QC	575	577.2	N/A	ug/mL
		2 CCV			@IC-QC NO3	QC	614	597.2	N/A	ug/mL
		2 CCV			@IC-QC PO4	QC	546	500.1	N/A	ug/mL
		2 CCV			@IC-QC SO4	QC	631	601.7	N/A	ug/mL
		2 CCV			@IC-QC OXALATE2	QC	526	530.0	N/A	ug/mL
95000161	B-204	3 SAMPLE	S95T003255	0	@IC-01 F-02	LIQUID	N/A	6.10 E3 E1	2.75	ug/mL
95000161	B-204	3 SAMPLE	S95T003255	0	@IC-01 CL-02	LIQUID	N/A	5.56 E2 E1	3.61	ug/mL

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#

3656

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	3 SAMPLE	S95T003255	0	@IC-01 NO2-02	LIQUID	N/A	^{E3} 1.72	^{E2} 3.67	ug/mL
95000161	B-204	3 SAMPLE	S95T003255	0	@IC-01 BR-02	LIQUID	N/A	^{E2} 267.25	^{E2} 2.67	ug/mL
95000161	B-204	3 SAMPLE	S95T003255	0	@IC-01 NO3-02	LIQUID	N/A	^{E4} 4.73	^{E2} 2.97	ug/mL
95000161	B-204	3 SAMPLE	S95T003255	0	@IC-01 PO4-02	LIQUID	N/A	^{E3} 1.91	^{E2} 6.25	ug/mL
95000161	B-204	3 SAMPLE	S95T003255	0	@IC-01 SO4-02	LIQUID	N/A	^{E2} 6.35	^{E2} 2.85	ug/mL
95000161	B-204	3 SAMPLE	S95T003255	0	@IC-01 OXALATE2	LIQUID	N/A	^{E2} 222.71	^{E2} 2.23	ug/mL
95000161	B-204	4 DUP	S95T003255	0	@IC-01 F-02	LIQUID	^{E3} 6.10	^{E3} 5.63	N/A	ug/mL
95000161	B-204	4 DUP	S95T003255	0	@IC-01 CL-02	LIQUID	^{E2} 5.56	^{E2} 5.22	N/A	ug/mL
95000161	B-204	4 DUP	S95T003255	0	@IC-01 NO2-02	LIQUID	^{E3} 1.72	^{E3} 1.63	N/A	ug/mL
95000161	B-204	4 DUP	S95T003255	0	@IC-01 BR-02	LIQUID	267.25	267.25	N/A	ug/mL
95000161	B-204	4 DUP	S95T003255	0	@IC-01 NO3-02	LIQUID	^{E4} 4.73	^{E4} 4.42	N/A	ug/mL
95000161	B-204	4 DUP	S95T003255	0	@IC-01 PO4-02	LIQUID	^{E3} 1.91	^{E3} 1.89	N/A	ug/mL
95000161	B-204	4 DUP	S95T003255	0	@IC-01 SO4-02	LIQUID	^{E2} 6.35	^{E2} 6.09	N/A	ug/mL
95000161	B-204	4 DUP	S95T003255	0	@IC-01 OXALATE2	LIQUID	222.71	222.71	N/A	ug/mL
95000161	B-204	5 SPK	S95T003255	0	@IC-01 F-02	LIQUID	100	64.7	N/A	ug/mL
95000161	B-204	5 SPK	S95T003255	0	@IC-01 CL-02	LIQUID	100	97.1	N/A	ug/mL
95000161	B-204	5 SPK	S95T003255	0	@IC-01 NO2-02	LIQUID	100	88.5	N/A	ug/mL
95000161	B-204	5 SPK	S95T003255	0	@IC-01 BR-02	LIQUID	100	93.7	N/A	ug/mL
95000161	B-204	5 SPK	S95T003255	0	@IC-01 NO3-02	LIQUID	100	88.2	N/A	ug/mL
95000161	B-204	5 SPK	S95T003255	0	@IC-01 PO4-02	LIQUID	100	87.1	N/A	ug/mL
95000161	B-204	5 SPK	S95T003255	0	@IC-01 SO4-02	LIQUID	100	90.0	N/A	ug/mL

gm
11/30/95

Data Entry Comments:

Jan. I believe that's as far as we can go without tweaking the column. Ann

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#

3656

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	5 SPK	S95T003255	0	QIC-01 OXALATE2	LIQUID	100	42.9	N/A	ug/mL
95000161	B-204	6 SAMPLE	S95T003349	0	QIC-01 F-02	LIQUID	N/A	21.57	2.16	ug/mL
95000161	B-204	6 SAMPLE	S95T003349	0	QIC-01 CL-02	LIQUID	N/A	4.96	3.61	ug/mL
95000161	B-204	6 SAMPLE	S95T003349	0	QIC-01 NO2-02	LIQUID	N/A	360.57	3.61	ug/mL
95000161	B-204	6 SAMPLE	S95T003349	0	QIC-01 BR-02	LIQUID	N/A	267.25	2.67	ug/mL
95000161	B-204	6 SAMPLE	S95T003349	0	QIC-01 NO3-02	LIQUID	N/A	296.94	2.97	ug/mL
95000161	B-204	6 SAMPLE	S95T003349	0	QIC-01 PO4-02	LIQUID	N/A	627.82	6.28	ug/mL
95000161	B-204	6 SAMPLE	S95T003349	0	QIC-01 SO4-02	LIQUID	N/A	288.46	2.88	ug/mL
95000161	B-204	6 SAMPLE	S95T003349	0	QIC-01 OXALATE2	LIQUID	N/A	222.71	2.22	ug/mL
95000161	B-204	7 DUP	S95T003349	0	QIC-01 F-02	LIQUID	27.57	27.57	N/A	ug/mL
95000161	B-204	7 DUP	S95T003349	0	QIC-01 CL-02	LIQUID	4.96	3.84	N/A	ug/mL
95000161	B-204	7 DUP	S95T003349	0	QIC-01 NO2-02	LIQUID	360.57	360.57	N/A	ug/mL
95000161	B-204	7 DUP	S95T003349	0	QIC-01 BR-02	LIQUID	267.25	267.25	N/A	ug/mL
95000161	B-204	7 DUP	S95T003349	0	QIC-01 NO3-02	LIQUID	296.94	296.94	N/A	ug/mL
95000161	B-204	7 DUP	S95T003349	0	QIC-01 PO4-02	LIQUID	627.82	627.82	N/A	ug/mL
95000161	B-204	7 DUP	S95T003349	0	QIC-01 SO4-02	LIQUID	288.46	288.46	N/A	ug/mL
95000161	B-204	7 DUP	S95T003349	0	QIC-01 OXALATE2	LIQUID	222.71	222.71	N/A	ug/mL

Final page for worklist #

3656

A. Ann Lambert 11-25-95
Analyst Signature Date

Analyst Signature Date

PO4 spike miscalculated in upload & was corrected in QC edit. $(11893.4 - 1910)(10.25) \times 100 = 88.36\%$

uploaded 11/30/95 JMF up
Data Entry Comments: Dilution factor of 11 was chosen under mgmt direction. THE DIRECT SAMPLE SHOWS 8 Br. Ann

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				30-Nov-95			
Worklist#: 3656				Data File: 3656NOV.CSV							
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-			95112201.d09	BLANK	1.00	
	=>	2	CCV					95112201.d10	109N9-E STD/ .1>	101.00	
	=>	3	SAMPLE	S95T003255				95112201.d11	109N9-E STD/ .1>	101.00	
	=>	4	DUP	S95T003255		2		95112201.d12	109N9-E STD/ .1>	101.00	
	=>	5	SPK	S95T003255				95112201.d14	S95T003255 .1>1	10201.00	
	=>	6	SAMPLE	S95T003349				95112201.d15	S95T003255 .1>1	5151.00	
	=>	7	DUP	S95T003349		3		95112201.d16	S95T003255 .1>1	2121.00	
								95112201.d17	S95T003255 .1>1	51.00	
						4		95112201.d18	S95T003255D .1>1	2121.00	
						5		95112201.d19	S95T003255S.1>10	2121.00	
								95112201.d21	S95T003349 .1>10	101.00	
						6		95112201.d22	S95T003349 1.>10	11.00	
								95112201.d23	S95T003349	1.00	
						7		95112201.d24	S95T003349	11.00	
+					+			95112201.d25	S95T003349 SPIKE	11.00	

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

WESTINGHOUSE HANFORD COMPANY
222-S LABORATORY
INORGANIC ANALYTICAL BATCH AND SUMMARY SHEET
ANION ANALYSIS ON DIONEX

SAMPLE #:	S95T003255 & S95T003349	ANALYST:	EA LAMBEL
TEST CODE:	@IC-01	ANALYSIS DATE:	11/25/95
INSTRUMENT:	IC01	SAMPLE POINT:	HERTING
WORK LIST #:	3656	SAMPLE PREP:	DIRECT
BATCH ID:	N/A		

Result Units	µg/mL	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
109N9-E		108.2%	95.3%	91.9%	97.3%	91.6%	95.4%	96.5%	100.8%
S95T003255		6.10E+03	5.56E+02	1.72E+03	4.73E+04	1.91E+03	6.35E+02	<267.25	<222.71
S95T003255		5.63E+03	5.22E+02	1.63E+03	4.42E+04	1.89E+03	6.09E+02	<267.25	<222.71
Duplicate 1 RPD		8.0%	6.4%	5.4%	6.8%	0.9%	4.2%	N/A	N/A
S95T003349		<27.57	4.96E-01	<360.57	<296.94	<627.82	<288.46	<267.25	<222.71
S95T003349		<27.57	3.84E-01	<360.57	<296.94	<627.82	<288.46	<267.25	<222.71
Duplicate 2 RPD		N/A	25.5%	N/A	N/A	N/A	N/A	N/A	N/A
S95T003255	WRONG #	69.7%	97.1%	88.5%	88.2%	87.1%	90.0%	93.7%	97.9%

NARRATIVE: **Analyst Comments:**

Chemist Comments:

Form Completed By: <i>Sharon L. Lambel</i>	Date: <i>11/27/95</i>
Chemist Approval: <i>JM Faye</i>	Date: <i>11/30/95</i>

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LAB LEADER INFO	
Method:	LA-633-105
Matrix:	LIQUID
Test Code:	@IC-01
Work List #:	3656
Batch #:	N/A
Result Units	
(µg/g or µg/mL):	µg/mL
Spike Book Number:	109N9-E
Spike Sample #:	1
Prepared By:	SL HOLDEN
Prepared Date:	11/27/95
Chemist:	JANN FRYE
Analyst:	EA LAMBEL
Analysis Date:	11/25/95
Time Complete:	04:54 AM
Instrument Code:	IC01
Rerun:	0
Sample Prep:	DIRECT
Sample Point:	HERTING
Sample Type	
STANDARD	109N9-E
SAMPLE 1	S95T003255
DUPLICATE 1	S95T003255
SAMPLE 2	S95T003349
DUPLICATE 2	S95T003349
SAMPLE 3	
DUPLICATE 3	
SAMPLE 4	
DUPLICATE 4	
SPIKE	S95T003255
SPIKE DUPLICATE	

TECH INFO								
	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Blank Data (µg/mL)	< 0.13	< 0.17	< 170	< 140	< 296	< 136	< 126	< 105

Standard Data (µg/mL)	63.809	75.289	492.62	597.228	500.144	601.719	554.745	530.03
-----------------------	--------	--------	--------	---------	---------	---------	---------	--------

Sample 1 Data (µg/mL)	6.10E+03	5.56E+02	1.72E+03	4.73E+04	1.91E+03	6.35E+02	< 126	< 105
Sample 1 Dilution Factor	2121	2121	2121	2121	2121	2121	2121	2121
Sample 1 Prep DF	1	1	1	1	1	1	1	1
Duplicate 1 Data (µg/mL)	5.63E+03	5.22E+02	1.63E+03	4.42E+04	1.89E+03	6.09E+02	< 126	< 105
Duplicate 1 Dilution Factor	2121	2121	2121	2121	2121	2121	2121	2121
Duplicate 1 Prep DF	1	1	1	1	1	1	1	1

Sample 2 Data (µg/mL)	< 0.13	4.96E-01	< 170	< 140	< 296	< 136	< 126	< 105
Sample 2 Dilution Factor	2121	2121	2121	2121	2121	2121	2121	2121
Sample 2 Prep DF	1	1	1	1	1	1	1	1
Duplicate 2 Data (µg/mL)	< 0.13	3.84E-01	< 170	< 140	< 296	< 136	< 126	< 105
Duplicate 2 Dilution Factor	2121	2121	2121	2121	2121	2121	2121	2121
Duplicate 2 Prep DF	1	1	1	1	1	1	1	1

Sample 3 Data (µg/mL)								
Sample 3 Dilution Factor								
Sample 3 Prep DF								
Duplicate 3 Data (µg/mL)								
Duplicate 3 Dilution Factor								
Duplicate 3 Prep DF								

Sample 4 Data (µg/mL)								
Sample 4 Dilution Factor								
Sample 4 Prep DF								
Duplicate 4 Data (µg/mL)								
Duplicate 4 Dilution Factor								
Duplicate 4 Prep DF								

Spike + Sample 1 (µg/mL)	6.96E+03	2.17E+03	1.17E+04	5.87E+04	1.19E+04	1.26E+04	1.13E+04	1.08E+04
Spike + Dup 1 (µg/mL)								

Spike Volume (mL)	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01	1.00E-01
Total Volume (mL)	10.10	10.10	10.10	10.10	10.10	10.10	10.10	10.10
Std. Conc. (µg/mL)	59	79	536	614	548	631	575	528
Detection Limit	0.013	0.017	0.170	0.140	0.296	0.136	0.126	0.105
Matrix Detection Limit 1	2.76E+01	3.61E+01	3.61E+02	2.97E+02	6.28E+02	2.80E+02	2.67E+02	2.23E+02
Matrix Detection Limit 2	2.76E+01	3.61E+01	3.61E+02	2.97E+02	6.28E+02	2.80E+02	2.67E+02	2.23E+02
Matrix Detection Limit 3	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Matrix Detection Limit 4	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00

Spike Recovery = $\frac{((\text{Spike} + \text{Sample}) - (\text{Sample})) \times (\text{Total Volume})}{((\text{Spike Vol.}) \times (\text{Spike Std.}) \times (\text{Sample DF}))} \times 100\%$

Note: (For spike recovery when the sample conc. is less than detection limit you do NOT subtract sample conc.)

Duplicate Relative % Difference = $\frac{((\text{Sample} - \text{Duplicate}))}{((\text{Sample} + \text{Duplicate}) / 2)} \times 100\%$

Less than Values are Calculated from the Detection Limit * Dilution Factor

v RESULTS v	Fluoride	Chloride	Nitrite	Nitrate	Phosphate	Sulfate	Bromide	Oxalate
Standard % Recovery	108.2%	95.3%	91.9%	97.3%	91.6%	95.4%	98.5%	100.6%
Sample 1 In µg/mL	6.10E+03	5.56E+02	1.72E+03	4.73E+04	1.91E+03	6.35E+02	< 267.25	< 222.71
Duplicate 1 In µg/mL	5.63E+03	5.22E+02	1.63E+03	4.42E+04	1.89E+03	6.09E+02	< 267.25	< 222.71
Duplicate 1 RPD	8.0%	6.4%	5.4%	6.8%	0.9%	4.2%	N/A	N/A
Sample 2 In µg/mL	< 27.57	4.96E-01	< 360.57	< 296.94	< 627.82	< 289.46	< 267.25	< 222.71
Duplicate 2 In µg/mL	< 27.57	3.84E-01	< 360.57	< 296.94	< 627.82	< 289.46	< 267.25	< 222.71
Duplicate 2 RPD	N/A	25.6%	N/A	N/A	N/A	N/A	N/A	N/A
Spike % Recovery	69.7%	97.1%	88.5%	88.2%	87.1%	80.0%	93.7%	97.9%

Data Entry by: <i>SKL</i>	Date: 11/27/95
Approved by: <i>JM Frye</i>	Date: <i>1/30/95</i>
Form DIONEX-WB1 Rev. 1.3	

```

=====
Sample Name:  BLANK          DIRECT          Date: 11/24/1995 19:50:41
Data File   :  C:\DX\DATA\95112201.D02
Method      :  C:\DX\METHOD\KIT.MET
ACI Address :  1   System: 1   Inject#: 2       Detector: CDM-1
Analyst     :  E. A. Lambert   Column: AG4A/AS4A anion column/SRS
=====

```

```

=====
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	1.40		0.000	50	269	1	
2	3.17	nitrate	0.368	42	295	1	-2.16
Totals			0.368	92	565		

File: 95112201.D02 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 338 TO 351.

```

=====
Sample Name: BLANK DIRECT Date: 11/24/1995 23:32:57
Data File : C:\DX\DATA\95112201.D09
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS
=====

```

```

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	1.43		0.000	54	281	1	
2	3.19	nitrate	0.478	128	954	1	-1.54
Totals			0.478	182	1235		

File: 95112201.D09 Sample: BLANK

```

=====
Sample Name: 109N9-E STD/.1>10      Date: 11/25/1995 00:11:21
Data File  : C:\DX\DATA\95112201.D12
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 12      Detector: CDM-1
Analyst    : [Signature] Column: AG4A/AS4A anion column/SRS
=====
  
```

```

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	1.03	fluoride	63.809	1420	8850	1	-0.96
2	1.54	chloride	75.288	1363	7342	1	-1.91
3	1.85	nitrite	492.620	5328	32286	1	-3.65
4	2.75	bromide	554.745	3566	24373	1	-2.14
5	3.13	nitrate	597.228	4244	33998	1	-3.40
6	4.52	phosphate	500.144	1084	14046	1	-5.64
7	5.94	sulfate	601.719	3425	46024	1	-2.46
8	7.79	oxalate	530.030	1490	26163	1	-6.82
Totals			3415.583	21919	193083		

File: 95112201.D12 Sample: 109N9-E STD/.1>10

```

=====
Sample Name: S95T003255 .1>10 X2      Date: 11/25/1995 01:44:57
Data File  : C:\DX\DATA\95112201.D14
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 2 Inject#: 14      Detector: CDM-1
Analyst    :      Column: AG4A/AS4A anion column/SRS
=====

```

```

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	1.05	fluoride	5768.955	1353	7884	1	0.96
2	1.56	chloride	412.883	109	588	1	-0.64
3	1.87	nitrite	3342.960	124	749	1	-2.60
4	3.16	nitrate	42972.977	2953	23576	1	-2.47
5	4.55	phosphate	3169.692	33	384	1	-5.01
6	5.98	sulfate	1598.194	30	336	1	-1.81
7	7.98	oxalate	16381.179	217	7267	1	-4.55
Totals			73646.839	4818	40785		

File: 95112201.D14 Sample: S95T003255 .1>10 X2

```

=====
Sample Name: S95T003255 .1>10/1.>10      Date: 11/25/1995 02:39:56
Data File  : C:\DX\DATA\95112201.D17
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 17      Detector: CDM-1
Analyst    :                          Column: AG4A/AS4A anion column/SRS
=====
  
```

```

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	0.90		0.000	62	241	2	
2	1.05	fluoride	275.146	15847	85018	2	0.96
3	1.56	chloride	26.234	926	5112	1	-0.64
4	1.86	nitrite	69.875	1220	7949	1	-3.12
6	3.06	nitrate	2222.224	29416	289010	1	-5.56
7	4.54	phosphate	83.441	333	4247	1	-5.22
8	5.99	sulfate	22.543	194	2550	1	-1.64
Totals			2699.463	47996	394127		

File: 95112201.D17 Sample: S95T003255 .1>10/1.>10

```

=====
Sample Name: S95T003255 .1>10/.2>10      Date: 11/25/1995 02:01:36
Data File  : C:\DX\DATA\95112201.D15
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 15      Detector: CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
=====
  
```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          5151   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	1.05	fluoride	6161.736	2962	17165	1	0.96
2	1.56	chloride	533.514	217	1186	1	-0.64
3	1.86	nitrite	2345.949	258	1631	1	-3.12
4	3.14	nitrate	46255.285	6359	52992	1	-3.09
5	4.54	phosphate	2288.514	66	772	1	-5.22
6	5.99	sulfate	1244.316	78	994	1	-1.64
Totals			58829.315	9939	74740		

File: 95112201.D15 Sample: S95T003255 .1>10/.2>10

```

=====
Sample Name: S95T003255 .1>10/.5>10      Date: 11/25/1995 02:18:50
Data File  : C:\DX\DATA\95112201.D16
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 16      Detector: CDM-1
Analyst    :                      Column: AG4A/AS4A anion column/SRS
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1       2121   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	1.05	fluoride	6098.262	7742	42916	1	0.96
2	1.56	chloride	556.062	492	2696	1	-0.64
3	1.86	nitrite	1720.060	637	4085	1	-3.12
4	3.10	nitrate	47314.521	15444	138790	1	-4.32
5	4.55	phosphate	1910.785	170	2100	1	-5.01
6	5.99	sulfate	635.135	113	1443	1	-1.64
Totals			58234.826	24598	192031		

File: 95112201.D16 Sample: S95T003255 .1>10/.5>10

```

=====
Sample Name: S95T003255D .1>10/.5>10      Date: 11/25/1995 03:00:35
Data File  : C:\DX\DATA\95112201.D18
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 18      Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         2121   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	1.04	fluoride	5631.818	7299	39449	1	0.00
2	1.54	chloride	521.532	462	2541	1	-1.91
3	1.85	nitrite	1629.584	613	3791	1	-3.65
4	3.08	nitrate	44192.605	14527	129036	1	-4.94
5	4.53	phosphate	1893.821	164	2077	1	-5.43
6	5.97	sulfate	608.807	102	1347	1	-1.97
Totals			54478.167	23167	178241		

File: 95112201.D18 Sample: S95T003255D .1>10/.5>10

Sample Name: S95T003255S.1>10/.5>10 Date: 11/25/1995 03:20:51
 Data File : C:\DX\DATA\95112201.D19
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 19 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column/SRS

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	2121	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	248	2	
2	1.05	fluoride	6961.944	9083	49415	2	0.96
3	1.56	chloride	2166.534	1788	10027	1	-0.64
4	1.86	nitrite	11686.592	5714	36694	1	-3.12
5	2.77	bromide	11310.249	3554	23620	1	-1.42
6	3.09	nitrate	58684.803	19071	174959	1	-4.63
7	4.53	phosphate	11893.490	1245	16007	1	-5.43
8	5.95	sulfate	12565.754	3411	45759	1	-2.30
9	7.80	oxalate	10811.053	1445	25376	1	-6.70
Totals			126080.418	45372	382106		

File: 95112201.D19 Sample: S95T003255S.1>10/.5>10

```

=====
Sample Name: S95T003349 .1>10      Date: 11/25/1995 03:49:45
Data File  : C:\DX\DATA\95112201.D21
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 21      Detector: CDM-1
Analyst    :                Column: AG4A/AS4A anion column/SRS
=====
  
```

```

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	1.16		0.000	18	260	1	
2	1.56	chloride	2.549	84	443	1	-0.64
3	3.20	nitrate	40.074	67	468	1	-1.23
Totals			42.622	168	1171		

File: 95112201.D21 Sample: S95T003349 .1>10

```

=====
Sample Name: S95T003349                               Date: 11/25/1995 04:14:05
Data File  : C:\DX\DATA\95112201.D23
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 23               Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column/SRS
=====
  
```

```

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	1.57	chloride	0.610	1139	6031	1	0.00
2	1.88	nitrite	0.307	107	603	1	-2.08
3	3.20	nitrate	1.038	573	4324	1	-1.23
4	5.99	sulfate	0.566	267	3514	1	-1.64
Totals			2.520	2086	14472		

File: 95112201.D23 Sample: S95T003349

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	3000	5Hz	0.00	10.00		200

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.26		0.000	16	257	1	
2	1.56	chloride	0.496	110	632	1	-0.64
3	3.19	nitrate	4.597	80	595	1	-1.54
4	5.99	sulfate	1.688	28	311	1	-1.64
Totals			6.782	234	1795

```

=====
Sample Name: S95T003349 TXP. 1ml to 10 Date: 11/25/1995 04:43:22
Data File : C:\DX\DATA\95112201.D24
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 24 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column/SRS
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 11 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	1.56	chloride	0.384	102	535	1	-0.64
2	3.20	nitrate	4.523	77	555	1	-1.23
3	5.98	sulfate	1.776	33	373	1	-1.81
Totals			6.684	212	1463		

File: 95112201.D24 Sample: S95T003349

```

=====
Sample Name: S95T003349 SPIKE                               Date: 11/25/1995 04:54:34
Data File  : C:\DX\DATA\95112201.D25
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 25                         Detector: CDM-1
Analyst    : [Signature] Column: AG4A/AS4A anion column/SRS
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11 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	1.04	fluoride	6.272	1326	7951	1	0.00
2	1.54	chloride	8.275	1349	7408	1	-1.91
3	1.85	nitrite	49.898	4846	29911	1	-3.65
4	2.76	bromide	55.615	3266	22320	1	-1.78
5	3.14	nitrate	61.115	3897	31802	1	-3.09
6	4.51	phosphate	49.204	985	12619	1	-5.85
7	5.93	sulfate	60.662	3145	42484	1	-2.63
8	7.78	oxalate	53.463	1361	24140	1	-6.94
Totals			344.504	20174	178637		

File: 95112201.D25 Sample: S95T003349 SPIKE

LABCORE Completed Worklist Report for Worklist# 4172

Analyst: eal

Instrument: IC01

Book# 1184117

Method: 104-03-23-765 Rev/Mod D: 1

Worklist Comment: B-204 IC FOR Br, BUT REPORT ALL IC'S DETECTED THAT PASS QC

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	59	6.36e+01	107.800 % Recovery
2	CCV		0		@IC-QC	CL	QC	79	8.04e+01	101.770 % Recovery
2	CCV		0		@IC-QC	NO2	QC	534	5.38e+02	100.750 % Recovery
2	CCV		0		@IC-QC	BR	QC	575	5.92e+02	102.960 % Recovery
2	CCV		0		@IC-QC	NO3	QC	614	6.34e+02	103.260 % Recovery
2	CCV		0		@IC-QC	PO4	QC	545	5.82e+02	106.790 % Recovery
2	CCV		0		@IC-QC	SO4	QC	631	6.39e+02	101.270 % Recovery
2	CCV		0		@IC-QC	OxALATE2	QC	525	5.37e+02	102.290 % 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	S95T002981	0	W	@IC-01	F-02	SOLID	N/A	6.474e+03	30.580 ug/g
4	SAMPLE	S95T002981	0	W	@IC-01	CL-02	SOLID	N/A	5.412e+02	39.980 ug/g
4	SAMPLE	S95T002981	0	W	@IC-01	NO2-02	SOLID	N/A	1.350e+03	251.600 ug/g
4	SAMPLE	S95T002981	0	W	@IC-01	BR-02	SOLID	N/A	1.507e+03	296.300 ug/g
4	SAMPLE	S95T002981	0	W	@IC-01	NO3-02	SOLID	N/A	4.064e+04	329.300 ug/g
4	SAMPLE	S95T002981	0	W	@IC-01	PO4-02	SOLID	N/A	2.842e+03	279.900 ug/g
4	SAMPLE	S95T002981	0	W	@IC-01	SO4-02	SOLID	N/A	6.589e+02	319.900 ug/g
4	SAMPLE	S95T002981	0	W	@IC-01	OxALATE2	SOLID	N/A	2.469e+02	246.900 ug/g
5	DUP	S95T002981	0	W	@IC-01	F-02	SOLID	6.47e+03	7.49e+03	14.610 RPD
5	DUP	S95T002981	0	W	@IC-01	CL-02	SOLID	5.41e+02	6.43e+02	17.230 RPD
5	DUP	S95T002981	0	W	@IC-01	NO2-02	SOLID	1.35e+03	1.54e+03	13.150 RPD
5	DUP	S95T002981	0	W	@IC-01	BR-02	SOLID	1.51e+03	1.73e+03	13.580 RPD
5	DUP	S95T002981	0	W	@IC-01	NO3-02	SOLID	4.06e+04	4.92e+04	19.150 RPD
5	DUP	S95T002981	0	W	@IC-01	PO4-02	SOLID	2.84e+03	3.05e+03	7.130 RPD
5	DUP	S95T002981	0	W	@IC-01	SO4-02	SOLID	6.59e+02	7.15e+02	8.150 RPD
5	DUP	S95T002981	0	W	@IC-01	OxALATE2	SOLID	<2.47e2	<2.37e2	RPD
6	SPK	S95T002981	0	W	@IC-01	F-02	SOLID	59	53.970	91.470 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4172

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T002981	0	W	@IC-01	CL-02	SOLID	79	80.840	102.330 % Recovery
6 SPK	S95T002981	0	W	@IC-01	NO2-02	SOLID	534	534.745	100.140 % Recovery
6 SPK	S95T002981	0	W	@IC-01	BR-02	SOLID	575	582.720	101.340 % Recovery
6 SPK	S95T002981	0	W	@IC-01	NO3-02	SOLID	614	620.460	101.050 % Recovery
6 SPK	S95T002981	0	W	@IC-01	PO4-02	SOLID	545	573.185	105.170 % Recovery
6 SPK	S95T002981	0	W	@IC-01	SO4-02	SOLID	631	630.590	99.940 % Recovery
6 SPK	S95T002981	0	W	@IC-01	OXALATE2	SOLID	525	540.000	102.860 % Recovery
7 SAMPLE	S95T003085	0	W	@IC-01	F-02	SOLID	N/A	3.532e+04	170.300 ug/g
7 SAMPLE	S95T003085	0	W	@IC-01	CL-02	SOLID	N/A	2.934e+03	222.700 ug/g
7 SAMPLE	S95T003085	0	W	@IC-01	NO2-02	SOLID	N/A	5.839e+03	1.402e+003 ug/g
7 SAMPLE	S95T003085	0	W	@IC-01	BR-02	SOLID	N/A	2.784e+03	1.651e+003 ug/g
7 SAMPLE	S95T003085	0	W	@IC-01	NO3-02	SOLID	N/A	2.456e+05	1.834e+003 ug/g
7 SAMPLE	S95T003085	0	W	@IC-01	PO4-02	SOLID	N/A	1.873e+04	1.559e+003 ug/g
7 SAMPLE	S95T003085	0	W	@IC-01	SO4-02	SOLID	N/A	3.759e+03	1.782e+003 ug/g
7 SAMPLE	S95T003085	0	W	@IC-01	OXALATE2	SOLID	N/A	4.681e+03	1.376e+003 ug/g
8 DUP	S95T003085	0	W	@IC-01	F-02	SOLID	3.53e+04	3.50e+04	0.850 RPD
8 DUP	S95T003085	0	W	@IC-01	CL-02	SOLID	2.93e+03	3.05e+03	4.010 RPD
8 DUP	S95T003085	0	W	@IC-01	NO2-02	SOLID	5.84e+03	5.96e+03	2.030 RPD
8 DUP	S95T003085	0	W	@IC-01	BR-02	SOLID	2.78e+03	2.90e+03	4.230 RPD
8 DUP	S95T003085	0	W	@IC-01	NO3-02	SOLID	2.46e+05	2.44e+05	0.820 RPD
8 DUP	S95T003085	0	W	@IC-01	PO4-02	SOLID	1.87e+04	1.82e+04	2.710 RPD
8 DUP	S95T003085	0	W	@IC-01	SO4-02	SOLID	3.76e+03	3.97e+03	5.430 RPD
8 DUP	S95T003085	0	W	@IC-01	OXALATE2	SOLID	4.68e+03	4.84e+03	3.360 RPD

Final page for worklist# 4172

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

LABCORE Data Entry Template for Worklist# 4172

Analyst: EL Instrument: IC01 IC01 Book# 118N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT ALL IC'S DETECTED THAT PASS QC

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	S95T002981 0 W	@IC-01	SOLID		95000158 B-204	
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T002981 0 W	@IC-01	SOLID			
6 SPK	S95T002981 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003085 0 W	@IC-01	SOLID		95000158 B-204	
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003085 0 W	@IC-01	SOLID			

Final page for worklist # 4172

A. Lambel
Analyst Signature Date 12-13-95

Analyst Signature Date

Uploaded 12/13/95
Jane M. Lutz

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				13-Dec-95	
Worklist#: 4172				Data File: 4172DEC.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	95121301.d01	BLANK		1.00
	=>	2	CCV		2	95121301.d02	118N9-A STD.		101.00
	=>	3	BLNK-PREP		3	95121301.d03	PREP. BLANK		1.00
	=>	4	SAMPLE			95121301.d04	S96T002981		101.00
	=>	5	DUP		4	95121301.d05	S96T002981		21.00
	=>	6	SPK		5	95121301.d06	S96T002981 DUP		21.00
	=>	7	SAMPLE		6	95121301.d07	S96T002981SPIKE		21.00
	=>	8	DUP		7	95121301.d08	S96T003085		101.00
			S95T002981		8	95121301.d09	S96T003085 DUP		101.00
			S95T002981						
			S95T002981						
			S95T002981						
			S95T003085						
			S95T003085						
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Sample Name: 118N9-A STD. Date: 12/13/1995 07:41:14
 Data File : C:\DX\DATA\95121301.D02
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
 Analyst : *A. Lambert* Column: AG4A/AS4A anion column

12-13-95

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	0.94		0.000	28	104	2	
2	1.07	fluoride	63.577	1343	8177	2	-0.31
3	1.60	chloride	80.403	1168	6939	1	0.63
4	1.91	nitrite	538.122	5092	32919	1	1.23
5	2.87	bromide	591.829	3200	23356	1	0.58
6	3.27	nitrate	633.538	3783	32356	1	-0.10
7	4.67	phosphate	582.238	1239	14887	1	0.57
8	6.19	sulfate	639.214	3210	44323	1	1.75
9	8.11	oxalate	537.216	1474	28044	1	1.33
Totals			3666.137	20537	191105		

File: 95121301.D02 Sample: 118N9-A STD.

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 356 TO 364.

```

=====
Sample Name: BLANK                               Date: 12/13/1995 07:13:09
Data File  : C:\DX\DATA\95121301.D01
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 1              Detector: CDM-1
Analyst    : A. Lambert 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		

File: 95121301.D01 Sample: BLANK

```

=====
Sample Name: PREP. BLANK                      Date: 12/13/1995 08:53:14
Data File  : C:\DX\DATA\95121301.D03
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1  System: 1  Inject#: 3          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
1	1.29		0.000	156	1793	1	
Totals			0.000	156	1793		

File: 95121301.D03 Sample: PREP. BLANK

```

=====
Sample Name: S96T002981                               Date: 12/13/1995 09:09:02
Data File  : C:\DX\DATA\95121301.D04
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 4                    Detector: CDM-1
Analyst    :                                           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	1.09	fluoride	55.124	1154	7077	1	1.56
2	1.61	chloride	4.528	71	395	1	1.47
3	1.92	nitrite	20.819	82	487	1	1.59
4	2.87	bromide	18.667	60	395	1	0.58
5	3.27	nitrate	336.074	2037	16731	1	-0.10
6	4.69	phosphate	27.611	44	504	1	1.15
Totals			462.823	3447	25589		

File: 95121301.D04 Sample: S96T002981

```

=====
Sample Name: S96T002981                      Date: 12/13/1995 09:26:15
Data File  : C:\DX\DATA\95121301.D05
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 5           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	fluoride	57.806	6293	37468	1	0.31
2	1.59	chloride	4.832	334	2000	1	0.21
3	1.90	nitrite	12.051	438	2801	1	0.53
4	2.83	bromide	13.456	316	2212	1	-0.58
5	3.19	nitrate	362.908	10471	92618	1	-2.55
6	4.69	phosphate	25.363	239	2920	1	1.15
7	6.24	sulfate	5.882	81	1064	1	2.63
Totals			482.298	18172	141082		

File: 95121301.D05 Sample: S96T002981

```

=====
Sample Name: S96T002981 DUP                      Date: 12/13/1995 09:41:45
Data File  : C:\DX\DATA\95121301.D06
Method     : C:\DX\METHOD\AUTOMEL.MET
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          21    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	1.07	fluoride	69.638	7584	45752	1	0.31
2	1.59	chloride	5.979	417	2474	1	0.21
3	1.90	nitrite	14.339	548	3487	1	0.53
4	2.83	bromide	16.073	393	2709	1	-0.58
5	3.17	nitrate	457.505	12888	118197	1	-2.96
6	4.69	phosphate	28.390	271	3294	1	1.15
7	6.24	sulfate	6.647	99	1321	1	2.63
Totals			598.572	22200	177233		

File: 95121301.D06 Sample: S96T002981 DUP

```

=====
Sample Name: S96T002981SPIKE                      Date: 12/13/1995 09:56:56
Data File  : C:\DX\DATA\95121301.D07
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 7                Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	fluoride	68.612	7414	45024	2	1.56
3	1.61	chloride	21.014	1462	8740	1	1.47
4	1.92	nitrite	119.266	5421	35160	1	1.59
5	2.85	bromide	129.834	3538	24686	1	-0.12
6	3.19	nitrate	486.552	13787	126167	1	-2.34
7	4.69	phosphate	140.480	1435	17354	1	1.15
8	6.19	sulfate	132.260	2899	44099	1	1.75
9	8.16	oxalate	108.088	1505	27125	1	2.00
Totals			1206.105	37461	328355		

File: 95121301.D07 Sample: S96T002981SPIKE

```

=====
Sample Name: S96T003085                      Date: 12/13/1995 10:14:14
Data File  : C:\DX\DATA\95121301.D08
Method     : c:\dx\method\automet.met
ACI Address: 1  System: 1  Inject#: 8          Detector: CDM-1
Analyst    :                               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	1.07	fluoride	272.256	6054	36642	1	0.31
2	1.59	chloride	22.620	325	1947	1	0.21
3	1.90	nitrite	45.010	317	1994	1	0.53
4	2.84	bromide	21.465	75	505	1	-0.35
5	3.19	nitrate	1893.225	11283	100866	1	-2.55
6	4.69	phosphate	144.386	290	3496	1	1.15
7	6.24	sulfate	28.979	79	1112	1	2.63
8	8.16	oxalate	36.083	92	1711	1	2.00
Totals			2464.023	18516	148272		

File: 95121301.D08 Sample: S96T003085

```

=====
Sample Name: S96T003085 DUP                               Date: 12/13/1995 10:29:51
Data File  : C:\DX\DATA\95121301.D09
Method     : c:\dx\method\automel.met
ACI Address: 1 System: 1 Inject#: 9                        Detector: CDM-1
Analyst    :                               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	1.09	fluoride	261.960	5709	35172	1	1.56
2	1.61	chloride	22.774	319	1960	1	1.47
3	1.92	nitrite	44.560	303	1966	1	1.59
4	2.87	bromide	21.681	74	514	1	0.58
5	3.21	nitrate	1821.029	10836	96830	1	-1.94
6	4.69	phosphate	135.848	257	3276	1	1.15
7	6.24	sulfate	29.657	82	1159	1	2.63
8	8.21	oxalate	36.152	96	1714	1	2.67
Totals			2373.660	17676	142591		

File: 95121301.D09 Sample: S96T003085 DUP

LABCORE Completed Worklist Report for Worklist# 4173

Analyst: eal

Instrument: IC01

Book# 1182197

Method: LA-533/05 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	59	6.46e+01	109.490 % Recovery	
2	CCV		0		@IC-QC CL	QC	79	8.20e+01	103.800 % Recovery	
2	CCV		0		@IC-QC NO2	QC	534	5.40e+02	101.120 % Recovery	
2	CCV		0		@IC-QC BR	QC	575	5.94e+02	103.300 % Recovery	
2	CCV		0		@IC-QC NO3	QC	614	6.37e+02	103.750 % Recovery	
2	CCV		0		@IC-QC PO4	QC	545	5.84e+02	107.160 % Recovery	
2	CCV		0		@IC-QC SO4	QC	631	6.49e+02	102.850 % Recovery	
2	CCV		0		@IC-QC OXALATE2	QC	525	5.35e+02	101.900 % 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	S95T003086	0	W	@IC-01 F-02	SOLID	N/A	6.387e+03	19.800	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 CL-02	SOLID	N/A	5.540e+02	25.880	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 NO2-02	SOLID	N/A	8.022e+02	162.900	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 BR-02	SOLID	N/A	3.599e+02	191.900	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 NO3-02	SOLID	N/A	4.676e+04	213.200	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 PO4-02	SOLID	N/A	3.227e+03	181.200	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 SO4-02	SOLID	N/A	4.747e+02	207.100	ug/g
4	REJECT	S95T003086	0	W	@IC-01 SO4-02	SOLID	N/A	4.747e+02		ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 OXALATE2	SOLID	N/A	1.216e+03	159.900	ug/g
4	REJECT	S95T003086	0	W	@IC-01 OXALATE2	SOLID	N/A	1.216e+03		ug/g
5	DUP	S95T003086	0	W	@IC-01 F-02	SOLID	6.39e+03	7.09e+03	10.390	RPD
5	DUP	S95T003086	0	W	@IC-01 CL-02	SOLID	5.54e+02	6.02e+02	8.300	RPD
5	DUP	S95T003086	0	W	@IC-01 NO2-02	SOLID	8.02e+02	8.55e+02	6.400	RPD
5	DUP	S95T003086	0	W	@IC-01 BR-02	SOLID	3.60e+02	3.77e+02	4.610	RPD
5	DUP	S95T003086	0	W	@IC-01 NO3-02	SOLID	4.68e+04	5.17e+04	9.950	RPD
5	DUP	S95T003086	0	W	@IC-01 PO4-02	SOLID	3.23e+03	3.58e+03	10.280	RPD
5	DUP	S95T003086	0	W	@IC-01 SO4-02	SOLID	4.75e+02	5.42e+02	13.180	RPD

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4173

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
5 DUP	S95T003086	0 W	@IC-01	OxALATE2	SOLID	1.22e+03	1.34e+03	9.380 RPD
6 SPK	S95T003086	0 W	@IC-01	F-02	SOLID	59	<1.30e-2	0.000 % Recovery
6 SPK	S95T003086	0 W	@IC-01	CL-02	SOLID	79	77.980	98.710 % Recovery
6 SPK	S95T003086	0 W	@IC-01	NO2-02	SOLID	534	548.050	102.630 % Recovery
6 SPK	S95T003086	0 W	@IC-01	BR-02	SOLID	575	597.000	103.830 % Recovery
6 SPK	S95T003086	0 W	@IC-01	NO3-02	SOLID	614	142.260	23.170 % Recovery
6 SPK	S95T003086	0 W	@IC-01	PO4-02	SOLID	545	592.880	108.790 % Recovery
6 SPK	S95T003086	0 W	@IC-01	SO4-02	SOLID	631	646.710	102.490 % Recovery
6 SPK	S95T003086	0 W	@IC-01	OxALATE2	SOLID	525	534.130	101.740 % Recovery
7 SAMPLE	S95T003087	0 W	@IC-01	F-02	SOLID	N/A		132.700 ug/g
7 REJECT	S95T003087	0 W	@IC-01	F-02	SOLID	N/A	4.932e+03	ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	CL-02	SOLID	N/A	5.224e+02	18.900 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	NO2-02	SOLID	N/A	5.806e+02	119.000 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	BR-02	SOLID	N/A	2.759e+02	140.100 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	NO3-02	SOLID	N/A		1.429e+003 ug/g
7 REJECT	S95T003087	0 W	@IC-01	NO3-02	SOLID	N/A	3.557e+04	ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	PO4-02	SOLID	N/A	3.364e+03	132.300 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	SO4-02	SOLID	N/A	4.196e+02	151.200 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	OxALATE2	SOLID	N/A	1.332e+03	116.700 ug/g
8 DUP	S95T003087	0 W	@IC-01	F-02	SOLID	4.93e+03	dupeerror	RPD
8 DUP	S95T003087	0 W	@IC-01	CL-02	SOLID	5.22e+02	5.74e+02	9.490 RPD
8 DUP	S95T003087	0 W	@IC-01	NO2-02	SOLID	5.81e+02	6.57e+02	12.280 RPD
8 DUP	S95T003087	0 W	@IC-01	BR-02	SOLID	2.76e+02	3.16e+02	13.510 RPD
8 DUP	S95T003087	0 W	@IC-01	NO3-02	SOLID	3.56e+04	dupeerror	RPD
8 DUP	S95T003087	0 W	@IC-01	PO4-02	SOLID	3.36e+03	3.75e+03	10.970 RPD
8 DUP	S95T003087	0 W	@IC-01	SO4-02	SOLID	4.20e+02	4.51e+02	7.120 RPD
8 DUP	S95T003087	0 W	@IC-01	OxALATE2	SOLID	1.33e+03	1.56e+03	15.920 RPD

Final page for worklist# 4173

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

John Faye
Reviewer Signature _____ Date 12/13/95

LABCORE Completed Worklist Report for Worklist# 4173

Analyst: eal

Instrument: IC01

Book# 1130224

Method: LA-573-VIS Rev/Mod C-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	59	6.46e+01	109.490 % Recovery	
2	CCV		0		@IC-QC CL	QC	79	8.20e+01	103.800 % Recovery	
2	CCV		0		@IC-QC NO2	QC	534	5.40e+02	101.120 % Recovery	
2	CCV		0		@IC-QC BR	QC	575	5.94e+02	103.300 % Recovery	
2	CCV		0		@IC-QC NO3	QC	614	6.37e+02	103.750 % Recovery	
2	CCV		0		@IC-QC PO4	QC	545	5.84e+02	107.160 % Recovery	
2	CCV		0		@IC-QC SO4	QC	631	6.49e+02	102.850 % Recovery	
2	CCV		0		@IC-QC OXALATE2	QC	525	5.35e+02	101.900 % 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	S95T003086	0	W	@IC-01 F-02	SOLID	N/A	6.387e+03	19.800	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 CL-02	SOLID	N/A	5.540e+02	25.880	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 NO2-02	SOLID	N/A	8.022e+02	162.900	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 BR-02	SOLID	N/A	3.599e+02	191.900	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 NO3-02	SOLID	N/A	4.676e+04	213.200	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 PO4-02	SOLID	N/A	3.227e+03	181.200	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 SO4-02	SOLID	N/A	4.747e+02	207.100	ug/g
4	REJECT	S95T003086	0	W	@IC-01 SO4-02	SOLID	N/A	4.747e+02		ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 OXALATE2	SOLID	N/A	1.216e+03	159.900	ug/g
4	REJECT	S95T003086	0	W	@IC-01 OXALATE2	SOLID	N/A	1.216e+03		ug/g
5	DUP	S95T003086	0	W	@IC-01 F-02	SOLID	6.39e+03	7.09e+03	10.390	RPD
5	DUP	S95T003086	0	W	@IC-01 CL-02	SOLID	5.54e+02	6.02e+02	8.300	RPD
5	DUP	S95T003086	0	W	@IC-01 NO2-02	SOLID	8.02e+02	8.55e+02	6.400	RPD
5	DUP	S95T003086	0	W	@IC-01 BR-02	SOLID	3.60e+02	3.77e+02	4.610	RPD
5	DUP	S95T003086	0	W	@IC-01 NO3-02	SOLID	4.68e+04	5.17e+04	9.950	RPD
5	DUP	S95T003086	0	W	@IC-01 PO4-02	SOLID	3.23e+03	3.58e+03	10.280	RPD
5	DUP	S95T003086	0	W	@IC-01 SO4-02	SOLID	4.75e+02	5.42e+02	13.180	RPD

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4173

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
5 DUP	S95T003086	0	W	@IC-01	OxALATE2	SOLID	1.22e+03	1.34e+03	9.380 RPD
6 SPK	S95T003086	0	W	@IC-01	F-02	SOLID	59	<1.30e-2	% Recovery
6 SPK	S95T003086	0	W	@IC-01	CL-02	SOLID	79	77.980	98.710 % Recovery
6 SPK	S95T003086	0	W	@IC-01	NO2-02	SOLID	534	548.050	102.630 % Recovery
6 SPK	S95T003086	0	W	@IC-01	BR-02	SOLID	575	597.000	103.830 % Recovery
6 SPK	S95T003086	0	W	@IC-01	NO3-02	SOLID	614	142.260	23.170 % Recovery
6 SPK	S95T003086	0	W	@IC-01	PO4-02	SOLID	545	592.880	108.790 % Recovery
6 SPK	S95T003086	0	W	@IC-01	SO4-02	SOLID	631	646.710	102.490 % Recovery
6 SPK	S95T003086	0	W	@IC-01	OxALATE2	SOLID	525	534.130	101.740 % Recovery
7 SAMPLE	S95T003087	0	W	@IC-01	F-02	SOLID	N/A	4.932e+03	132.700 ug/g
7 SAMPLE	S95T003087	0	W	@IC-01	CL-02	SOLID	N/A	5.224e+02	18.900 ug/g
7 SAMPLE	S95T003087	0	W	@IC-01	NO2-02	SOLID	N/A	5.806e+02	119.000 ug/g
7 SAMPLE	S95T003087	0	W	@IC-01	BR-02	SOLID	N/A	2.759e+02	140.100 ug/g
7 SAMPLE	S95T003087	0	W	@IC-01	NO3-02	SOLID	N/A	3.557e+04	1.429e+003 ug/g
7 SAMPLE	S95T003087	0	W	@IC-01	PO4-02	SOLID	N/A	3.364e+03	132.300 ug/g
7 SAMPLE	S95T003087	0	W	@IC-01	SO4-02	SOLID	N/A	4.196e+02	151.200 ug/g
7 SAMPLE	S95T003087	0	W	@IC-01	OxALATE2	SOLID	N/A	1.332e+03	116.700 ug/g
8 DUP	S95T003087	0	W	@IC-01	F-02	SOLID	4.93e+03	2.45e+03	52.620 RPD
8 DUP	S95T003087	0	W	@IC-01	CL-02	SOLID	5.22e+02	5.74e+02	9.490 RPD
8 DUP	S95T003087	0	W	@IC-01	NO2-02	SOLID	5.81e+02	6.57e+02	12.280 RPD
8 DUP	S95T003087	0	W	@IC-01	BR-02	SOLID	2.76e+02	3.16e+02	13.510 RPD
8 DUP	S95T003087	0	W	@IC-01	NO3-02	SOLID	3.56e+04	5.84e+04	48.510 RPD
8 DUP	S95T003087	0	W	@IC-01	PO4-02	SOLID	3.36e+03	3.75e+03	10.970 RPD
8 DUP	S95T003087	0	W	@IC-01	SO4-02	SOLID	4.20e+02	4.51e+02	7.120 RPD
8 DUP	S95T003087	0	W	@IC-01	OxALATE2	SOLID	1.33e+03	1.56e+03	15.920 RPD

Dup error 9/11/95

Dup error 9/11/95

Final page for worklist# 4173

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James M. Lyle 12/13/95
Reviewer Signature _____ Date _____

Rejected F+NO₃ on S95T003087 due to dilution errors done on the duplicate.

LABCORE Data Entry Template for Worklist# 4173

Analyst: EAL Instrument: IC01 IC01 Book# 118V9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003086 0 W	@IC-01	SOLID	95000158 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003086 0 W	@IC-01	SOLID			
6 SPK	S95T003086 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003087 0 W	@IC-01	SOLID	95000158 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003087 0 W	@IC-01	SOLID			

Final page for worklist # 4173

A. Lambel 12-13-95
Analyst Signature Date

Analyst Signature Date

Uploaded 12/13/95 J.M. Fuge
Poor spike recovery on F and NO₃ may be due to the size of the peaks with relation to the calibration curve, but F also indicates matrix interference.
Poor dup RPD on 3087 F+NO₃ may be due to dilution error in the 101 DF run that was done for F+NO₃ on the duplicate. Project coordinator will be consulted as to need for re-run.

Data Entry Comments:

< BEGINING OF LOG FILE >

Instrument Posting Engaged by

Posting Date 13-dec-1995 16:00:20

FILE OPEN TO READ: (/tmp/I12gJ1XAAQ)

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

_(Wed Dec 13 16:00:31 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

_(Wed Dec 13 16:00:48 19

FILE CLOSED: (/tmp/I12gJ1XAAQ)

FILE POSTING: /tmp/I12gJ1XAAQ (13-dec-1995 16:01:45)

Record (1) QC posted.

Record (2) QC posted.

Record (3) QC posted.

Record (4) QC posted.

Record (5) QC posted.

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				13-Dec-95			
Worklist#: 4173					Data File: 4173DEC.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB	S95T003086 S95T003086 S95T003086 S95T003087 S95T003087	-	1	95121301.d10	BLANK		1.00	
	=>	2	CCV			2	95121301.d11	118N9-A STD.		101.00	
	=>	3	BLNK-PREP			3	95121301.d12	PREP. BLANK		1.00	
	=>	4	SAMPLE				95121301.d13	S95T003086		101.00	
	=>	5	DUP				95121301.d14	S95T003086		21.00	
	=>	6	SPK				95121301.d15	S95T003086		14.33	
	=>	7	SAMPLE			4	95121301.d16	S95T003086		11.00	
	=>	8	DUP			5	95121301.d17	S95T003086 DUP		11.00	
					6	95121301.d18	S95T003086 SPIKE		11.00		
					7	95121301.d19	S95T003087		101.00		
					7	95121301.d20	S95T003087		11.00		
					8	95121301.d21	S95T003087 DUP		11.00		
					8	95121301.d22	S95T003087 DUP		101.00		
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

WHC-SD-WM-DP-160, REV. 1

A-0010-12

SAMPLE ANALYTE RESOLUTION FOR S95T003087

13-Dec-95

Analyte		Samples Selected from Data File for Worklist Slot Number 7				
		[1]	[2]	[3]	[4]	[5]
		95121301.d19	95121301.d20			
		101.0000	11.0000			
F-02	1	48.7980				
CL-02	2		5.1690			
N02-02	2		5.7440			
BR-02	2		2.7300			
N03-02	1	351.9670				
P04-02	2		33.2830			
S04-02	2		4.1520			
OXALATE2	2		13.1790			

Done(F4) Abort(Shift-F3) UnPick(F7)

WHC-SD-WM-DP-160, REV. I

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003087				13-Dec-95
Analyte		Samples Selected from Data File for Worklist Slot Number 8				
		[1]	[2]	[3]	[4]	[5]
		95121301.d21	95121301.d22			
		11.0000	101.0000			
F-02	2		81.1360			
CL-02	1	5.5050				
N02-02	1	6.3100				
BR-02	1	3.0330				
N03-02	2		560.4240			
P04-02	1	36.0270				
S04-02	1	4.3330				
OXALATE2	1	15.0140				

Done(F4) Abort(Shift-F3) UnPick(F7)

WHC-SD-WM-DP-160, REV. 1


```

=====
Sample Name: BLANK                               Date: 12/13/1995 10:43:59
Data File  : C:\DX\DATA\95121301.D10
Method     : c:\dx\method\automel.met           WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 10            Detector: CDM-1
Analyst    : A. Lumbel                        Column: AG4A/AS4A anion column
              12/13/95
=====

```

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		

File: 95121301.D10 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 374 TO 386

Sample Name: 118N9-A STD. Date: 12/13/1995 11:04:37
 Data File : C:\DX\DATA\95121301.D11
 Method : c:\dx\method\automel.met WHC-SD-WM-DP-160, REV. 1
 ACI Address: 1 System: 1 Inject#: 11 Detector: CDM-1
 Analyst : *A. Lumbel* 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	0.95		0.000	29	102	2	
2	1.08	fluoride	64.638	1317	8315	2	0.93
3	1.61	chloride	82.024	1173	7081	1	1.05
4	1.92	nitrite	540.400	5026	33062	1	1.59
5	2.85	bromide	593.982	3191	23444	1	-0.12
6	3.24	nitrate	636.820	3806	32530	1	-0.92
7	4.69	phosphate	583.559	1214	14922	1	1.15
8	6.24	sulfate	649.119	3244	45035	1	2.63
9	8.16	oxalate	535.200	1513	27937	1	2.00
Totals			3685.742	20514	192427		

File: 95121301.D11 Sample: 118N9-A STD.

```

=====
Sample Name: PREP. BLANK                      Date: 12/13/1995 11:23:52
Data File  : C:\DX\DATA\95121301.D12
Method     : c:\dx\method\automet1.met        WHC-SD-WM-DP-160, REV. 1
ACI Address: 1  System: 1  Inject#: 12         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
1	1.32		0.000	152	1765	1	
Totals			0.000	152	1765		

File: 95121301.D12 Sample: PREP. BLANK

```

=====
Sample Name: S95T003086                               Date: 12/13/1995 11:37:23
Data File  : C:\DX\DATA\95121301.D13
Method     : c:\dx\method\automel.met                 WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 13                   Detector: CDM-1
Analyst    :                                           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	1.09	fluoride	42.401	881	5429	1	1.56
2	1.61	chloride	6.914	102	600	1	1.05
3	1.92	nitrite	16.148	36	196	1	1.59
4	3.25	nitrate	300.068	1803	14853	1	-0.51
5	4.72	phosphate	26.957	42	487	1	1.72
6	6.29	sulfate	17.920	21	341	1	3.51
7	8.21	oxalate	12.550	24	483	1	2.67
Totals			422.957	2909	22388		

File: 95121301.D13 Sample: S95T003086

```

=====
Sample Name: S95T003086                      Date: 12/13/1995 11:53:09
Data File  : C:\DX\DATA\95121301.D14
Method     : c:\dx\method\automel.met        WHC-SD-WM-DP-160, REV. I
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          21    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	1.09	fluoride	40.090	4172	25488	1	1.56
2	1.61	chloride	3.511	244	1454	1	1.47
3	1.92	nitrite	6.298	172	1077	1	1.59
4	2.85	bromide	3.195	39	265	1	0.12
5	3.21	nitrate	281.226	8156	70976	1	-1.73
6	4.69	phosphate	21.829	186	2484	1	1.15
7	6.24	sulfate	4.765	49	689	1	2.63
8	8.21	oxalate	7.637	103	1745	1	2.67
Totals			368.550	13122	104178		

File: 95121301.D14 Sample: S95T003086

```

=====
Sample Name: S95T003086                      Date: 12/13/1995 12:44:14
Data File  : C:\DX\DATA\95121301.D15
Method     : c:\dx\method\automel.met        WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 15         Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1      14.33   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	1.09	fluoride	46.378	7244	44566	1	1.56
2	1.61	chloride	3.837	388	2326	1	1.05
3	1.91	nitrite	6.003	291	1825	1	1.23
4	2.85	bromide	2.770	66	429	1	0.12
5	3.19	nitrate	330.654	13601	125619	1	-2.55
6	4.69	phosphate	22.631	317	3884	1	1.15
7	6.19	sulfate	3.932	63	1024	1	1.75
8	8.16	oxalate	9.022	170	3147	1	2.00
Totals			425.227	22140	182821		

File: 95121301.D15 Sample: S95T003086

```

=====
Sample Name: S95T003086                      Date: 12/13/1995 13:04:36
Data File  : C:\DX\DATA\95121301.D16
Method     : c:\dx\method\automet1.met      WHC-SD-WM-DP-160, REV. 1
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           11    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	1.07	fluoride	46.139	9832	59176	1	0.31
2	1.59	chloride	4.002	513	3161	1	-0.21
3	1.89	nitrite	5.795	386	2504	1	0.18
4	2.83	bromide	2.600	90	600	1	-0.58
5	3.15	nitrate	337.774	17795	170630	1	-3.57
6	4.67	phosphate	23.312	418	5289	1	0.57
7	6.19	sulfate	3.429	83	1287	1	1.75
8	8.16	oxalate	8.787	221	4041	1	2.00
Totals			431.838	29339	246689		

File: 95121301.D16 Sample: S95T003086

```

=====
Sample Name: S95T003086 DUP                      Date: 12/13/1995 13:40:01
Data File  : C:\DX\DATA\95121301.D17
Method     : c:\dx\method\automel.met             WHC-SD-WM-DP-160, REV. I
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          11    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	1.09	fluoride	50.336	10686	65223	1	1.56
2	1.61	chloride	4.272	553	3375	1	1.05
3	1.91	nitrite	6.066	414	2660	1	1.23
4	2.85	bromide	2.674	98	627	1	0.12
5	3.17	nitrate	367.076	19416	186785	1	-2.96
6	4.69	phosphate	25.367	466	5777	1	1.15
7	6.24	sulfate	3.847	111	1554	1	2.63
8	8.16	oxalate	9.539	230	4401	1	2.00
Totals			469.177	31975	270402		

File: 95121301.D17 Sample: S95T003086 DUP

```

=====
Sample Name: S95T003086 SPIKE                               Date: 12/13/1995 13:53:43
Data File  : C:\DX\DATA\95121301.D18
Method     : c:\dx\method\automel.met                       WHC-SD-WM-DP-160, REV. 1
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          11    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	1.09	fluoride	45.465	9504	58219	2	1.56
3	1.61	chloride	11.798	1521	9374	1	1.05
4	1.92	nitrite	60.618	5167	34085	1	1.59
5	2.85	bromide	62.251	3214	22532	1	-0.12
6	3.18	nitrate	352.171	18667	178537	1	-2.75
7	4.69	phosphate	82.583	1589	19547	1	1.15
8	6.19	sulfate	68.099	2971	43321	1	1.75
9	8.11	oxalate	62.187	1568	29831	1	1.33
Totals			745.172	44200	395444		

File: 95121301.D18 Sample: S95T003086 SPIKE

```

=====
Sample Name: S95T003087                               Date: 12/13/1995 14:10:25
Data File  : C:\DX\DATA\95121301.D19
Method     : c:\dx\method\automel.met                 WHC-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 19                   Detector: CDM-1
Analyst    :                                           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	1.09	fluoride	48.798	1006	6256	1	1.56
2	1.61	chloride	5.152	72	449	1	1.05
3	1.91	nitrite	16.269	33	204	1	1.23
4	3.26	nitrate	351.967	2097	17561	1	-0.31
5	4.69	phosphate	34.312	57	675	1	1.15
6	6.29	sulfate	16.556	16	246	1	3.51
7	8.16	oxalate	12.975	28	505	1	2.00
Totals			486.030	3309	25895		

File: 95121301.D19 Sample: S95T003087

```

=====
Sample Name: S95T003087                      Date: 12/13/1995 14:29:09
Data File  : C:\DX\DATA\95121301.D20
Method     : c:\dx\method\automel.met        WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 20          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11 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	1.09	fluoride	59.880	12931	79520	1	1.56
2	1.61	chloride	5.169	665	4086	1	1.05
3	1.91	nitrite	5.744	385	2475	1	1.23
4	2.85	bromide	2.730	101	647	1	-0.12
5	3.16	nitrate	438.467	23060	227208	1	-3.36
6	4.69	phosphate	33.283	618	7657	1	1.15
7	6.24	sulfate	4.152	126	1750	1	2.63
8	8.16	oxalate	13.179	327	6149	1	2.00
Totals			562.604	38213	329493		

File: 95121301.D20 Sample: S95T003087

```

=====
Sample Name: S95T003087  DUP                               Date: 12/13/1995 14:43:21
Data File  : C:\DX\DATA\95121301.D21
Method     : c:\dx\method\automel.met                      WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 21                        Detector: CDM-1
Analyst    :                                               Column: AG4A/AS4A anion column
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11  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	1.07	fluoride	65.222	14562	87895	1	0.31
2	1.59	chloride	5.505	716	4352	1	-0.21
3	1.89	nitrite	6.310	433	2799	1	0.18
4	2.83	bromide	3.033	118	757	1	-0.82
5	3.13	nitrate	490.718	25770	257831	1	-4.38
6	4.67	phosphate	36.027	671	8311	1	0.57
7	6.19	sulfate	4.333	120	1866	1	1.75
8	8.16	oxalate	15.014	388	7031	1	2.00
Totals			626.163	42776	370843		

File: 95121301.D21 Sample: S95T003087 DUP

```

=====
Sample Name: S95T003087  DUP                               Date: 12/13/1995 14:58:49
Data File  : C:\DX\DATA\95121301.D22
Method     : c:\dx\method\automel.met                     WHC-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 22                      Detector: CDM-1
Analyst    :                                             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	1.09	fluoride	81.136	1689	10473	1	1.56
2	1.61	chloride	7.230	106	627	1	1.05
3	1.92	nitrite	18.397	59	336	1	1.59
5	3.24	nitrate	560.424	3405	28497	1	-0.92
6	4.69	phosphate	51.791	87	1122	1	1.15
7	8.16	oxalate	19.227	46	831	1	2.00
Totals			738.205	5394	41886		

File: 95121301.D22 Sample: S95T003087 DUP

LABCORE Completed Worklist Report for Worklist# 4173

Analyst: eal

Instrument: IC01

Book# 113022

Method: LA-533-V05 Rev/Mod D-1

*SP T003087 F4 NO2 not for reason
by 101 deleted*

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

*will mark
as failed QC*

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	59	6.46e+01	109.490	% Recovery
2	CCV		0		@IC-QC CL	QC	79	8.20e+01	103.800	% Recovery
2	CCV		0		@IC-QC NO2	QC	534	5.40e+02	101.120	% Recovery
2	CCV		0		@IC-QC BR	QC	575	5.94e+02	103.300	% Recovery
2	CCV		0		@IC-QC NO3	QC	614	6.37e+02	103.750	% Recovery
2	CCV		0		@IC-QC PO4	QC	545	5.84e+02	107.160	% Recovery
2	CCV		0		@IC-QC SO4	QC	631	6.49e+02	102.850	% Recovery
2	CCV		0		@IC-QC OXALATE2	QC	525	5.35e+02	101.900	% 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	S95T003086	0	W	@IC-01 F-02	SOLID	N/A	6.387e+03	19.800	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 CL-02	SOLID	N/A	5.540e+02	25.880	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 NO2-02	SOLID	N/A	8.022e+02	162.900	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 BR-02	SOLID	N/A	3.599e+02	191.900	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 NO3-02	SOLID	N/A	4.676e+04	213.200	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 PO4-02	SOLID	N/A	3.227e+03	181.200	ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 SO4-02	SOLID	N/A	4.747e+02	207.100	ug/g
4	REJECT	S95T003086	0	W	@IC-01 SO4-02	SOLID	N/A	4.747e+02		ug/g
4	SAMPLE	S95T003086	0	W	@IC-01 OXALATE2	SOLID	N/A	1.216e+03	159.900	ug/g
4	REJECT	S95T003086	0	W	@IC-01 OXALATE2	SOLID	N/A	1.216e+03		ug/g
5	DUP	S95T003086	0	W	@IC-01 F-02	SOLID	6.39e+03	7.09e+03	10.390	RPD
5	DUP	S95T003086	0	W	@IC-01 CL-02	SOLID	5.54e+02	6.02e+02	8.300	RPD
5	DUP	S95T003086	0	W	@IC-01 NO2-02	SOLID	8.02e+02	8.55e+02	6.400	RPD
5	DUP	S95T003086	0	W	@IC-01 BR-02	SOLID	3.60e+02	3.77e+02	4.610	RPD
5	DUP	S95T003086	0	W	@IC-01 NO3-02	SOLID	4.68e+04	5.17e+04	9.950	RPD
5	DUP	S95T003086	0	W	@IC-01 PO4-02	SOLID	3.23e+03	3.58e+03	10.280	RPD
5	DUP	S95T003086	0	W	@IC-01 SO4-02	SOLID	4.75e+02	5.42e+02	13.180	RPD

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4173

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
5 DUP	S95T003086	0 W	@IC-01	OXALATE2	SOLID	1.22e+03	1.34e+03	9.380 RPD
6 SPK	S95T003086	0 W	@IC-01	F-02	SOLID	59	<1.30e-2	% Recovery
6 SPK	S95T003086	0 W	@IC-01	CL-02	SOLID	79	77.980	98.710 % Recovery
6 SPK	S95T003086	0 W	@IC-01	NO2-02	SOLID	534	548.050	102.630 % Recovery
6 SPK	S95T003086	0 W	@IC-01	BR-02	SOLID	575	597.000	103.830 % Recovery
6 SPK	S95T003086	0 W	@IC-01	NO3-02	SOLID	614	142.260	23.170 % Recovery
6 SPK	S95T003086	0 W	@IC-01	PO4-02	SOLID	545	592.880	108.790 % Recovery
6 SPK	S95T003086	0 W	@IC-01	SO4-02	SOLID	631	646.710	102.490 % Recovery
6 SPK	S95T003086	0 W	@IC-01	OXALATE2	SOLID	525	534.130	101.740 % Recovery
7 SAMPLE	S95T003087	0 W	@IC-01	F-02	SOLID	N/A	4.932e+03	132.700 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	CL-02	SOLID	N/A	5.224e+02	18.900 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	NO2-02	SOLID	N/A	5.806e+02	119.000 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	BR-02	SOLID	N/A	2.759e+02	140.100 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	NO3-02	SOLID	N/A	3.557e+04	1.429e+003 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	PO4-02	SOLID	N/A	3.364e+03	132.300 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	SO4-02	SOLID	N/A	4.196e+02	151.200 ug/g
7 SAMPLE	S95T003087	0 W	@IC-01	OXALATE2	SOLID	N/A	1.332e+03	116.700 ug/g
8 DUP	S95T003087	0 W	@IC-01	F-02	SOLID	4.93e+03	8.45e+03	52.620 RPD
8 DUP	S95T003087	0 W	@IC-01	CL-02	SOLID	5.22e+02	5.74e+02	9.490 RPD
8 DUP	S95T003087	0 W	@IC-01	NO2-02	SOLID	5.81e+02	6.57e+02	12.280 RPD
8 DUP	S95T003087	0 W	@IC-01	BR-02	SOLID	2.76e+02	3.16e+02	13.510 RPD
8 DUP	S95T003087	0 W	@IC-01	NO3-02	SOLID	3.56e+04	5.84e+04	48.510 RPD
8 DUP	S95T003087	0 W	@IC-01	PO4-02	SOLID	3.36e+03	3.75e+03	10.970 RPD
8 DUP	S95T003087	0 W	@IC-01	SO4-02	SOLID	4.20e+02	4.51e+02	7.120 RPD
8 DUP	S95T003087	0 W	@IC-01	OXALATE2	SOLID	1.33e+03	1.56e+03	15.920 RPD

Final page for worklist# 4173

Analyst Signature

Date

Analyst Signature

Date

James M. Joyce 12/13/95
Reviewer Signature Date

LABCORE Data Entry Template for Worklist# 4173

Analyst: EAL Instrument: IC01 IC01 Book# 11819-AMethod: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003086 0 W	@IC-01	SOLID		95000158	B-204
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5 DUP	S95T003086 0 W	@IC-01	SOLID			
6 SPK	S95T003086 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003087 0 W	@IC-01	SOLID		95000158	B-204
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
8 DUP	S95T003087 0 W	@IC-01	SOLID			

Final page for worklist # 4173

A. Lambel 12-13-95
Analyst Signature Dateuploaded 12/13/95 J.M. Faye
Analyst Signature Date

Poor spike recovery on S.F and NO₃ may be due to the size of the peaks with relation to the calibration curve, but F also indicates matrix interference.

Poor dup RPD on 5087 F+NO₃ may be due to dilution error in the 101 DF run that was damaged F+NO₃ on the duplicate. Project coordinator will

Data Entry Comments:

He consulted as to need for re-run.


```
< BEGINING OF LOG FILE >
Instrument Posting Engaged by          Posting Date 13-dec-1995 16:00:20

FILE OPEN TO READ: (/tmp/I12gJ1XAAQ)
Error Inserting into Interface Results Table:
E US10D4 bad character found in date string beginning with 'eal @IC-01'.
  (Wed Dec 13 16:00:31 19
Error Inserting into Interface Results Table:
E US10D4 bad character found in date string beginning with 'eal @IC-01'.
  (Wed Dec 13 16:00:48 19
FILE CLOSED: (/tmp/I12gJ1XAAQ)
FILE POSTING: /tmp/I12gJ1XAAQ (13-dec-1995 16:01:45)
Record (1) QC posted.
Record (2) QC posted.
Record (3) QC posted.
Record (4) QC posted.
Record (5) QC posted.
```

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				13-Dec-95			
Worklist#: 4173					Data File: 4173DEC.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-	1	95121301.d10	BLANK		1.00	
	=>	2	CCV			2	95121301.d11	118N9-A STD.		101.00	
	=>	3	BLNK-PREP			3	95121301.d12	PREP. BLANK		1.00	
	=>	4	SAMPLE	S95T003086			95121301.d13	S95T003086		101.00	
	=>	5	DUP	S95T003086			95121301.d14	S95T003086		21.00	
	=>	6	SPK	S95T003086			95121301.d15	S95T003086		14.33	
	=>	7	SAMPLE	S95T003087		4	95121301.d16	S95T003086		11.00	
	=>	8	DUP	S95T003087		5	95121301.d17	S95T003086 DUP		11.00	
						6	95121301.d18	S95T003086 SPIKE		11.00	
						7	95121301.d19	S95T003087		101.00	
						7	95121301.d20	S95T003087		11.00	
						8	95121301.d21	S95T003087 DUP		11.00	
						8	95121301.d22	S95T003087 DUP		101.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

WHC-SD-WM-DP-160, REV. I

A-0010-12

SAMPLE ANALYTE RESOLUTION FOR S95T003087

13-Dec-95

Analyte		Samples Selected from Data File for Worklist Slot Number 7				
		[1]	[2]	[3]	[4]	[5]
		95121301.d19	95121301.d20			
		101.0000	11.0000			
F-02	1	48.7980				
CL-02	2		5.1690			
NO2-02	2		5.7440			
BR-02	2		2.7300			
NO3-02	1	351.9670				
PO4-02	2		33.2830			
SO4-02	2		4.1520			
OXALATE2	2		13.1790			

Done(F4) Abort(Shift-F3) UnPick(F7)

WHC-SD-WM-DP-160, REV. 1

Analyte		Samples Selected from Data File for Worklist Slot Number 8				
		[1]	[2]	[3]	[4]	[5]
		95121301.d21	95121301.d22			
		11.0000	101.0000			
F-02	2		81.1360			
CL-02	1	5.5050				
N02-02	1	6.3100				
BR-02	1	3.0330				
N03-02	2		560.4240			
P04-02	1	36.0270				
S04-02	1	4.3330				
OXALATE2	1	15.0140				

Done(F4) Abort(Shift-F3) UnPick(F7)

WHC-SD-WM-DP-160, REV. 1

LABCORE Completed Worklist Report for Worklist# 4174

Analyst: eal

Instrument: IC01

Book# 11824

Method: A4-53-05 Rev/Mod D-1

9500058

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	1.95e-01	0.200	ug/mL
1	CCB	0	@IC-QC	PO4	QC		1	<1.19e-1		ug/mL
1	CCB	0	@IC-QC	SO4	QC		1	1.69e-01	0.170	ug/mL
1	CCB	0	@IC-QC	OXALATE2	QC		1	<1.05e-1		ug/mL
2	CCV	0	@IC-QC	F	QC		59	6.46e+01	109.490	% Recovery
2	CCV	0	@IC-QC	CL	QC		79	8.44e+01	106.840	% Recovery
2	CCV	0	@IC-QC	NO2	QC		534	5.58e+02	104.490	% Recovery
2	CCV	0	@IC-QC	BR	QC		575	6.16e+02	107.130	% Recovery
2	CCV	0	@IC-QC	NO3	QC		614	6.35e+02	103.420	% Recovery
2	CCV	0	@IC-QC	PO4	QC		545	5.95e+02	109.170	% Recovery
2	CCV	0	@IC-QC	SO4	QC		631	6.54e+02	103.650	% Recovery
2	CCV	0	@IC-QC	OXALATE2	QC		525	5.47e+02	104.190	% 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	S95T003088	0	W	@IC-01	F-02	SOLID	N/A	6.553e+03	16.340 ug/g
4	SAMPLE	S95T003088	0	W	@IC-01	CL-02	SOLID	N/A	5.567e+02	21.360 ug/g
4	SAMPLE	S95T003088	0	W	@IC-01	NO2-02	SOLID	N/A	5.251e+02	134.500 ug/g
4	SAMPLE	S95T003088	0	W	@IC-01	BR-02	SOLID	N/A	4.430e+02	158.300 ug/g
4	SAMPLE	S95T003088	0	W	@IC-01	NO3-02	SOLID	N/A	4.936e+04	175.900 ug/g
4	SAMPLE	S95T003088	0	W	@IC-01	PO4-02	SOLID	N/A	3.910e+03	149.500 ug/g
4	SAMPLE	S95T003088	0	W	@IC-01	SO4-02	SOLID	N/A	4.442e+02	170.900 ug/g
4	SAMPLE	S95T003088	0	W	@IC-01	OXALATE2	SOLID	N/A	1.655e+03	131.100 ug/g
5	DUP	S95T003088	0	W	@IC-01	F-02	SOLID	6.55e+03	6.28e+03	4.210 RPD
5	DUP	S95T003088	0	W	@IC-01	CL-02	SOLID	5.57e+02	5.50e+02	1.260 RPD
5	DUP	S95T003088	0	W	@IC-01	NO2-02	SOLID	5.25e+02	4.49e+02	15.610 RPD
5	DUP	S95T003088	0	W	@IC-01	BR-02	SOLID	4.43e+02	4.42e+02	0.230 RPD
5	DUP	S95T003088	0	W	@IC-01	NO3-02	SOLID	4.94e+04	4.79e+04	3.080 RPD
5	DUP	S95T003088	0	W	@IC-01	PO4-02	SOLID	3.91e+03	3.84e+03	1.810 RPD
5	DUP	S95T003088	0	W	@IC-01	SO4-02	SOLID	4.44e+02	4.21e+02	5.320 RPD
5	DUP	S95T003088	0	W	@IC-01	OXALATE2	SOLID	1.66e+03	1.58e+03	4.940 RPD
6	SPK	S95T003088	0	W	@IC-01	F-02	SOLID	59	39.390	66.760 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4174

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003088	0	W	@IC-01	CL-02	SOLID	79	83.270	105.410 % Recovery
6 SPK	S95T003088	0	W	@IC-01	NO2-02	SOLID	534	536.040	100.380 % Recovery
6 SPK	S95T003088	0	W	@IC-01	BR-02	SOLID	575	571.220	99.340 % Recovery
6 SPK	S95T003088	0	W	@IC-01	NO3-02	SOLID	614	619.490	100.890 % Recovery
6 SPK	S95T003088	0	W	@IC-01	PO4-02	SOLID	545	586.730	107.660 % Recovery
6 SPK	S95T003088	0	W	@IC-01	SO4-02	SOLID	631	637.120	100.970 % Recovery
6 SPK	S95T003088	0	W	@IC-01	OXALATE2	SOLID	525	549.140	104.600 % Recovery
7 SAMPLE	S95T003089	0	W	@IC-01	F-02	SOLID	N/A	6.130e+03	16.710 ug/g
7 SAMPLE	S95T003089	0	W	@IC-01	CL-02	SOLID	N/A	5.375e+02	21.850 ug/g
7 SAMPLE	S95T003089	0	W	@IC-01	NO2-02	SOLID	N/A	4.300e+02	137.500 ug/g
7 SAMPLE	S95T003089	0	W	@IC-01	BR-02	SOLID	N/A	7.513e+02	161.100 ug/g
7 SAMPLE	S95T003089	0	W	@IC-01	NO3-02	SOLID	N/A	4.730e+04	179.900 ug/g
7 SAMPLE	S95T003089	0	W	@IC-01	PO4-02	SOLID	N/A	4.134e+03	152.100 ug/g
7 SAMPLE	S95T003089	0	W	@IC-01	SO4-02	SOLID	N/A	4.156e+02	174.800 ug/g
7 SAMPLE	S95T003089	0	W	@IC-01	OXALATE2	SOLID	N/A	1.665e+03	134.100 ug/g
8 DUP	S95T003089	0	W	@IC-01	F-02	SOLID	6.13e+03	6.30e+03	2.740 RPD
8 DUP	S95T003089	0	W	@IC-01	CL-02	SOLID	5.38e+02	5.50e+02	2.210 RPD
8 DUP	S95T003089	0	W	@IC-01	NO2-02	SOLID	4.30e+02	4.41e+02	2.530 RPD
8 DUP	S95T003089	0	W	@IC-01	BR-02	SOLID	7.51e+02	7.64e+02	1.720 RPD
8 DUP	S95T003089	0	W	@IC-01	NO3-02	SOLID	4.73e+04	4.82e+04	1.880 RPD
8 DUP	S95T003089	0	W	@IC-01	PO4-02	SOLID	4.13e+03	3.93e+03	4.960 RPD
8 DUP	S95T003089	0	W	@IC-01	SO4-02	SOLID	4.16e+02	4.24e+02	1.900 RPD
8 DUP	S95T003089	0	W	@IC-01	OXALATE2	SOLID	1.66e+03	1.68e+03	1.200 RPD

Final page for worklist# 4174

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date _____

LABCORE Data Entry Template for Worklist# 4174

Analyst: EAL Instrument: IC01 IC01 Book# 118N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003088 0 W	@IC-01	SOLID		95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003088 0 W	@IC-01	SOLID			
6 SPK	S95T003088 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003089 0 W	@IC-01	SOLID		95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003089 0 W	@IC-01	SOLID			

Final page for worklist # 4174

^{11/14/95}
Analyst Signature Date

Analyst Signature Date

uploaded 12/14/95
Jean M. Luy

Data Entry Comments:

< BEGINING OF LOG FILE >

Instrument Posting Engaged by Posting Date 14-dec-1995 12:13:54

FILE OPEN TO READ: (/tmp/KDFgJIXAAQ)

Error Inserting into Interface_Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Thu Dec 14 12:13:56 19

FILE CLOSED: (/tmp/KDFgJIXAAQ)

FILE POSTING: /tmp/GsJgJIXAAA (14-dec-1995 12:15:06)

Record (1) QC posted.

Record (2) QC posted.

Record (3) QC posted.

Record (4) QC posted.

Record (5) QC posted.

Record (6) QC posted.

Record (7) QC posted.

Record (8) QC posted.

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				14-Dec-95	
Worklist#: 4174				Data File: 4174DEC.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	95121401.d02	BLANK		1.00
	=>	2	CCV		2	95121401.d03	118N9-A STD.		101.00
	=>	3	BLNK-PREP		3	95121401.d04	PREP. BLANK		1.00
	=>	4	SAMPLE		4	95121401.d05	S95T003088		101.00
	=>	5	DUP		4	95121401.d06	S95T003088		11.00
	=>	6	SPK			95121401.d07	S95T003088 DUP		11.00
	=>	7	SAMPLE		5	95121401.d09	S95T003088 DUP		11.00
	=>	8	DUP		6	95121401.d10	S95T003088 SPIK		11.00
					7	95121401.d11	S95T003089		11.00
					8	95121401.d12	S95T003089 DUP		11.00
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003088				14-Dec-95
Analyte		Samples Selected from Data File for Worklist Slot Number 4				
		[1]	[2]	[3]	[4]	[5]
		95121401.d05	95121401.d06			
		101.0000	11.0000			
F-02	2		57.3610			
CL-02	2		4.8730			
N02-02	2		4.5960			
BR-02	2		3.8780			
N03-02	2		432.0510			
P04-02	2		34.2270			
S04-02	2		3.8880			
OXALATE2	2		14.4860			

Done(F4) Abort(Shift-F3) UnPick(F7)

```

=====
Sample Name: BLANK                               Date: 12/14/1995 07:07:40
Data File  : C:\DX\DATA\95121401.D02
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 2              Detector: CDM-1
Analyst    : A. Kumbel                        Column: AG4A/AS4A anion column
=====

```

12-14-96

```

=====
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
1	0.95		0.000	31	211	1	
3	3.33	nitrate	0.195	45	324	1	1.73
4	6.24	sulfate	0.169	22	283	1	2.63
Totals			0.364	98	818		

File: 95121401.D02 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 400 TO 408.

```

=====
Sample Name: 118N9-A STD.                      Date: 12/14/1995 07:21:33
Data File  : C:\DX\DATA\95121401.D03
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 3              Detector: CDM-1
Analyst    : A. Lambel                      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	0.95		0.000	36	140	2	
2	1.09	fluoride	64.561	1351	8305	2	1.56
3	1.61	chloride	84.441	1182	7291	1	1.47
4	1.93	nitrite	558.108	5128	34181	1	1.94
5	2.88	bromide	616.204	3228	24350	1	1.05
6	3.28	nitrate	634.998	3819	32433	1	0.31
7	4.67	phosphate	594.740	1245	15216	1	0.57
8	6.19	sulfate	653.831	3290	45374	1	1.75
9	8.11	oxalate	546.985	1550	28560	1	1.33
Totals			3753.868	20828	195851		

File: 95121401.D03 Sample: 118N9-A STD.

```

=====
Sample Name: PREP. BLANK                      Date: 12/14/1995 07:41:49
Data File  : C:\DX\DATA\95121401.D04
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1  System: 1  Inject#: 4          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
1	1.31		0.000	155	1874	1	
Totals			0.000	155	1874		

File: 95121401.D04 Sample: PREP. BLANK

```

=====
Sample Name: S95T003088                               Date: 12/14/1995 08:01:05
Data File  : C:\DX\DATA\95121401.D05
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 5                     Detector: CDM-1
Analyst    :                                           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	1.07	fluoride	51.278	1033	6578	1	-0.31
2	1.59	chloride	5.671	86	493	1	0.21
3	1.91	nitrite	14.886	24	118	1	0.88
4	3.27	nitrate	369.490	2163	18476	1	0.10
5	4.67	phosphate	35.158	59	696	1	0.57
6	6.24	sulfate	17.210	19	291	1	2.63
7	8.16	oxalate	14.464	35	582	1	2.00
Totals			508.157	3418	27235		

File: 95121401.D05 Sample: S95T003088

```

=====
Sample Name: S95T003088                      Date: 12/14/1995 08:25:07
Data File  : C:\DX\DATA\95121401.D06
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1  System: 1  Inject#: 6
Analyst    :                               Detector: CDM-1
                               Column: AG4A/AS4A anion column
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11  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	1.07	fluoride	57.361	12308	75668	1	0.31
2	1.59	chloride	4.873	633	3851	1	0.21
3	1.90	nitrite	4.596	283	1819	1	0.53
4	2.85	bromide	3.878	163	1063	1	0.12
5	3.17	nitrate	432.051	22476	223510	1	-3.16
6	4.64	phosphate	34.227	618	7882	1	0.00
7	6.19	sulfate	3.888	111	1581	1	1.75
8	8.11	oxalate	14.486	368	6777	1	1.33
Totals			555.360	36959	322151		

File: 95121401.D06 Sample: S95T003088

```

=====
Sample Name: S95T003088  DUP                               Date: 12/14/1995 10:03:46
Data File  : C:\DX\DATA\95121401.D09
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1  System: 1  Inject#: 9                      Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11    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	0.33		0.000	99	1299	1	
2	1.07	fluoride	52.895	11250	68978	1	0.31
3	1.59	chloride	4.635	606	3662	1	0.21
4	1.90	nitrite	3.781	241	1353	1	0.53
5	2.27		0.000	320	5069	1	
6	2.85	bromide	3.712	151	1003	1	-0.12
7	3.16	nitrate	403.236	20942	207065	1	-3.36
8	4.67	phosphate	32.230	604	7407	1	0.57
9	6.19	sulfate	3.544	97	1360	1	1.75
10	8.16	oxalate	13.333	351	6223	1	2.00
Totals			517.365	34660	303420		

File: 95121401.D09 Sample: S95T003088 DUP

```

=====
Sample Name: S95T003088 SPIKE                               Date: 12/14/1995 10:18:50
Data File  : C:\DX\DATA\95121401.D10
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 10                          Detector: CDM-1
Analyst    :                                           Column: AG4A/AS4A anion column
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11  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	1.07	fluoride	61.337	13685	81775	2	0.31
3	1.59	chloride	13.247	1727	10539	1	0.21
4	1.90	nitrite	58.250	5002	32711	1	0.53
5	2.83	bromide	60.983	3285	22058	1	-0.58
6	3.14	nitrate	493.620	25946	259559	1	-3.98
7	4.64	phosphate	92.907	1775	22076	1	0.00
8	6.13	sulfate	67.586	2690	42982	1	0.88
9	8.11	oxalate	69.354	1844	33317	1	1.33
Totals			917.283	55954	505019		

File: 95121401.D10 Sample: S95T003088 SPIKE

```

=====
Sample Name: S95T003089                      Date: 12/14/1995 10:41:08
Data File  : C:\DX\DATA\95121401.D11
Method     : C:\DX\METHOD\AUTOMEL.MET
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           11    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	1.07	fluoride	52.458	11191	68333	1	0.31
2	1.59	chloride	4.600	591	3635	1	0.21
3	1.90	nitrite	3.680	205	1295	1	0.53
4	2.83	bromide	6.430	294	1988	1	-0.58
5	3.15	nitrate	404.831	21208	207969	1	-3.77
6	4.67	phosphate	35.383	671	8158	1	0.57
7	6.19	sulfate	3.557	95	1369	1	1.75
8	8.11	oxalate	14.250	352	6664	1	1.33
Totals			525.190	34608	299410		

File: 95121401.D11 Sample: S95T003089

Sample Name: S95T003089 DUP Date: 12/14/1995 10:55:02
 Data File : C:\DX\DATA\95121401.D12
 Method : C:\DX\METHOD\AUTOMEL.MET
 ACI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
 Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.09	fluoride	52.790	11191	68823	1	1.56
2	1.61	chloride	4.604	598	3638	1	1.05
3	1.91	nitrite	3.691	207	1301	1	1.23
4	2.85	bromide	6.399	298	1976	1	0.12
5	3.17	nitrate	403.598	21329	207270	1	-3.16
6	4.69	phosphate	32.952	651	7579	1	1.15
7	6.19	sulfate	3.549	86	1364	1	1.75
8	8.16	oxalate	14.089	362	6586	1	2.00
Totals			521.672	34721	298537		

File: 95121401.D12 Sample: S95T003089 DUP

LABCORE Completed Worklist Report for Worklist# 4175

Analyst: eal

Instrument: IC01

Book# 118A974

Method: A-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	59	6.52e+01	110.510 % Recovery	
2 CCV	0	@IC-QC	CL	QC	79	8.29e+01	104.940 % Recovery	
2 CCV	0	@IC-QC	NO2	QC	534	5.56e+02	104.120 % Recovery	
2 CCV	0	@IC-QC	BR	QC	575	6.15e+02	106.960 % Recovery	
2 CCV	0	@IC-QC	NO3	QC	614	6.45e+02	105.050 % Recovery	
2 CCV	0	@IC-QC	PO4	QC	545	5.99e+02	109.910 % Recovery	
2 CCV	0	@IC-QC	SO4	QC	631	6.61e+02	104.750 % Recovery	
2 CCV	0	@IC-QC	OXALATE2	QC	525	5.46e+02	104.000 % 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	S95T003090	0 W	@IC-01	F-02	SOLID	N/A	failed std	32.680 ug/g
4 SAMPLE	S95T003090	0 W	@IC-01	CL-02	SOLID	N/A	6.383e+02	42.730 ug/g
4 SAMPLE	S95T003090	0 W	@IC-01	NO2-02	SOLID	N/A	5.500e+02	269.000 ug/g
4 SAMPLE	S95T003090	0 W	@IC-01	BR-02	SOLID	N/A	9.837e+02	316.800 ug/g
4 SAMPLE	S95T003090	0 W	@IC-01	NO3-02	SOLID	N/A	5.358e+04	352.000 ug/g
4 SAMPLE	S95T003090	0 W	@IC-01	PO4-02	SOLID	N/A	4.724e+03	299.200 ug/g
4 SAMPLE	S95T003090	0 W	@IC-01	SO4-02	SOLID	N/A	5.742e+02	341.900 ug/g
4 SAMPLE	S95T003090	0 W	@IC-01	OXALATE2	SOLID	N/A	1.941e+03	264.000 ug/g
5 DUP	S95T003090	0 W	@IC-01	F-02	SOLID	failedqc	failedqc	RPD
5 DUP	S95T003090	0 W	@IC-01	CL-02	SOLID	6.38e+02	6.18e+02	3.180 RPD
5 DUP	S95T003090	0 W	@IC-01	NO2-02	SOLID	5.50e+02	5.13e+02	6.960 RPD
5 DUP	S95T003090	0 W	@IC-01	BR-02	SOLID	9.84e+02	8.50e+02	14.610 RPD
5 DUP	S95T003090	0 W	@IC-01	NO3-02	SOLID	5.36e+04	5.13e+04	4.390 RPD
5 DUP	S95T003090	0 W	@IC-01	PO4-02	SOLID	4.72e+03	4.49e+03	4.990 RPD
5 DUP	S95T003090	0 W	@IC-01	SO4-02	SOLID	5.74e+02	6.14e+02	6.730 RPD
5 DUP	S95T003090	0 W	@IC-01	OXALATE2	SOLID	1.94e+03	1.84e+03	5.290 RPD
6 SPK	S95T003090	0 W	@IC-01	F-02	SOLID	59	44.685	75.740 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4175

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003090	0 W	@IC-01	CL-02	SOLID	79	78.840	99.800 % Recovery
6 SPK	S95T003090	0 W	@IC-01	NO2-02	SOLID	534	532.030	99.630 % Recovery
6 SPK	S95T003090	0 W	@IC-01	BR-02	SOLID	575	578.915	100.680 % Recovery
6 SPK	S95T003090	0 W	@IC-01	NO3-02	SOLID	614	527.060	85.840 % Recovery
6 SPK	S95T003090	0 W	@IC-01	PO4-02	SOLID	545	612.710	112.420 % Recovery
6 SPK	S95T003090	0 W	@IC-01	SO4-02	SOLID	631	636.020	100.800 % Recovery
6 SPK	S95T003090	0 W	@IC-01	OXALATE2	SOLID	525	538.945	102.660 % Recovery
7 SAMPLE	S95T003091	0 W	@IC-01	F-02	SOLID	N/A	failedstd	33.540 ug/g
7 SAMPLE	S95T003091	0 W	@IC-01	CL-02	SOLID	N/A	6.761e+02	43.850 ug/g
7 SAMPLE	S95T003091	0 W	@IC-01	NO2-02	SOLID	N/A	5.272e+02	276.000 ug/g
7 SAMPLE	S95T003091	0 W	@IC-01	BR-02	SOLID	N/A	6.192e+02	325.000 ug/g
7 SAMPLE	S95T003091	0 W	@IC-01	NO3-02	SOLID	N/A	5.878e+04	361.100 ug/g
7 SAMPLE	S95T003091	0 W	@IC-01	PO4-02	SOLID	N/A	5.121e+03	306.100 ug/g
7 SAMPLE	S95T003091	0 W	@IC-01	SO4-02	SOLID	N/A	6.260e+02	350.800 ug/g
7 SAMPLE	S95T003091	0 W	@IC-01	OXALATE2	SOLID	N/A	2.146e+03	270.900 ug/g
8 DUP	S95T003091	0 W	@IC-01	F-02	SOLID	failedqgc	failedqgc	RPD
8 DUP	S95T003091	0 W	@IC-01	CL-02	SOLID	6.76e+02	5.90e+02	13.590 RPD
8 DUP	S95T003091	0 W	@IC-01	NO2-02	SOLID	5.27e+02	4.97e+02	5.860 RPD
8 DUP	S95T003091	0 W	@IC-01	BR-02	SOLID	6.19e+02	5.78e+02	6.850 RPD
8 DUP	S95T003091	0 W	@IC-01	NO3-02	SOLID	5.88e+04	5.15e+04	13.240 RPD
8 DUP	S95T003091	0 W	@IC-01	PO4-02	SOLID	5.12e+03	3.99e+03	24.810 RPD
8 DUP	S95T003091	0 W	@IC-01	SO4-02	SOLID	6.26e+02	5.36e+02	15.490 RPD
8 DUP	S95T003091	0 W	@IC-01	OXALATE2	SOLID	2.15e+03	1.88e+03	13.400 RPD

Comments Section:

Comments for sample# S95T003090 and test @IC-01 .

Std for F high rec due to impurity in STD. Rerun F. JMF - *Non-compliance, marked Failed QC.*

Comments for sample# S95T003091 and test @IC-01 .

Std for F failed

Final page for worklist# 4175

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

JMF
Reviewer Signature _____ Date *1/22/96*

LABCORE Completed Worklist Report for Worklist# 4175

Analyst: eal

Instrument: IC01

Book# 1132911

Method: L4-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	59	6.52e+01	110.510 % Recovery	
2 CCV		0	@IC-QC CL	QC	79	8.29e+01	104.940 % Recovery	
2 CCV		0	@IC-QC NO2	QC	534	5.56e+02	104.120 % Recovery	
2 CCV		0	@IC-QC BR	QC	575	6.15e+02	106.960 % Recovery	
2 CCV		0	@IC-QC NO3	QC	614	6.45e+02	105.050 % Recovery	
2 CCV		0	@IC-QC PO4	QC	545	5.99e+02	109.910 % Recovery	
2 CCV		0	@IC-QC SO4	QC	631	6.61e+02	104.750 % Recovery	
2 CCV		0	@IC-QC OXALATE2	QC	525	5.46e+02	104.000 % 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	S95T003090	0 W	@IC-01 F-02	SOLID	N/A	6.951e+03	32.680	ug/g
4 SAMPLE	S95T003090	0 W	@IC-01 CL-02	SOLID	N/A	6.383e+02	42.730	ug/g
4 SAMPLE	S95T003090	0 W	@IC-01 NO2-02	SOLID	N/A	5.500e+02	269.000	ug/g
4 SAMPLE	S95T003090	0 W	@IC-01 BR-02	SOLID	N/A	9.837e+02	316.800	ug/g
4 SAMPLE	S95T003090	0 W	@IC-01 NO3-02	SOLID	N/A	5.358e+04	352.000	ug/g
4 SAMPLE	S95T003090	0 W	@IC-01 PO4-02	SOLID	N/A	4.724e+03	299.200	ug/g
4 SAMPLE	S95T003090	0 W	@IC-01 SO4-02	SOLID	N/A	5.742e+02	341.900	ug/g
4 SAMPLE	S95T003090	0 W	@IC-01 OXALATE2	SOLID	N/A	1.941e+03	264.000	ug/g
5 DUP	S95T003090	0 W	@IC-01 F-02	SOLID	6.95e+03	6.72e+03	3.370	RPD
5 DUP	S95T003090	0 W	@IC-01 CL-02	SOLID	6.38e+02	6.18e+02	3.180	RPD
5 DUP	S95T003090	0 W	@IC-01 NO2-02	SOLID	5.50e+02	5.13e+02	6.960	RPD
5 DUP	S95T003090	0 W	@IC-01 BR-02	SOLID	9.84e+02	8.50e+02	14.610	RPD
5 DUP	S95T003090	0 W	@IC-01 NO3-02	SOLID	5.36e+04	5.13e+04	4.390	RPD
5 DUP	S95T003090	0 W	@IC-01 PO4-02	SOLID	4.72e+03	4.49e+03	4.990	RPD
5 DUP	S95T003090	0 W	@IC-01 SO4-02	SOLID	5.74e+02	6.14e+02	6.730	RPD
5 DUP	S95T003090	0 W	@IC-01 OXALATE2	SOLID	1.94e+03	1.84e+03	5.290	RPD
6 SPK	S95T003090	0 W	@IC-01 F-02	SOLID	59	44.685	75.740 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4175

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003090	0	W	@IC-01	CL-02	SOLID	79	78.840	99.800 % Recovery
6 SPK	S95T003090	0	W	@IC-01	NO2-02	SOLID	534	532.030	99.630 % Recovery
6 SPK	S95T003090	0	W	@IC-01	BR-02	SOLID	575	578.915	100.680 % Recovery
6 SPK	S95T003090	0	W	@IC-01	NO3-02	SOLID	614	527.060	85.840 % Recovery
6 SPK	S95T003090	0	W	@IC-01	PO4-02	SOLID	545	612.710	112.420 % Recovery
6 SPK	S95T003090	0	W	@IC-01	SO4-02	SOLID	631	636.020	100.800 % Recovery
6 SPK	S95T003090	0	W	@IC-01	OXALATE2	SOLID	525	538.945	102.660 % Recovery
7 SAMPLE	S95T003091	0	W	@IC-01	F-02	SOLID	N/A	7.678e+03	33.540 ug/g
7 SAMPLE	S95T003091	0	W	@IC-01	CL-02	SOLID	N/A	6.761e+02	43.850 ug/g
7 SAMPLE	S95T003091	0	W	@IC-01	NO2-02	SOLID	N/A	5.272e+02	276.000 ug/g
7 SAMPLE	S95T003091	0	W	@IC-01	BR-02	SOLID	N/A	6.192e+02	325.000 ug/g
7 SAMPLE	S95T003091	0	W	@IC-01	NO3-02	SOLID	N/A	5.878e+04	361.100 ug/g
7 SAMPLE	S95T003091	0	W	@IC-01	PO4-02	SOLID	N/A	5.121e+03	306.100 ug/g
7 SAMPLE	S95T003091	0	W	@IC-01	SO4-02	SOLID	N/A	6.260e+02	350.800 ug/g
7 SAMPLE	S95T003091	0	W	@IC-01	OXALATE2	SOLID	N/A	2.146e+03	270.900 ug/g
8 DUP	S95T003091	0	W	@IC-01	F-02	SOLID	7.68e+03	6.76e+03	12.740 RPD
8 DUP	S95T003091	0	W	@IC-01	CL-02	SOLID	6.76e+02	5.90e+02	13.590 RPD
8 DUP	S95T003091	0	W	@IC-01	NO2-02	SOLID	5.27e+02	4.97e+02	5.860 RPD
8 DUP	S95T003091	0	W	@IC-01	BR-02	SOLID	6.19e+02	5.78e+02	6.850 RPD
8 DUP	S95T003091	0	W	@IC-01	NO3-02	SOLID	5.88e+04	5.15e+04	13.240 RPD
8 DUP	S95T003091	0	W	@IC-01	PO4-02	SOLID	5.12e+03	3.99e+03	24.810 RPD
8 DUP	S95T003091	0	W	@IC-01	SO4-02	SOLID	6.26e+02	5.36e+02	15.490 RPD
8 DUP	S95T003091	0	W	@IC-01	OXALATE2	SOLID	2.15e+03	1.88e+03	13.400 RPD

Comments Section:

Comments for sample# S95T003090 and test @IC-01 .

Std for F high rec due to impurity in STD. Rerun F. JMF

Comments for sample# S95T003091 and test @IC-01 .

Std for F failed

We will not rerun, but will report and mark as failed QC.

Final page for worklist# 4175

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

John L. Lyle
Reviewer Signature _____ Date *12/20/95*

Please put in forms box

WHO CD-VIM-DP-160, REV 1

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				20-Dec-95	
Worklist#: 4175				Data File: 4175DEC.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1 CCB		-	1 95121411.d02	BLANK	1.00		
	=>	2 CCV			2 95121411.d03	118N9-A	101.00		
	=>	3 BLNK-PREP			3 95121411.d04	PREP BLANK	1.00		
	=>	4 SAMPLE	S95T003090		95121411.d05	S95T003090	11.00		
	=>	5 DUP	S95T003090		95121411.d06	S95T003090 DUP	11.00		
	=>	6 SPK	S95T003090	4	95121411.d07	S95T003090	21.00		
	=>	7 SAMPLE	S95T003091	5	95121411.d08	S95T003090 DUP	21.00		
	=>	8 DUP	S95T003091	6	95121411.d09	S95T003090 SPIK	21.00		
				7	95121411.d10	S95T003091	21.00		
				8	95121411.d11	S95T003091 DUP	21.00		
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

LABCORE Data Entry Template for Worklist# 4175

Analyst: EAL Instrument: IC01 Book# 11819-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003090 0 W	@IC-01	SOLID	95000158 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003090 0 W	@IC-01	SOLID			
6 SPK	S95T003090 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003091 0 W	@IC-01	SOLID	95000158 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003091 0 W	@IC-01	SOLID			

Final page for worklist # 4175

A. Lankel 12.14.95
Analyst Signature Date

Analyst Signature Date

Data Entry Comments:

=====

Sample Name: BLANK	Date: 12/14/1995 15:36:29
Data File : C:\DX\DATA\95121411.D02	
Method : C:\DX\METHOD\AUTOMEL.MET	
ACI Address: 1 System: 1 Inject#: 2	Detector: CDM-1
Analyst : <i>Alumbel</i>	Column: AG4A/AS4A anion column

=====

12-14-95

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		

File: 95121411.D02 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES *415* TO *424*

```
=====
Sample Name: 118N9-A                                     Date: 12/14/1995 15:50:12
Data File  : C:\DX\DATA\95121411.D03
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 3                      Detector: CDM-1
Analyst    : [Signature] Column: AG4A/AS4A anion column
=====
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.09	fluoride	65.244	1363	8394	2	1.56
3	1.61	chloride	82.948	1175	7161	1	1.05
4	1.92	nitrite	556.055	5193	34051	1	1.59
5	2.85	bromide	615.135	3286	24306	1	-0.12
6	3.25	nitrate	644.970	3910	32961	1	-0.71
7	4.67	phosphate	599.353	1226	15338	1	0.57
8	6.19	sulfate	661.028	3157	45892	1	1.75
9	8.11	oxalate	545.541	1476	28484	1	1.33
Totals			3770.274	20786	196587		

File: 95121411.D03 Sample: 118N9-A

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=====
Sample Name: PREP BLANK                      Date: 12/14/1995 16:04:54
Data File  : C:\DX\DATA\95121411.D04
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1   System: 1   Inject#: 4       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
1	1.33		0.000	151	1758	1	
Totals			0.000	151	1758		

File: 95121411.D04 Sample: PREP BLANK

```

=====
Sample Name: S95T003090                      Date: 12/14/1995 16:18:34
Data File  : C:\DX\DATA\95121411.D05
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 5           Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11    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	1.07	fluoride	54.122	11552	70798	✓ 1	0.31
2	1.59	chloride	5.058	660	3997	1	-0.21
3	1.89	nitrite	3.212	168	1027	1	0.18
4	2.83	bromide	6.212	288	1909	1	-0.82
5	3.14	nitrate	419.548	22087	216343	1	-3.98
6	4.67	phosphate	35.459	672	8176	1	0.57
7	6.19	sulfate	3.389	88	1261	1	1.75
8	8.16	oxalate	14.751	390	6905	1	2.00
Totals			541.752	35905	310417		

File: 95121411.D05 Sample: S95T003090

Sample Name: S95T003090 DUP Date: 12/14/1995 16:41:13
 Data File : C:\DX\DATA\95121411.D06
 Method : C:\DX\METHOD\AUTOMEL.MET
 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 11 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	1.07	fluoride	56.404	12444	74219	1	0.31
2	1.59	chloride	5.049	664	3991	1	-0.21
3	1.89	nitrite	3.362	181	1113	1	0.18
4	2.82	bromide	6.475	306	2004	1	-1.05
5	3.13	nitrate	442.360	23508	229458	1	-4.38
6	4.67	phosphate	38.340	730	8863	1	0.57
7	6.19	sulfate	3.561	96	1371	1	1.75
8	8.11	oxalate	16.127	384	7566	1	1.33
Totals			571.678	38312	328585		

File: 95121411.D06 Sample: S95T003090 DUP

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=====
Sample Name: S95T003090                      Date: 12/14/1995 16:56:37
Data File  : C:\DX\DATA\95121411.D07
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1  System: 1  Inject#: 7          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21    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	1.07	fluoride	58.063	6233	37645	1	0.31
2	1.59	chloride	5.332	357	2206	1	-0.21
3	1.89	nitrite	4.594	95	567 ✓	1	0.18
4	2.83	bromide	8.217	169	1217	1	-0.58
5	3.17	nitrate	447.588	12669	115488	1	-3.16
6	4.67	phosphate	39.458	378	4664	1	0.57
7	6.19	sulfate	4.796	51	700 ✓	1	1.75
8	8.11	oxalate	16.211	213	3899	1	1.33
Totals			584.259	20164	166385		

File: 95121411.D07 Sample: S95T003090

```

=====
Sample Name: S95T003090  DUP                               Date: 12/14/1995 17:11:19
Data File  : C:\DX\DATA\95121411.D08
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1  System: 1  Inject#: 8                      Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21   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	1.09	fluoride	58.003	6084	37603	1	1.56
2	1.61	chloride	5.332	364	2207	1	1.05
3	1.91	nitrite	4.424	89	516 ✓	1	1.23
4	2.85	bromide	7.332	157	1049	1	-0.12
5	3.19	nitrate	441.262	12468	113764	1	-2.34
6	4.69	phosphate	38.702	375	4570	1	1.15
7	6.19	sulfate	5.296	53	867 ✓	1	1.75
8	8.16	oxalate	15.861	212	3811	1	2.00
Totals			576.213	19801	164387		

File: 95121411.D08 Sample: S95T003090 DUP

```

=====
Sample Name: S95T003090 SPIKE                               Date: 12/14/1995 17:24:28
Data File  : C:\DX\DATA\95121411.D09
Method     : C:\DX\METHOD\AUTOMEL.MET
ACI Address: 1 System: 1 Inject#: 9                          Detector: CDM-1
Analyst    :                               Column: AG4A/AS4A anion column
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21  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	1.07	fluoride	67.004	7304	43886	2	0.31
3	1.59	chloride	21.065	1455	8761	1	-0.21
4	1.89	nitrite	111.157	4995	32697	1	0.18
5	2.82	bromide	123.796	3390	23502	1	-1.05
6	3.15	nitrate	552.851	15699	144574	1	-3.57
7	4.64	phosphate	161.683	1536	20062	1	0.00
8	6.13	sulfate	131.642	2920	43886	1	0.88
9	8.05	oxalate	123.580	1640	31068	1	0.67
Totals			1292.778	38939	348436		

File: 95121411.D09 Sample: S95T003090 SPIKE

=====

Sample Name: S95T003091	Date: 12/14/1995 17:39:14
Data File : C:\DX\DATA\95121411.D10	
Method : C:\DX\METHOD\AUTOMEL.MET	
ACI Address: 1 System: 1 Inject#: 10	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

=====

Calibration Volume Dilution Points Rate Start Stop Area Reject

External	1	21	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	1.09	fluoride	62.506	6579	40729	1	1.56
2	1.61	chloride	5.504	382	2278	1	1.47
3	1.92	nitrite	4.292	81	476	1	1.59
4	2.86	bromide	5.041	93	615	1	0.35
5	3.20	nitrate	478.559	13417	123968	1	-2.14
6	4.67	phosphate	41.689	389	4940	1	0.57
7	6.19	sulfate	5.096	58	800	1	1.75
8	8.11	oxalate	17.469	223	4215	1	1.33
Totals			620.156	21222	178021		

File: 95121411.D10 Sample: S95T003091

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=====
Sample Name: S95T003091  DUP                               Date: 12/14/1995 17:52:06
Data File  : C:\DX\DATA\95121411.D11
Method     : C:\DX\METHOD\AUTOMEL.MET
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           21    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	1.07	fluoride	57.220	5925	37063	1	0.31
2	1.59	chloride	5.000	338	2069	1	-0.21
3	1.89	nitrite	4.211	74	452 ✓	1	0.18
4	2.84	bromide	4.897	86	588	1	-0.35
5	3.19	nitrate	435.726	12122	112257	1	-2.55
6	4.67	phosphate	33.795	339	3962	1	0.57
7	6.19	sulfate	4.536	46	613 ✓	1	1.75
8	8.11	oxalate	15.902	201	3821	1	1.33
Totals			561.288	19132	160825		

File: 95121411.D11 Sample: S95T003091 DUP

WHC-SD-WM-DP-160, REV. 1

LABCORE Completed Worklist Report for Worklist# 4176

Analyst: eal

Instrument: IC01

Book# 122194

Method: 1A 533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		ug/mL
1	CCB		0		@IC-QC CL	QC	1	<1.70e-2		ug/mL
1	CCB		0		@IC-QC NC2	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 NC3	QC	1	<1.40e-1		ug/mL
1	CCB		0		@IC-QC PC4	QC	1	2.88e-01	0.290	ug/mL
1	CCB		0		@IC-QC SC4	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	59	6.48e+01	109.830	% Recovery
2	CCV		0		@IC-QC CL	QC	79	7.89e+01	99.870	% Recovery
2	CCV		0		@IC-QC NC2	QC	536	5.35e+02	99.810	% Recovery
2	CCV		0		@IC-QC BR	QC	575	6.11e+02	106.260	% Recovery
2	CCV		0		@IC-QC NC3	QC	614	6.60e+02	107.490	% Recovery
2	CCV		0		@IC-QC PC4	QC	546	5.77e+02	105.680	% Recovery
2	CCV		0		@IC-QC SC4	QC	631	6.58e+02	104.280	% Recovery
2	CCV		0		@IC-QC OXALATE2	QC	525	5.64e+02	107.430	% 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 NC2-02	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 NC3-02	SOLID	1	2.28e-01	0.230	ug/g
3	BLNK-PREP		0		@IC-01 PC4-02	SOLID	1	<1.19e-1		ug/g
3	BLNK-PREP		0		@IC-01 SC4-02	SOLID	1	<1.36e-1		ug/g
3	BLNK-PREP		0		@IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4	SAMPLE	S95T003092	0	W	@IC-01 F-02	SOLID	N/A	6.254e+03	27.930	ug/g
4	SAMPLE	S95T003092	0	W	@IC-01 CL-02	SOLID	N/A	5.728e+02	36.520	ug/g
4	SAMPLE	S95T003092	0	W	@IC-01 NC2-02	SOLID	N/A	4.198e+02	229.800	ug/g
4	SAMPLE	S95T003092	0	W	@IC-01 BR-02	SOLID	N/A	6.641e+02	270.600	ug/g
4	SAMPLE	S95T003092	0	W	@IC-01 NC3-02	SOLID	N/A	4.991e+04	300.700	ug/g
4	SAMPLE	S95T003092	0	W	@IC-01 PC4-02	SOLID	N/A	3.668e+03	255.600	ug/g
4	SAMPLE	S95T003092	0	W	@IC-01 SC4-02	SOLID	N/A	4.630e+02	292.100	ug/g
4	SAMPLE	S95T003092	0	W	@IC-01 OXALATE2	SOLID	N/A	1.753e+03	225.500	ug/g
5	DUP	S95T003092	0	W	@IC-01 F-02	SOLID	6.25e+03	6.47e+03	3.460	RPD
5	DUP	S95T003092	0	W	@IC-01 CL-02	SOLID	5.73e+02	6.28e+02	9.160	RPD
5	DUP	S95T003092	0	W	@IC-01 NC2-02	SOLID	4.20e+02	4.25e+02	1.180	RPD
5	DUP	S95T003092	0	W	@IC-01 BR-02	SOLID	6.64e+02	6.78e+02	2.090	RPD
5	DUP	S95T003092	0	W	@IC-01 NC3-02	SOLID	4.99e+04	5.05e+04	1.200	RPD
5	DUP	S95T003092	0	W	@IC-01 PC4-02	SOLID	3.67e+03	3.80e+03	3.480	RPD
5	DUP	S95T003092	0	W	@IC-01 SC4-02	SOLID	4.63e+02	9.92e+02	72.710	RPD
5	DUP	S95T003092	0	W	@IC-01 OXALATE2	SOLID	1.75e+03	1.86e+03	6.090	RPD
6	SPK	S95T003092	0	W	@IC-01 F-02	SOLID	59	75.780	128.440	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4176

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003092	0	W	@IC-01	CL-02	SOLID	79	79.000	100.000 % Recovery
6 SPK	S95T003092	0	W	@IC-01	NO2-02	SOLID	536	524.485	97.850 % Recovery
6 SPK	S95T003092	0	W	@IC-01	BR-02	SOLID	575	592.535	103.050 % Recovery
6 SPK	S95T003092	0	W	@IC-01	NO3-02	SOLID	614	699.925	113.990 % Recovery
6 SPK	S95T003092	0	W	@IC-01	PO4-02	SOLID	546	595.690	109.100 % Recovery
6 SPK	S95T003092	0	W	@IC-01	SO4-02	SOLID	631	647.365	102.590 % Recovery
6 SPK	S95T003092	0	W	@IC-01	OXALATE2	SOLID	525	579.300	110.340 % Recovery
7 SAMPLE	S95T003093	0	W	@IC-01	F-02	SOLID	N/A	6.015e+03	30.620 ug/g
7 SAMPLE	S95T003093	0	W	@IC-01	CL-02	SOLID	N/A	5.464e+02	40.030 ug/g
7 SAMPLE	S95T003093	0	W	@IC-01	NO2-02	SOLID	N/A	4.143e+02	252.000 ug/g
7 SAMPLE	S95T003093	0	W	@IC-01	BR-02	SOLID	N/A	6.530e+02	296.700 ug/g
7 SAMPLE	S95T003093	0	W	@IC-01	NO3-02	SOLID	N/A	4.729e+04	329.700 ug/g
7 SAMPLE	S95T003093	0	W	@IC-01	PO4-02	SOLID	N/A	3.372e+03	280.200 ug/g
7 SAMPLE	S95T003093	0	W	@IC-01	SO4-02	SOLID	N/A	4.820e+02	320.300 ug/g
7 SAMPLE	S95T003093	0	W	@IC-01	OXALATE2	SOLID	N/A	1.696e+03	247.300 ug/g
8 DUP	S95T003093	0	W	@IC-01	F-02	SOLID	6.02e+03	6.37e+03	5.650 RPD
8 DUP	S95T003093	0	W	@IC-01	CL-02	SOLID	5.46e+02	5.67e+02	3.770 RPD
8 DUP	S95T003093	0	W	@IC-01	NO2-02	SOLID	4.14e+02	4.25e+02	2.620 RPD
8 DUP	S95T003093	0	W	@IC-01	BR-02	SOLID	6.53e+02	7.21e+02	9.900 RPD
8 DUP	S95T003093	0	W	@IC-01	NO3-02	SOLID	4.73e+04	4.94e+04	4.340 RPD
8 DUP	S95T003093	0	W	@IC-01	PO4-02	SOLID	3.37e+03	3.69e+03	9.070 RPD
8 DUP	S95T003093	0	W	@IC-01	SO4-02	SOLID	4.82e+02	4.14e+02	15.180 RPD
8 DUP	S95T003093	0	W	@IC-01	OXALATE2	SOLID	1.70e+03	1.80e+03	5.710 RPD

Final page for worklist# 4176

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date _____

LABCORE Data Entry Template for Worklist# 4176

Analyst: EAL Instrument: IC01 JCC Book# 122N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003092	0	W	@IC-01	SOLID	95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02								
5	DUP	S95T003092	0	W	@IC-01	SOLID		
6	SPK	S95T003092	0	W	@IC-01	SOLID		
7	SAMPLE	S95T003093	0	W	@IC-01	SOLID	95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02								
8	DUP	S95T003093	0	W	@IC-01	SOLID		

Final page for worklist # 4176

A. Lambel 12-30-95
Analyst Signature Date

Jane M. Lyle 1/4/96
Updated at 4:00 PM
Copied

Analyst Signature Date

Data Entry Comments:

```

=====
Sample Name:  BLANK                      Date: 12/30/1995 07:16:52
Data File   :  C:\DX\DATA\95123001.D01
Method      :  C:\DX\METHOD\KIT.MET      WHC-SD-WM-DP-160, REV. I
ACI Address: 1  System: 1  Inject#: 1      Detector: CDM-1
Analyst     :  A Lambel                   Column:
=====

```

12-30-95

```

-----
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	4.56	PHOSPHATE	0.288	53	541	1	-1.72
Totals			0.288	53	541		

File: 95123001.D01 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 428 TO 441.

Sample Name: 122N9-A STD. Date: 12/30/1995 07:31:09
 Data File : C:\DX\DATA\95123001.D02
 Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-160, REV. 1
 ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
 Analyst : *A. Lambe* 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
2	1.09	FLUORIDE	66.258 <i>64.775</i>	1370	8526	2	1.56
3	1.59	CHLORIDE	78.908	1107	6810	1	0.21
4	1.90	NITRITE	534.611	4879	32697	1	0.53
5	2.82	BROMIDE	610.908	3250	24134	1	-1.05
6	3.21	NITRATE	659.876	3921	33749	1	-1.94
7	4.59	PHOSPHATE	576.648	1183	14740	1	-1.15
8	5.93	SULFATE	657.932	3342	45669	1	-2.41
9	7.77	OXALATE	564.008	1653	29461	1	-2.83
Totals			3749.148	20704	195786		

File: 95123001.D02 Sample: 122N9-A STD.

Sample Name: PREP BLANK

Date: 12/30/1995 07:50:40

Data File : C:\DX\DATA\95123001.D04

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 4

Detector: CDM-1

Analyst : A Lambert 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
1	1.31		0.000	143	1628	1	
2	3.25	NITRATE	0.228	66	496	1	-0.71
Totals			0.228	210	2124		

File: 95123001.D04 Sample: PREP BLANK

Sample Name: S95TOO3092 SPIKE Date: 12/30/1995 08:34:13
 Data File : C:\DX\DATA\95123001.D07
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
 Analyst : *A. Lambel* Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

 External 1 21 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	1.07	FLUORIDE	76.305	8164	50528	1	0.31
2	1.57	CHLORIDE	21.383	1456	8895	1	-1.05
3	1.87	NITRITE	109.424	4843	32171	1	-0.88
4	2.78	BROMIDE	125.370	3400	23810	1	-2.46
5	3.11	NITRATE	628.479	17536	165950	1	-4.99
6	4.57	PHOSPHATE	154.518	1528	19145	1	-1.44
7	5.91	SULFATE	134.453	3236	44858	1	-2.85
8	7.75	OXALATE	133.307	1840	33548	1	-3.17
Totals			1383.240	42002	378905		

File: 95123001.D07 Sample: S95TOO3092 SPIKE

Data Reprocessed On 01/05/1996 15:34:37

```

=====
Sample Name: S95T BLK-PREP                      Date: 12/29/1995 03:16:39
Data File  : C:\DX\DATA\95122821.d14
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 14          Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.89	NITRITE	1.608	21	110	1	-0.18
3	3.21	NITRATE	1.906	31	212	1	-1.94
Totals			3.514	52	322		

File: 95122821.d14 Sample: S95T BLK-PREP

Data Reprocessed On 01/05/1996 15:34:39

```

=====
Sample Name: S95T BLK-PREP                      Date: 12/29/1995 03:28:21
Data File  : C:\DX\DATA\95122821.d15
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 15           Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.88	NITRITE	1.604	21	108	1	-0.53
3	3.21	NITRATE	2.250	52	375	1	-1.73
Totals			3.854	73	483		

File: 95122821.d15 Sample: S95T BLK-PREP

Data Reprocessed On 01/05/1996 15:35:55

```

=====
Sample Name:  BLANK                      Date: 12/30/1995 07:16:52
Data File   :  C:\DX\DATA\95123001.d01
Method      :  C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 1    Detector: CDM-1
Analyst     :                      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	4.56	PHOSPHATE	0.288	53	541	1	-1.72
Totals			0.288	53	541		

File: 95123001.d01 Sample: BLANK

Data Reprocessed On 01/05/1996 15:35:57

Sample Name: 122N9-A STD.

Date: 12/30/1995 07:31:09

Data File : C:\DX\DATA\95123001.d02

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

Analyst : 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
3	1.09	FLUORIDE	64.775	1356	8333	1	1.56
4	1.59	CHLORIDE	78.908	1107	6810	1	0.21
5	1.90	NITRITE	534.611	4879	32697	1	0.53
6	2.82	BROMIDE	610.908	3250	24134	1	-1.05
7	3.21	NITRATE	659.876	3921	33749	1	-1.94
8	4.59	PHOSPHATE	576.648	1183	14740	1	-1.15
9	5.93	SULFATE	657.932	3342	45669	1	-2.41
10	7.77	OXALATE	564.008	1653	29461	1	-2.83
Totals			3747.666	20691	195593		

File: 95123001.d02 Sample: 122N9-A STD.

Data Reprocessed On 01/05/1996 15:35:59

```

=====
Sample Name: PREP BLANK                      Date: 12/30/1995 07:50:40
Data File  : C:\DX\DATA\95123001.d04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4          Detector: CDM-1
Analyst    :                               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
1	1.31		0.000	143	1628	1	
2	3.25	NITRATE	0.228	66	496	1	-0.71
Totals			0.228	210	2124		

File: 95123001.d04 Sample: PREP BLANK

Data Reprocessed On 01/05/1996 15:36:01

```

=====
Sample Name: S95TOO3092                      Date: 12/30/1995 08:05:33
Data File  : C:\DX\DATA\95123001.d05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 5          Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	FLUORIDE	61.144	6610	39780	1	0.31
2	1.57	CHLORIDE	5.600	379	2317	1	-1.05
3	1.87	NITRITE	4.103	71	420	1	-0.88
4	2.80	BROMIDE	6.493	131	890	1	-1.75
5	3.13	NITRATE	488.015	13594	126571	1	-4.18
6	4.57	PHOSPHATE	35.862	339	4218	1	-1.44
7	5.93	SULFATE	4.527	46	610	1	-2.41
8	7.77	OXALATE	17.140	238	4132	1	-2.83
Totals			622.884	21407	178937		

File: 95123001.d05 Sample: S95TOO3092

Data Reprocessed On 01/05/1996 15:36:03

```

=====
Sample Name: S95TOO3092  DUP                               Date: 12/30/1995 08:17:18
Data File  : C:\DX\DATA\95123001.d06
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 6                      Detector: CDM-1
Analyst    :                               Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	61.302	6545	39890	1	1.56
2	1.59	CHLORIDE	5.945	401	2460	1	0.21
3	1.90	NITRITE	4.026	69	396	1	0.53
4	2.82	BROMIDE	6.425	129	877	1	-1.05
5	3.15	NITRATE	476.928	13539	123521	1	-3.77
6	4.60	PHOSPHATE	36.020	343	4238	1	-0.86
7	5.93	SULFATE	9.468	76	2267	1	-2.41
8	7.80	OXALATE	17.581	241	4243	1	-2.50
Totals			617.696	21344	177893		

File: 95123001.d06 Sample: S95TOO3092 DUP

Data Reprocessed On 01/05/1996 15:36:05

```

=====
Sample Name: S95TOO3092 SPIKE                      Date: 12/30/1995 08:34:13
Data File  : C:\DX\DATA\95123001.d07
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7                  Detector: CDM-1
Analyst    :                      Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	FLUORIDE	76.305	8164	50528	1	0.31
2	1.57	CHLORIDE	21.383	1456	8895	1	-1.05
3	1.87	NITRITE	109.424	4843	32171	1	-0.88
4	2.78	BROMIDE	125.370	3400	23810	1	-2.46
5	3.11	NITRATE	628.479	17536	165950	1	-4.99
6	4.57	PHOSPHATE	154.518	1528	19145	1	-1.44
7	5.91	SULFATE	134.453	3236	44858	1	-2.85
8	7.75	OXALATE	133.307	1840	33548	1	-3.17
Totals			1383.240	42002	378905		

File: 95123001.d07 Sample: S95TOO3092 SPIKE

Data Reprocessed On 01/05/1996 15:36:07

```

=====
Sample Name: S95TOO3093                      Date: 12/30/1995 08:48:27
Data File  : C:\DX\DATA\95123001.d08
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 8          Detector: CDM-1
Analyst    :                               Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	FLUORIDE	53.636	5557	34603	1	0.31
2	1.57	CHLORIDE	4.871	328	2016	1	-1.05
3	1.87	NITRITE	3.694	51	297	1	-0.88
4	2.79	BROMIDE	5.823	115	763	1	-2.22
5	3.13	NITRATE	421.726	11813	108456	1	-4.38
6	4.59	PHOSPHATE	30.070	286	3502	1	-1.15
7	5.93	SULFATE	4.298	39	533	1	-2.41
8	7.77	OXALATE	15.127	204	3626	1	-2.83
Totals			539.245	18392	153795		

File: 95123001.d08 Sample: S95TOO3093

Data Reprocessed On 01/05/1996 15:36:09

```

=====
Sample Name: S95TOO3093  DUP                               Date: 12/30/1995 08:59:32
Data File  : C:\DX\DATA\95123001.d09
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 9                      Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  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	1.07	FLUORIDE	55.989	5880	36216	1	-0.31
2	1.57	CHLORIDE	4.978	345	2060	1	-1.05
3	1.88	NITRITE	3.734	54	309	1	-0.53
4	2.79	BROMIDE	6.331	127	859	1	-1.99
5	3.12	NITRATE	433.878	12378	111755	1	-4.59
6	4.59	PHOSPHATE	32.441	305	3795	1	-1.15
7	5.93	SULFATE	3.640	29	312	1	-2.41
8	7.77	OXALATE	15.832	216	3804	1	-2.83
Totals			556.823	19334	159110		

File: 95123001.d09 Sample: S95TOO3093 DUP

LABCORE Completed Worklist Report for Worklist# 4177

Analyst: pjm

Instrument: IC01

Book# 123456

Method: 4.4-5.33.105 Rev/Mod 0.1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	2.43e-01	0.240	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	59	6.39e+01	108.310 % Recovery	
2 CCV		0	@IC-QC CL	QC	79	7.58e+01	95.950 % Recovery	
2 CCV		0	@IC-QC NO2	QC	536	5.16e+02	96.270 % Recovery	
2 CCV		0	@IC-QC BR	QC	575	5.92e+02	102.960 % Recovery	
2 CCV		0	@IC-QC NO3	QC	614	6.52e+02	106.190 % Recovery	
2 CCV		0	@IC-QC PO4	QC	546	5.73e+02	104.950 % Recovery	
2 CCV		0	@IC-QC SO4	QC	631	6.46e+02	102.380 % Recovery	
2 CCV		0	@IC-QC OXALATE2	QC	525	5.55e+02	105.710 % 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	2.22e-01	0.220	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	S95T003094	0 W	@IC-01 F-02	SOLID	N/A	6.945e+03	34.270	ug/g
4 SAMPLE	S95T003094	0 W	@IC-01 CL-02	SOLID	N/A	6.372e+02	44.830	ug/g
4 SAMPLE	S95T003094	0 W	@IC-01 NO2-02	SOLID	N/A	4.621e+02	282.100	ug/g
4 SAMPLE	S95T003094	0 W	@IC-01 BR-02	SOLID	N/A	8.625e+02	332.200	ug/g
4 SAMPLE	S95T003094	0 W	@IC-01 NO3-02	SOLID	N/A	5.452e+04	369.200	ug/g
4 SAMPLE	S95T003094	0 W	@IC-01 PO4-02	SOLID	N/A	3.968e+03	313.800	ug/g
4 SAMPLE	S95T003094	0 W	@IC-01 SO4-02	SOLID	N/A	4.746e+02	358.600	ug/g
4 SAMPLE	S95T003094	0 W	@IC-01 OXALATE2	SOLID	N/A	2.039e+03	276.900	ug/g
5 DUP	S95T003094	0 W	@IC-01 F-02	SOLID	6.94e+03	6.91e+03	0.430	RPD
5 DUP	S95T003094	0 W	@IC-01 CL-02	SOLID	6.37e+02	6.23e+02	2.220	RPD
5 DUP	S95T003094	0 W	@IC-01 NO2-02	SOLID	4.62e+02	4.50e+02	2.630	RPD
5 DUP	S95T003094	0 W	@IC-01 BR-02	SOLID	8.62e+02	8.56e+02	0.700	RPD
5 DUP	S95T003094	0 W	@IC-01 NO3-02	SOLID	5.45e+04	5.39e+04	1.110	RPD
5 DUP	S95T003094	0 W	@IC-01 PO4-02	SOLID	3.97e+03	3.92e+03	1.270	RPD
5 DUP	S95T003094	0 W	@IC-01 SO4-02	SOLID	4.75e+02	4.87e+02	2.490	RPD
5 DUP	S95T003094	0 W	@IC-01 OXALATE2	SOLID	2.04e+03	1.94e+03	5.030	RPD
6 SPK	S95T003094	0 W	@IC-01 F-02	SOLID	59	74.455	126.190 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4177

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003094	0	W	@IC-01	CL-02	SOLID	79	118.625	150.160 % Recovery
6 SPK	S95T003094	0	W	@IC-01	NO2-02	SOLID	536	516.565	96.370 % Recovery
6 SPK	S95T003094	0	W	@IC-01	BR-02	SOLID	575	585.655	101.850 % Recovery
6 SPK	S95T003094	0	W	@IC-01	NO3-02	SOLID	614	714.595	116.380 % Recovery
6 SPK	S95T003094	0	W	@IC-01	PO4-02	SOLID	546	651.975	119.410 % Recovery
6 SPK	S95T003094	0	W	@IC-01	SO4-02	SOLID	631	646.100	102.390 % Recovery
6 SPK	S95T003094	0	W	@IC-01	OXALATE2	SOLID	525	553.800	105.490 % Recovery
7 SAMPLE	S95T003095	0	W	@IC-01	F-02	SOLID	N/A	6.479e+03	26.460 ug/g
7 SAMPLE	S95T003095	0	W	@IC-01	CL-02	SOLID	N/A	5.815e+02	34.610 ug/g
7 SAMPLE	S95T003095	0	W	@IC-01	NO2-02	SOLID	N/A	3.588e+02	217.800 ug/g
7 SAMPLE	S95T003095	0	W	@IC-01	BR-02	SOLID	N/A	8.172e+02	256.500 ug/g
7 SAMPLE	S95T003095	0	W	@IC-01	NO3-02	SOLID	N/A	5.107e+04	284.900 ug/g
7 SAMPLE	S95T003095	0	W	@IC-01	PO4-02	SOLID	N/A	3.354e+03	242.200 ug/g
7 SAMPLE	S95T003095	0	W	@IC-01	SO4-02	SOLID	N/A	3.470e+02	276.800 ug/g
7 SAMPLE	S95T003095	0	W	@IC-01	OXALATE2	SOLID	N/A	1.814e+03	213.700 ug/g
8 DUP	S95T003095	0	W	@IC-01	F-02	SOLID	6.48e+03	6.77e+03	4.380 RPD
8 DUP	S95T003095	0	W	@IC-01	CL-02	SOLID	5.82e+02	6.02e+02	3.380 RPD
8 DUP	S95T003095	0	W	@IC-01	NO2-02	SOLID	3.59e+02	3.69e+02	2.750 RPD
8 DUP	S95T003095	0	W	@IC-01	BR-02	SOLID	8.17e+02	8.42e+02	3.010 RPD
8 DUP	S95T003095	0	W	@IC-01	NO3-02	SOLID	5.11e+04	5.31e+04	3.840 RPD
8 DUP	S95T003095	0	W	@IC-01	PO4-02	SOLID	3.35e+03	3.54e+03	5.520 RPD
8 DUP	S95T003095	0	W	@IC-01	SO4-02	SOLID	3.47e+02	4.27e+02	20.670 RPD
8 DUP	S95T003095	0	W	@IC-01	OXALATE2	SOLID	1.81e+03	1.92e+03	5.900 RPD

Comments Section:

Comments for sample# S95T003095 and test @IC-01 .
Rpd on SO4 poor

Final page for worklist# 4177

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____

Date _____

LABCORE Data Entry Template for Worklist# 4177

Analyst: RJ McCown Instrument: IC01 1.00 Book# 122109A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003094 0 W	@IC-01	SOLID	95000158 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003094 0 W	@IC-01	SOLID			
6 SPK	S95T003094 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003095 0 W	@IC-01	SOLID	95000158 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003095 0 W	@IC-01	SOLID			

Final page for worklist # 4177

RJ McCown 12/31/95
Analyst Signature Date

Analyst Signature Date

Uploaded 1/2/96 Jenn M. Lyle

Data Entry Comments:

A-0010-IC DATA FILE/WORKLIST RESOLUTION 02-Jan-96

Worklist#: 4177 Data File: 4177DEC.CSV

Seq Type	Sample #	Seq#	Data File	Sample Name	Dilution
=> 1 CCB		- 1	95123101.d17	CCB WL 4177	1.00
=> 2 CCV		2	95123101.d18	CCV 122N9A	101.00
=> 3 BLNK-PREP		3	95123101.d19	PREP. BLANK	1.00
=> 4 SAMPLE	S95T003094	4	95123101.d20	S95T003094 SAMPL	21.00
=> 5 DUP	S95T003094	5	95123101.d21	S95T003094 DUP.	21.00
=> 6 SPK	S95T003094	6	95123101.d22	S95T003094 SPIKE	21.00
=> 7 SAMPLE	S95T003095	7	95123101.d23	S95T003095 SAMPL	21.00
=> 8 DUP	S95T003095	8	95123101.d24	S95T003095 DUP.	21.00

+ +

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)


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=====
Sample Name: CCB WL 4177                      Date: 12/31/1995 13:39:12
Data File  : C:\DX\DATA\95123101.D17
Method     : C:\DX\METHOD\KIT.MET           WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 17         Detector: CDM-1
Analyst    :                               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	3.24	NITRATE	0.243	76	573	1	-0.92
Totals			0.243	76	573		

ELUENT BLANK DIRECT R. McLowry 12/31/95
File: 95123101.D17 Sample: CCB WL 4177

Sample Name: CCV 122N9A Date: 12/31/1995 13:50:21
 Data File : C:\DX\DATA\95123101.D18
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 18 Detector: CDM-1
 Analyst : 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
2	1.09	FLUORIDE	63.864	1324	8214	2	1.56
3	1.60	CHLORIDE	75.793	1092	6539	1	0.63
4	1.90	NITRITE	515.805	4787	31510	1	0.53
5	2.81	BROMIDE	592.376	3191	23379	1	-1.29
6	3.20	NITRATE	652.385	3903	33353	1	-2.14
7	4.59	PHOSPHATE	572.910	1158	14641	1	-1.15
8	5.93	SULFATE	646.181	3235	44824	1	-2.41
9	7.77	OXALATE	554.870	1618	28978	1	-2.83
Totals			3674.184	20307	191437		

.100 mL - 10 mL B. McCoum 12/31/95

File: 95123101.D18 Sample: CCV 122N9A

```

=====
Sample Name: PREP. BLANK                      Date: 12/31/1995 14:05:22
Data File  : C:\DX\DATA\95123101.D19          WHC-SD-WM-DP-160, REV. /
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 19           Detector: CDM-1
Analyst    :                               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
1	1.32		0.000	138	1590	1	
2	3.23	NITRATE	0.222	64	466	1	-1.12
Totals			0.222	203	2055		

DIRECT 2/McCowan 12/31/95
File: 95123101.D19 Sample: PREP. BLANK

```

=====
Sample Name: S95T003094 SAMPLE                      Date: 12/31/1995 14:18:48
Data File  : C:\DX\DATA\95123101.D20
Method     : C:\DX\METHOD\KIT.MET                   WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 20                 Detector: CDM-1
Analyst    :                                         Column:
=====

```

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Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	55.309	5925	35749	1	1.56
2	1.60	CHLORIDE	5.075	345	2100	1	0.63
3	1.90	NITRITE	3.687	48	295	1	0.53
4	2.81	BROMIDE	6.869	139	962	1	-1.29
5	3.15	NITRATE	434.081	12410	111810	1	-3.77
6	4.59	PHOSPHATE	31.605	298	3691	1	-1.15
7	5.96	SULFATE	3.780	28	359	1	-1.97
8	7.80	OXALATE	16.240	212	3906	1	-2.50
Totals			556.645	19405	158872		

. 500ml - 10ml R/McCown 12/31/95

File: 95123101.D20 Sample: S95T003094 SAMPLE

```

=====
Sample Name: S95T003094 DUP.                      Date: 12/31/1995 14:33:42
Data File  : C:\DX\DATA\95123101.D21
Method     : C:\DX\METHOD\KIT.MET                WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 21              Detector: CDM-1
Analyst    :                                     Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	55.248	5816	35707	1	1.56
2	1.59	CHLORIDE	4.986	335	2064	1	0.21
3	1.90	NITRITE	3.599	46	269	1	0.53
4	2.81	BROMIDE	6.850	137	958	1	-1.29
5	3.15	NITRATE	431.277	12222	111048	1	-3.77
6	4.60	PHOSPHATE	31.959	302	3735	1	-0.86
7	5.96	SULFATE	3.893	31	397	1	-1.97
8	7.80	OXALATE	15.528	210	3727	1	-2.50
Totals			553.341	19099	157904		

. 500mL - 10mL B McCown 12/31/95
File: 95123101.D21 Sample: S95T003094 DUP.

```

=====
Sample Name: S95T003094 SPIKE                               Date: 12/31/1995 14:46:25
Data File  : C:\DX\DATA\95123101.D22
Method     : C:\DX\METHOD\KIT.MET                          WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 22                        Detector: CDM-1
Analyst    :                                                Column:
=====

```

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Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	70.215	7430	46161	1	1.56
2	1.59	CHLORIDE	28.791	1972	12019	1	0.21
3	1.89	NITRITE	107.056	4751	31452	1	0.18
4	2.80	BROMIDE	124.463	3347	23633	1	-1.75
5	3.13	NITRATE	576.583	16166	151237	1	-4.38
6	4.59	PHOSPHATE	161.543	1512	20044	1	-1.15
7	5.93	SULFATE	132.871	3227	44311	1	-2.41
8	7.77	OXALATE	127.375	1810	32035	1	-2.83

Totals 1328.897 40214 360892
 .500 mL — 9.9 mL ELUENT
 .100 mL STD # 12209A AS SPIKE *R. McCown 12/31/95*
File: 95123101.D22 Sample: S95T003094 SPIKE

Sample Name: S95T003095 SAMPLE Date: 12/31/1995 14:57:26
 Data File : C:\DX\DATA\95123101.D23 WHC-SD-WM-DP-160, REV. 1
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 23 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	66.846	7222	43775	1	0.31
2	1.57	CHLORIDE	6.000	412	2483	1	-1.05
3	1.88	NITRITE	3.702	53	299	1	-0.53
4	2.79	BROMIDE	8.432	187	1258	1	-2.22
5	3.11	NITRATE	526.964	14893	137351	1	-4.79
6	4.57	PHOSPHATE	34.605	328	4063	1	-1.44
7	5.93	SULFATE	3.580	28	292	1	-2.41
8	6.33		0.000	22	576	1	
9	7.77	OXALATE	18.712	252	4528	1	-2.83

Totals 668.840 23396 194623

.500 mL - 10 mL *24 McCoon* 12/31/95

File: 95123101.D23 Sample: S95T003095 SAMPLE

```

=====
Sample Name: S95T003095 DUP.                      Date: 12/31/1995 15:10:34
Data File  : C:\DX\DATA\95123101.D24              WHC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 24               Detector: CDM-1
Analyst    :                                     Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	69.864	7570	45912	1	1.56
2	1.59	CHLORIDE	6.212	426	2570	1	0.21
3	1.90	NITRITE	3.810	57	332	1	0.53
4	2.81	BROMIDE	8.766	195	1322	1	-1.52
5	3.13	NITRATE	548.354	15579	143316	1	-4.18
6	4.60	PHOSPHATE	36.574	355	4306	1	-0.86
7	5.93	SULFATE	4.410	41	570	1	-2.41
8	7.80	OXALATE	19.789	271	4798	1	-2.50
Totals			697.779	24494	203126		

.500mL - 10mL R McConn 12/31/95

File: 95123101.D24 Sample: S95T003095 DUP.

LABCORE Completed Worklist Report for Worklist# 4178

Analyst: eal

Instrument: IC01

Book# 122192

Method: 1-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	59	6.67e+01	113.050 % Recovery	
2 CCV	0	@IC-QC	CL	QC	79	7.88e+01	99.750 % Recovery	
2 CCV	0	@IC-QC	NO2	QC	536	5.36e+02	100.000 % Recovery	
2 CCV	0	@IC-QC	BR	QC	575	6.15e+02	106.960 % Recovery	
2 CCV	0	@IC-QC	NO3	QC	614	6.67e+02	108.630 % Recovery	
2 CCV	0	@IC-QC	PO4	QC	546	5.84e+02	106.960 % Recovery	
2 CCV	0	@IC-QC	SO4	QC	631	6.64e+02	105.230 % Recovery	
2 CCV	0	@IC-QC	OXALATE2	QC	525	5.64e+02	107.430 % 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 REJECT	S95T003096	0 W	@IC-01	F-02	SOLID	N/A	6.532e+03	ug/g
4 SAMPLE	S95T003096	0 W	@IC-01	CL-02	SOLID	N/A	1.531e+03	32.510 ug/g
4 SAMPLE	S95T003096	0 W	@IC-01	NO2-02	SOLID	N/A	3.466e+02	204.600 ug/g
4 SAMPLE	S95T003096	0 W	@IC-01	BR-02	SOLID	N/A	7.954e+02	240.900 ug/g
4 SAMPLE	S95T003096	0 W	@IC-01	NO3-02	SOLID	N/A	5.192e+04	267.600 ug/g
4 SAMPLE	S95T003096	0 W	@IC-01	PO4-02	SOLID	N/A	3.156e+03	227.500 ug/g
4 SAMPLE	S95T003096	0 W	@IC-01	SO4-02	SOLID	N/A	5.328e+02	260.000 ug/g
4 SAMPLE	S95T003096	0 W	@IC-01	OXALATE2	SOLID	N/A	1.779e+03	200.700 ug/g
5 DUP	S95T003096	0 W	@IC-01	F-02	SOLID	6.53e+03	6.60e+03	1.070 RPD
5 DUP	S95T003096	0 W	@IC-01	CL-02	SOLID	1.53e+03	6.24e+02	84.120 RPD
5 DUP	S95T003096	0 W	@IC-01	NO2-02	SOLID	3.47e+02	3.60e+02	3.680 RPD
5 DUP	S95T003096	0 W	@IC-01	BR-02	SOLID	7.95e+02	8.60e+02	7.850 RPD
5 DUP	S95T003096	0 W	@IC-01	NO3-02	SOLID	5.19e+04	5.36e+04	3.220 RPD
5 DUP	S95T003096	0 W	@IC-01	PO4-02	SOLID	3.16e+03	3.25e+03	2.810 RPD
5 DUP	S95T003096	0 W	@IC-01	SO4-02	SOLID	5.33e+02	4.11e+02	25.850 RPD
5 DUP	S95T003096	0 W	@IC-01	OXALATE2	SOLID	1.78e+03	1.81e+03	1.670 RPD
6 SPK	S95T003096	0 W	@IC-01	F-02	SOLID	59	69.220	117.320 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4178

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003096	0	W	@IC-01	CL-02	SOLID	79	69.390	87.840 % Recovery
6 SPK	S95T003096	0	W	@IC-01	NO2-02	SOLID	536	535.965	99.990 % Recovery
6 SPK	S95T003096	0	W	@IC-01	BR-02	SOLID	575	616.315	107.190 % Recovery
6 SPK	S95T003096	0	W	@IC-01	NO3-02	SOLID	614	753.425	122.710 % Recovery
6 SPK	S95T003096	0	W	@IC-01	PO4-02	SOLID	546	601.635	110.190 % Recovery
6 SPK	S95T003096	0	W	@IC-01	SO4-02	SOLID	631	675.735	107.090 % Recovery
6 SPK	S95T003096	0	W	@IC-01	OXALATE2	SOLID	525	567.295	108.060 % Recovery
7 REJECT	S95T003097	0	W	@IC-01	F-02	SOLID	N/A	6.466e+03	ug/g
7 SAMPLE	S95T003097	0	W	@IC-01	CL-02	SOLID	N/A	5.785e+02	31.500 ug/g
7 SAMPLE	S95T003097	0	W	@IC-01	NO2-02	SOLID	N/A	3.354e+02	198.300 ug/g
7 SAMPLE	S95T003097	0	W	@IC-01	BR-02	SOLID	N/A	6.962e+02	233.500 ug/g
7 SAMPLE	S95T003097	0	W	@IC-01	NO3-02	SOLID	N/A	5.110e+04	259.400 ug/g
7 SAMPLE	S95T003097	0	W	@IC-01	PO4-02	SOLID	N/A	3.041e+03	220.500 ug/g
7 SAMPLE	S95T003097	0	W	@IC-01	SO4-02	SOLID	N/A	3.786e+02	252.000 ug/g
7 SAMPLE	S95T003097	0	W	@IC-01	OXALATE2	SOLID	N/A	1.699e+03	194.600 ug/g
8 DUP	S95T003097	0	W	@IC-01	F-02	SOLID	6.47e+03	6.33e+03	2.190 RPD
8 DUP	S95T003097	0	W	@IC-01	CL-02	SOLID	5.78e+02	5.59e+02	3.340 RPD
8 DUP	S95T003097	0	W	@IC-01	NO2-02	SOLID	3.35e+02	3.24e+02	3.340 RPD
8 DUP	S95T003097	0	W	@IC-01	BR-02	SOLID	6.96e+02	6.79e+02	2.470 RPD
8 DUP	S95T003097	0	W	@IC-01	NO3-02	SOLID	5.11e+04	4.93e+04	3.590 RPD
8 DUP	S95T003097	0	W	@IC-01	PO4-02	SOLID	3.04e+03	2.90e+03	4.710 RPD
8 DUP	S95T003097	0	W	@IC-01	SO4-02	SOLID	3.79e+02	3.33e+02	12.920 RPD
8 DUP	S95T003097	0	W	@IC-01	OXALATE2	SOLID	1.70e+03	1.66e+03	2.380 RPD

Comments Section:

Comments for sample# S95T003096 and test @IC-01 .

Fwill be rejected due to std fail. No rerun unless asked.JMF

Fwill be rejected due to std fail. No rerun unless asked.JMF

Comments for sample# S95T003097 and test @IC-01 .

F rejected

F rejected

Final page for worklist# 4178

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date 1/5/96

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				05-Jan-96	
Worklist#: 4178				Data File: 4178JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	96010211.d01	BLANK		1.00
	=>	2	CCV		2	96010221.d02	122N9-A STD.		101.00
	=>	3	BLNK-PREP		3	96010221.d03	PREP BLANK		1.00
	=>	4	SAMPLE		4	96010221.d04	S95T003096		21.00
	=>	5	DUP		5	96010221.d05	S95T003096 DUP		21.00
	=>	6	SPK		6	96010221.d06	S95T003096 SPIKE		21.00
	=>	7	SAMPLE		7	96010221.d07	S95T003097		21.00
	=>	8	DUP		8	96010221.d08	S95T003097 DUP		21.00
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

< BEGINING OF LOG FILE >

Instrument Posting Engaged by

Posting Date 05-jan-1996 11:24:49

FILE OPEN TO READ: (/tmp/ESTgJ1XABM)

Error Inserting into Interface Results Table:

E US10D4 bad character found in date string beginning with 'ea1 @IC-01'.

 (Fri Jan 5 11:24:51 19

FILE CLOSED: (/tmp/ESTgJ1XABM)

FILE POSTING: /tmp/ESTgJ1XABM (05-jan-1996 11:25:36)

Record (1) QC posted.

Record (2) QC posted.

Record (3) QC posted.

Record (4) QC posted.

Record (5) QC posted.

Record (6) QC posted.

Record (7) QC posted.

Record (8) QC posted.

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

LABCORE Data Entry Template for Worklist# 4178

Analyst: EAL Instrument: IC01 _____ Book# 122N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003096 0 W			@IC-01	SOLID	95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02								
5	DUP	S95T003096 0 W			@IC-01	SOLID		
6	SPK	S95T003096 0 W			@IC-01	SOLID		
7	SAMPLE	S95T003097 0 W			@IC-01	SOLID	95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02								
8	DUP	S95T003097 0 W			@IC-01	SOLID		

Final page for worklist # 4178

A. Lambert
Analyst Signature Date 01-02-96

Analyst Signature Date

signed ap
uploaded & posted 1/5/96 Jan. J. Lye
Need to reject F values - F is rejected

Data Entry Comments:

Sample Name: BLANK Date: 01/02/1996 19:23:07
 Data File : C:\DX\DATA\96010211.D01
 Method : C:\DX\METHOD\KIT.MET WHC-CD-WM-DP-160, REV.1
 ACI Address: 1 System: 1 Inject#: 1 Detector: CDM-1
 Analyst : *A. Lambel* Column:

010296

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		

File: 96010211.D01 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 459 TO 470.

Data Reprocessed On 01/02/1996 19:49:08

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=====
Sample Name: 122N9-A STD.                      Date: 01/02/1996 19:35:22
Data File  : C:\DX\DATA\96010221.D02
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2             Detector: CDM-1
Analyst    : A. Lambert 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
2	1.08	FLUORIDE	66.665	1590	8579	1	0.93
3	1.59	CHLORIDE	78.825	1263	6802	1	0.21
4	1.90	NITRITE	535.987	5566	32784	1	0.53
5	2.82	BROMIDE	614.884	3625	24296	1	-1.05
6	3.20	NITRATE	666.511	4302	34100	1	-2.14
7	4.60	PHOSPHATE	583.521	1246	14921	1	-0.86
8	6.04	SULFATE	663.878	3333	46097	1	-0.66
9	7.93	OXALATE	563.702	1659	29445	1	-0.83
Totals			3773.973	22583	197025		

File: 96010221.D02 Sample: 122N9-A STD.

Sample Name: 122N9-A STD.
 Data File : C:\DX\DATA\96010221.D02
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 2
 Analyst : *A. Samber* Column:

Date: 01/02/1996 19:35:22

Detector: CDM-1

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	0.95		0.000	32	108	2	
2	1.08	FLUORIDE	67.485	1597	8686	2	0.93
3	1.59	CHLORIDE	78.825	1263	6802	1	0.21
4	1.90	NITRITE	535.987	5566	32784	1	0.53
5	2.82	BROMIDE	614.884	3625	24296	1	-1.05
6	3.20	NITRATE	666.511	4302	34100	1	-2.14
7	4.60	PHOSPHATE	583.521	1246	14921	1	-0.86
8	6.04	SULFATE	663.878	3333	46097	1	-0.66
9	7.93	OXALATE	563.702	1659	29445	1	-0.83
Totals			3774.793	22622	197240		

File: 96010221.D02 Sample: 122N9-A STD.

Sample Name: S95T003096 SPIKE

Date: 01/02/1996 20:51:55

Data File : C:\DX\DATA\96010221.D06

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 6

Detector: CDM-1

Analyst : *A. Lumbel* Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.09	FLUORIDE	85.574	10724	57311	1	1.56
3	1.59	CHLORIDE	30.737	2325	12843	1	0.21
4	1.90	NITRITE	110.706	5415	32560	1	0.53
5	2.81	BROMIDE	132.255	3879	25162	1	-1.29
6	3.13	NITRATE	729.513	22058	195179	1	-4.18
7	4.60	PHOSPHATE	154.669	1586	19164	1	-0.86
8	6.04	SULFATE	141.161	3306	47181	1	-0.66
9	7.91	OXALATE	132.876	1836	33438	1	-1.17
Totals			1517.490	51129	422837		

File: 96010221.D06 Sample: S95T003096 SPIKE

Data Reprocessed On 01/04/1996 15:26:51

```

=====
Sample Name: BLANK                               Date: 01/02/1996 19:23:07
Data File  : C:\DX\DATA\96010211.d01
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1              Detector: CDM-1
Analyst    :                               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		

File: 96010211.d01 Sample: BLANK

```

=====
Sample Name: 122N9-A STD.                      Date: 01/02/1996 19:35:22
Data File  : C:\DX\DATA\96010221.d02
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2             Detector: CDM-1
Analyst    :                               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
2	1.08	FLUORIDE	66.665	1590	8579	1	0.93
3	1.59	CHLORIDE	78.825	1263	6802	1	0.21
4	1.90	NITRITE	535.987	5566	32784	1	0.53
5	2.82	BROMIDE	614.884	3625	24296	1	-1.05
6	3.20	NITRATE	666.511	4302	34100	1	-2.14
7	4.60	PHOSPHATE	583.521	1246	14921	1	-0.86
8	6.04	SULFATE	663.878	3333	46097	1	-0.66
9	7.93	OXALATE	563.702	1659	29445	1	-0.83
Totals			3773.973	22583	197025		

File: 96010221.d02 Sample: 122N9-A STD.

Data Reprocessed On 01/04/1996 15:26:56

```
=====
Sample Name: PREP BLANK                      Date: 01/02/1996 20:16:16
Data File  : C:\DX\DATA\96010221.d03         WHC-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3           Detector: CDM-1
Analyst    :                               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
1	1.30		0.000	166	2101	1	
Totals			0.000	166	2101		

File: 96010221.d03 Sample: PREP BLANK

Data Reprocessed On 01/04/1996 15:26:57

```

=====
Sample Name: S95T003096                      Date: 01/02/1996 20:27:57
Data File  : C:\DX\DATA\96010221.d04
Method     : C:\DX\METHOD\KIT.MET           WHC-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 4          Detector: CDM-1
Analyst    :                               Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  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	1.08	FLUORIDE	71.756	8915	47260	1	0.93
3	1.59	CHLORIDE	16.822	1294	6983	1	0.21
4	1.90	NITRITE	3.807	64	331	1	0.53
5	2.83	BROMIDE	8.737	215	1316	1	-0.82
6	3.15	NITRATE	570.315	17746	149473	1	-3.77
7	4.61	PHOSPHATE	34.673	346	4071	1	-0.57
8	6.07	SULFATE	5.853	80	1054	1	-0.22
9	7.96	OXALATE	19.541	269	4736	1	-0.50
Totals			731.505	28930	215225		

File: 96010221.d04 Sample: S95T003096

Data Reprocessed On 01/04/1996 15:27:00

```

=====
Sample Name: S95T003096 DUP                      Date: 01/02/1996 20:40:26
Data File  : C:\DX\DATA\96010221.d05
Method     : C:\DX\METHOD\KIT.MET                WHC-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 5                Detector: CDM-1
Analyst    :                                     Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	69.348	8750	45546	1	1.56
3	1.59	CHLORIDE	6.556	499	2713	1	0.21
4	1.89	NITRITE	3.782	62	323	1	0.18
5	2.83	BROMIDE	9.036	215	1373	1	-0.82
6	3.15	NITRATE	563.531	17279	147568	1	-3.77
7	4.61	PHOSPHATE	34.175	344	4009	1	-0.57
8	5.32		0.000	36	1063	1	
9	6.07	SULFATE	4.318	43	540	1	-0.22
10	7.96	OXALATE	19.008	262	4602	1	-0.50
Totals			709.756	27491	207736		

File: 96010221.d05 Sample: S95T003096 DUP

Data Reprocessed On 01/04/1996 15:27:02

Sample Name: S95T003096 SPIKE

Date: 01/02/1996 20:51:55

Data File : C:\DX\DATA\96010221.d06

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-160, REV. I

ACI Address: 1 System: 1 Inject#: 6

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.09	FLUORIDE	85.574	10724	57311	1	1.56
3	1.59	CHLORIDE	30.737	2325	12843	1	0.21
4	1.90	NITRITE	110.706	5415	32560	1	0.53
5	2.81	BROMIDE	132.255	3879	25162	1	-1.29
6	3.13	NITRATE	729.513	22058	195179	1	-4.18
7	4.60	PHOSPHATE	154.669	1586	19164	1	-0.86
8	6.04	SULFATE	141.161	3306	47181	1	-0.66
9	7.91	OXALATE	132.876	1836	33438	1	-1.17
Totals			1517.490	51129	422837		

File: 96010221.d06 Sample: S95T003096 SPIKE

Data Reprocessed On 01/04/1996 15:27:04

Sample Name: S95T003097

Date: 01/02/1996 21:02:39

Data File : C:\DX\DATA\96010221.d07

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 7

WHC-SD-WM-DP-160, REV.1

Analyst : Column:

Detector: CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.08	FLUORIDE	73.270	9119	48344	1	0.93
3	1.59	CHLORIDE	6.556	509	2712	1	0.21
4	1.89	NITRITE	3.801	64	329	1	0.18
5	2.82	BROMIDE	7.889	186	1155	1	-1.05
6	3.14	NITRATE	579.095	17879	151945	1	-3.98
7	4.61	PHOSPHATE	34.458	342	4044	1	-0.57
8	6.07	SULFATE	4.290	42	530	1	-0.22
9	7.03		0.000	48	1514	1	
10	7.96	OXALATE	19.258	269	4665	1	-0.50
Totals			728.616	28458	215238		

File: 96010221.d07 Sample: S95T003097

Data Reprocessed On 01/04/1996 15:27:07

Sample Name: S95T003097 DUP Date: 01/02/1996 21:13:48
Data File : C:\DX\DATA\96010221.d08
Method : C:\DX\METHOD\KIT.MET WHO-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	74.716	9133	49382	1	-0.31
2	1.57	CHLORIDE	6.599	512	2730	1	-1.05
3	1.87	NITRITE	3.827	65	337	1	-0.88
4	2.80	BROMIDE	8.010	189	1178	1	-1.75
5	3.12	NITRATE	581.416	17815	152599	1	-4.59
6	4.59	PHOSPHATE	34.049	336	3994	1	-1.15
7	6.04	SULFATE	3.935	36	411	1	-0.66
8	6.60		0.000	38	1138	1	
9	7.93	OXALATE	19.583	269	4747	1	-0.83
Totals			732.134	28393	216516		

File: 96010221.d08 Sample: S95T003097 DUP

LABCORE Completed Worklist Report for Worklist# 4179

Analyst: pjm

Instrument: IC01

Book# 122097

Method: L2-SPB725 Rev/Mod 10-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	2.52e-01	0.250	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	59	6.48e+01	109.830	% Recovery
2 CCV		0	@IC-QC CL	QC	79	7.71e+01	97.590	% Recovery
2 CCV		0	@IC-QC NO2	QC	536	5.28e+02	98.510	% Recovery
2 CCV		0	@IC-QC BR	QC	575	6.03e+02	104.870	% Recovery
2 CCV		0	@IC-QC NO3	QC	614	6.59e+02	107.330	% Recovery
2 CCV		0	@IC-QC PO4	QC	546	5.71e+02	104.580	% Recovery
2 CCV		0	@IC-QC SO4	QC	631	6.49e+02	102.850	% Recovery
2 CCV		0	@IC-QC OXALATE2	QC	525	5.54e+02	105.520	% 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	2.08e-01	0.210	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	S95T003098	0 W	@IC-01 F-02	SOLID	N/A	6.655e+03	32.990	ug/g
4 SAMPLE	S95T003098	0 W	@IC-01 CL-02	SOLID	N/A	5.952e+02	43.130	ug/g
4 SAMPLE	S95T003098	0 W	@IC-01 NO2-02	SOLID	N/A	4.354e+02	271.500	ug/g
4 SAMPLE	S95T003098	0 W	@IC-01 BR-02	SOLID	N/A	8.039e+02	319.700	ug/g
4 SAMPLE	S95T003098	0 W	@IC-01 NO3-02	SOLID	N/A	5.190e+04	355.200	ug/g
4 SAMPLE	S95T003098	0 W	@IC-01 PO4-02	SOLID	N/A	3.067e+03	301.100	ug/g
4 SAMPLE	S95T003098	0 W	@IC-01 SO4-02	SOLID	N/A	4.785e+02	345.100	ug/g
4 SAMPLE	S95T003098	0 W	@IC-01 OXALATE2	SOLID	N/A	1.797e+03	266.400	ug/g
5 DUP	S95T003098	0 W	@IC-01 F-02	SOLID	6.66e+03	6.42e+03	3.670	RPD
5 DUP	S95T003098	0 W	@IC-01 CL-02	SOLID	5.95e+02	5.96e+02	0.170	RPD
5 DUP	S95T003098	0 W	@IC-01 NO2-02	SOLID	4.35e+02	4.02e+02	7.890	RPD
5 DUP	S95T003098	0 W	@IC-01 BR-02	SOLID	8.04e+02	7.77e+02	3.420	RPD
5 DUP	S95T003098	0 W	@IC-01 NO3-02	SOLID	5.19e+04	5.02e+04	3.330	RPD
5 DUP	S95T003098	0 W	@IC-01 PO4-02	SOLID	3.07e+03	2.77e+03	10.270	RPD
5 DUP	S95T003098	0 W	@IC-01 SO4-02	SOLID	4.78e+02	4.06e+02	16.290	RPD
5 DUP	S95T003098	0 W	@IC-01 OXALATE2	SOLID	1.80e+03	1.76e+03	2.250	RPD
6 SPK	S95T003098	0 W	@IC-01 F-02	SOLID	59	66.610	112.900	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4179

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S95T003098	0	W	@IC-01	CL-02	SOLID	79	70.870	89.710 % Recovery
6	SPK	S95T003098	0	W	@IC-01	NO2-02	SOLID	536	511.985	95.520 % Recovery
6	SPK	S95T003098	0	W	@IC-01	BR-02	SOLID	575	581.735	101.170 % Recovery
6	SPK	S95T003098	0	W	@IC-01	NO3-02	SOLID	614	602.305	98.100 % Recovery
6	SPK	S95T003098	0	W	@IC-01	PO4-02	SOLID	546	573.100	104.960 % Recovery
6	SPK	S95T003098	0	W	@IC-01	SO4-02	SOLID	631	660.200	104.630 % Recovery
6	SPK	S95T003098	0	W	@IC-01	OXALATE2	SOLID	525	560.645	106.790 % Recovery

Final page for worklist# 4179

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature

Date

LABCORE Data Entry Template for Worklist# 4179

Analyst: RT McCown Instrument: IC01 7001 Book# 122N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003098	0	W	@IC-01	SOLID	95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02								
5	DUP	S95T003098	0	W	@IC-01	SOLID		
6	SPK	S95T003098	0	W	@IC-01	SOLID		

Final page for worklist # 4179

RT McCown 12/31/95
Analyst Signature Date

Analyst Signature Date

Uploaded 1/2/96 J. M. J.

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				02-Jan-96			
Worklist#: 4179					Data File: 4179DEC.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-	2	95123101.d11	CCV 122N9A	101.00		
-	=>	2	CCV		-	1	95123101.d12	CCB	1.00		
-	=>	3	BLNK-PREP		-	3	95123101.d13	PREP. BLANK	1.00		
-	=>	4	SAMPLE	S95T003098	-	4	95123101.d14	S95T003098 SAMPL	21.00		
-	=>	5	DUP	S95T003098	-	5	95123101.d15	S95T003098 DUP.	21.00		
-	=>	6	SPK	S95T003098	-	6	95123101.d16	S95T003098 SPIKE	21.00		
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

```

=====
Sample Name: CCB                               Date: 12/31/1995 11:22:11
Data File  : C:\DX\DATA\95123101.D12
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 12       Detector: CDM-1
Analyst    :                               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
1	3.23	NITRATE	0.252	84	621	1	-1.33
Totals			0.252	84	621		

DIRECT ELUENT BLANK R/McLown 12/31/95

File: 95123101.D12 Sample: CCB

Sample Name: CCV 122N9A Date: 12/31/1995 11:11:20
 Data File : C:\DX\DATA\95123101.D11
 Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-160, REV. 1
 ACI Address: 1 System: 1 Inject#: 11
 Analyst : Column: Detector: CDM-1

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
2	1.09	FLUORIDE	64.812	1339	8337	2	1.56
3	1.59	CHLORIDE	77.111	1087	6653	1	0.21
4	1.89	NITRITE	527.760	4798	32264	1	0.18
5	2.81	BROMIDE	602.633	3193	23797	1	-1.52
6	3.19	NITRATE	659.387	3920	33723	1	-2.34
7	4.59	PHOSPHATE	570.688	1162	14583	1	-1.15
8	5.93	SULFATE	649.458	3225	45059	1	-2.41
9	7.77	OXALATE	553.903	1621	28926	1	-2.83
Totals			3705.751	20346	193344		

-100ml -10ml R. McCown 12/31/95

File: 95123101.D11 Sample: CCV 122N9A

```

=====
Sample Name: PREP. BLANK                      Date: 12/31/1995 11:39:34
Data File  : C:\DX\DATA\95123101.D13
Method     : C:\DX\METHOD\KIT.MET           WHO CD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 13         Detector: CDM-1
Analyst    :                               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
1	1.30		0.000	140	1604	1	
2	3.21	NITRATE	0.208	53	393	1	-1.73
Totals			0.208	193	1997		

DIRECT B McCown 12/31/95
File: 95123101.D13 Sample: PREP. BLANK

```

=====
Sample Name: S95T003098 SAMPLE                      Date: 12/31/1995 11:58:59
Data File  : C:\DX\DATA\95123101.D14                WHO-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14                 Detector: CDM-1
Analyst    :                                         Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	55.078	5779	35590	1	1.56
2	1.59	CHLORIDE	4.926	338	2038	1	0.21
3	1.90	NITRITE	3.603	45	270	1	0.53
4	2.81	BROMIDE	6.653	137	921	1	-1.29
5	3.15	NITRATE	429.539	12247	110576	1	-3.77
6	4.60	PHOSPHATE	25.380	238	2922	1	-0.86
7	5.96	SULFATE	3.960	32	420	1	-1.97
8	7.80	OXALATE	14.871	202	3562	1	-2.50
Totals			544.010	19017	156299		

500ml - 10ml RVMCrown 12/31/95

File: 95123101.D14 Sample: S95T003098 SAMPLE

```

=====
Sample Name: S95T003098 DUP.                      Date: 12/31/1995 12:15:54
Data File  : C:\DX\DATA\95123101.D15
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 15
Analyst    :                      Column:
Detector: CDM-1
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	56.514	5967	36577	1	1.56
2	1.59	CHLORIDE	5.243	357	2170	1	0.21
3	1.90	NITRITE	3.526	44	247	1	0.53
4	2.81	BROMIDE	6.842	140	957	1	-1.52
5	3.14	NITRATE	441.791	12598	113908	1	-3.98
6	4.60	PHOSPHATE	24.380	227	2799	1	-0.86
7	5.96	SULFATE	3.576	23	291	1	-1.97
8	7.80	OXALATE	15.452	207	3708	1	-2.50
Totals			557.325	19563	160655		

.500ml -10ml R/McCown 12/31/95

File: 95123101.D15 Sample: S95T003098 DUP.

Sample Name: S95T003098 SPIKE Date: 12/31/1995 12:27:10
 Data File : C:\DX\DATA\95123101.D16
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 16 Detector: CDM-1
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

 External 1 21 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	1.07	FLUORIDE	68.361	6979	44846	1	-0.31
2	1.57	CHLORIDE	19.958	1378	8297	1	-1.05
3	1.87	NITRITE	105.632	4719	31020	1	-0.88
4	2.77	BROMIDE	122.727	3328	23292	1	-2.69
5	3.11	NITRATE	550.311	15565	143863	1	-4.99
6	4.56	PHOSPHATE	139.918	1381	17282	1	-1.72
7	5.91	SULFATE	136.062	3165	45415	1	-2.85
8	7.75	OXALATE	127.096	1773	31964	1	-3.17

Totals 1270.066 38288 345979

*.500ML ← .100ML STD # 1229A AS SPIKE
 9.9 mL ELUENT R/McCown 12/31/95
 File: 95123101.D16 Sample: S95T003098 SPIKE*

LABCORE Completed Worklist Report for Worklist# 4180

Analyst: eal

Instrument: IC01

Book# 122414

Method: 1.9-553-105 Rev/Mod 10-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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	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	59	6.68e+01	113.220 % Recovery
2	CCV		0		@IC-QC	CL	QC	79	9.08e+01	114.940 % Recovery
2	CCV		0		@IC-QC	NO2	QC	536	5.22e+02	97.390 % Recovery
2	CCV		0		@IC-QC	BR	QC	575	6.01e+02	104.520 % Recovery
2	CCV		0		@IC-QC	NO3	QC	614	6.39e+02	104.070 % Recovery
2	CCV		0		@IC-QC	PO4	QC	546	5.54e+02	101.470 % Recovery
2	CCV		0		@IC-QC	SO4	QC	631	6.52e+02	103.330 % Recovery
2	CCV		0		@IC-QC	OXALATE2	QC	525	5.56e+02	105.900 % 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	REJECT	S95T003099	0	W	@IC-01	F-02	SOLID	N/A	5.826e+03	ug/g
4	REJECT	S95T003099	0	W	@IC-01	CL-02	SOLID	N/A	5.992e+02	ug/g
4	SAMPLE	S95T003099	0	W	@IC-01	NO2-02	SOLID	N/A	2.856e+02	127.600 ug/g
4	SAMPLE	S95T003099	0	W	@IC-01	BR-02	SOLID	N/A	1.737e+02	150.200 ug/g
4	SAMPLE	S95T003099	0	W	@IC-01	NO3-02	SOLID	N/A	4.616e+04	318.700 ug/g
4	SAMPLE	S95T003099	0	W	@IC-01	PO4-02	SOLID	N/A	2.773e+03	141.900 ug/g
4	SAMPLE	S95T003099	0	W	@IC-01	SO4-02	SOLID	N/A	2.813e+02	162.200 ug/g
4	SAMPLE	S95T003099	0	W	@IC-01	OXALATE2	SOLID	N/A	1.625e+03	125.200 ug/g
5	DUP	S95T003099	0	W	@IC-01	F-02	SOLID	5.83e+03	6.03e+03	3.370 RPD
5	DUP	S95T003099	0	W	@IC-01	CL-02	SOLID	5.99e+02	6.00e+02	0.170 RPD
5	DUP	S95T003099	0	W	@IC-01	NO2-02	SOLID	2.86e+02	2.79e+02	2.480 RPD
5	DUP	S95T003099	0	W	@IC-01	BR-02	SOLID	1.74e+02	1.74e+02	0.000 RPD
5	DUP	S95T003099	0	W	@IC-01	NO3-02	SOLID	4.62e+04	4.75e+04	2.770 RPD
5	DUP	S95T003099	0	W	@IC-01	PO4-02	SOLID	2.77e+03	2.75e+03	0.720 RPD
5	DUP	S95T003099	0	W	@IC-01	SO4-02	SOLID	2.81e+02	2.83e+02	0.710 RPD
5	DUP	S95T003099	0	W	@IC-01	OXALATE2	SOLID	1.62e+03	1.61e+03	0.620 RPD
6	SPK	S95T003099	0	W	@IC-01	F-02	SOLID	59	94.245	159.740 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4180

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003099	0	W	@IC-01	CL-02	SOLID	79	76.720	97.110 % Recovery
6 SPK	S95T003099	0	W	@IC-01	NO2-02	SOLID	536	515.650	96.200 % Recovery
6 SPK	S95T003099	0	W	@IC-01	BR-02	SOLID	575	566.970	98.600 % Recovery
6 SPK	S95T003099	0	W	@IC-01	NO3-02	SOLID	614	756.310	123.180 % Recovery
6 SPK	S95T003099	0	W	@IC-01	PO4-02	SOLID	546	580.170	106.260 % Recovery
6 SPK	S95T003099	0	W	@IC-01	SO4-02	SOLID	631	666.050	105.550 % Recovery
6 SPK	S95T003099	0	W	@IC-01	OXALATE2	SOLID	525	563.060	107.250 % Recovery
7 REJECT	S95T003100	0	W	@IC-01	F-02	SOLID	N/A	6.336e+03	ug/g
7 REJECT	S95T003100	0	W	@IC-01	CL-02	SOLID	N/A	6.001e+02	ug/g
7 SAMPLE	S95T003100	0	W	@IC-01	NO2-02	SOLID	N/A	2.882e+02	129.600 ug/g
7 SAMPLE	S95T003100	0	W	@IC-01	BR-02	SOLID	N/A	7.511e+02	152.600 ug/g
7 SAMPLE	S95T003100	0	W	@IC-01	NO3-02	SOLID	N/A	5.141e+04	169.500 ug/g
7 SAMPLE	S95T003100	0	W	@IC-01	PO4-02	SOLID	N/A	2.787e+03	144.100 ug/g
7 SAMPLE	S95T003100	0	W	@IC-01	SO4-02	SOLID	N/A	2.651e+02	164.700 ug/g
7 SAMPLE	S95T003100	0	W	@IC-01	OXALATE2	SOLID	N/A	1.725e+03	127.200 ug/g
8 DUP	S95T003100	0	W	@IC-01	F-02	SOLID	6.34e+03	6.45e+03	1.720 RPD
8 DUP	S95T003100	0	W	@IC-01	CL-02	SOLID	6.00e+02	5.88e+02	2.020 RPD
8 DUP	S95T003100	0	W	@IC-01	NO2-02	SOLID	2.88e+02	2.75e+02	4.620 RPD
8 DUP	S95T003100	0	W	@IC-01	BR-02	SOLID	7.51e+02	7.43e+02	1.070 RPD
8 DUP	S95T003100	0	W	@IC-01	NO3-02	SOLID	5.14e+04	5.15e+04	0.190 RPD
8 DUP	S95T003100	0	W	@IC-01	PO4-02	SOLID	2.79e+03	2.87e+03	2.830 RPD
8 DUP	S95T003100	0	W	@IC-01	SO4-02	SOLID	2.65e+02	8.10e+02	101.400 RPD
8 DUP	S95T003100	0	W	@IC-01	OXALATE2	SOLID	1.72e+03	1.75e+03	1.730 RPD

Comments Section:

Comments for sample# S95T003099 and test @IC-01 .

rerun F and Cl on 3099 and 3100. JMF
rerun F and Cl on 3099 and 3100. JMF

F & Cl were not rerun, but just rejected, since only Br was really wanted. JMF

Final page for worklist# 4180

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

[Signature]
Reviewer Signature _____ Date *1/3/96*

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				03-Jan-96			
Worklist#: 4180				Data File: 4180DEC.CSV							
		Seq	Type	Sample #			Seq#	Data File	Sample Name		Dilution
-	=>	1	CCB		-	1	95122901.d01	BLANK		1.00	
-	=>	2	CCV		-	2	95122901.d02	122N9-A STD.		101.00	
	=>	3	BLNK-PREP			3	95122901.d04	PREP BLANK		1.00	
	=>	4	SAMPLE	S95T003099		4	95122901.d05	S95T003099		21.00	
	=>	5	DUP	S95T003099		4	95122901.d06	S95T003099		11.00	
	=>	6	SPK	S95T003099		5	95122901.d07	S95T003099 DUP		11.00	
	=>	7	SAMPLE	S95T003100		6	95122901.d08	S95T003099 SPIK		21.00	
	=>	8	DUP	S95T003100		6	95122901.d09	S95T003099 SPIK		11.00	
						7	95122901.d10	S95T003100		11.00	
						8	95122901.d11	S95T003100 DUP		11.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003099				03-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 4				
		[1]	[2]	[3]	[4]	[5]
		95122901.d05	95122901.d06			
		21.0000	11.0000			
F-02	1	53.7510				
CL-02	2		5.5280			
N02-02	2		2.6350			
BR-02	2		1.6030			
N03-02	1	425.7380				
P04-02	2		25.5830			
S04-02	2		2.5950			
OXALATE2	2		14.9940			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003099				03-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 6				
		[1]	[2]	[3]	[4]	[5]
		95122901.d08	95122901.d09			
		21.0000	11.0000			
F-02	1	72.5730				
CL-02	2		13.2270			
NO2-02	2		54.1910			
BR-02	2		58.2820			
NO3-02	1	577.2130				
PO4-02	2		83.6230			
SO4-02	2		69.1610			
OXALATE2	2		71.3370			

Done(F4) Abort(Shift-F3) UnPick(F7)

LABCORE Data Entry Template for Worklist# 4180

Analyst: KAL Instrument: IC01 IC01 Book# 122N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003099 0 W	@IC-01	SOLID		95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003099 0 W	@IC-01	SOLID			
6 SPK	S95T003099 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003100 0 W	@IC-01	SOLID		95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003100 0 W	@IC-01	SOLID			

Final page for worklist # 4180

A. Lambel 12/29/95
Analyst Signature Date

Analyst Signature Date

F+Cl standard failed. These results were rejected for both samples. Since Br was all that was really wanted, the F+Cl will not be rerun. JMF

uploaded 1/3/96 JMF
typed
copied

Data Entry Comments:

```

=====
Sample Name: BLANK                               Date: 12/29/1995 08:16:52
Data File  : C:\DX\DATA\95122901.D01
Method     : C:\DX\METHOD\KIT.MET              VINC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 1             Detector: CDM-1
Analyst    : A. Lambel                        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
1	0.10		0.000	146	945	2	
2	0.45		0.000	49	238	2	
3	3.19	NITRATE	0.177	36	231	1	-2.55
Totals			0.177	231	1413		

File: 95122901.D01 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 487 TO 498.

```

=====
Sample Name: 122N9-A STD.                               Date: 12/29/1995 08:39:06
Data File  : C:\DX\DATA\95122901.D02
Method     : C:\DX\METHOD\KIT.MET                      WHC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 2                      Detector: CDM-1
Analyst    : A. Lambert                               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
2	1.07	FLUORIDE	66.756	1384	8591	2	-0.31
3	1.57	CHLORIDE	90.780	1304	7843	1	-1.47
4	1.87	NITRITE	521.964	4843	31899	1	-1.23
5	2.77	BROMIDE	600.771	3222	23721	1	-2.69
6	3.15	NITRATE	639.114	3847	32651	1	-3.77
7	4.48	PHOSPHATE	554.240	1142	14150	1	-3.45
8	5.77	SULFATE	652.375	3348	45269	1	-5.04
9	7.56	OXALATE	556.471	1667	29062	1	-5.50
Totals			3682.471	20758	193186		

File: 95122901.D02 Sample: 122N9-A STD.

```
=====
Sample Name: BLANK                      Date: 12/29/1995 08:16:52
Data File  : C:\DX\DATA\95122901.d01
Method     : C:\DX\METHOD\KIT.MET      WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 1      Detector: CDM-1
Analyst    :                          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
1	0.10		0.000	146	945	2	
2	0.45		0.000	49	238	2	
3	3.19	NITRATE	0.177	36	231	1	-2.55
Totals			0.177	231	1413		

File: 95122901.d01 Sample: BLANK

Data Reprocessed On 01/05/1996 15:38:56

Sample Name: 122N9-A STD.

Date: 12/29/1995 08:39:06

Data File : C:\DX\DATA\95122901.d02

WHC-SD-WM-DP-160, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

Analyst : 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
2	1.07	FLUORIDE	66.756	1384	8591	2	-0.31
3	1.57	CHLORIDE	90.780	1304	7843	1	-1.47
4	1.87	NITRITE	521.964	4843	31899	1	-1.23
5	2.77	BROMIDE	600.771	3222	23721	1	-2.69
6	3.15	NITRATE	639.114	3847	32651	1	-3.77
7	4.48	PHOSPHATE	554.240	1142	14150	1	-3.45
8	5.77	SULFATE	652.375	3348	45269	1	-5.04
9	7.56	OXALATE	556.471	1667	29062	1	-5.50
Totals			3682.471	20758	193186		

File: 95122901.d02 Sample: 122N9-A STD.

Data Reprocessed On 01/05/1996 15:38:58

```
=====
Sample Name: PREP BLANK                      Date: 12/29/1995 09:29:28
Data File  : C:\DX\DATA\95122901.d04         WHC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4           Detector: CDM-1
Analyst    :                               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
1	1.29		0.000	144	1581	1	
Totals			0.000	144	1581		

File: 95122901.d04 Sample: PREP BLANK

Data Reprocessed On 01/05/1996 15:39:00

Sample Name: S95T003099

Date: 12/29/1995 09:44:27

Data File : C:\DX\DATA\95122901.d05

WHC-SD-WM-DP-160 REV 1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 5

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	53.751	5687	34682	1	-0.31
2	1.57	CHLORIDE	5.705	382	2360	1	-1.47
3	1.87	NITRITE	3.848	57	343	1	-1.23
5	3.11	NITRATE	425.738	11895	109544	1	-4.99
6	4.49	PHOSPHATE	24.834	235	2855	1	-3.16
7	5.77	SULFATE	3.867	29	388	1	-5.04
8	7.59	OXALATE	14.836	205	3553	1	-5.17
Totals			532.578	18490	153725		

File: 95122901.d05 Sample: S95T003099

Data Reprocessed On 01/05/1996 15:39:02

```

=====
Sample Name: S95T003099                      Date: 12/29/1995 10:02:33
Data File  : C:\DX\DATA\95122901.d06        WHC-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6          Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11  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	1.09	FLUORIDE	56.605	12127	74523	1	1.56
2	1.59	CHLORIDE	5.528	732	4370	1	-0.21
3	1.88	NITRITE	2.635	115	697	1	-0.53
4	2.79	BROMIDE	1.603	42	239	1	-2.22
5	3.09	NITRATE	440.856	23522	228589	1	-5.61
6	4.51	PHOSPHATE	25.583	471	5828	1	-2.87
7	5.80	SULFATE	2.595	56	753	1	-4.61
8	7.61	OXALATE	14.994	409	7021	1	-4.83
Totals			550.399	37473	322020		

File: 95122901.d06 Sample: S95T003099

Data Reprocessed On 01/05/1996 15:39:04

```
=====
Sample Name: S95T003099  DUP                      Date: 12/29/1995 10:19:48
Data File  : C:\DX\DATA\95122901.d07              WHC-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 7              Detector: CDM-1
Analyst    :                      Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.07	FLUORIDE	57.604	12378	76036	1	0.31
2	1.57	CHLORIDE	5.730	748	4531	1	-1.47
3	1.86	NITRITE	2.660	118	711	1	-1.59
4	2.77	BROMIDE	1.660	43	260	1	-2.69
5	3.06	NITRATE	453.816	23874	236109	1	-6.42
6	4.49	PHOSPHATE	26.220	488	5979	1	-3.16
7	5.80	SULFATE	2.698	62	819	1	-4.61
8	7.59	OXALATE	15.378	414	7206	1	-5.17
Totals			565.765	38124	331650		

File: 95122901.d07 Sample: S95T003099 DUP

Data Reprocessed On 01/05/1996 15:39:06

```
=====
Sample Name: S95T003099 SPIKE           Date: 12/29/1995 10:31:13
Data File  : C:\DX\DATA\95122901.d08    WHC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8      Detector: CDM-1
Analyst    :                          Column:
=====
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	72.573	7532	47844	1	-0.31
2	1.57	CHLORIDE	20.882	1443	8684	1	-1.47
3	1.86	NITRITE	106.163	4753	31181	1	-1.59
4	2.76	BROMIDE	117.930	3235	22353	1	-3.16
5	3.09	NITRATE	577.213	16260	151415	1	-5.61
6	4.48	PHOSPHATE	136.149	1376	16802	1	-3.45
7	5.77	SULFATE	138.661	3305	46314	1	-5.04
8	7.56	OXALATE	127.602	1841	32093	1	-5.50
Totals			1297.173	39745	356688		

File: 95122901.d08 Sample: S95T003099 SPIKE

Data Reprocessed On 01/05/1996 15:39:08

```
=====
Sample Name: S95T003099 SPIKE           Date: 12/29/1995 10:42:24
Data File  : C:\DX\DATA\95122901.d09    WHC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9      Detector: CDM-1
Analyst    :                          Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11  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	1.09	FLUORIDE	63.122	13481	84570	1	1.56
2	1.59	CHLORIDE	13.227	1752	10523	1	-0.21
3	1.88	NITRITE	54.191	4604	30360	1	-0.53
4	2.78	BROMIDE	58.282	3170	21051	1	-2.46
5	3.07	NITRATE	503.674	26705	265571	1	-6.01
6	4.49	PHOSPHATE	83.623	1589	19801	1	-3.16
7	5.80	SULFATE	69.161	3219	44022	1	-4.61
8	7.56	OXALATE	71.337	1931	34283	1	-5.50
Totals			916.618	56452	510180		

File: 95122901.d09 Sample: S95T003099 SPIKE

Data Reprocessed On 01/05/1996 15:39:10

```
=====
Sample Name: S95T003100                      Date: 12/29/1995 10:53:17
Data File  : C:\DX\DATA\95122901.d10         WHC-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10          Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.07	FLUORIDE	57.537	12441	75935	1	-0.31
2	1.57	CHLORIDE	5.451	704	4310	1	-1.47
3	1.86	NITRITE	2.618	111	687	1	-1.59
4	2.77	BROMIDE	6.830	325	2133	1	-2.92
5	3.06	NITRATE	467.000	24480	243816	1	-6.42
6	4.48	PHOSPHATE	25.313	466	5764	1	-3.45
7	5.83	SULFATE	2.408	52	633	1	-4.17
8	7.59	OXALATE	15.669	422	7346	1	-5.17
Totals			582.826	39001	340623		

File: 95122901.d10 Sample: S95T003100

Data Reprocessed On 01/05/1996 15:39:12

Sample Name: S95T003100 DUP Date: 12/29/1995 11:04:18
Data File : C:\DX\DATA\95122901.d11 WHC-SD-WM-DP-160, REV.1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.09	FLUORIDE	62.302	13640	83282	1	1.56
2	1.59	CHLORIDE	5.679	746	4490	1	-0.21
3	1.88	NITRITE	2.653	117	708	1	-0.53
4	2.79	BROMIDE	7.162	352	2253	1	-2.22
5	3.08	NITRATE	497.007	26474	261580	1	-5.81
6	4.51	PHOSPHATE	27.760	520	6344	1	-2.87
7	5.83	SULFATE	7.823	148	4104	1	-4.17
8	7.61	OXALATE	16.931	453	7953	1	-4.83
Totals			627.317	42451	370714		

File: 95122901.d11 Sample: S95T003100 DUP

LABCORE Completed Worklist Report for Worklist# 4181

Analyst: eal

Instrument: IC01

Book# 122144

Method: LA-533-765 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	59	6.18e+01	104.750 % Recovery	
2 CCV		0	@IC-QC CL	QC	79	7.55e+01	95.570 % Recovery	
2 CCV		0	@IC-QC NO2	QC	536	5.16e+02	96.270 % Recovery	
2 CCV		0	@IC-QC BR	QC	575	5.93e+02	103.130 % Recovery	
2 CCV		0	@IC-QC NO3	QC	614	6.30e+02	102.610 % Recovery	
2 CCV		0	@IC-QC PO4	QC	546	5.48e+02	100.370 % Recovery	
2 CCV		0	@IC-QC SO4	QC	631	6.46e+02	102.380 % Recovery	
2 CCV		0	@IC-QC OXALATE2	QC	525	5.50e+02	104.760 % 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	1.79e-01	0.180	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	S95T003103	0 W	@IC-01 F-02	SOLID	N/A	6.123e+03	23.900	ug/g
4 SAMPLE	S95T003103	0 W	@IC-01 CL-02	SOLID	N/A	1.248e+03	31.250	ug/g
4 SAMPLE	S95T003103	0 W	@IC-01 NO2-02	SOLID	N/A	3.172e+02	196.600	ug/g
4 SAMPLE	S95T003103	0 W	@IC-01 BR-02	SOLID	N/A	1.126e+03	231.600	ug/g
4 SAMPLE	S95T003103	0 W	@IC-01 NO3-02	SOLID	N/A	4.901e+04	257.300	ug/g
4 SAMPLE	S95T003103	0 W	@IC-01 PO4-02	SOLID	N/A	2.336e+03	218.700	ug/g
4 SAMPLE	S95T003103	0 W	@IC-01 SO4-02	SOLID	N/A	3.574e+02	249.900	ug/g
4 SAMPLE	S95T003103	0 W	@IC-01 OXALATE2	SOLID	N/A	1.586e+03	193.000	ug/g
5 DUP	S95T003103	0 W	@IC-01 F-02	SOLID	6.12e+03	6.16e+03	0.650	RPD
5 DUP	S95T003103	0 W	@IC-01 CL-02	SOLID	1.25e+03	5.73e+02	74.270	RPD
5 DUP	S95T003103	0 W	@IC-01 NO2-02	SOLID	3.17e+02	3.34e+02	5.220	RPD
5 DUP	S95T003103	0 W	@IC-01 BR-02	SOLID	1.13e+03	1.13e+03	0.000	RPD
5 DUP	S95T003103	0 W	@IC-01 NO3-02	SOLID	4.90e+04	4.80e+04	2.060	RPD
5 DUP	S95T003103	0 W	@IC-01 PO4-02	SOLID	2.34e+03	2.22e+03	5.260	RPD
5 DUP	S95T003103	0 W	@IC-01 SO4-02	SOLID	3.57e+02	3.77e+02	5.450	RPD
5 DUP	S95T003103	0 W	@IC-01 OXALATE2	SOLID	1.59e+03	1.59e+03	0.000	RPD
6 SPK	S95T003103	0 W	@IC-01 F-02	SOLID	59	30.660	51.970 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4181

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003103	0 W	@IC-01	CL-02	SOLID	79	35.780	45.290 % Recovery
6 SPK	S95T003103	0 W	@IC-01	NO2-02	SOLID	536	521.875	97.360 % Recovery
6 SPK	S95T003103	0 W	@IC-01	BR-02	SOLID	575	585.650	101.850 % Recovery
6 SPK	S95T003103	0 W	@IC-01	NO3-02	SOLID	614	324.990	52.930 % Recovery
6 SPK	S95T003103	0 W	@IC-01	FO4-02	SOLID	546	561.505	102.840 % Recovery
6 SPK	S95T003103	0 W	@IC-01	SO4-02	SOLID	631	659.580	104.530 % Recovery
6 SPK	S95T003103	0 W	@IC-01	OXALATE2	SOLID	525	514.390	97.980 % Recovery
7 SAMPLE	S95T003104	0 W	@IC-01	F-02	SOLID	N/A	6.007e+03	26.880 ug/g
7 SAMPLE	S95T003104	0 W	@IC-01	CL-02	SOLID	N/A	5.714e+02	35.130 ug/g
7 SAMPLE	S95T003104	0 W	@IC-01	NO2-02	SOLID	N/A	3.477e+02	221.200 ug/g
7 SAMPLE	S95T003104	0 W	@IC-01	BR-02	SOLID	N/A	1.022e+03	260.400 ug/g
7 SAMPLE	S95T003104	0 W	@IC-01	NO3-02	SOLID	N/A	4.666e+04	289.400 ug/g
7 SAMPLE	S95T003104	0 W	@IC-01	FO4-02	SOLID	N/A	2.054e+03	246.000 ug/g
7 SAMPLE	S95T003104	0 W	@IC-01	SO4-02	SOLID	N/A	5.006e+02	281.100 ug/g
7 SAMPLE	S95T003104	0 W	@IC-01	OXALATE2	SOLID	N/A	1.488e+03	217.000 ug/g
8 DUP	S95T003104	0 W	@IC-01	F-02	SOLID	6.01e+03	6.12e+03	1.810 RPD
8 DUP	S95T003104	0 W	@IC-01	CL-02	SOLID	5.71e+02	5.92e+02	3.610 RPD
8 DUP	S95T003104	0 W	@IC-01	NO2-02	SOLID	3.48e+02	3.59e+02	3.110 RPD
8 DUP	S95T003104	0 W	@IC-01	BR-02	SOLID	1.02e+03	1.06e+03	3.850 RPD
8 DUP	S95T003104	0 W	@IC-01	NO3-02	SOLID	4.67e+04	4.80e+04	2.750 RPD
8 DUP	S95T003104	0 W	@IC-01	FO4-02	SOLID	2.05e+03	2.01e+03	1.970 RPD
8 DUP	S95T003104	0 W	@IC-01	SO4-02	SOLID	5.01e+02	4.18e+02	18.060 RPD
8 DUP	S95T003104	0 W	@IC-01	OXALATE2	SOLID	1.49e+03	1.58e+03	5.860 RPD

Final page for worklist# 4181

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

John M. Faye 1/4/96
Reviewer Signature _____ Date _____

LABCORE Data Entry Template for Worklist# 4181

Analyst: EAL Instrument: IC01 IC01 Book# 122A-9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003103 0 W	@IC-01	SOLID	95000158 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003103 0 W	@IC-01	SOLID			
6 SPK	S95T003103 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003104 0 W	@IC-01	SOLID	95000158 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003104 0 W	@IC-01	SOLID			

Final page for worklist # 4181

A. Lumbel 12-29-95
Analyst Signature Date

Analyst Signature Date

Uploaded & posted 1/4/95
John M. Sage
Reviewed

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				04-Jan-96			
Worklist#: 4181					Data File: 4181DEC.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name		Dilution
-	=>	1	CCB		-	1	95122911.d01	BLANK		1.00	
	=>	2	CCV			2	95122911.d02	122N9-A STD.		101.00	
	=>	3	BLNK-PREP				95122911.d03	122N9-A STD.		101.00	
	=>	4	SAMPLE	S95T003103		3	95122921.d01	PREP. BLANK		1.00	
	=>	5	DUP	S95T003103			95122921.d02	S95T003103		11.00	
	=>	6	SPK	S95T003103			95122921.d03	S95T003103	DUP	11.00	
	=>	7	SAMPLE	S95T003104		4	95122921.d04	S95T003103		21.00	
	=>	8	DUP	S95T003104		5	95122921.d05	S95T003103	DUP	21.00	
						6	95122921.d06	S95T003103	SPIKE	21.00	
						7	95122921.d07	S95T003104		21.00	
						8	95122921.d08	S95T003104	DUP	21.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

WHC-SD-WM-DP-160, REV. J

Sample Name: BLANK

Date: 12/29/1995 13:06:29

Data File : C:\DX\DATA\95122911.d01

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-160, REV.1

ACI Address: 1 System: 1 Inject#: 1

Detector: CDM-1

Analyst: *John W. Faye* 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
1	0.95		0.000	23	144	1	
Totals			0.000	23	144		

File: 95122911.d01 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 503 TO 513

Sample Name: 122N9-A STD.

Date: 12/29/1995 13:23:12

Data File : C:\DX\DATA\95122911.d02

WHC-SD-WM-DP-160, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

Analyst : *Janet* 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
3	1.08	FLUORIDE	61.842	1312	7951	1	0.93
4	1.59	CHLORIDE	75.523	1091	6516	1	-0.21
5	1.89	NITRITE	516.281	4812	31540	1	-0.18
6	2.79	BROMIDE	592.705	3203	23392	1	-1.99
7	3.17	NITRATE	630.394	3835	32190	1	-2.96
8	4.49	PHOSPHATE	547.744	1135	13979	1	-3.16
9	5.80	SULFATE	646.402	3345	44840	1	-4.61
10	7.59	OXALATE	550.076	1654	28724	1	-5.17
Totals			3620.967	20388	189131		

File: 95122911.d02 Sample: 122N9-A STD.

Data Reprocessed On 02/20/1996 09:47:47

Sample Name: 122N9-A STD. Date: 12/29/1995 13:37:44
Data File : C:\DX\DATA\95122911.d03
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
Analyst : *J. M. Fuge* 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	1.07	FLUORIDE	70.202	1358	9041	1	-0.31
2	1.57	CHLORIDE	75.394	1088	6504	1	-1.47
3	1.87	NITRITE	513.136	4760	31342	1	-1.23
4	2.77	BROMIDE	588.880	3171	23236	1	-2.92
5	3.15	NITRATE	632.859	3828	32320	1	-3.77
6	4.48	PHOSPHATE	548.744	1129	14006	1	-3.45
7	5.77	SULFATE	649.217	3322	45042	1	-5.04
8	7.56	OXALATE	551.491	1638	28799	1	-5.50
Totals			3629.924	20294	190290		

File: 95122911.d03 Sample: 122N9-A STD.

Data Reprocessed On 02/20/1996 09:47:50

Sample Name: PREP. BLANK Date: 12/29/1995 14:22:19
Data File : C:\DX\DATA\95122921.d01 WHC-SD-WM-DP-160, REV.1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1 Detector: CDM-1
Analyst : *John Lyons* 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
1	1.31		0.000	141	1528	1	
2	3.21	NITRATE	0.179	33	242	1	-1.73
Totals			0.179	175	1770		

File: 95122921.d01 Sample: PREP. BLANK

Data Reprocessed On 02/20/1996 09:47:52

Sample Name: S95T003103

Date: 12/29/1995 14:34:09

Data File : C:\DX\DATA\95122921.d02

WHC-SD-WM-DP-160, REV. I

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

Analyst : *John F. [signature]* Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.08	FLUORIDE	68.873	15519	93793	1	0.93
2	1.59	CHLORIDE	6.459	845	5109	1	-0.21
3	1.88	NITRITE	2.501	104	620	1	-0.53
4	2.79	BROMIDE	11.721	615	3909	1	-2.22
5	3.07	NITRATE	562.994	29693	301809	1	-6.22
6	4.51	PHOSPHATE	27.246	501	6222	1	-2.87
7	5.80	SULFATE	3.103	82	1078	1	-4.61
8	7.59	OXALATE	18.220	485	8573	1	-5.17
Totals			701.117	47843	421114		

File: 95122921.d02 Sample: S95T003103

Data Reprocessed On 02/20/1996 09:47:55

```
=====
Sample Name: S95T003103   DUP                               Date: 12/29/1995 14:53:42
Data File  : C:\DX\DATA\95122921.d03
Method     : C:\DX\METHOD\KIT.MET                         WHC-SD-WM-DP-160, REV. I
ACI Address: 1   System: 1   Inject#: 3                   Detector: CDM-1
Analyst    :                                           Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11   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	1.07	FLUORIDE	66.176	14944	89423	1	0.31
2	1.57	CHLORIDE	6.315	814	4995	1	-1.47
3	1.86	NITRITE	2.463	99	599	1	-1.59
4	2.77	BROMIDE	11.496	576	3827	1	-2.92
5	3.05	NITRATE	541.066	28441	288255	1	-6.63
6	4.48	PHOSPHATE	25.671	473	5849	1	-3.45
7	5.77	SULFATE	2.965	72	989	1	-5.04
8	7.59	OXALATE	17.523	478	8237	1	-5.17
Totals			673.675	45896	402175		

File: 95122921.d03 Sample: S95T003103 DUP

Data Reprocessed On 02/20/1996 09:47:57

```
=====
Sample Name: S95T003103                      Date: 12/29/1995 15:04:31
Data File  : C:\DX\DATA\95122921.d04
Method     : C:\DX\METHOD\KIT.MET           WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 4           Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	FLUORIDE	69.968	7652	45986	1	0.31
2	1.57	CHLORIDE	14.244	961	5907	1	-1.47
3	1.87	NITRITE	3.625	50	276	1	-1.23
4	2.77	BROMIDE	12.870	311	2101	1	-2.69
5	3.09	NITRATE	560.002	15671	146578	1	-5.40
6	4.48	PHOSPHATE	26.699	248	3085	1	-3.45
7	5.80	SULFATE	4.084	44	461	1	-4.61
8	7.59	OXALATE	18.122	254	4379	1	-5.17
Totals			709.613	25190	208772		

File: 95122921.d04 Sample: S95T003103

Data Reprocessed On 02/20/1996 09:48:00

```

=====
Sample Name: S95T003103  DUP                      Date: 12/29/1995 15:21:54
Data File  : C:\DX\DATA\95122921.d05
Method     : C:\DX\METHOD\KIT.MET                WHC-SD-WM-DP-160, REV. I
ACI Address: 1  System: 1  Inject#: 5              Detector: CDM-1
Analyst    :                                  Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	FLUORIDE	65.887	7003	43099	1	-0.31
2	1.57	CHLORIDE	6.122	418	2533	1	-1.47
3	1.87	NITRITE	3.570	47	260	1	-1.23
4	2.77	BROMIDE	12.044	287	1944	1	-2.69
5	3.10	NITRATE	513.326	14515	133564	1	-5.20
6	4.49	PHOSPHATE	24.542	232	2819	1	-3.16
7	5.80	SULFATE	4.032	36	444	1	-4.61
8	7.59	OXALATE	17.027	241	4104	1	-5.17
Totals			646.550	22778	188766		

File: 95122921.d05 Sample: S95T003103 DUP

Data Reprocessed On 02/20/1996 09:48:02

Sample Name: S95T003103 SPIKE

Date: 12/29/1995 15:32:56

Data File : C:\DX\DATA\95122921.d06

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-160, REV. 1

ACI Address: 1 System: 1 Inject#: 6

Detector: CDM-1

Analyst : *[Signature]* Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 21 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	1.09	FLUORIDE	76.074	8074	50361	1	1.56
2	1.59	CHLORIDE	21.425	1459	8913	1	-0.21
3	1.88	NITRITE	108.447	4758	31874	1	-0.53
4	2.78	BROMIDE	130.198	3544	24758	1	-2.46
5	3.11	NITRATE	625.001	17506	164958	1	-4.99
6	4.49	PHOSPHATE	139.006	1373	17166	1	-3.16
7	5.80	SULFATE	136.365	3346	45520	1	-4.61
8	7.56	OXALATE	129.548	1835	32589	1	-5.50
Totals			1366.064	41895	376138		

File: 95122921.d06 Sample: S95T003103 SPIKE

Data Reprocessed On 02/20/1996 09:48:04

```
=====
Sample Name: S95T003104                      Date: 12/29/1995 15:44:02
Data File  : C:\DX\DATA\95122921.d07
Method     : C:\DX\METHOD\KIT.MET           WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 7          Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  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	1.07	FLUORIDE	61.034	6366	39704	1	-0.31
2	1.57	CHLORIDE	5.804	398	2402	1	-1.47
3	1.87	NITRITE	3.533	45	249	1	-1.23
4	2.77	BROMIDE	10.385	241	1629	1	-2.69
5	3.10	NITRATE	474.110	13438	122747	1	-5.20
6	4.48	PHOSPHATE	20.866	192	2365	1	-3.45
7	5.80	SULFATE	5.086	48	797	1	-4.61
8	7.59	OXALATE	15.117	214	3624	1	-5.17
Totals			595.936	20940	173516		

File: 95122921.d07 Sample: S95T003104

Data Reprocessed On 02/20/1996 09:48:07

```
=====
Sample Name: S95T003104 DUP                      Date: 12/29/1995 15:55:56
Data File  : C:\DX\DATA\95122921.d08             WHC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8               Detector: CDM-1
Analyst    :                                     Column:
=====
```

```
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	61.410	6625	39965	1	1.56
2	1.59	CHLORIDE	5.946	397	2460	1	-0.21
3	1.88	NITRITE	3.604	46	270	1	-0.53
4	2.79	BROMIDE	10.677	244	1684	1	-1.99
5	3.13	NITRATE	481.954	13558	124902	1	-4.38
6	4.51	PHOSPHATE	20.214	196	2285	1	-2.87
7	5.80	SULFATE	4.199	37	500	1	-4.61
8	7.61	OXALATE	15.860	223	3811	1	-4.83
Totals			603.865	21328	175877		

File: 95122921.d08 Sample: S95T003104 DUP

LABCORE Completed Worklist Report for Worklist# 4182

Analyst: eal

Instrument: IC01

Book# 122 N/A

Method: LP-533705 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		ug/mL
1 CCB		0	@IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB		0	@IC-QC NC2	QC	1	<1.07e-1		ug/mL
1 CCB		0	@IC-QC BE	QC	1	<1.26e-1		ug/mL
1 CCB		0	@IC-QC NC3	QC	1	2.52e-01	0.250	ug/mL
1 CCB		0	@IC-QC PC4	QC	1	<1.19e-1		ug/mL
1 CCB		0	@IC-QC SC4	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	59	6.39e+01	108.310	% Recovery
2 CCV		0	@IC-QC CL	QC	79	7.97e+01	100.890	% Recovery
2 CCV		0	@IC-QC NC2	QC	536	5.40e+02	100.750	% Recovery
2 CCV		0	@IC-QC BE	QC	575	6.14e+02	106.780	% Recovery
2 CCV		0	@IC-QC NC3	QC	614	6.63e+02	107.980	% Recovery
2 CCV		0	@IC-QC PC4	QC	546	5.80e+02	106.230	% Recovery
2 CCV		0	@IC-QC SC4	QC	631	6.61e+02	104.750	% Recovery
2 CCV		0	@IC-QC OXALATE2	QC	525	5.63e+02	107.240	% 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 NC2-02	SOLID	1	<1.07e-1		ug/g
3 BLNK-PREP		0	@IC-01 BE-02	SOLID	1	<1.26e-1		ug/g
3 BLNK-PREP		0	@IC-01 NC3-02	SOLID	1	1.54e-01	0.150	ug/g
3 BLNK-PREP		0	@IC-01 PC4-02	SOLID	1	<1.19e-1		ug/g
3 BLNK-PREP		0	@IC-01 SC4-02	SOLID	1	<1.36e-1		ug/g
3 BLNK-PREP		0	@IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S95T003105	0 W	@IC-01 F-02	SOLID	N/A	6.603e+03	30.790	ug/g
4 SAMPLE	S95T003105	0 W	@IC-01 CL-02	SOLID	N/A	5.984e+02	40.260	ug/g
4 SAMPLE	S95T003105	0 W	@IC-01 NC2-02	SOLID	N/A	3.977e+02	253.300	ug/g
4 SAMPLE	S95T003105	0 W	@IC-01 BE-02	SOLID	N/A	9.292e+02	298.300	ug/g
4 SAMPLE	S95T003105	0 W	@IC-01 NC3-02	SOLID	N/A	5.067e+04	331.500	ug/g
4 SAMPLE	S95T003105	0 W	@IC-01 PC4-02	SOLID	N/A	2.450e+03	281.700	ug/g
4 SAMPLE	S95T003105	0 W	@IC-01 SC4-02	SOLID	N/A	4.795e+02	322.000	ug/g
4 SAMPLE	S95T003105	0 W	@IC-01 OXALATE2	SOLID	N/A	1.734e+03	248.600	ug/g
5 DUP	S95T003105	0 W	@IC-01 F-02	SOLID	6.60e+03	6.54e+03	0.910	RPD
5 DUP	S95T003105	0 W	@IC-01 CL-02	SOLID	5.98e+02	6.22e+02	3.930	RPD
5 DUP	S95T003105	0 W	@IC-01 NC2-02	SOLID	3.98e+02	3.96e+02	0.500	RPD
5 DUP	S95T003105	0 W	@IC-01 BE-02	SOLID	9.29e+02	9.14e+02	1.630	RPD
5 DUP	S95T003105	0 W	@IC-01 NC3-02	SOLID	5.07e+04	5.09e+04	0.390	RPD
5 DUP	S95T003105	0 W	@IC-01 PC4-02	SOLID	2.45e+03	2.56e+03	4.390	RPD
5 DUP	S95T003105	0 W	@IC-01 SC4-02	SOLID	4.80e+02	4.39e+02	8.920	RPD
5 DUP	S95T003105	0 W	@IC-01 OXALATE2	SOLID	1.73e+03	1.72e+03	0.580	RPD
6 SPK	S95T003105	0 W	@IC-01 F-02	SOLID	59	69.655	118.060	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4182

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003105	0	W	@IC-01	CL-02	SOLID	79	77.960	98.680 % Recovery
6 SPK	S95T003105	0	W	@IC-01	NO2-02	SOLID	536	522.360	97.460 % Recovery
6 SPK	S95T003105	0	W	@IC-01	BR-02	SOLID	575	593.790	103.270 % Recovery
6 SPK	S95T003105	0	W	@IC-01	NO3-02	SOLID	614	722.680	117.700 % Recovery
6 SPK	S95T003105	0	W	@IC-01	PO4-02	SOLID	546	616.405	112.890 % Recovery
6 SPK	S95T003105	0	W	@IC-01	SO4-02	SOLID	631	638.735	101.230 % Recovery
6 SPK	S95T003105	0	W	@IC-01	OXALATE2	SOLID	525	563.110	107.260 % Recovery
7 SAMPLE	S95T003106	0	W	@IC-01	F-02	SOLID	N/A	6.830e+03	35.470 ug/g
7 SAMPLE	S95T003106	0	W	@IC-01	CL-02	SOLID	N/A	6.624e+02	46.370 ug/g
7 SAMPLE	S95T003106	0	W	@IC-01	NO2-02	SOLID	N/A	4.457e+02	291.900 ug/g
7 SAMPLE	S95T003106	0	W	@IC-01	BR-02	SOLID	N/A	9.202e+02	343.700 ug/g
7 SAMPLE	S95T003106	0	W	@IC-01	NO3-02	SOLID	N/A	5.318e+04	381.900 ug/g
7 SAMPLE	S95T003106	0	W	@IC-01	PO4-02	SOLID	N/A	3.203e+03	324.600 ug/g
7 SAMPLE	S95T003106	0	W	@IC-01	SO4-02	SOLID	N/A	5.405e+02	371.000 ug/g
7 SAMPLE	S95T003106	0	W	@IC-01	OXALATE2	SOLID	N/A	1.808e+03	286.400 ug/g
8 DUP	S95T003106	0	W	@IC-01	F-02	SOLID	6.83e+03	6.48e+03	5.260 RPD
8 DUP	S95T003106	0	W	@IC-01	CL-02	SOLID	6.62e+02	5.93e+02	11.000 RPD
8 DUP	S95T003106	0	W	@IC-01	NO2-02	SOLID	4.46e+02	4.18e+02	6.480 RPD
8 DUP	S95T003106	0	W	@IC-01	BR-02	SOLID	9.20e+02	8.63e+02	6.390 RPD
8 DUP	S95T003106	0	W	@IC-01	NO3-02	SOLID	5.32e+04	4.91e+04	8.020 RPD
8 DUP	S95T003106	0	W	@IC-01	PO4-02	SOLID	3.20e+03	2.33e+03	31.460 RPD
8 DUP	S95T003106	0	W	@IC-01	SO4-02	SOLID	5.40e+02	4.63e+02	15.350 RPD
8 DUP	S95T003106	0	W	@IC-01	OXALATE2	SOLID	1.81e+03	1.64e+03	9.860 RPD

Final page for worklist# 4182

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

Data Reprocessed On 01/05/1996 15:36:42

```
=====
Sample Name: BLANK                               Date: 12/30/1995 10:57:20
Data File  : C:\DX\DATA\95123011.d04             WHC-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4              Detector: CDM-1
Analyst    : James J. [Signature] 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	3.37	NITRATE	0.252	80	624	1	3.16
Totals			0.252	80	624		

File: 95123011.d04 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 516 TO 523

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=====
Sample Name: 122N9-A STD          Date: 12/30/1995 11:14:22
Data File  : C:\DX\DATA\95123011.d05      WHC-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5
Analyst    :                      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
2	1.09	FLUORIDE	63.856	1362	8213	2	1.56
3	1.59	CHLORIDE	79.665	1133	6875	1	0.21
4	1.89	NITRITE	540.346	4936	33059	1	0.18
5	2.80	BROMIDE	614.090	3265	24264	1	-1.75
6	3.19	NITRATE	662.718	3974	33900	1	-2.55
7	4.60	PHOSPHATE	580.354	1183	14837	1	-0.86
8	5.93	SULFATE	660.743	3296	45872	1	-2.41
9	7.77	OXALATE	563.366	1652	29427	1	-2.83
Totals			3765.137	20801	196447		

File: 95123011.d05 Sample: 122N9-A STD.

Data Reprocessed On 01/05/1996 15:36:46

```

=====
Sample Name: PREP BLANK                      Date: 12/30/1995 11:22:10
Data File  : C:\DX\DATA\95123011.d06         WFO-CD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6           Detector: CDM-1
Analyst    :                               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
1	1.29		0.000	142	1628	1	
2	3.21	NITRATE	0.154	20	114	1	-1.94
Totals			0.154	163	1742		

File: 95123011.d06 Sample: PREP BLANK

Data Reprocessed On 01/05/1996 15:36:48

Sample Name: S95T003105

Date: 12/30/1995 11:43:16

Data File : C:\DX\DATA\95123011.d07

WHC-SD-WM-DP-160, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 7

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.09	FLUORIDE	58.569	6171	37994	1	1.56
2	1.59	CHLORIDE	5.308	363	2196	1	0.21
3	1.89	NITRITE	3.528	43	247	1	-0.18
4	2.80	BROMIDE	8.242	179	1222	1	-1.75
5	3.13	NITRATE	449.464	12777	116001	1	-4.18
6	4.61	PHOSPHATE	21.719	202	2470	1	-0.57
7	5.96	SULFATE	4.253	39	518	1	-1.97
8	7.80	OXALATE	15.378	206	3689	1	-2.50
Totals			566.461	19980	164338		

File: 95123011.d07 Sample: S95T003105

Data Reprocessed On 01/05/1996 15:36:50

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=====
Sample Name: S95T003105 DUP                               Date: 12/30/1995 15:05:23
Data File  : C:\DX\DATA\95123011.d08                     W40-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8                       Detector: CDM-1
Analyst    :                                              Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	FLUORIDE	58.617	6215	38027	1	0.31
2	1.57	CHLORIDE	5.570	376	2305	1	-1.05
3	1.87	NITRITE	3.549	43	254	1	-0.88
4	2.79	BROMIDE	8.186	177	1211	1	-2.22
5	3.12	NITRATE	455.793	12761	117729	1	-4.59
6	4.59	PHOSPHATE	22.931	210	2620	1	-1.15
7	5.93	SULFATE	3.932	30	410	1	-2.41
8	7.77	OXALATE	15.452	209	3708	1	-2.83
Totals			574.031	20020	166265		

File: 95123011.d08 Sample: S95T003105 DUP

Data Reprocessed On 01/05/1996 15:36:52

```

=====
Sample Name: S95T003105 SPIKE                      Date: 12/30/1995 12:09:48
Data File  : C:\DX\DATA\95123011.d09
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9                  Detector: CDM-1
Analyst    :                      Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21   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	1.07	FLUORIDE	72.489	7690	47784	1	0.31
2	1.57	CHLORIDE	20.915	1432	8698	1	-1.05
3	1.87	NITRITE	108.258	4759	31817	1	-0.88
4	2.77	BROMIDE	127.388	3409	24206	1	-2.69
5	3.11	NITRATE	593.808	16681	156099	1	-4.99
6	4.57	PHOSPHATE	145.136	1358	17947	1	-1.44
7	5.91	SULFATE	132.240	3182	44093	1	-2.85
8	7.75	OXALATE	127.935	1807	32178	1	-3.17
Totals			1328.170	40317	362822		

File: 95123011.d09 Sample: S95T003105 SPIKE

Data Reprocessed On 01/05/1996 15:36:54

Sample Name: S95T003106

Date: 12/30/1995 12:22:32

Data File : C:\DX\DATA\95123011.d10

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 10

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	52.581	5554	33883	1	0.31
2	1.57	CHLORIDE	5.099	341	2110	1	-1.05
3	1.87	NITRITE	3.431	38	218	1	-1.23
4	2.78	BROMIDE	7.084	145	1002	1	-2.46
5	3.12	NITRATE	409.409	11641	105121	1	-4.59
6	4.59	PHOSPHATE	24.654	198	2833	1	-1.15
7	5.93	SULFATE	4.161	37	487	1	-2.41
8	7.77	OXALATE	13.921	188	3323	1	-2.83
Totals			520.341	18141	148978		

File: 95123011.d10 Sample: S95T003106

```

=====
Sample Name: S95T003106 DUP                      Date: 12/30/1995 12:35:44
Data File  : C:\DX\DATA\95123011.d11
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11              Detector: CDM-1
Analyst    :                      Column:
=====
  
```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	52.522	5522	33843	1	1.56
2	1.59	CHLORIDE	4.809	332	1990	1	0.21
3	1.89	NITRITE	3.376	37	202	1	0.18
4	2.81	BROMIDE	6.997	144	986	1	-1.52
5	3.15	NITRATE	397.771	11480	101979	1	-3.77
6	4.60	PHOSPHATE	18.862	174	2118	1	-0.86
7	5.96	SULFATE	3.753	28	350	1	-1.97
8	7.80	OXALATE	13.276	185	3161	1	-2.50
Totals			501.367	17901	144630		

File: 95123011.d11 Sample: S95T003106 DUP

LABCORE Data Entry Template for Worklist# 4182

Analyst: EAL Instrument: IC01 1901 Book# 122194

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003105 0 W			@IC-01	SOLID	95000158	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S95T003105 0 W			@IC-01	SOLID		
6	SPK	S95T003105 0 W			@IC-01	SOLID		
7	SAMPLE	S95T003106 0 W			@IC-01	SOLID	95000158	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S95T003106 0 W			@IC-01	SOLID		

Final page for worklist # 4182

A. Lambert 12-30-95
Analyst Signature Date

Analyst Signature Date

Uploader + poster 1/4/96
James M. Luge
copied

Data Entry Comments:

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=====
Sample Name: BLANK                               Date: 12/30/1995 10:57:20
Data File  : C:\DX\DATA\95123011.D04           WHO-CD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4             Detector: CDM-1
Analyst    : A. Lampel                      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	3.37	NITRATE	0.252	80	624	1	3.16
Totals			0.252	80	624		

File: 95123011.D04 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 525 TO 527.


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=====
Sample Name: 122N9-A STD.                      Date: 12/30/1995 11:14:22
Data File  : C:\DX\DATA\95123011.D05           WFO-SD-VIA-DP-160, REV 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5             Detector: CDM-1
Analyst    : A. Kambel                      Column:
=====

```

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-----
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
2	1.09	FLUORIDE	63.856	1362	8213	2	1.56
3	1.59	CHLORIDE	79.665	1133	6875	1	0.21
4	1.89	NITRITE	540.346	4936	33059	1	0.18
5	2.80	BROMIDE	614.090	3265	24264	1	-1.75
6	3.19	NITRATE	662.718	3974	33900	1	-2.55
7	4.60	PHOSPHATE	580.354	1183	14837	1	-0.86
8	5.93	SULFATE	660.743	3296	45872	1	-2.41
9	7.77	OXALATE	563.366	1652	29427	1	-2.83
Totals			3765.137	20801	196447		

File: 95123011.D05 Sample: 122N9-A STD.

```

=====
Sample Name: PREP BLANK                      Date: 12/30/1995 11:32:10
Data File  : C:\DX\DATA\95123011.D06
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6
Analyst    : A. Lambert Column:
Detector: CDM-1
=====

```

```

-----
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
1	1.29		0.000	142	1628	1	
2	3.21	NITRATE	0.154	20	114	1	-1.94
Totals			0.154	163	1742		

File: 95123011.D06 Sample: PREP BLANK

LABCORE Completed Worklist Report for Worklist# 4183

Analyst: eal

Instrument: IC01

Book# 122194

Method: LA-523-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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	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	2.11e-01	0.210 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	59	6.29e+01	106.610 % Recovery
2	CCV		0		@IC-QC	CL	QC	79	7.63e+01	96.580 % Recovery
2	CCV		0		@IC-QC	NO2	QC	536	5.18e+02	96.640 % Recovery
2	CCV		0		@IC-QC	BR	QC	575	5.94e+02	103.300 % Recovery
2	CCV		0		@IC-QC	NO3	QC	614	6.42e+02	104.560 % Recovery
2	CCV		0		@IC-QC	PO4	QC	546	5.56e+02	101.830 % Recovery
2	CCV		0		@IC-QC	SO4	QC	631	6.39e+02	101.270 % Recovery
2	CCV		0		@IC-QC	OXALATE2	QC	525	5.54e+02	105.520 % 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	S95T003107	0	W	@IC-01	F-02	SOLID	N/A	6.393e+03	30.070 ug/g
4	REJECT	S95T003107	0	W	@IC-01	F-02	SOLID	N/A	6.393e+03	ug/g
4	SAMPLE	S95T003107	0	W	@IC-01	CL-02	SOLID	N/A	5.917e+02	39.310 ug/g
4	REJECT	S95T003107	0	W	@IC-01	CL-02	SOLID	N/A	5.917e+02	ug/g
4	SAMPLE	S95T003107	0	W	@IC-01	NO2-02	SOLID	N/A	3.892e+02	247.400 ug/g
4	REJECT	S95T003107	0	W	@IC-01	NO2-02	SOLID	N/A	3.892e+02	ug/g
4	SAMPLE	S95T003107	0	W	@IC-01	BR-02	SOLID	N/A	5.998e+02	291.400 ug/g
4	REJECT	S95T003107	0	W	@IC-01	BR-02	SOLID	N/A	5.998e+02	ug/g
4	SAMPLE	S95T003107	0	W	@IC-01	NO3-02	SOLID	N/A	4.972e+04	323.800 ug/g
4	REJECT	S95T003107	0	W	@IC-01	NO3-02	SOLID	N/A	4.972e+04	ug/g
4	SAMPLE	S95T003107	0	W	@IC-01	PO4-02	SOLID	N/A	2.164e+03	275.200 ug/g
4	REJECT	S95T003107	0	W	@IC-01	PO4-02	SOLID	N/A	2.164e+03	ug/g
4	SAMPLE	S95T003107	0	W	@IC-01	SO4-02	SOLID	N/A	4.540e+02	314.500 ug/g
4	REJECT	S95T003107	0	W	@IC-01	SO4-02	SOLID	N/A	4.540e+02	ug/g
4	SAMPLE	S95T003107	0	W	@IC-01	OXALATE2	SOLID	N/A	1.642e+03	242.800 ug/g
4	REJECT	S95T003107	0	W	@IC-01	OXALATE2	SOLID	N/A	1.642e+03	ug/g
5	DUP	S95T003107	0	W	@IC-01	F-02	SOLID	6.39e+03	6.75e+03	5.480 RPD

LABCORE Completed Worklist Report for Worklist# 4183

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
5 DUP	S95T003107	0 W	@IC-01	CL-02	SOLID	5.92e+02	6.48e+02	9.030 RPD
5 DUP	S95T003107	0 W	@IC-01	NO2-02	SOLID	3.89e+02	3.86e+02	0.770 RPD
5 DUP	S95T003107	0 W	@IC-01	BR-02	SOLID	6.00e+02	5.93e+02	1.170 RPD
5 DUP	S95T003107	0 W	@IC-01	NO3-02	SOLID	4.97e+04	5.12e+04	2.970 RPD
5 DUP	S95T003107	0 W	@IC-01	PO4-02	SOLID	2.16e+03	2.42e+03	11.350 RPD
5 DUP	S95T003107	0 W	@IC-01	SO4-02	SOLID	4.54e+02	4.46e+02	1.780 RPD
5 DUP	S95T003107	0 W	@IC-01	OXALATE2	SOLID	1.64e+03	1.73e+03	5.340 RPD
6 SPK	S95T003107	0 W	@IC-01	F-02	SOLID	59	74.225	125.810 % Recovery
6 SPK	S95T003107	0 W	@IC-01	CL-02	SOLID	79	72.635	91.940 % Recovery
6 SPK	S95T003107	0 W	@IC-01	NO2-02	SOLID	536	492.335	91.850 % Recovery
6 SPK	S95T003107	0 W	@IC-01	BR-02	SOLID	575	552.765	96.130 % Recovery
6 SPK	S95T003107	0 W	@IC-01	NO3-02	SOLID	614	657.620	107.100 % Recovery
6 SPK	S95T003107	0 W	@IC-01	PO4-02	SOLID	546	556.755	101.970 % Recovery
6 SPK	S95T003107	0 W	@IC-01	SO4-02	SOLID	631	624.385	98.950 % Recovery
6 SPK	S95T003107	0 W	@IC-01	OXALATE2	SOLID	525	540.455	102.940 % Recovery
7 SAMPLE	S95T003108	0 W	@IC-01	F-02	SOLID	N/A	6.458e+03	32.660 ug/g
7 REJECT	S95T003108	0 W	@IC-01	F-02	SOLID	N/A	6.458e+03	ug/g
7 SAMPLE	S95T003108	0 W	@IC-01	CL-02	SOLID	N/A	5.819e+02	42.690 ug/g
7 REJECT	S95T003108	0 W	@IC-01	CL-02	SOLID	N/A	5.819e+02	ug/g
7 SAMPLE	S95T003108	0 W	@IC-01	NO2-02	SOLID	N/A	4.062e+02	268.800 ug/g
7 REJECT	S95T003108	0 W	@IC-01	NO2-02	SOLID	N/A	4.062e+02	ug/g
7 SAMPLE	S95T003108	0 W	@IC-01	BR-02	SOLID	N/A	8.617e+02	316.500 ug/g
7 REJECT	S95T003108	0 W	@IC-01	BR-02	SOLID	N/A	8.617e+02	ug/g
7 SAMPLE	S95T003108	0 W	@IC-01	NO3-02	SOLID	N/A	4.855e+04	351.600 ug/g
7 REJECT	S95T003108	0 W	@IC-01	NO3-02	SOLID	N/A	4.855e+04	ug/g
7 SAMPLE	S95T003108	0 W	@IC-01	PO4-02	SOLID	N/A	2.808e+03	298.900 ug/g
7 REJECT	S95T003108	0 W	@IC-01	PO4-02	SOLID	N/A	2.808e+03	ug/g
7 SAMPLE	S95T003108	0 W	@IC-01	SO4-02	SOLID	N/A	5.136e+02	341.600 ug/g
7 REJECT	S95T003108	0 W	@IC-01	SO4-02	SOLID	N/A	5.136e+02	ug/g
7 SAMPLE	S95T003108	0 W	@IC-01	OXALATE2	SOLID	N/A	1.604e+03	263.700 ug/g
7 REJECT	S95T003108	0 W	@IC-01	OXALATE2	SOLID	N/A	1.604e+03	ug/g
8 DUP	S95T003108	0 W	@IC-01	F-02	SOLID	6.46e+03	6.54e+03	1.230 RPD
8 DUP	S95T003108	0 W	@IC-01	CL-02	SOLID	5.82e+02	5.98e+02	2.710 RPD
8 DUP	S95T003108	0 W	@IC-01	NO2-02	SOLID	4.06e+02	4.03e+02	0.740 RPD
8 DUP	S95T003108	0 W	@IC-01	BR-02	SOLID	8.62e+02	8.62e+02	0.000 RPD
8 DUP	S95T003108	0 W	@IC-01	NO3-02	SOLID	4.86e+04	4.94e+04	1.630 RPD
8 DUP	S95T003108	0 W	@IC-01	PO4-02	SOLID	2.81e+03	2.29e+03	20.390 RPD
8 DUP	S95T003108	0 W	@IC-01	SO4-02	SOLID	5.14e+02	5.00e+02	2.760 RPD
8 DUP	S95T003108	0 W	@IC-01	OXALATE2	SOLID	1.60e+03	1.69e+03	5.470 RPD

Final page for worklist# 4183

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

[Signature]
Reviewer Signature _____ Date *1/4/96*

LABCORE Data Entry Template for Worklist# 4183

Analyst: EAL Instrument: IC01 IC01 Book# 12209-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003107	0	W	@IC-01	SOLID	95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02								
5	DUP	S95T003107	0	W	@IC-01	SOLID		
6	SPK	S95T003107	0	W	@IC-01	SOLID		
7	SAMPLE	S95T003108	0	W	@IC-01	SOLID	95000158	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02								
8	DUP	S95T003108	0	W	@IC-01	SOLID		

Final page for worklist # 4183

A. Lambel 12.30.95
Analyst Signature Date

Analyst Signature Date

Uploaded + posted 1/4/96
Jean-Louis
replied

Data Entry Comments:

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=====
Sample Name: BLANK                               Date: 12/30/1995 12:48:25
Data File  : C:\DX\DATA\95123011.D12
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 12
Analyst    : A. Lambert Column:
=====

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=====
12/30/95
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
1	3.21	NITRATE	0.211	54	407	1	-1.73
Totals			0.211	54	407		

File: 95123011.D12 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 531 TO 538

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=====
Sample Name: 122N9-A                               Date: 12/30/1995 13:06:46
Data File  : C:\DX\DATA\95123011.D13
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 13
Analyst    : A. Lambert Column:
WHC-SD-WM-DP-160, REV. I
Detector: CDM-1
=====

```

```

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
2	1.09	FLUORIDE	62.924	1325	8091	2	1.56
3	1.59	CHLORIDE	76.350	1068	6587	1	0.21
4	1.89	NITRITE	517.641	4717	31626	1	0.18
5	2.80	BROMIDE	594.408	3151	23461	1	-1.75
6	3.18	NITRATE	641.652	3820	32785	1	-2.75
7	4.60	PHOSPHATE	555.761	1135	14190	1	-0.86
8	5.93	SULFATE	638.682	3207	44285	1	-2.41
9	7.77	OXALATE	554.362	1594	28951	1	-2.83
Totals			3641.781	20017	189977		

File: 95123011.D13 Sample: 122N9-A

Sample Name: PREP BLANK

Date: 12/30/1995 15:57:10

Data File : C:\DX\DATA\95123021.d07

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-160, REV. I

ACI Address: 1 System: 1 Inject#: 7

Detector: CDM-1

Analyst : 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
1	1.31		0.000	140	1579	1	
2	3.22	NITRATE	0.169	29	189	1	-1.53
Totals			0.169	170	1768		

File: 95123021.d07 Sample: PREP BLANK

```

=====
Sample Name: S95TOO3107 Date: 12/30/1995 13:23:21
Data File : C:\DX\DATA\95123011.D14
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14
Analyst : Column:
=====

```

WHC-SD-WM-DP-160, REV. 1
Detector: CDM-1

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External 1 21 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	1.07	FLUORIDE	58.055	6191	37639	1	0.31
2	1.57	CHLORIDE	5.373	368	2223	1	-1.05
3	1.87	NITRITE	3.533	43	249	1	-0.88
4	2.79	BROMIDE	5.447	102	692	1	-2.22
5	3.11	NITRATE	451.476	12881	116550	1	-4.79
6	4.59	PHOSPHATE	19.649	182	2215	1	-1.15
7	5.91	SULFATE	4.123	36	474	1	-2.85
8	7.77	OXALATE	14.909	204	3572	1	-2.83
Totals			562.565	20007	163614		

File: 95123011.D14 Sample: S95TOO3107

```

=====
Sample Name: S95T003107 DUP                               Date: 12/30/1995 14:43:39
Data File  : C:\DX\DATA\95123021.D01
Method     : C:\DX\METHOD\KIT.MET                        WHC-SD-WM-DP-160, REV. /
ACI Address: 1 System: 1 Inject#: 1                        Detector: CDM-1
Analyst    :                                              Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	60.834	6447	39565	1	1.56
2	1.59	CHLORIDE	5.840	399	2416	1	0.21
3	1.90	NITRITE	3.481	41	233	1	0.53
4	2.81	BROMIDE	5.352	101	674	1	-1.52
5	3.14	NITRATE	461.558	13208	119306	1	-3.98
6	4.61	PHOSPHATE	21.806	203	2481	1	-0.57
7	5.96	SULFATE	4.024	35	441	1	-1.97
8	7.80	OXALATE	15.594	212	3744	1	-2.50
Totals			578.489	20647	168860		

File: 95123021.D01 Sample: S95T003107 DUP

Data Reprocessed On 02/20/1996 09:48:12

Sample Name: S95T003107 SPIKE

Date: 12/30/1995 14:55:16

Data File : C:\DX\DATA\95123021.d02

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-160, REV. I

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.09	FLUORIDE	72.933	7609	48102	1	1.56
2	1.59	CHLORIDE	19.930	1380	8285	1	0.21
3	1.89	NITRITE	101.724	4546	29835	1	0.18
4	2.79	BROMIDE	116.433	3180	22060	1	-1.99
5	3.13	NITRATE	582.820	16483	152995	1	-4.38
6	4.59	PHOSPHATE	130.654	1284	16104	1	-1.15
7	5.93	SULFATE	128.951	3103	42956	1	-2.41
8	7.75	OXALATE	122.671	1696	30837	1	-3.17
Totals			1276.116	39281	351174		

File: 95123021.d02 Sample: S95T003107 SPIKE

Data Reprocessed On 02/20/1996 09:48:14

Sample Name: S95T003108

Date: 12/30/1995 15:07:53

Data File : C:\DX\DATA\95123021.d03

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-160, REV. I

ACI Address: 1 System: 1 Inject#: 3

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.09	FLUORIDE	53.998	5604	34851	1	1.56
2	1.59	CHLORIDE	4.865	337	2013	1	0.21
3	1.89	NITRITE	3.396	36	208	1	0.18
4	2.80	BROMIDE	7.205	150	1025	1	-1.75
5	3.14	NITRATE	405.962	11496	104190	1	-3.98
6	4.61	PHOSPHATE	23.474	186	2687	1	-0.57
7	5.96	SULFATE	4.294	41	531	1	-1.97
8	7.80	OXALATE	13.409	185	3195	1	-2.50
Totals			516.603	18034	148700		

File: 95123021.d03 Sample: S95T003108

Data Reprocessed On 02/20/1996 09:48:17

```
=====
Sample Name: S95T003108  DUP                      Date: 12/30/1995 15:19:09
Data File  : C:\DX\DATA\95123021.d04
Method     : C:\DX\METHOD\KIT.MET                WHC-SD-WM-DP-160, REV. |
ACI Address: 1  System: 1  Inject#: 4              Detector: CDM-1
Analyst    :                                  Column:
=====
```

```
Calibration  Volume  Dilution Points Rate  Start  Stop Area Reject
-----
External      1       21    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	1.07	FLUORIDE	54.210	5598	34996	1	0.31
2	1.57	CHLORIDE	4.958	339	2052	1	-1.05
3	1.87	NITRITE	3.346	35	193	1	-1.23
4	2.78	BROMIDE	7.151	149	1015	1	-2.46
5	3.12	NITRATE	409.926	11600	105261	1	-4.59
6	4.59	PHOSPHATE	19.030	174	2139	1	-1.15
7	5.93	SULFATE	4.150	36	483	1	-2.41
8	7.77	OXALATE	13.998	188	3343	1	-2.83
Totals			516.770	18119	149481		

File: 95123021.d04 Sample: S95T003108 DUP

LABCORE Completed Worklist Report for Worklist# 4184

Analyst: vlm

Instrument: IC01

Book# 12227C

Method: LA-1533-115 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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 OKALATE2	QC	1	<1.05e-1		ug/mL
2 CCV		0	@IC-QC F	QC	59	6.23e+01	105.590 % Recovery	
2 CCV		0	@IC-QC CL	QC	79	7.39e+01	93.540 % Recovery	
2 CCV		0	@IC-QC NO2	QC	536	5.46e+02	101.870 % Recovery	
2 CCV		0	@IC-QC BR	QC	575	6.02e+02	104.700 % Recovery	
2 CCV		0	@IC-QC NO3	QC	614	6.35e+02	103.420 % Recovery	
2 CCV		0	@IC-QC PO4	QC	546	5.62e+02	102.930 % Recovery	
2 CCV		0	@IC-QC SO4	QC	631	6.51e+02	103.170 % Recovery	
2 CCV		0	@IC-QC OKALATE2	QC	525	5.55e+02	105.710 % 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 OKALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S95T003312	0 W	@IC-01 F-02	SOLID	N/A	6.268e+03	15.220 ug/g	
4 SAMPLE	S95T003312	0 W	@IC-01 CL-02	SOLID	N/A	5.327e+02	19.910 ug/g	
4 SAMPLE	S95T003312	0 W	@IC-01 NO2-02	SOLID	N/A	6.410e+02	125.300 ug/g	
4 SAMPLE	S95T003312	0 W	@IC-01 BR-02	SOLID	N/A	8.157e+02	147.600 ug/g	
4 SAMPLE	S95T003312	0 W	@IC-01 NO3-02	SOLID	N/A	4.845e+04	163.100 ug/g	
4 SAMPLE	S95T003312	0 W	@IC-01 PO4-02	SOLID	N/A	3.328e+03	139.400 ug/g	
4 SAMPLE	S95T003312	0 W	@IC-01 SO4-02	SOLID	N/A	4.360e+02	159.300 ug/g	
4 SAMPLE	S95T003312	0 W	@IC-01 OKALATE2	SOLID	N/A	1.290e+03	123.000 ug/g	
5 DUP	S95T003312	0 W	@IC-01 F-02	SOLID	6.27e+03	6.19e+03	1.280 RPD	
5 DUP	S95T003312	0 W	@IC-01 CL-02	SOLID	5.33e+02	5.51e+02	3.320 RPD	
5 DUP	S95T003312	0 W	@IC-01 NO2-02	SOLID	6.41e+02	6.44e+02	0.470 RPD	
5 DUP	S95T003312	0 W	@IC-01 BR-02	SOLID	8.16e+02	8.12e+02	0.490 RPD	
5 DUP	S95T003312	0 W	@IC-01 NO3-02	SOLID	4.84e+04	4.78e+04	1.250 RPD	
5 DUP	S95T003312	0 W	@IC-01 PO4-02	SOLID	3.33e+03	3.31e+03	0.600 RPD	
5 DUP	S95T003312	0 W	@IC-01 SO4-02	SOLID	4.36e+02	4.31e+02	1.150 RPD	
5 DUP	S95T003312	0 W	@IC-01 OKALATE2	SOLID	1.29e+03	1.25e+03	3.150 RPD	
6 SPK	S95T003312	0 W	@IC-01 F-02	SOLID	59	65.270	110.630 % Recovery	

LABCORE Completed Worklist Report for Worklist# 4184

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003312	0	W	@IC-01	CL-02	SOLID	79	74.960	94.890 % Recovery
6 SPK	S95T003312	0	W	@IC-01	NO2-02	SOLID	536	531.790	99.210 % Recovery
6 SPK	S95T003312	0	W	@IC-01	BR-02	SOLID	575	553.380	96.240 % Recovery
6 SPK	S95T003312	0	W	@IC-01	NO3-02	SOLID	614	528.670	86.100 % Recovery
6 SPK	S95T003312	0	W	@IC-01	PO4-02	SOLID	546	574.440	105.210 % Recovery
6 SPK	S95T003312	0	W	@IC-01	SO4-02	SOLID	631	640.060	101.440 % Recovery
6 SPK	S95T003312	0	W	@IC-01	OXALATE2	SOLID	525	550.840	104.920 % Recovery
7 SAMPLE	S95T003313	0	W	@IC-01	F-02	SOLID	N/A	6.393e+03	47.400 ug/g
7 SAMPLE	S95T003313	0	W	@IC-01	CL-02	SOLID	N/A	5.375e+02	61.970 ug/g
7 SAMPLE	S95T003313	0	W	@IC-01	NO2-02	SOLID	N/A	8.257e+02	390.100 ug/g
7 SAMPLE	S95T003313	0	W	@IC-01	BR-02	SOLID	N/A	7.429e+02	459.400 ug/g
7 SAMPLE	S95T003313	0	W	@IC-01	NO3-02	SOLID	N/A	4.654e+04	510.400 ug/g
7 SAMPLE	S95T003313	0	W	@IC-01	PO4-02	SOLID	N/A	3.848e+03	433.900 ug/g
7 SAMPLE	S95T003313	0	W	@IC-01	SO4-02	SOLID	N/A	7.352e+02	495.800 ug/g
7 SAMPLE	S95T003313	0	W	@IC-01	OXALATE2	SOLID	N/A	1.561e+03	382.800 ug/g
8 DUP	S95T003313	0	W	@IC-01	F-02	SOLID	6.39e+03	6.41e+03	0.310 RPD
8 DUP	S95T003313	0	W	@IC-01	CL-02	SOLID	5.38e+02	5.51e+02	2.390 RPD
8 DUP	S95T003313	0	W	@IC-01	NO2-02	SOLID	8.26e+02	8.45e+02	2.270 RPD
8 DUP	S95T003313	0	W	@IC-01	BR-02	SOLID	7.43e+02	7.36e+02	0.950 RPD
8 DUP	S95T003313	0	W	@IC-01	NO3-02	SOLID	4.65e+04	4.77e+04	2.550 RPD
8 DUP	S95T003313	0	W	@IC-01	PO4-02	SOLID	3.85e+03	4.13e+03	7.020 RPD
8 DUP	S95T003313	0	W	@IC-01	SO4-02	SOLID	7.35e+02	7.91e+02	7.340 RPD
8 DUP	S95T003313	0	W	@IC-01	OXALATE2	SOLID	1.56e+03	1.54e+03	1.290 RPD

Final page for worklist# 4184

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date _____

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				10-Jan-96			
Worklist#: 4184				Data File: 4184JAN.CSV							
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-	1	96010931.d01	BLANK		1.00	
	=>	2	CCV			2	96010931.d02	122N9-C		101.00	
	=>	3	BLNK-PREP			3	96010931.d03	PREP BLANK		1.00	
	=>	4	SAMPLE	S95T003312		4	96010931.d04	S95T003312 SAMPL		11.00	
	=>	5	DUP	S95T003312		5	96010931.d05	S95T003312 DUP		11.00	
	=>	6	SPK	S95T003312		6	96010931.d06	S95T003312 SPIKE		11.00	
	=>	7	SAMPLE	S95T003313		7	96010931.d07	S95T003313 SAMPL		21.00	
	=>	8	DUP	S95T003313			96010931.d08	S95T003313 SAMPL		11.00	
						8	96010931.d09	S95T003313 DUP		21.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

LABCORE Data Entry Template for Worklist# 4184

Analyst: VLM Instrument: IC01 ICOT Book# 122N9C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003312 0 W	@IC-01	SOLID	95000161 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003312 0 W	@IC-01	SOLID			
6 SPK	S95T003312 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003313 0 W	@IC-01	SOLID	95000161 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003313 0 W	@IC-01	SOLID			

Final page for worklist # 4184

Valerie L. Massie 01-09-96
Analyst Signature Date

Analyst Signature Date

use CCB + CCV for this worklist on worklist # 4793

copied & reprinted
in shell

up loaded & posted 1/10/96 JML/eye
printed

Data Entry Comments:

Data Reprocessed On 01/10/1996 14:52:38

Sample Name: 122N9-C Date: 01/09/1996 08:56:48
Data File : C:\DX\DATA\96010931.D02
Method : C:\DX\METHOD\KIT.MET WHO-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
Analyst: *[Signature]* 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
2	1.07	FLUORIDE	62.316	1300	8012	2	-0.31
3	1.55	CHLORIDE	73.904	1044	6375	1	-2.31
4	1.85	NITRITE	546.031	4952	33418	1	-2.29
5	2.71	BROMIDE	601.961	3164	23769	1	-4.80
6	3.08	NITRATE	634.830	3810	32425	1	-5.81
7	4.44	PHOSPHATE	561.913	1150	14352	1	-4.31
8	5.80	SULFATE	651.191	3265	45184	1	-4.61
9	7.56	OXALATE	554.746	1603	28971	1	-5.50
Totals			3686.891	20288	192506		

File: 96010931.D02 Sample: 122N9-C

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 543 TO 553.

```

=====
Sample Name: 122N9-C                               Date: 01/09/1996 08:56:48
Data File  : C:\DX\DATA\96010931.D02              WHO-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2                Detector: CDM-1
Analyst    :                                     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	1.07	FLUORIDE	71.911	1358	9264	1	-0.31
2	1.55	CHLORIDE	73.904	1044	6375	1	-2.31
3	1.85	NITRITE	546.031	4952	33418	1	-2.29
4	2.71	BROMIDE	601.961	3164	23769	1	-4.80
5	3.08	NITRATE	634.830	3810	32425	1	-5.81
6	4.44	PHOSPHATE	561.913	1150	14352	1	-4.31
7	5.80	SULFATE	651.191	3265	45184	1	-4.61
8	7.56	OXALATE	554.746	1603	28971	1	-5.50
Totals			3696.486	20346	193758		

File: 96010931.D02 Sample: 122N9-C

Data Reprocessed On 01/10/1996 11:14:11

```
=====
Sample Name: BLANK                      Date: 01/09/1996 08:23:05
Data File  : C:\DX\DATA\96010931.d01
Method     : C:\DX\METHOD\KIT.MET      VHC-SD-WM-DP-16C, REV./
ACI Address: 1 System: 1 Inject#: 1      Detector: CDM-1
Analyst    :                          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		

File: 96010931.d01 Sample: BLANK

```

=====
Sample Name: 122N9-C                               Date: 01/09/1996 08:56:48
Data File  : C:\DX\DATA\96010931.d02              WHO-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 2            Detector: CDM-1
Analyst    :                               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	1.07	FLUORIDE	71.911	1358	9264	1	-0.31
2	1.55	CHLORIDE	73.904	1044	6375	1	-2.31
3	1.85	NITRITE	546.031	4952	33418	1	-2.29
4	2.71	BROMIDE	601.961	3164	23769	1	-4.80
5	3.08	NITRATE	634.830	3810	32425	1	-5.81
6	4.44	PHOSPHATE	561.913	1150	14352	1	-4.31
7	5.80	SULFATE	651.191	3265	45184	1	-4.61
8	7.56	OXALATE	554.746	1603	28971	1	-5.50
Totals			3696.486	20346	193758		

File: 96010931.d02 Sample: 122N9-C

Data Reprocessed On 01/10/1996 11:14:16

```
=====
Sample Name: PREP BLANK                      Date: 01/09/1996 11:43:12
Data File  : C:\DX\DATA\96010931.d03        WHC-SD-WM-DP-160.REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3          Detector: CDM-1
Analyst    :                               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
1	1.31		0.000	143	1769	1	
Totals			0.000	143	1769		

File: 96010931.d03 Sample: PREP BLANK

Data Reprocessed On 01/10/1996 11:14:18

```
=====
Sample Name: S95T003312 SAMPLE                      Date: 01/09/1996 12:50:53
Data File  : C:\DX\DATA\96010931.d04                 WHO-SD-VIM-DP-160, DEV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4                  Detector: CDM-1
Analyst    :                      Column:
=====
```

```
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11    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	1.08	FLUORIDE	58.873	12641	77973	1	0.93
2	1.57	CHLORIDE	5.004	656	3955	1	-1.05
3	1.86	NITRITE	6.021	401	2634	1	-1.59
4	2.73	BROMIDE	7.662	366	2435	1	-4.09
5	3.03		0.000	24280	236876	1	
6	4.45	PHOSPHATE	31.256	565	7175	1	-4.02
7	5.83	SULFATE	4.094	124	1713	1	-4.17
8	7.61	OXALATE	12.116	313	5639	1	-4.83
Totals			125.027	39345	338400		

File: 96010931.d04 Sample: S95T003312 SAMPLE

Data Reprocessed On 01/10/1996 11:14:20

=====

Sample Name: S95T003312 DUP	Date: 01/09/1996 13:07:14
Data File : C:\DX\DATA\96010931.d05	PHO-SD-WM-DP-160, REV.1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 5	Detector: CDM-1
Analyst :	Column:

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	56.498	12047	74361	1	-0.31
2	1.55	CHLORIDE	5.026	644	3972	1	-2.31
3	1.84	NITRITE	5.870	383	2548	1	-2.65
4	2.71	BROMIDE	7.404	349	2341	1	-4.80
5	3.01		0.000	23348	225760	1	
6	4.44	PHOSPHATE	30.233	545	6932	1	-4.31
7	5.80	SULFATE	3.929	117	1607	1	-4.61
8	7.59	OXALATE	11.439	302	5314	1	-5.17
Totals			120.400	37736	322835		

File: 96010931.d05 Sample: S95T003312 DUP

Data Reprocessed On 01/10/1996 11:14:22

```
=====
Sample Name: S95T003312 SPIKE                      Date: 01/09/1996 13:30:06
Data File  : C:\DX\DATA\96010931.d06                WHO-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6                  Detector: CDM-1
Analyst    :                      Column:
=====
```

```
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11  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	1.09	FLUORIDE	65.449	13995	88258	1	1.56
2	1.57	CHLORIDE	12.477	1651	9920	1	-1.05
3	1.87	NITRITE	59.196	5055	33260	1	-1.23
4	2.73	BROMIDE	63.004	3435	22813	1	-4.33
5	3.02		0.000	27558	268097	1	
6	4.45	PHOSPHATE	88.657	1669	21033	1	-4.02
7	5.80	SULFATE	68.136	3057	43345	1	-4.61
8	7.59	OXALATE	67.195	1811	32267	1	-5.17
Totals			424.113	58230	518991		

File: 96010931.d06 Sample: S95T003312 SPIKE

Data Reprocessed On 01/10/1996 11:14:24

```

=====
Sample Name: S95T003313 SAMPLE                      Date: 01/09/1996 13:58:11
Data File  : C:\DX\DATA\96010931.d07
Method     : C:\DX\METHOD\KIT.MET                   WHO-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 7                  Detector: CDM-1
Analyst    :                                         Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.08	FLUORIDE	36.825	3651	23332	1	0.93
2	1.57	CHLORIDE	3.096	216	1283	1	-1.05
3	1.86	NITRITE	4.756	100	615	1	-1.59
4	2.74	BROMIDE	4.279	71	471	1	-3.86
5	3.08	NITRATE	268.092	7769	67533	1	-5.81
6	4.47	PHOSPHATE	22.163	206	2525	1	-3.74
7	5.83	SULFATE	4.235	39	512	1	-4.17
8	7.61	OXALATE	8.993	118	2085	1	-4.83
Totals			352.439	12168	98355		

File: 96010931.d07 Sample: S95T003313 SAMPLE

Data Reprocessed On 01/10/1996 11:14:26

Sample Name: S95T003313 SAMPLE Date: 01/09/1996 14:12:20
Data File : C:\DX\DATA\96010931.d08
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	36.517	7448	45806	1	-0.31
2	1.55	CHLORIDE	3.225	423	2548	1	-2.31
3	1.84	NITRITE	3.562	194	1227	1	-2.65
4	2.70		0.000	139	967	1	
5	3.03		0.000	15248	139508	1	
6	4.44	PHOSPHATE	22.459	402	5087	1	-4.31
7	5.80	SULFATE	2.911	71	955	1	-4.61
8	7.59	OXALATE	8.979	227	4133	1	-5.17
Totals			77.652	24151	200231		

File: 96010931.d08 Sample: S95T003313 SAMPLE

Data Reprocessed On 01/10/1996 11:14:28

Sample Name: S95T003313 DUP Date: 01/09/1996 14:36:55
Data File : C:\DX\DATA\96010931.d09
Method : C:\DX\METHOD\KIT.MET WMS-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 9 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.09	FLUORIDE	35.401	3585	22397	1	1.56
2	1.57	CHLORIDE	3.043	208	1261	1	-1.05
3	1.85	NITRITE	4.668	94	589	1	-1.94
4	2.73	BROMIDE	4.062	65	429	1	-4.09
5	3.07	NITRATE	263.421	7508	66311	1	-6.01
6	4.47	PHOSPHATE	22.813	211	2605	1	-3.74
7	5.83	SULFATE	4.368	41	556	1	-4.17
8	7.61	OXALATE	8.492	113	1959	1	-4.83
Totals			346.267	11826	96107		

File: 96010931.d09 Sample: S95T003313 DUP

LABCORE Completed Worklist Report for Worklist# 4185

Analyst: pjm

Instrument: IC03

Book# 122100

Method: 1-A-253/25 Rev/Mod 2-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	<0.442		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	59	5.77e+01	97.800 % Recovery	
2 CCV		0	@IC-QC CL	QC	79	7.19e+01	91.010 % Recovery	
2 CCV		0	@IC-QC NO2	QC	536	5.19e+02	96.830 % Recovery	
2 CCV		0	@IC-QC BR	QC	575	5.46e+02	94.960 % Recovery	
2 CCV		0	@IC-QC NO3	QC	614	5.75e+02	93.650 % Recovery	
2 CCV		0	@IC-QC PO4	QC	546	4.99e+02	91.390 % Recovery	
2 CCV		0	@IC-QC SO4	QC	631	5.94e+02	94.140 % Recovery	
2 CCV		0	@IC-QC OXALATE2	QC	525	4.86e+02	92.570 % 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	4.53e-01	0.450	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	4.00e-01	0.400	ug/g
4 SAMPLE	S95T003314	0 W	@IC-01 F-02	SOLID	N/A	5.550e+03	27.550	ug/g
4 SAMPLE	S95T003314	0 W	@IC-01 CL-02	SOLID	N/A	5.804e+02	36.040	ug/g
4 SAMPLE	S95T003314	0 W	@IC-01 NO2-02	SOLID	N/A	1.146e+03	226.800	ug/g
4 SAMPLE	S95T003314	0 W	@IC-01 BR-02	SOLID	N/A	1.954e+03	267.000	ug/g
4 SAMPLE	S95T003314	0 W	@IC-01 NO3-02	SOLID	N/A	4.039e+04	296.700	ug/g
4 SAMPLE	S95T003314	0 W	@IC-01 PO4-02	SOLID	N/A	4.087e+03	252.200	ug/g
4 SAMPLE	S95T003314	0 W	@IC-01 SO4-02	SOLID	N/A	1.110e+03	288.200	ug/g
4 SAMPLE	S95T003314	0 W	@IC-01 OXALATE2	SOLID	N/A	2.139e+03	222.500	ug/g
5 DUP	S95T003314	0 W	@IC-01 F-02	SOLID	5.55e+03	5.48e+03	1.270	RPD
5 DUP	S95T003314	0 W	@IC-01 CL-02	SOLID	5.80e+02	5.91e+02	1.880	RPD
5 DUP	S95T003314	0 W	@IC-01 NO2-02	SOLID	1.15e+03	1.15e+03	0.000	RPD
5 DUP	S95T003314	0 W	@IC-01 BR-02	SOLID	1.95e+03	1.89e+03	3.130	RPD
5 DUP	S95T003314	0 W	@IC-01 NO3-02	SOLID	4.04e+04	4.01e+04	0.750	RPD
5 DUP	S95T003314	0 W	@IC-01 PO4-02	SOLID	4.09e+03	3.95e+03	3.480	RPD
5 DUP	S95T003314	0 W	@IC-01 SO4-02	SOLID	1.11e+03	1.22e+03	9.440	RPD
5 DUP	S95T003314	0 W	@IC-01 OXALATE2	SOLID	2.14e+03	1.93e+03	10.320	RPD
6 SPK	S95T003314	0 W	@IC-01 F-02	SOLID	59	57.505	97.470 % Recovery	

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4185

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003314	0	W	@IC-01	CL-02	SOLID	79	68.745	87.020 % Recovery
6 SPK	S95T003314	0	W	@IC-01	NO2-02	SOLID	536	478.200	89.220 % Recovery
6 SPK	S95T003314	0	W	@IC-01	BR-02	SOLID	575	513.200	89.250 % Recovery
6 SPK	S95T003314	0	W	@IC-01	NO3-02	SOLID	614	653.760	106.480 % Recovery
6 SPK	S95T003314	0	W	@IC-01	PO4-02	SOLID	546	507.495	92.950 % Recovery
6 SPK	S95T003314	0	W	@IC-01	SO4-02	SOLID	631	565.000	89.540 % Recovery
6 SPK	S95T003314	0	W	@IC-01	OXALATE2	SOLID	525	489.010	93.140 % Recovery
7 SAMPLE	S95T003315	0	W	@IC-01	F-02	SOLID	N/A	5.826e+03	27.570 ug/g
7 SAMPLE	S95T003315	0	W	@IC-01	CL-02	SOLID	N/A	6.608e+02	36.080 ug/g
7 SAMPLE	S95T003315	0	W	@IC-01	NO2-02	SOLID	N/A	1.076e+03	227.000 ug/g
7 SAMPLE	S95T003315	0	W	@IC-01	BR-02	SOLID	N/A	1.633e+03	267.300 ug/g
7 SAMPLE	S95T003315	0	W	@IC-01	NO3-02	SOLID	N/A	4.247e+04	297.000 ug/g
7 SAMPLE	S95T003315	0	W	@IC-01	PO4-02	SOLID	N/A	4.212e+03	252.500 ug/g
7 SAMPLE	S95T003315	0	W	@IC-01	SO4-02	SOLID	N/A	1.135e+03	288.500 ug/g
7 SAMPLE	S95T003315	0	W	@IC-01	OXALATE2	SOLID	N/A	2.171e+03	222.800 ug/g
8 DUP	S95T003315	0	W	@IC-01	F-02	SOLID	5.83e+03	5.86e+03	0.510 RPD
8 DUP	S95T003315	0	W	@IC-01	CL-02	SOLID	6.61e+02	6.05e+02	8.850 RPD
8 DUP	S95T003315	0	W	@IC-01	NO2-02	SOLID	1.08e+03	1.07e+03	0.930 RPD
8 DUP	S95T003315	0	W	@IC-01	BR-02	SOLID	1.63e+03	1.58e+03	3.120 RPD
8 DUP	S95T003315	0	W	@IC-01	NO3-02	SOLID	4.25e+04	4.30e+04	1.170 RPD
8 DUP	S95T003315	0	W	@IC-01	PO4-02	SOLID	4.21e+03	4.36e+03	3.500 RPD
8 DUP	S95T003315	0	W	@IC-01	SO4-02	SOLID	1.14e+03	1.04e+03	9.170 RPD
8 DUP	S95T003315	0	W	@IC-01	OXALATE2	SOLID	2.17e+03	2.04e+03	6.180 RPD

Final page for worklist# 4185

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				11-Jan-96	
Worklist#: 4185				Data File: 4185JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	96010971.d01	INSTR BLANK		1.00
	=>	2	CCV		2	96010971.d04	CCV 122N9C		101.00
	=>	3	BLNK-PREP		3	96010971.d05	PREP BLANK		1.00
	=>	4	SAMPLE			96010971.d06	3314 SAMPLE		11.00
	=>	5	DUP		4	96010971.d07	3314 SAMPLE		21.00
	=>	6	SPK		5	96010971.d08	3314 DUPLICATE		21.00
	=>	7	SAMPLE		6	96010971.d09	3314 SPIKE		21.00
	=>	8	DUP		7	96010971.d10	3315 SAMPLE		21.00
					8	96010971.d11	3315 DUPLICATE		21.00
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

LABCORE Data Entry Template for Worklist# 4185

Analyst: RL McCown Instrument: IC01 IC03 Book# 12219C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003314	0 W	@IC-01	SOLID	95000161	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003314	0 W	@IC-01	SOLID		
6 SPK	S95T003314	0 W	@IC-01	SOLID		
7 SAMPLE	S95T003315	0 W	@IC-01	SOLID	95000161	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003315	0 W	@IC-01	SOLID		

Final page for worklist # 4185

RL McCown 1/9/96
Analyst Signature Date

Analyst Signature Date

*copied
uploaded & posted 1/11/96 James M. Faye
printed*

Data Entry Comments:

Sample Name: CCV 122N9C Date: 01/09/1996 14:43:24
 Data File : C:\DX\DATA\96010971.D04
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 4 Detector: CDM-2
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

 External 1 101 3000 5Hz 0.00 10.00 100000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	41621	144096	1	
2	1.06	FLUORIDE	57.652	1387053	7750542	1	-0.93
3	1.56	CHLORIDE	71.902	1126047	6623662	1	-0.64
4	1.86	NITRITE	519.237	5501832	34173198	1	-0.53
5	2.76	BROMIDE	546.462	3396451	24523264	2	-0.36
6	3.14	NITRATE	575.083	4082707	33356692	2	-0.95
7	4.60	PHOSPHATE	499.354	1186738	14192848	1	0.00
8	6.18	SULFATE	593.727	3235728	44392138	1	1.81
9	8.10	OXALATE	485.525	1515039	27364640	1	1.25
Totals			3348.942	21473217	192521080		

100mL - 10mL *BT McCown* 1/9/96

File: 96010971.D04 Sample: CCV 122N9C

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 558 TO 568.

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=====
Sample Name: 3314 SPIKE                               Date: 01/09/1996 15:53:52
Data File  : C:\DX\DATA\96010971.D09
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 9
Analyst    :                                           Detector: CDM-2
Column:
=====

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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  3000  5Hz  0.00 10.00      100000
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	53983	160760	1	
2	1.06	FLUORIDE	66.484	8600521	49114608	1	-0.93
3	1.56	CHLORIDE	19.464	1400102	8759978	1	-0.64
4	1.86	NITRITE	107.456	5387313	33998902	1	-0.53
5	2.76	BROMIDE	122.042	3646290	26536338	2	-0.36
6	3.10	NITRATE	530.978	19090200	166402023	2	-2.21
7	4.62	PHOSPHATE	141.670	1690811	19887780	1	0.43
8	6.20	SULFATE	124.105	3158630	44651030	1	2.14
9	8.14	OXALATE	119.076	1761238	32669946	1	1.75

```

-----
Totals 1231.275 44789088 382181365
.500ML < 100ML STD # 122096 As SPIKE
9.9ML ELUENT
File: 96010971.D09 Sample: 3314 SPIKE

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=====

Sample Name:	INSTR BLANK	Date:	01/10/1996 07:18:16
Data File :	C:\DX\DATA\96010971.d01		
Method :	C:\DX\METHOD\ANIONS.MET		WMS SD-VW-DP-160, REV. 1
ACI Address: 1	System: 2	Inject#: 1	
Analyst :	Column:	Detector:	CDM-2

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		100000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	14739	149480	1	
2	1.58	CHLORIDE	0.047	7591	115384	1	0.64
Totals			0.047	22331	264864		

File: 96010971.d01 Sample: INSTR BLANK

Data Reprocessed On 01/10/1996 16:14:58

```
=====
Sample Name: CCV 122N9C                      Date: 01/09/1996 14:43:24
Data File  : C:\DX\DATA\96010971.d04
Method     : C:\DX\METHOD\ANIONS.MET      WHO-SDMM-DP-16C, REV. /
ACI Address: 1 System: 2 Inject#: 4
Analyst    :                               Detector: CDM-2
Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1         101   3000  5Hz   0.00 10.00   100000
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	41621	144096	1	
2	1.06	FLUORIDE	57.652	1387053	7750542	1	-0.93
3	1.56	CHLORIDE	71.902	1126047	6623662	1	-0.64
4	1.86	NITRITE	519.237	5501832	34173198	1	-0.53
5	2.76	BROMIDE	546.462	3396451	24523264	2	-0.36
6	3.14	NITRATE	575.083	4082707	33356692	2	-0.95
7	4.60	PHOSPHATE	499.354	1186738	14192848	1	0.00
8	6.18	SULFATE	593.727	3235728	44392138	1	1.81
9	8.10	OXALATE	485.525	1515039	27364640	1	1.25
Totals			3348.942	21473217	192521080		

File: 96010971.d04 Sample: CCV 122N9C

Data Reprocessed On 01/10/1996 16:15:00

```
=====
Sample Name: PREP BLANK                      Date: 01/09/1996 15:02:23
Data File  : C:\DX\DATA\96010971.d05        WHO-CD-VSM-DP-160, REV. I
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 5          Detector: CDM-2
Analyst    :                               Column:
=====
```

```
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 3000 5Hz 0.00 10.00 100000
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.28		0.000	57224	472094	1	
2	2.60		0.000	13498	191252	1	
3	3.18	NITRATE	0.453	32894	232516	1	0.32
4	7.82	OXALATE	0.400	19184	467968	1	-2.25
Totals			0.853	122799	1363830		

File: 96010971.d05 Sample: PREP BLANK

Data Reprocessed On 01/10/1996 16:15:02

```

=====
Sample Name: 3314 SAMPLE                      Date: 01/09/1996 15:13:29
Data File  : C:\DX\DATA\96010971.d06          VMS-CD-MM-DP-100, REV. 1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 6
Analyst    :                               Detector: CDM-2
Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11  3000  5Hz  0.00 10.00      100000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	41885	144534	1	
2	1.06	FLUORIDE	52.267	14608729	79161360	1	-0.93
3	1.56	CHLORIDE	5.493	798904	4526940	1	-0.64
4	1.86	NITRITE	7.047	279530	1656322	1	-0.53
5	2.76	BROMIDE	14.725	695421	4358780	1	-0.36
6	3.04	NITRATE	406.896	26682478	254662224	1	-4.10
7	4.60	PHOSPHATE	38.148	788745	9575254	1	0.00
8	6.20	SULFATE	6.864	112052	1532074	1	2.14
9	7.06		0.000	23010	374874	1	
10	8.12	OXALATE	18.174	414906	8077276	1	1.50
Totals			549.614	44445659	364069638		

File: 96010971.d06 Sample: 3314 SAMPLE

Data Reprocessed On 01/10/1996 16:15:04

```

=====
Sample Name: 3314 SAMPLE                      Date: 01/09/1996 15:30:58
Data File  : C:\DX\DATA\96010971.d07
Method     : C:\DX\METHOD\ANIONS.MET        WFO-SD-WM-DP-160, REV. I
ACI Address: 1 System: 2 Inject#: 7
Analyst    :                               Detector: CDM-2
Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21  3000  5Hz   0.00 10.00   100000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	54.999	7146709	39730492	1	-0.93
2	1.58	CHLORIDE	5.751	413952	2318140	1	0.64
3	1.88	NITRITE	11.360	154957	939908	1	0.53
4	2.78	BROMIDE	19.360	356162	2322860	1	0.36
5	3.10	NITRATE	400.248	14556626	122366716	1	-2.21
6	4.62	PHOSPHATE	40.501	401834	4803260	1	0.43
7	6.22	SULFATE	11.000	49639	727320	1	2.47
8	8.20	OXALATE	21.198	212499	4167948	1	2.50
Totals			564.417	23292379	177376644		

File: 96010971.d07 Sample: 3314 SAMPLE

Data Reprocessed On 01/10/1996 16:15:06

Sample Name: 3314 DUPLICATE Date: 01/09/1996 15:43:00
Data File : C:\DX\DATA\96010971.d08 WNG-SD-WM-DP-160, REV. 1
Method : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 8 Detector: CDM-2
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	54.212	6496511	39101925	2	-2.80
2	1.54	CHLORIDE	5.851	372763	2364766	2	-1.91
3	1.84	NITRITE	11.343	153933	934048	2	-1.60
4	2.74	BROMIDE	18.700	345198	2169582	1	-1.08
5	3.06	NITRATE	397.248	14564337	121376906	1	-3.47
6	4.56	PHOSPHATE	39.069	394446	4592878	1	-0.87
7	6.14	SULFATE	12.089	66193	1144080	1	1.15
8	8.06	OXALATE	19.110	202609	3563788	1	0.75
9	9.08		0.000	15511	516168	1	
Totals			557.622	22611501	175764141		

File: 96010971.d08 Sample: 3314 DUPLICATE

```

=====
Sample Name: 3314 SPIKE                      Date: 01/09/1996 15:53:52
Data File  : C:\DX\DATA\96010971.d09        96010971.D09, REV.1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 9          Detector: CDM-2
Analyst    :                               Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00    100000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.92		0.000	53983	160760	1	
2	1.06	FLUORIDE	66.484	8600521	49114608	1	-0.93
3	1.56	CHLORIDE	19.464	1400102	8759978	1	-0.64
4	1.86	NITRITE	107.456	5387313	33998902	1	-0.53
5	2.76	BROMIDE	122.042	3646290	26536338	2	-0.36
6	3.10	NITRATE	530.978	19090200	166402023	2	-2.21
7	4.62	PHOSPHATE	141.670	1690811	19887780	1	0.43
8	6.20	SULFATE	124.105	3158630	44651030	1	2.14
9	8.14	OXALATE	119.076	1761238	32669946	1	1.75
Totals			1231.275	44789088	382181365		

File: 96010971.d09 Sample: 3314 SPIKE

Data Reprocessed On 01/10/1996 16:15:09

```
=====
Sample Name: 3315 SAMPLE                      Date: 01/09/1996 16:07:57
Data File  : C:\DX\DATA\96010971.d10          WHO-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 10           Detector: CDM-2
Analyst    :                               Column:
=====
```

```
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00   100000
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	57.669	7583882	41874861	2	-0.93
2	1.56	CHLORIDE	6.541	457823	2685528	2	-0.64
3	1.86	NITRITE	10.648	114512	696380	1	-0.53
4	2.78	BROMIDE	16.164	246600	1580570	1	0.36
5	3.10	NITRATE	420.362	14711222	129025646	1	-2.21
6	4.64	PHOSPHATE	41.676	428126	4975826	1	0.87
7	6.22	SULFATE	11.236	59427	817640	1	2.47
8	8.18	OXALATE	21.491	232890	4252812	1	2.25
Totals			585.787	23834482	185909262		

File: 96010971.d10 Sample: 3315 SAMPLE

Data Reprocessed On 01/10/1996 16:15:11

```
=====
Sample Name: 3315 DUPLICATE                      Date: 01/09/1996 16:20:37
Data File  : C:\DX\DATA\96010971.d11             VMS-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 11              Detector: CDM-2
Analyst    :                                     Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00    100000
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	59.854	7091811	43645788	1	-2.80
2	1.56	CHLORIDE	6.181	448160	2518066	1	-0.64
3	1.86	NITRITE	10.900	130766	782382	1	-0.53
4	2.76	BROMIDE	16.182	255668	1584734	2	-0.36
5	3.08	NITRATE	439.637	15891079	135445261	2	-2.84
6	4.60	PHOSPHATE	44.523	447375	5394462	1	0.00
7	6.16	SULFATE	10.675	45089	603050	1	1.48
8	8.12	OXALATE	20.803	231400	4053548	1	1.50
Totals			608.753	24541347	194027291		

File: 96010971.d11 Sample: 3315 DUPLICATE

LABCORE Completed Worklist Report for Worklist# 4186

Analyst: srm

Instrument: IC03

Book# 123456

Method: 14-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	4.62e-01	0.460	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	59	5.86e+01	99.320	% Recovery
2 CCV		0	@IC-QC CL	QC	79	8.05e+01	101.900	% Recovery
2 CCV		0	@IC-QC NO2	QC	536	5.26e+02	98.130	% Recovery
2 CCV		0	@IC-QC BR	QC	575	5.55e+02	96.520	% Recovery
2 CCV		0	@IC-QC NO3	QC	614	5.98e+02	97.390	% Recovery
2 CCV		0	@IC-QC PO4	QC	546	5.37e+02	98.350	% Recovery
2 CCV		0	@IC-QC SO4	QC	631	6.14e+02	97.310	% Recovery
2 CCV		0	@IC-QC OXALATE2	QC	525	5.17e+02	98.480	% 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	4.95e-01	0.500	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	S95T003316	0 W	@IC-01 F-02	SOLID	N/A	6.371e+03	28.160	ug/g
4 SAMPLE	S95T003316	0 W	@IC-01 CL-02	SOLID	N/A	5.879e+02	36.810	ug/g
4 SAMPLE	S95T003316	0 W	@IC-01 NO2-02	SOLID	N/A	1.081e+03	231.700	ug/g
4 SAMPLE	S95T003316	0 W	@IC-01 BR-02	SOLID	N/A	2.083e+03	272.900	ug/g
4 SAMPLE	S95T003316	0 W	@IC-01 NO3-02	SOLID	N/A	4.703e+04	303.200	ug/g
4 SAMPLE	S95T003316	0 W	@IC-01 PO4-02	SOLID	N/A	4.501e+03	257.700	ug/g
4 SAMPLE	S95T003316	0 W	@IC-01 SO4-02	SOLID	N/A	1.196e+03	294.500	ug/g
4 SAMPLE	S95T003316	0 W	@IC-01 OXALATE2	SOLID	N/A	2.448e+03	227.400	ug/g
5 DUP	S95T003316	0 W	@IC-01 F-02	SOLID	6.37e+03	6.08e+03	4.660	RPD
5 DUP	S95T003316	0 W	@IC-01 CL-02	SOLID	5.88e+02	5.72e+02	2.760	RPD
5 DUP	S95T003316	0 W	@IC-01 NO2-02	SOLID	1.08e+03	1.07e+03	0.930	RPD
5 DUP	S95T003316	0 W	@IC-01 BR-02	SOLID	2.08e+03	2.15e+03	3.310	RPD
5 DUP	S95T003316	0 W	@IC-01 NO3-02	SOLID	4.70e+04	4.55e+04	3.240	RPD
5 DUP	S95T003316	0 W	@IC-01 PO4-02	SOLID	4.50e+03	4.59e+03	1.980	RPD
5 DUP	S95T003316	0 W	@IC-01 SO4-02	SOLID	1.20e+03	1.16e+03	3.390	RPD
5 DUP	S95T003316	0 W	@IC-01 OXALATE2	SOLID	2.45e+03	2.18e+03	11.660	RPD
6 SPK	S95T003316	0 W	@IC-01 F-02	SOLID	59	42.655	72.300	% Recovery

565

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4186

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003316	0 W	@IC-01	CL-02	SOLID	79	81.000	102.530 % Recovery
6 SPK	S95T003316	0 W	@IC-01	NO2-02	SOLID	536	507.610	94.700 % Recovery
6 SPK	S95T003316	0 W	@IC-01	BR-02	SOLID	575	549.040	95.490 % Recovery
6 SPK	S95T003316	0 W	@IC-01	NO3-02	SOLID	614	589.880	96.070 % Recovery
6 SPK	S95T003316	0 W	@IC-01	PO4-02	SOLID	546	561.780	102.890 % Recovery
6 SPK	S95T003316	0 W	@IC-01	SO4-02	SOLID	631	601.995	95.400 % Recovery
6 SPK	S95T003316	0 W	@IC-01	OXALATE2	SOLID	525	521.300	99.300 % Recovery
7 SAMPLE	S95T003317	0 W	@IC-01	F-02	SOLID	N/A	6.561e+03	29.740 ug/g
7 SAMPLE	S95T003317	0 W	@IC-01	CL-02	SOLID	N/A	7.284e+02	38.870 ug/g
7 SAMPLE	S95T003317	0 W	@IC-01	NO2-02	SOLID	N/A	1.163e+03	244.700 ug/g
7 SAMPLE	S95T003317	0 W	@IC-01	BR-02	SOLID	N/A	1.584e+03	288.100 ug/g
7 SAMPLE	S95T003317	0 W	@IC-01	NO3-02	SOLID	N/A	4.847e+04	320.100 ug/g
7 SAMPLE	S95T003317	0 W	@IC-01	PO4-02	SOLID	N/A	4.747e+03	272.100 ug/g
7 SAMPLE	S95T003317	0 W	@IC-01	SO4-02	SOLID	N/A	1.125e+03	311.000 ug/g
7 SAMPLE	S95T003317	0 W	@IC-01	OXALATE2	SOLID	N/A	2.448e+03	240.100 ug/g
8 DUP	S95T003317	0 W	@IC-01	F-02	SOLID	6.56e+03	6.57e+03	0.150 RPD
8 DUP	S95T003317	0 W	@IC-01	CL-02	SOLID	7.28e+02	6.06e+02	18.290 RPD
8 DUP	S95T003317	0 W	@IC-01	NO2-02	SOLID	1.16e+03	1.03e+03	11.870 RPD
8 DUP	S95T003317	0 W	@IC-01	BR-02	SOLID	1.58e+03	1.51e+03	4.530 RPD
8 DUP	S95T003317	0 W	@IC-01	NO3-02	SOLID	4.85e+04	4.77e+04	1.660 RPD
8 DUP	S95T003317	0 W	@IC-01	PO4-02	SOLID	4.75e+03	4.55e+03	4.300 RPD
8 DUP	S95T003317	0 W	@IC-01	SO4-02	SOLID	1.12e+03	1.10e+03	1.800 RPD
8 DUP	S95T003317	0 W	@IC-01	OXALATE2	SOLID	2.45e+03	2.36e+03	3.740 RPD

Final page for worklist# 4186

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date 1/25/96

LABCORE Data Entry Template for Worklist# 4186

Analyst: SNOWIA Instrument: IC01 IC03 Book# 122N9C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003316 0 W	@IC-01	SOLID		95000161	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003316 0 W	@IC-01	SOLID			
6 SPK	S95T003316 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003317 0 W	@IC-01	SOLID		95000161	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003317 0 W	@IC-01	SOLID			

Final page for worklist # 4186

SNOWIA 01-12-96
Analyst Signature Date

Analyst Signature Date

Inte Shell 11/16/96 J. Smith

Uploaded & posted 11/25/96 J. Smith

Data Entry Comments:

A-0010-IC

DATA FILE/WORKLIST RESOLUTION

25-Jan-96

Worklist#: 4186

Data File: 4186JAN.CSV

WHC-SD-WM-DP-160, REV. I

Seq Type	Sample #	Seq#	Data File	Sample Name	Dilution
- => 1 CCB		- 1	96011281.d02	BLANK	1.00
=> 2 CCV		2	96011281.d03	122N9C/CCV	101.00
=> 3 BLNK-PREP		3	96011281.d04	PREP BLK	1.00
=> 4 SAMPLE	S95T003316	4	96011281.d06	S95T003316	21.00
=> 5 DUP	S95T003316	5	96011281.d07	S95T003316 DUP	21.00
=> 6 SPK	S95T003316	6	96011281.d08	S95T003316 SPK	21.00
=> 7 SAMPLE	S95T003317	7	96011281.d09	S95T003317	21.00
8 DUP	S95T003317	8	96011281.d10	S95T003317 DUP	21.00

+ +

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

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=====
Sample Name: BLANK CCB                               Date: 01/12/1996 09:05:57
Data File  : C:\DX\DATA\96011281.D02                   WHC-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 2                     Detector: CDM-2
Analyst    : SMorio Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1    3000  5Hz   0.00 10.00   100000
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.36		0.000	52052	288980	1	
2	3.14	NITRATE	0.462	39540	288216	1	-0.95
Totals			0.462	91592	577196		

File: 96011281.D02 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 573 TO 580.

Sample Name: 122N9C/CCV

Date: 01/12/1996 09:19:45

Data File : C:\DX\DATA\96011281.D03

Method : C:\DX\METHOD\ANIONS.MET

WHC-SD-WM-DP-160, REV. 1

ACI Address: 1 System: 2 Inject#: 3

Detector: CDM-2

Analyst : *SM* Column:

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	100000	

=====

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	42826	153720	1	
2	1.04	FLUORIDE	58.563	99.2% 1356347	7882358	1	-2.80
3	1.36		0.000	10.0% 45290	282379	2	
4	1.54	CHLORIDE	80.463	10.8% 1280958	7464113	2	-1.91
5	1.84	NITRITE	525.606	98.4 5763487	34631251	2	-1.60
6	2.72	BROMIDE	554.965	96.5 3513741	24945511	2	-1.81
7	3.10	NITRATE	598.269	97.4 4295496	34828775	2	-2.21
8	4.52	PHOSPHATE	537.025	98.3 1321615	15366276	1	-1.74
9	6.04	SULFATE	614.200	97.3 3347506	46071474	1	-0.49
10	7.92	OXALATE	516.640	98.2 1644394	29256802	1	-1.00
Totals			3485.731	22611660	200882659		

File: 96011281.D03 Sample: 122N9C/CCV

```

=====
Sample Name: PREP BLK                               Date: 01/12/1996 09:40:24
Data File  : C:\DX\DATA\96011281.D04
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 4
Analyst    : SM Column:
WHC-SD-WM-DP-160, REV. |
Detector: CDM-2
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1    3000  5Hz   0.00 10.00   100000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.26		0.000	63143	500434	1	
3	3.14	NITRATE	0.495	66085	497350	1	-0.95
Totals			0.495	129228	997784		

File: 96011281.D04 Sample: PREP BLK

```

=====
Sample Name: S95T00316                               Date: 01/12/1996 11:32:36
Data File  : C:\DX\DATA\96011281.D06
Method     : C:\DX\METHOD\ANIONS.MET                WHC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 2 Inject#: 6                  Detector: CDM-2
Analyst    :                                           Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00    100000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	61.769	7416534	45211248	1	-2.80
2	1.54	CHLORIDE	5.700	406522	2294614	1	-1.91
3	1.84	NITRITE	10.478	111162	637964	1	-1.60
4	2.74	BROMIDE	20.192	404148	2516288	2	-1.08
5	3.04	NITRATE	456.024	15903345	140933496	2	-4.10
6	4.54	PHOSPHATE	43.644	456199	5265228	1	-1.30
7	6.08	SULFATE	11.601	58099	957208	1	0.16
8	7.98	OXALATE	23.740	260181	4903634	1	-0.25
9	9.50		0.000	17110	282990	1	
Totals			633.148	25033300	203002670		

SM 1-12-96
 File: 96011281.D06 Sample: ~~S95T00316~~ S95T003316

Sample Name: S95T003316 DUP
 Data File : C:\DX\DATA\96011281.D07
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 7
 Analyst : *SMoris* Column:

Date: 01/12/1996 11:54:56
 WHC-SD-WM-DP-160, REV. I
 Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	58.396	7541272	42462058	1	-0.93
2	1.56	CHLORIDE	5.481	439899	2193036	1	-0.64
3	1.84	NITRITE	10.322	99156	584550	1	-1.60
4	2.74	BROMIDE	20.618	389201	2615250	2	-1.08
5	3.06	NITRATE	437.166	16115465	134620141	2	-3.47
6	4.54	PHOSPHATE	44.082	424299	5329601	2	-1.30
7	6.06	SULFATE	11.127	59190	776042	1	-0.16
8	7.96	OXALATE	20.899	227929	4081510	1	-0.50
Totals			608.090	25296411	192662188		

File: 96011281.D07 Sample: S95T003316 DUP

```

=====
Sample Name: S95T003316 SPK                               Date: 01/12/1996 12:06:53
Data File  : C:\DX\DATA\96011281.D08
Method     : C:\DX\METHOD\ANIONS.MET                     WHC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 2 Inject#: 8                         Detector: CDM-2
Analyst    : SMorris Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00    100000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	45343	122840	1	
2	1.04	FLUORIDE	70.254	9118749	52291366	1	-2.80
3	1.54	CHLORIDE	21.874	1710766	9906918	1	-1.91
4	1.84	NITRITE	111.878	6109364	35528304	1	-1.60
5	2.72	BROMIDE	129.740	4366031	28381057	2	-1.81
6	3.02	NITRATE	574.202	20405943	181374688	2	-4.73
7	4.52	PHOSPHATE	156.285	1836093	22104416	1	-1.74
8	6.06	SULFATE	132.181	3491578	47839532	1	-0.16
9	7.94	OXALATE	128.140	1945566	35327570	1	-0.75
Totals			1324.554	49029432	412876691		

File: 96011281.D08 Sample: S95T003316 SPK

```

=====
Sample Name: S95T003317                      Date: 01/12/1996 12:25:05
Data File  : C:\DX\DATA\96011281.D09
Method     : C:\DX\METHOD\ANIONS.MET        WHC-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 2 Inject#: 9           Detector: CDM-2
Analyst    : S. Manno                      Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00   100000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	60.254	7991900	43971822	2	-0.93
2	1.54	CHLORIDE	6.690	440343	2754758	2	-1.91
3	1.84	NITRITE	10.682	92968	707977	2	-1.60
4	2.72	BROMIDE	14.551	179330	1206146	1	-1.81
5	3.04	NITRATE	445.175	15892298	137297102	1	-4.10
6	4.52	PHOSPHATE	43.599	425074	5258568	1	-1.74
7	6.06	SULFATE	10.334	39998	472520	1	-0.16
8	7.96	OXALATE	22.469	240825	4535836	1	-0.50
Totals			613.754	25302737	196204730		

File: 96011281.D09 Sample: S95T003317

```

=====
Sample Name: S95T003317  DUP                               Date: 01/12/1996 12:40:52
Data File  : C:\DX\DATA\96011281.D10
Method     : C:\DX\METHOD\ANIONS.MET                     WHC-SD-WM-DP-160, REV. |
ACI Address: 1 System: 2 Inject#: 10                       Detector: CDM-2
Analyst    : Smoris Column:
=====

```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00    100000

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	63.527	8381070	46658026	1	-0.93
2	1.54	CHLORIDE	5.859	399809	2368330	1	-1.91
3	1.84	NITRITE	9.967	80925	463066	1	-1.60
4	2.72	BROMIDE	14.597	182822	1216850	1	-1.81
5	3.04	NITRATE	461.268	16538867	142695644	1	-4.10
6	4.54	PHOSPHATE	44.011	455265	5319154	1	-1.30
7	6.06	SULFATE	10.671	43592	601648	1	-0.16
8	7.94	OXALATE	22.850	260960	4646128	1	-0.75
Totals			632.750	26343311	203968846		

File: 96011281.D10 Sample: S95T003317 DUP

LABCORE Completed Worklist Report for Worklist# 4187

Analyst: eal

Instrument: IC01

Book# 122490

Method: 1A-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		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	2.17e-01	0.220	ug/mL
1 CCB		0	@IC-QC PO4	QC	1	<1.19e-1		ug/mL
1 CCB		0	@IC-QC SO4	QC	1	1.58e-01	0.160	ug/mL
1 CCB		0	@IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV		0	@IC-QC F	QC	59	6.30e+01	106.780	% Recovery
2 CCV		0	@IC-QC CL	QC	79	7.55e+01	95.570	% Recovery
2 CCV		0	@IC-QC NO2	QC	536	5.41e+02	100.930	% Recovery
2 CCV		0	@IC-QC BR	QC	575	5.93e+02	103.130	% Recovery
2 CCV		0	@IC-QC NO3	QC	614	6.35e+02	103.420	% Recovery
2 CCV		0	@IC-QC PO4	QC	546	5.66e+02	103.660	% Recovery
2 CCV		0	@IC-QC SO4	QC	631	6.53e+02	103.490	% Recovery
2 CCV		0	@IC-QC OXALATE2	QC	525	5.53e+02	105.330	% 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	1.64e-01	0.160	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	S95T003318	0 W	@IC-01 F-02	SOLID	N/A	5.724e+03	26.940	ug/g
4 SAMPLE	S95T003318	0 W	@IC-01 CL-02	SOLID	N/A	8.638e+02	35.240	ug/g
4 SAMPLE	S95T003318	0 W	@IC-01 NO2-02	SOLID	N/A	3.592e+02	221.800	ug/g
4 SAMPLE	S95T003318	0 W	@IC-01 BR-02	SOLID	N/A	2.940e+02	261.200	ug/g
4 SAMPLE	S95T003318	0 W	@IC-01 NO3-02	SOLID	N/A	4.468e+04	290.200	ug/g
4 SAMPLE	S95T003318	0 W	@IC-01 PO4-02	SOLID	N/A	2.941e+03	246.700	ug/g
4 SAMPLE	S95T003318	0 W	@IC-01 SO4-02	SOLID	N/A	5.116e+02	281.900	ug/g
4 SAMPLE	S95T003318	0 W	@IC-01 OXALATE2	SOLID	N/A	1.533e+03	217.600	ug/g
5 DUP	S95T003318	0 W	@IC-01 F-02	SOLID	5.72e+03	6.68e+03	15.480	RPD
5 DUP	S95T003318	0 W	@IC-01 CL-02	SOLID	8.64e+02	6.51e+02	28.120	RPD
5 DUP	S95T003318	0 W	@IC-01 NO2-02	SOLID	3.59e+02	3.97e+02	10.050	RPD
5 DUP	S95T003318	0 W	@IC-01 BR-02	SOLID	2.94e+02	3.15e+02	6.900	RPD
5 DUP	S95T003318	0 W	@IC-01 NO3-02	SOLID	4.47e+04	5.24e+04	15.860	RPD
5 DUP	S95T003318	0 W	@IC-01 PO4-02	SOLID	2.94e+03	4.00e+03	30.550	RPD
5 DUP	S95T003318	0 W	@IC-01 SO4-02	SOLID	5.12e+02	4.84e+02	5.620	RPD
5 DUP	S95T003318	0 W	@IC-01 OXALATE2	SOLID	1.53e+03	1.84e+03	18.400	RPD
6 SPK	S95T003318	0 W	@IC-01 F-02	SOLID	59	68.045	115.330	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4187

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003318	0	W	@IC-01	CL-02	SOLID	79	55.245	69.930 % Recovery
6 SPK	S95T003318	0	W	@IC-01	NO2-02	SOLID	536	526.805	98.280 % Recovery
6 SPK	S95T003318	0	W	@IC-01	BR-02	SOLID	575	575.105	100.020 % Recovery
6 SPK	S95T003318	0	W	@IC-01	NO3-02	SOLID	614	641.750	104.520 % Recovery
6 SPK	S95T003318	0	W	@IC-01	PO4-02	SOLID	546	540.590	99.010 % Recovery
6 SPK	S95T003318	0	W	@IC-01	SO4-02	SOLID	631	624.085	98.900 % Recovery
6 SPK	S95T003318	0	W	@IC-01	OXALATE2	SOLID	525	547.360	104.260 % Recovery
7 SAMPLE	S95T003319	0	W	@IC-01	F-02	SOLID	N/A	6.963e+03	38.510 ug/g
7 SAMPLE	S95T003319	0	W	@IC-01	CL-02	SOLID	N/A	6.733e+02	50.380 ug/g
7 SAMPLE	S95T003319	0	W	@IC-01	NO2-02	SOLID	N/A	4.783e+02	317.100 ug/g
7 SAMPLE	S95T003319	0	W	@IC-01	BR-02	SOLID	N/A	5.677e+02	373.400 ug/g
7 SAMPLE	S95T003319	0	W	@IC-01	NO3-02	SOLID	N/A	5.241e+04	414.800 ug/g
7 SAMPLE	S95T003319	0	W	@IC-01	PO4-02	SOLID	N/A	4.128e+03	352.600 ug/g
7 SAMPLE	S95T003319	0	W	@IC-01	SO4-02	SOLID	N/A	5.998e+02	403.000 ug/g
7 SAMPLE	S95T003319	0	W	@IC-01	OXALATE2	SOLID	N/A	1.968e+03	311.100 ug/g
8 DUP	S95T003319	0	W	@IC-01	F-02	SOLID	6.96e+03	6.98e+03	0.290 RPD
8 DUP	S95T003319	0	W	@IC-01	CL-02	SOLID	6.73e+02	1.02e+03	40.990 RPD
8 DUP	S95T003319	0	W	@IC-01	NO2-02	SOLID	4.78e+02	4.66e+02	2.540 RPD
8 DUP	S95T003319	0	W	@IC-01	BR-02	SOLID	5.68e+02	5.64e+02	0.710 RPD
8 DUP	S95T003319	0	W	@IC-01	NO3-02	SOLID	5.24e+04	5.35e+04	2.080 RPD
8 DUP	S95T003319	0	W	@IC-01	PO4-02	SOLID	4.13e+03	4.09e+03	0.970 RPD
8 DUP	S95T003319	0	W	@IC-01	SO4-02	SOLID	6.00e+02	7.14e+02	17.350 RPD
8 DUP	S95T003319	0	W	@IC-01	OXALATE2	SOLID	1.97e+03	1.94e+03	1.530 RPD

Final page for worklist# 4187

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

LABCORE Data Entry Template for Worklist# 4187

Analyst: EAL Instrument: IC01 Book# 122N9-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003318 0 W	@IC-01	SOLID		95000161	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003318 0 W	@IC-01	SOLID			
6 SPK	S95T003318 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003319 0 W	@IC-01	SOLID		95000161	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003319 0 W	@IC-01	SOLID			

Final page for worklist # 4187

A. Lambert 01.11.96
Analyst Signature Date

Analyst Signature Date

*signed
printed*

dup/checked & posted 1/16/96 GJM/Luz

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				16-Jan-96	
Worklist#: 4187				Data File: 4187JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	96011111.d04	INST. BLANK		1.00
	=>	2	CCV		2	96011111.d05	122N9-C STD.		101.00
	=>	3	BLNK-PREP		3	96011111.d06	PREP. BLANK		1.00
	=>	4	SAMPLE		4	96011111.d07	S95T0033218		21.00
	=>	5	DUP		5	96011111.d08	S95T0033218	DUP	21.00
	=>	6	SPK		6	96011111.d09	S95T0033218	SPI	21.00
	=>	7	SAMPLE		7	96011111.d10	S95T0033219		21.00
	=>	8	DUP		8	96011111.d11	S95T0033219	DUP	21.00
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

< BEGINNING OF LOG FILE >

Instrument Posting Engaged by

Posting Date 16-jan-1996 10:28:16

FILE OPEN TO READ: (/tmp/F5JgJ1XAAQ)

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Tue Jan 16 10:28:21 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Tue Jan 16 10:28:21 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Tue Jan 16 10:28:22 19

FILE CLOSED: (/tmp/F5JgJ1XAAQ)

FILE POSTING: /tmp/F5JgJ1XAAQ (16-jan-1996 10:29:41)

Record (1) QC posted.

Record (2) QC posted.

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

```

=====
Sample Name: INST. BLANK                      Date: 01/11/1996 14:32:33
Data File  : C:\DX\DATA\96011111.D04
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 4           Detector: CDM-1
Analyst    : A. Lambert 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
1	0.95		0.000	42	315	1	
3	3.08	NITRATE	0.217	59	438	1	1.32
4	5.75	SULFATE	0.158	17	206	1	-5.48
Totals			0.375	118	959		

File: 96011111.D04 Sample: INST. BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 586 TO 597.

Data Reprocessed On 01/16/1996 10:10:35

```

=====
Sample Name: 122N9-C STD.                      Date: 01/11/1996 14:44:58
Data File  : C:\DX\DATA\96011111.D05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5              Detector: CDM-1
Analyst    :                               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
2	1.08	FLUORIDE	63.041	1310	8107	2	0.93
3	1.56	CHLORIDE	75.538	1087	6517	1	-1.89
4	1.85	NITRITE	541.249	5013	33116	1	-2.29
5	2.70	BROMIDE	593.372	3218	23419	1	0.00
6	3.06	NITRATE	634.515	3886	32408	1	0.66
7	4.41	PHOSPHATE	565.729	1148	14452	1	-4.89
8	5.75	SULFATE	653.295	3313	45336	1	-5.48
9	7.48	OXALATE	553.338	1631	28897	1	-6.50
Totals			3680.077	20605	192251		

File: 96011111.D05 Sample: 122N9-C STD.

```

=====
Sample Name: 122N9-C STD.                      Date: 01/11/1996 14:44:58
Data File  : C:\DX\DATA\96011111.D05           WHC-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5             Detector: CDM-1
Analyst    : A. Lambert 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 <i>Reported</i> <i>11/11/96</i> <i>ug/ml</i>	Height	Area	Bl. Code	%Delta
1	1.08	FLUORIDE	<i>63.01</i> 74.580	1380	9614	1	0.93
2	1.56	CHLORIDE	75.538	1087	6517	1	-1.89
3	1.85	NITRITE	541.249	5013	33116	1	-2.29
4	2.70	BROMIDE	593.372	3218	23419	1	0.00
5	3.06	NITRATE	634.515	3886	32408	1	0.66
6	4.41	PHOSPHATE	565.729	1148	14452	1	-4.89
7	5.75	SULFATE	653.295	3313	45336	1	-5.48
8	7.48	OXALATE	553.338	1631	28896	1	-6.50
Totals			3691.616	20675	193758		

File: 96011111.D05 Sample: 122N9-C STD.

~~XXXX~~ RMIS View/Print Document Cover Sheet ~~XXXX~~

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Accession #: D196043890

Document #: SD-WM-DP-160

Title/Desc:

FINAL REPORT FOR TANK 241B204 PUSH MODE CORES 112
& 114 [SEC 2 OF 3 PAGE 589 THRU 1187]

Pages: 601

This document was too large to scan as a whole document,
therefore it required breaking into smaller sections.

Document number: SD-WM-DP-160

Section 2 of 3

Title: Final Report for Jank 241BA04 Push mode Core
112 & 114

Project: Harma

Date: 03/01/96 Revision: R001

Originator: Asahi LM

Co: WNC

Recipient: _____

Co: _____

References: ECN-625385

Sample Name: PREP. BLANK Date: 01/11/1996 15:08:00
 Data File : C:\DX\DATA\96011111.D06
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 6
 Analyst : *A. Lambel* Column: Detector: CDM-1

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
1	1.31		0.000	144	1764	1	
2	3.07	NITRATE	0.164	26	164	1	1.10
Totals			0.164	170	1928		

File: 96011111.D06 Sample: PREP. BLANK

Data Reprocessed On 01/16/1996 09:57:23

Sample Name: INST. BLANK

Date: 01/11/1996 14:32:33

Data File : C:\DX\DATA\96011111.d04

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 4

Detector: CDM-1

Analyst : 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
1	0.95		0.000	42	315	1	
3	3.08	NITRATE	0.217	59	438	1	1.32
4	5.75	SULFATE	0.158	17	206	1	-5.48
Totals			0.375	118	959		

File: 96011111.d04 Sample: INST. BLANK

Data Reprocessed On 01/16/1996 09:57:25

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=====
Sample Name: 122N9-C STD.                      Date: 01/11/1996 14:44:58
Data File  : C:\DX\DATA\96011111.d05
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5              Detector: CDM-1
Analyst    :                               Column:
=====

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```

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	1.08	FLUORIDE	74.580	1380	9614	1	0.93
2	1.56	CHLORIDE	75.538	1087	6517	1	-1.89
3	1.85	NITRITE	541.249	5013	33116	1	-2.29
4	2.70	BROMIDE	593.372	3218	23419	1	0.00
5	3.06	NITRATE	634.515	3886	32408	1	0.66
6	4.41	PHOSPHATE	565.729	1148	14452	1	-4.89
7	5.75	SULFATE	653.295	3313	45336	1	-5.48
8	7.48	OXALATE	553.338	1631	28896	1	-6.50
Totals			3691.616	20675	193758		

File: 96011111.d05 Sample: 122N9-C STD.

Data Reprocessed On 01/16/1996 09:57:27

```
=====
Sample Name: PREP. BLANK                      Date: 01/11/1996 15:08:00
Data File  : C:\DX\DATA\96011111.d06          WHC-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6           Detector: CDM-1
Analyst    :                               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
1	1.31		0.000	144	1764	1	
2	3.07	NITRATE	0.164	26	164	1	1.10
Totals			0.164	170	1928		

File: 96011111.d06 Sample: PREP. BLANK

Data Reprocessed On 01/16/1996 09:57:29

Sample Name: S95T0033218	Date: 01/11/1996 15:20:02
Data File : C:\DX\DATA\96011111.d07	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 7	Detector: CDM-1
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.08	FLUORIDE	57.991	5955	37595	1	0.93
2	1.56	CHLORIDE	8.751	589	3622	1	-1.89
3	1.85	NITRITE	3.639	49	280	1	-2.29
4	2.71	BROMIDE	2.979	36	224	1	0.25
5	3.03	NITRATE	452.650	13138	116870	1	-0.44
6	4.43	PHOSPHATE	29.882	272	3478	1	-4.60
7	5.75	SULFATE	5.183	61	830	1	-5.48
8	7.51	OXALATE	15.528	208	3727	1	-6.17
Totals			576.602	20309	166627		

File: 96011111.d07 Sample: S95T0033218

Sample Name: S95T0033218 DUP Date: 01/11/1996 15:31:38
 Data File : C:\DX\DATA\96011111.d08
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
 Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

 External 1 21 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	1.07	FLUORIDE	63.821	6723	41649	1	-0.31
2	1.55	CHLORIDE	6.214	427	2571	1	-2.73
3	1.83	NITRITE	3.794	56	327	1	-3.35
4	2.68	BROMIDE	3.010	39	230	1	-0.74
5	3.00	NITRATE	500.582	14321	130038	1	-1.32
6	4.40	PHOSPHATE	38.162	369	4503	1	-5.17
7	5.72	SULFATE	4.621	49	641	1	-5.92
8	7.48	OXALATE	17.586	245	4245	1	-6.50
Totals			637.791	22229	184203		

File: 96011111.d08 Sample: S95T0033218 DUP

Data Reprocessed On 01/16/1996 09:57:33

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=====
Sample Name: S95T0033218 SPIKE           Date: 01/11/1996 15:43:08
Data File  : C:\DX\DATA\96011111.d09
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9
Analyst    :                          Column:
=====

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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  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	1.08	FLUORIDE	71.583	7411	47136	1	0.93
2	1.57	CHLORIDE	19.849	1388	8251	1	-1.47
3	1.85	NITRITE	108.672	4863	31943	1	-2.29
4	2.69	BROMIDE	118.122	3185	22391	1	-0.25
5	3.01	NITRATE	589.506	16911	154882	1	-1.10
6	4.41	PHOSPHATE	137.762	1382	17008	1	-4.89
7	5.75	SULFATE	130.449	3195	43473	1	-5.48
8	7.48	OXALATE	125.019	1778	31435	1	-6.50
Totals			1300.961	40113	356519		

File: 96011111.d09 Sample: S95T0033218 SPIKE

Data Reprocessed On 01/16/1996 09:57:35

Sample Name: S95T0033219

Date: 01/11/1996 15:59:53

Data File : C:\DX\DATA\96011111.d10

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 10

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.08	FLUORIDE	49.344	4954	31685	1	0.93
2	1.57	CHLORIDE	4.772	323	1975	1	-1.47
3	1.85	NITRITE	3.390	38	206	1	-2.29
4	2.70	BROMIDE	4.023	64	422	1	0.00
5	3.03	NITRATE	372.034	10807	95062	1	-0.44
6	4.43	PHOSPHATE	29.256	271	3401	1	-4.60
7	5.75	SULFATE	4.251	40	517	1	-5.48
8	7.51	OXALATE	13.950	187	3331	1	-6.17
Totals			481.020	16685	136598		

File: 96011111.d10 Sample: S95T0033219

Data Reprocessed On 01/16/1996 09:57:37

Sample Name: S95T0033219 DUP

Date: 01/11/1996 16:50:11

Data File : C:\DX\DATA\96011111.d11

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 11

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.04	FLUORIDE	49.936	5076	32086	1	-2.80
2	1.53	CHLORIDE	7.269	499	3008	1	-3.98
3	1.81	NITRITE	3.339	36	191	1	-4.06
4	2.67	BROMIDE	4.039	65	425	1	-1.23
5	2.99	NITRATE	382.936	10971	97987	1	-1.54
6	4.39	PHOSPHATE	29.294	274	3406	1	-5.46
7	5.72	SULFATE	5.110	59	805	1	-5.92
8	7.48	OXALATE	13.871	190	3311	1	-6.50
Totals			495.794	17170	141217		

File: 96011111.d11 Sample: S95T0033219 DUP

LABCORE Completed Worklist Report for Worklist# 4188

Analyst: eal

Instrument: IC01

Book# 122190

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	IC-QC	F	QC	1	<1.30e-2	ug/mL
1 CCB	0	0	IC-QC	CL	QC	1	<1.70e-2	ug/mL
1 CCB	0	0	IC-QC	NO2	QC	1	<1.07e-1	ug/mL
1 CCB	0	0	IC-QC	BR	QC	1	<1.26e-1	ug/mL
1 CCB	0	0	IC-QC	NO3	QC	1	<1.40e-1	ug/mL
1 CCB	0	0	IC-QC	PO4	QC	1	<1.19e-1	ug/mL
1 CCB	0	0	IC-QC	SO4	QC	1	<1.36e-1	ug/mL
1 CCB	0	0	IC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL
2 CCV	0	0	IC-QC	F	QC	59	6.30e+01	106.780 % Recovery
2 CCV	0	0	IC-QC	CL	QC	79	7.62e+01	96.460 % Recovery
2 CCV	0	0	IC-QC	NO2	QC	536	5.48e+02	102.240 % Recovery
2 CCV	0	0	IC-QC	BR	QC	575	5.96e+02	103.650 % Recovery
2 CCV	0	0	IC-QC	NO3	QC	614	6.45e+02	105.050 % Recovery
2 CCV	0	0	IC-QC	PO4	QC	546	5.79e+02	106.040 % Recovery
2 CCV	0	0	IC-QC	SO4	QC	631	6.55e+02	103.800 % Recovery
2 CCV	0	0	IC-QC	OXALATE2	QC	525	5.58e+02	106.290 % Recovery
3 BLNK-PREP	0	0	IC-01	F-02	SOLID	1	<1.30e-2	ug/g
3 BLNK-PREP	0	0	IC-01	CL-02	SOLID	1	<1.70e-2	ug/g
3 BLNK-PREP	0	0	IC-01	NO2-02	SOLID	1	<1.07e-1	ug/g
3 BLNK-PREP	0	0	IC-01	BR-02	SOLID	1	<1.26e-1	ug/g
3 BLNK-PREP	0	0	IC-01	NO3-02	SOLID	1	<1.40e-1	ug/g
3 BLNK-PREP	0	0	IC-01	PO4-02	SOLID	1	<1.19e-1	ug/g
3 BLNK-PREP	0	0	IC-01	SO4-02	SOLID	1	<1.36e-1	ug/g
3 BLNK-PREP	0	0	IC-01	OXALATE2	SOLID	1	<1.05e-1	ug/g
4 SAMPLE	S95T003322	0 W	IC-01	F-02	SOLID	N/A	6.672e+03	28.430 ug/g
4 SAMPLE	S95T003322	0 W	IC-01	CL-02	SOLID	N/A	6.168e+02	37.190 ug/g
4 SAMPLE	S95T003322	0 W	IC-01	NO2-02	SOLID	N/A	3.518e+02	234.100 ug/g
4 SAMPLE	S95T003322	0 W	IC-01	BR-02	SOLID	N/A	6.511e+02	275.600 ug/g
4 SAMPLE	S95T003322	0 W	IC-01	NO3-02	SOLID	N/A	5.190e+04	306.200 ug/g
4 SAMPLE	S95T003322	0 W	IC-01	PO4-02	SOLID	N/A	3.471e+03	260.300 ug/g
4 SAMPLE	S95T003322	0 W	IC-01	SO4-02	SOLID	N/A	4.496e+02	297.500 ug/g
4 SAMPLE	S95T003322	0 W	IC-01	OXALATE2	SOLID	N/A	1.878e+03	229.700 ug/g
5 DUP	S95T003322	0 W	IC-01	F-02	SOLID	6.67e+03	6.84e+03	2.520 RPD
5 DUP	S95T003322	0 W	IC-01	CL-02	SOLID	6.17e+02	6.54e+02	5.820 RPD
5 DUP	S95T003322	0 W	IC-01	NO2-02	SOLID	3.52e+02	3.68e+02	4.440 RPD
5 DUP	S95T003322	0 W	IC-01	BR-02	SOLID	6.51e+02	6.59e+02	1.220 RPD
5 DUP	S95T003322	0 W	IC-01	NO3-02	SOLID	5.19e+04	5.39e+04	3.780 RPD
5 DUP	S95T003322	0 W	IC-01	PO4-02	SOLID	3.47e+03	3.64e+03	4.780 RPD
5 DUP	S95T003322	0 W	IC-01	SO4-02	SOLID	4.50e+02	4.64e+02	3.060 RPD
5 DUP	S95T003322	0 W	IC-01	OXALATE2	SOLID	1.88e+03	1.89e+03	0.530 RPD
6 SPK	S95T003322	0 W	IC-01	F-02	SOLID	59	65.720	111.390 % Recovery

LABCORE Completed Worklist Report for Worklist# 4188

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003322	0	W	@IC-01	CL-02	SOLID	79	73.895	93.540 % Recovery
6 SPK	S95T003322	0	W	@IC-01	NO2-02	SOLID	536	538.115	100.390 % Recovery
6 SPK	S95T003322	0	W	@IC-01	BR-02	SOLID	575	568.745	98.910 % Recovery
6 SPK	S95T003322	0	W	@IC-01	NO3-02	SOLID	614	733.840	119.520 % Recovery
6 SPK	S95T003322	0	W	@IC-01	PO4-02	SOLID	546	578.415	105.940 % Recovery
6 SPK	S95T003322	0	W	@IC-01	SO4-02	SOLID	631	638.420	101.180 % Recovery
6 SPK	S95T003322	0	W	@IC-01	OXALATE2	SOLID	525	549.870	104.740 % Recovery
7 SAMPLE	S95T003323	0	W	@IC-01	F-02	SOLID	N/A	6.683e+03	30.830 ug/g
7 SAMPLE	S95T003323	0	W	@IC-01	CL-02	SOLID	N/A	5.862e+02	40.300 ug/g
7 SAMPLE	S95T003323	0	W	@IC-01	NO2-02	SOLID	N/A	3.913e+02	253.700 ug/g
7 SAMPLE	S95T003323	0	W	@IC-01	BR-02	SOLID	N/A	5.807e+02	298.700 ug/g
7 SAMPLE	S95T003323	0	W	@IC-01	NO3-02	SOLID	N/A	5.234e+04	331.900 ug/g
7 SAMPLE	S95T003323	0	W	@IC-01	PO4-02	SOLID	N/A	3.163e+03	282.200 ug/g
7 SAMPLE	S95T003323	0	W	@IC-01	SO4-02	SOLID	N/A	4.683e+02	322.500 ug/g
7 SAMPLE	S95T003323	0	W	@IC-01	OXALATE2	SOLID	N/A	1.791e+03	248.100 ug/g
8 DUP	S95T003323	0	W	@IC-01	F-02	SOLID	6.68e+03	6.49e+03	2.890 RPD
8 DUP	S95T003323	0	W	@IC-01	CL-02	SOLID	5.86e+02	6.13e+02	4.500 RPD
8 DUP	S95T003323	0	W	@IC-01	NO2-02	SOLID	3.91e+02	3.82e+02	2.330 RPD
8 DUP	S95T003323	0	W	@IC-01	BR-02	SOLID	5.81e+02	5.68e+02	2.260 RPD
8 DUP	S95T003323	0	W	@IC-01	NO3-02	SOLID	5.23e+04	5.09e+04	2.710 RPD
8 DUP	S95T003323	0	W	@IC-01	PO4-02	SOLID	3.16e+03	3.71e+03	16.010 RPD
8 DUP	S95T003323	0	W	@IC-01	SO4-02	SOLID	4.68e+02	4.81e+02	2.740 RPD
8 DUP	S95T003323	0	W	@IC-01	OXALATE2	SOLID	1.79e+03	1.76e+03	1.690 RPD

Final page for worklist# 4188

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James M. Lange
Reviewer Signature _____ Date 1/11/96

LABCORE Data Entry Template for Worklist# 4188

Analyst: EAL Instrument: IC01 Book# 122N9-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003322	0	W	@IC-01	SOLID	95000161	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S95T003322	0	W	@IC-01	SOLID		
6	SPK	S95T003322	0	W	@IC-01	SOLID		
7	SAMPLE	S95T003323	0	W	@IC-01	SOLID	95000161	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S95T003323	0	W	@IC-01	SOLID		

Final page for worklist # 4188

A. Lambel 01.11.96
Analyst Signature Date

Analyst Signature Date

copied
Uploaded & posted 1/11/96 James M. Foy
printed

Data Entry Comments:

Data Reprocessed On 01/11/1996 12:22:34

Sample Name: 122N9-C STD. Date: 01/11/1996 08:15:26
Data File : C:\DX\DATA\96011101.D03 WHO-SD-WM-DP-160, REV. I
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
Analyst : *M. J. L. L.* 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
2	1.07	FLUORIDE	62.988	1332	8100	2	-0.31
3	1.55	CHLORIDE	76.170	1080	6572	1	-2.73
4	1.83	NITRITE	547.739	5019	33526	1	-3.00
5	2.70	BROMIDE	595.807	3219	23518	1	0.00
6	3.06	NITRATE	645.109	3876	32968	1	0.66
7	4.39	PHOSPHATE	578.980	1164	14801	1	-5.46
8	5.72	SULFATE	655.093	3332	45465	1	-5.92
9	7.45	OXALATE	558.109	1618	29149	1	-6.83
Totals			3719.995	20639	194099		

File: 96011101.D03 Sample: 122N9-C STD.

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 601 TO 614.

Sample Name: 122N9-C STD.

Date: 01/11/1996 08:15:26

Data File : C:\DX\DATA\96011101.D03

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 3

Detector: CDM-1

Analyst : *A. Lambert* 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	1.07	FLUORIDE	71.775	1385	9247	1	-0.31
2	1.55	CHLORIDE	76.170	1080	6572	1	-2.73
3	1.83	NITRITE	547.739	5019	33526	1	-3.00
4	2.70	BROMIDE	595.807	3219	23518	1	0.00
5	3.06	NITRATE	645.109	3876	32968	1	0.66
6	4.39	PHOSPHATE	578.980	1164	14801	1	-5.46
7	5.72	SULFATE	655.093	3332	45465	1	-5.92
8	7.45	OXALATE	558.109	1618	29149	1	-6.83
Totals			3728.782	20692	195246		

File: 96011101.D03 Sample: 122N9-C STD.

BEST AVAILABLE COPY

```

=====
Sample Name: S95T003322 SPIKE                      Date: 01/11/1996 09:56:34
Data File  : C:\DX\DATA\96011101.D08
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8
Analyst    : A. Lambert Column:
Detector: CDM-1
=====
  
```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21    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	1.07	FLUORIDE	77.960	8273	51728	1	-0.31
2	1.55	CHLORIDE	20.744	1418	8626	1	-2.73
3	1.83	NITRITE	111.123	4833	32687	1	-3.00
4	2.67	BROMIDE	120.116	3264	22781	1	-0.99
5	2.99	NITRATE	645.180	18357	170727	1	-1.75
6	4.39	PHOSPHATE	148.939	1449	18432	1	-5.46
7	5.72	SULFATE	131.825	3173	43949	1	-5.92
8	7.45	OXALATE	128.033	1786	32203	1	-6.83
Totals			1383.919	42553	381133		

File: 96011101.D08 Sample: S95T003322 SPIKE

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				11-Jan-96			
Worklist#: 4188				Data File: 4188JAN.CSV							
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-			96011101.d01	INST. BLANK	1.00	
	=>	2	CCV			1		96011101.d02	INST. BLANK	1.00	
	=>	3	BLNK-PREP			2		96011101.d03	122N9-C STD.	101.00	
	=>	4	SAMPLE	S95T003322		3		96011101.d04	PREP BLANK	1.00	
	=>	5	DUP	S95T003322				96011101.d05	S95T003322	11.00	
	=>	6	SPK	S95T003322		4		96011101.d06	S95T003322	21.00	
	=>	7	SAMPLE	S95T003323		5		96011101.d07	S95T003322 DUP	21.00	
	=>	8	DUP	S95T003323		6		96011101.d08	S95T003322 SPIK	21.00	
						7		96011101.d09	S95T003323	21.00	
						8		96011101.d10	S95T003323 DUP	21.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Data Reprocessed On 01/11/1996 10:27:19

```
=====
Sample Name: INST. BLANK                      Date: 01/11/1996 07:31:09
Data File  : C:\DX\DATA\96011101.d01          WWC-SD-WM-DP-16C, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1           Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1      722 5Hz  0.00  2.40          100
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta

Totals			0.000	0	0		

File: 96011101.d01 Sample: INST. BLANK

Data Reprocessed On 01/11/1996 10:27:21

```
=====
Sample Name: INST. BLANK                      Date: 01/11/1996 07:44:44
Data File  : C:\DX\DATA\96011101.d02          WWC-SD-WM-DP-16C, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2           Detector: CDM-1
Analyst    :                               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		

File: 96011101.d02 Sample: INST. BLANK

Data Reprocessed On 01/11/1996 10:27:23

```

=====
Sample Name: 122N9-C STD.                      Date: 01/11/1996 08:15:26
Data File  : C:\DX\DATA\96011101.d03
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3              Detector: CDM-1
Analyst    :                               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	1.07	FLUORIDE	71.775	1385	9247	1	-0.31
2	1.55	CHLORIDE	76.170	1080	6572	1	-2.73
3	1.83	NITRITE	547.739	5019	33526	1	-3.00
4	2.70	BROMIDE	595.807	3219	23518	1	0.00
5	3.06	NITRATE	645.109	3876	32968	1	0.66
6	4.39	PHOSPHATE	578.980	1164	14801	1	-5.46
7	5.72	SULFATE	655.093	3332	45465	1	-5.92
8	7.45	OXALATE	558.109	1618	29149	1	-6.83
Totals			3728.782	20692	195246		

File: 96011101.d03 Sample: 122N9-C STD.

Data Reprocessed On 01/11/1996 10:27:26

```
=====
Sample Name: PREP BLANK                      Date: 01/11/1996 08:42:05
Data File  : C:\DX\DATA\96011101.d04
Method     : C:\DX\METHOD\KIT.MET          WMC-SD-WM-DP-160, REV. /
ACI Address: 1 System: 1 Inject#: 4         Detector: CDM-1
Analyst    :                               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
1	1.33		0.000	144	1770	1	
Totals			0.000	144	1770		

File: 96011101.d04 Sample: PREP BLANK

Data Reprocessed On 01/11/1996 10:27:28

Sample Name: S95T003322

Date: 01/11/1996 08:55:18

Data File : C:\DX\DATA\96011101.d05

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 5

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	62.865	13640	84164	1	-0.31
2	1.55	CHLORIDE	5.725	743	4526	1	-2.73
3	1.83	NITRITE	2.275	83	491	1	-3.00
4	2.69	BROMIDE	5.183	243	1536	1	-0.25
5	2.97	NITRATE	508.452	27542	268440	1	-2.19
6	4.39	PHOSPHATE	33.486	606	7706	1	-5.46
7	5.72	SULFATE	2.772	64	866	1	-5.92
8	7.48	OXALATE	17.480	463	8217	1	-6.50
Totals			638.238	43384	375947		

File: 96011101.d05 Sample: S95T003322

Data Reprocessed On 01/11/1996 10:27:31

Sample Name: S95T003322 Date: 01/11/1996 09:19:53
 Data File : C:\DX\DATA\96011101.d06
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	64.056	6675	41813	1	-0.31
2	1.55	CHLORIDE	5.921	407	2450	1	-2.73
3	1.83	NITRITE	3.377	39	202	1	-3.00
4	2.70	BROMIDE	6.251	125	844	1	0.00
5	3.02	NITRATE	498.232	14214	129389	1	-0.66
6	4.39	PHOSPHATE	33.317	309	3903	1	-5.46
7	5.72	SULFATE	4.316	38	539	1	-5.92
8	7.48	OXALATE	18.026	238	4355	1	-6.50
Totals			633.497	22047	183495		

File: 96011101.d06 Sample: S95T003322

Data Reprocessed On 01/11/1996 10:27:33

Sample Name: S95T003322 DUP Date: 01/11/1996 09:41:49
Data File : C:\DX\DATA\96011101.d07 WHO-CD-WM-DP-160, REV. /
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 21 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	1.08	FLUORIDE	64.550	6715	42159	1	0.93
2	1.57	CHLORIDE	6.172	415	2554	1	-1.47
3	1.85	NITRITE	3.474	40	231	1	-2.29
4	2.71	BROMIDE	6.203	123	835	1	0.25
5	3.03	NITRATE	508.784	14453	132306	1	-0.44
6	4.43	PHOSPHATE	34.317	321	4027	1	-4.60
7	5.77	SULFATE	4.363	42	555	1	-5.04
8	7.51	OXALATE	17.864	238	4314	1	-6.17
Totals			645.728	22348	186982		

File: 96011101.d07 Sample: S95T003322 DUP

Data Reprocessed On 01/11/1996 10:27:36

```
=====
Sample Name: S95T003322 SPIKE          Date: 01/11/1996 09:56:34
Data File  : C:\DX\DATA\96011101.d08   WMO-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8      Detector: CDM-1
Analyst    :                          Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	FLUORIDE	77.960	8273	51728	1	-0.31
2	1.55	CHLORIDE	20.744	1418	8626	1	-2.73
3	1.83	NITRITE	111.123	4833	32687	1	-3.00
4	2.67	BROMIDE	120.116	3264	22781	1	-0.99
5	2.99	NITRATE	645.180	18357	170727	1	-1.75
6	4.39	PHOSPHATE	148.939	1449	18432	1	-5.46
7	5.72	SULFATE	131.825	3173	43949	1	-5.92
8	7.45	OXALATE	128.033	1786	32203	1	-6.83
Totals			1383.919	42553	381133		

File: 96011101.d08 Sample: S95T003322 SPIKE

Data Reprocessed On 01/11/1996 10:27:38

Sample Name: S95T003323

Date: 01/11/1996 10:08:00

Data File : C:\DX\DATA\96011101.d09

WHO-SD-WM-DP-160, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 9

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	59.188	6168	38422	1	-0.31
2	1.55	CHLORIDE	5.192	359	2149	1	-2.73
3	1.83	NITRITE	3.466	38	229	1	-3.00
4	2.69	BROMIDE	5.142	94	634	1	-0.49
5	3.01	NITRATE	463.564	13216	119855	1	-1.10
6	4.40	PHOSPHATE	28.019	270	3248	1	-5.17
7	5.72	SULFATE	4.148	36	483	1	-5.92
8	7.51	OXALATE	15.867	223	3812	1	-6.17
Totals			584.586	20405	168832		

File: 96011101.d09 Sample: S95T003323

```

=====
Sample Name: S95T003323  DUP                      Date: 01/11/1996 10:20:04
Data File  : C:\DX\DATA\96011101.d10
Method     : C:\DX\METHOD\KIT.MET                WHO-SD-WM-DP-16C, REV.1
ACI Address: 1  System: 1  Inject#: 10
Analyst    :                      Column:
Detector: CDM-1
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.07	FLUORIDE	57.598	6058	37323	1	-0.31
2	1.55	CHLORIDE	5.443	364	2252	1	-2.73
3	1.83	NITRITE	3.394	37	207	1	-3.35
4	2.68	BROMIDE	5.043	94	615	1	-0.74
5	3.00	NITRATE	451.424	12998	116536	1	-1.32
6	4.40	PHOSPHATE	32.888	286	3850	1	-5.17
7	5.75	SULFATE	4.269	39	523	1	-5.48
8	7.51	OXALATE	15.586	216	3742	1	-6.17
Totals			575.644	20093	165048		

File: 96011101.d10 Sample: S95T003323 DUP

LABCORE Completed Worklist Report for Worklist# 4189

Analyst: vlm

Instrument: IC03

Book# 0229K

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC 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		ug/mL
1 CCB		0	IC-QC CL	QC	1	6.00e-02	6.000e-002	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	4.77e-01	0.480	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	59	6.28e+01	106.440	% Recovery
2 CCV		0	IC-QC CL	QC	79	8.11e+01	102.660	% Recovery
2 CCV		0	IC-QC NO2	QC	536	5.53e+02	103.170	% Recovery
2 CCV		0	IC-QC BR	QC	575	5.81e+02	101.040	% Recovery
2 CCV		0	IC-QC NO3	QC	614	6.34e+02	103.260	% Recovery
2 CCV		0	IC-QC PO4	QC	546	5.68e+02	104.030	% Recovery
2 CCV		0	IC-QC SO4	QC	631	6.49e+02	102.850	% Recovery
2 CCV		0	IC-QC OXALATE2	QC	525	5.67e+02	108.000	% 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	4.37e-01	0.440	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	3.47e-01	0.350	ug/g
4 SAMPLE	995T003101	0 W	IC-01 F-02	SOLID	N/A	6.109e+03	23.940	ug/g
4 SAMPLE	995T003101	0 W	IC-01 CL-02	SOLID	N/A	6.373e+02	31.310	ug/g
4 SAMPLE	995T003101	0 W	IC-01 NO2-02	SOLID	N/A	8.760e+02	197.100	ug/g
4 SAMPLE	995T003101	0 W	IC-01 BR-02	SOLID	N/A	1.101e+03	232.100	ug/g
4 SAMPLE	995T003101	0 W	IC-01 NO3-02	SOLID	N/A	4.769e+04	257.900	ug/g
4 SAMPLE	995T003101	0 W	IC-01 PO4-02	SOLID	N/A	3.091e+03	219.200	ug/g
4 SAMPLE	995T003101	0 W	IC-01 SO4-02	SOLID	N/A	9.868e+02	250.500	ug/g
4 SAMPLE	995T003101	0 W	IC-01 OXALATE2	SOLID	N/A	2.121e+03	193.400	ug/g
5 DUP	995T003101	0 W	IC-01 F-02	SOLID	6.11e+03	6.14e+03	0.490	RPD
5 DUP	995T003101	0 W	IC-01 CL-02	SOLID	6.37e+02	7.56e+02	17.090	RPD
5 DUP	995T003101	0 W	IC-01 NO2-02	SOLID	8.76e+02	8.55e+02	2.430	RPD
5 DUP	995T003101	0 W	IC-01 BR-02	SOLID	1.10e+03	1.13e+03	2.690	RPD
5 DUP	995T003101	0 W	IC-01 NO3-02	SOLID	4.77e+04	4.53e+04	5.160	RPD
5 DUP	995T003101	0 W	IC-01 PO4-02	SOLID	3.09e+03	3.89e+03	22.920	RPD
5 DUP	995T003101	0 W	IC-01 SO4-02	SOLID	9.87e+02	9.36e+02	5.300	RPD
5 DUP	995T003101	0 W	IC-01 OXALATE2	SOLID	2.12e+03	2.11e+03	0.470	RPD
6 SPK	995T003101	0 W	IC-01 F-02	SOLID	59	55.770	94.530	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4189

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003101	0	W	@IC-01	CL-02	SOLID	79	81.175	102.750 % Recovery
6 SPK	S95T003101	0	W	@IC-01	NO2-02	SOLID	536	505.070	94.230 % Recovery
6 SPK	S95T003101	0	W	@IC-01	BR-02	SOLID	575	537.235	93.430 % Recovery
6 SPK	S95T003101	0	W	@IC-01	NO3-02	SOLID	614	566.730	92.300 % Recovery
6 SPK	S95T003101	0	W	@IC-01	PO4-02	SOLID	546	558.820	102.350 % Recovery
6 SPK	S95T003101	0	W	@IC-01	SO4-02	SOLID	631	643.750	102.020 % Recovery
6 SPK	S95T003101	0	W	@IC-01	OXALATE2	SOLID	525	529.085	100.780 % Recovery
7 SAMPLE	S95T003102	0	W	@IC-01	F-02	SOLID	N/A	5.919e+03	25.790 ug/g
7 SAMPLE	S95T003102	0	W	@IC-01	CL-02	SOLID	N/A	6.211e+02	33.730 ug/g
7 SAMPLE	S95T003102	0	W	@IC-01	NO2-02	SOLID	N/A	9.138e+02	212.300 ug/g
7 SAMPLE	S95T003102	0	W	@IC-01	BR-02	SOLID	N/A	1.512e+03	250.000 ug/g
7 SAMPLE	S95T003102	0	W	@IC-01	NO3-02	SOLID	N/A	4.315e+04	277.700 ug/g
7 SAMPLE	S95T003102	0	W	@IC-01	PO4-02	SOLID	N/A	2.960e+03	236.100 ug/g
7 SAMPLE	S95T003102	0	W	@IC-01	SO4-02	SOLID	N/A	9.617e+02	269.800 ug/g
7 SAMPLE	S95T003102	0	W	@IC-01	OXALATE2	SOLID	N/A	2.122e+03	208.300 ug/g
8 DUP	S95T003102	0	W	@IC-01	F-02	SOLID	5.92e+03	6.15e+03	3.810 RPD
8 DUP	S95T003102	0	W	@IC-01	CL-02	SOLID	6.21e+02	7.12e+02	13.650 RPD
8 DUP	S95T003102	0	W	@IC-01	NO2-02	SOLID	9.14e+02	9.37e+02	2.490 RPD
8 DUP	S95T003102	0	W	@IC-01	BR-02	SOLID	1.51e+03	1.53e+03	1.320 RPD
8 DUP	S95T003102	0	W	@IC-01	NO3-02	SOLID	4.32e+04	4.52e+04	4.520 RPD
8 DUP	S95T003102	0	W	@IC-01	PO4-02	SOLID	2.96e+03	2.97e+03	0.340 RPD
8 DUP	S95T003102	0	W	@IC-01	SO4-02	SOLID	9.62e+02	1.36e+03	34.280 RPD
8 DUP	S95T003102	0	W	@IC-01	OXALATE2	SOLID	2.12e+03	2.07e+03	2.390 RPD

Final page for worklist# 4189

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James M. Luge
Reviewer Signature _____ Date 1/16/96

LABCORE Data Entry Template for Worklist# 4189

Analyst: VLM Instrument: IC01 IC03 Book# 122N9-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 IC FOR Br, BUT REPORT IC'S DETECTED THAT PASS QC RTS

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	S95T003101	0	W	@IC-01	SOLID	95000158	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S95T003101	0	W	@IC-01	SOLID		
6	SPK	S95T003101	0	W	@IC-01	SOLID		
7	SAMPLE	S95T003102	0	W	@IC-01	SOLID	95000158	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S95T003102	0	W	@IC-01	SOLID		

Final page for worklist # 4189

Valerie L Massie 01-12-96

Analyst Signature Date

typed & in shell

Analyst Signature

Date

uploaded & posted 1/16/96
printed *JM Lye*

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				16-Jan-96	
Worklist#: 4189				Data File: 4189JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	96011281.d12	INSTR BLANK		1.00
	=>	2	CCV		2	96011281.d13	122N9-C STD		101.00
	=>	3	BLNK-PREP		3	96011281.d14	PREP BLANK		1.00
	=>	4	SAMPLE		4	96011281.d15	295T003101 SAMPL		21.00
	=>	5	DUP		5	96011281.d16	295T003101 DUP		21.00
	=>	6	SPK		6	96011281.d17	295T003101 SPIKE		21.00
	=>	7	SAMPLE		7	96011281.d18	295T003102 SAMPL		21.00
	=>	8	DUP		8	96011281.d19	295T003102 DUP		21.00
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Valerie L. Mason 1-12-96

Sample Name: INSTR BLANK Date: 01/12/1996 14:21:42
Data File : C:\DX\DATA\96011281.D12
Method : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 12
Analyst : Column: Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.56	CHLORIDE	0.060	48045	243644	1	-0.64
2	3.12	NITRATE	0.477	51756	382204	1	-1.58
Totals			0.537	99801	625848		

File: 96011281.D12 Sample: INSTR BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 619 TO 622.

Valerie Z Massie 1-12-96

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=====
Sample Name: 122N9-C STD                      Date: 01/12/1996 14:34:40
Data File  : C:\DX\DATA\96011281.D13          WHO-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 13           Detector: CDM-2
Analyst    :                               Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000   5Hz   0.00 10.00   100000
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	66058	241744	1	
2	1.04	FLUORIDE	62.834	1529714	8500693	1	-2.80
3	1.54	CHLORIDE	81.137	1368205	7530354	2	-1.91
4	1.84	NITRITE	552.899	6203693	36594629	2	-1.60
5	2.72	BROMIDE	581.346	3888589	26256862	2	-1.81
6	3.08	NITRATE	634.210	4583392	37114391	2	-2.84
7	4.50	PHOSPHATE	568.430	1388806	16346610	1	-2.17
8	6.02	SULFATE	649.079	3554209	48937136	1	-0.82
9	7.90	OXALATE	566.561	1761407	32295962	1	-1.25
Totals			3696.495	24344074	213818382		

File: 96011281.D13 Sample: 122N9-C STD

Valerie L. Massi 1-12-96

=====

Sample Name: 295T003101 SPIKE	Date: 01/12/1996 15:23:37
Data File : C:\DX\DATA\96011281.D17	WNC-SD-WM-DP-160, REV.1
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 17	Detector: CDM-2
Analyst :	Column:

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00		100000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	67624	233960	1	
2	1.06	FLUORIDE	80.782	11146095	61438860	1	-0.93
3	1.56	CHLORIDE	23.470	1953948	10668976	1	-0.64
4	1.84	NITRITE	111.186	5367615	35289062	1	-1.60
5	2.74	BROMIDE	120.175	4050605	26089654	2	-1.08
6	3.04	NITRATE	657.300	24207959	210786603	2	-4.10
7	4.54	PHOSPHATE	146.688	1735681	20647756	1	-1.30
8	6.06	SULFATE	140.139	3481887	50988246	1	-0.16
9	7.94	OXALATE	130.242	1966275	35944416	1	-0.75
Totals			1409.982	53977688	452087532		

File: 96011281.D17 Sample: 295T003101 SPIKE

Data Reprocessed On 01/16/1996 10:49:21

Sample Name: INSTR BLANK

Date: 01/12/1996 14:21:42

Data File : C:\DX\DATA\96011281.d12

Method : C:\DX\METHOD\ANIONS.MET

WMO-SD-WM-DP-160, REV. /

ACI Address: 1 System: 2 Inject#: 12

Detector: CDM-2

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		100000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.56	CHLORIDE	0.060	48045	243644	1	-0.64
2	3.12	NITRATE	0.477	51756	382204	1	-1.58
Totals			0.537	99801	625848		

File: 96011281.d12 Sample: INSTR BLANK

Data Reprocessed On 01/16/1996 10:49:23

Sample Name: 122N9-C STD

Date: 01/12/1996 14:34:40

Data File : C:\DX\DATA\96011281.d13

Method : C:\DX\METHOD\ANIONS.MET

WNC-SD-WM-DP-160, REV. 1

ACI Address: 1 System: 2 Inject#: 13

Detector: CDM-2

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	66058	241744	1	
2	1.04	FLUORIDE	62.834	1529714	8500693	1	-2.80
3	1.54	CHLORIDE	81.137	1368205	7530354	2	-1.91
4	1.84	NITRITE	552.899	6203693	36594629	2	-1.60
5	2.72	BROMIDE	581.346	3888589	26256862	2	-1.81
6	3.08	NITRATE	634.210	4583392	37114391	2	-2.84
7	4.50	PHOSPHATE	568.430	1388806	16346610	1	-2.17
8	6.02	SULFATE	649.079	3554209	48937136	1	-0.82
9	7.90	OXALATE	566.561	1761407	32295962	1	-1.25
Totals			3696.495	24344074	213818382		

File: 96011281.d13 Sample: 122N9-C STD

Data Reprocessed On 01/16/1996 10:49:25

```
=====
Sample Name: PREP BLANK                      Date: 01/12/1996 14:46:27
Data File  : C:\DX\DATA\96011281.d14
Method     : C:\DX\METHOD\ANIONS.MET        WHO-SD-WM-DP-160, REV. /
ACI Address: 1 System: 2 Inject#: 14
Analyst    :                               Detector: CDM-2
Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 3000 5Hz 0.00 10.00 100000
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.26		0.000	62012	500336	1	
2	3.14	NITRATE	0.437	15189	136020	1	-0.95
3	7.64	OXALATE	0.347	11363	146868	1	-4.50
Totals			0.784	88564	783224		

File: 96011281.d14 Sample: PREP BLANK

Data Reprocessed On 01/16/1996 10:49:27

```

=====
Sample Name: 295T003101 SAMPLE                      Date: 01/12/1996 14:59:17
Data File  : C:\DX\DATA\96011281.d15                 WHO-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 15
Analyst    :                                           Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  3000  5Hz  0.00 10.00 100000
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	34025	123460	1	
2	1.06	FLUORIDE	69.646	9517487	51775186	1	-0.93
3	1.56	CHLORIDE	7.265	516528	3022600	2	-0.64
4	1.86	NITRITE	9.986	74729	469558	2	-0.53
5	2.76	BROMIDE	12.553	119102	742722	1	-0.36
6	3.08	NITRATE	543.654	19697968	170770780	1	-2.84
7	4.58	PHOSPHATE	35.236	334906	4030200	1	-0.43
8	6.12	SULFATE	11.250	54702	822886	1	0.82
9	8.02	OXALATE	24.183	276349	5031830	1	0.25
Totals			713.772	30625795	236789222		

File: 96011281.d15 Sample: 295T003101 SAMPLE

Data Reprocessed On 01/16/1996 10:49:29

```
=====
Sample Name: 295T003101 DUP                      Date: 01/12/1996 15:12:17
Data File  : C:\DX\DATA\96011281.d16
Method     : C:\DX\METHOD\ANIONS.MET             VMS-SD-WM-DP-160, REV.1
ACI Address: 1 System: 2 Inject#: 16
Analyst    :                                     Detector: CDM-2
Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21  3000  5Hz   0.00 10.00   100000
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	68.952	8364035	51188643	2	-2.80
2	1.54	CHLORIDE	8.481	611581	3589417	2	-1.91
3	1.84	NITRITE	9.600	59846	337768	1	-1.60
4	2.72	BROMIDE	12.643	112330	763480	1	-1.81
5	3.04	NITRATE	508.232	19022532	158608170	1	-4.10
6	4.54	PHOSPHATE	43.685	351656	5271224	1	-1.30
7	6.06	SULFATE	10.487	41159	531116	1	-0.16
8	7.98	OXALATE	23.702	264687	4892756	1	-0.25
Totals			685.782	28827826	225182574		

File: 96011281.d16 Sample: 295T003101 DUP

Data Reprocessed On 01/16/1996 10:49:31

```
=====
Sample Name: 295T003101 SPIKE          Date: 01/12/1996 15:23:37
Data File  : C:\DX\DATA\96011281.d17   WNC-SD-WM-DP-162 REV.1
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 17    Detector: CDM-2
Analyst    :                          Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00   100000
-----
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	67624	233960	1	
2	1.06	FLUORIDE	80.782	11146095	61438860	1	-0.93
3	1.56	CHLORIDE	23.470	1953948	10668976	1	-0.64
4	1.84	NITRITE	111.186	5367615	35289062	1	-1.60
5	2.74	BROMIDE	120.175	4050605	26089654	2	-1.08
6	3.04	NITRATE	657.300	24207959	210786603	2	-4.10
7	4.54	PHOSPHATE	146.688	1735681	20647756	1	-1.30
8	6.06	SULFATE	140.139	3481887	50988246	1	-0.16
9	7.94	OXALATE	130.242	1966275	35944416	1	-0.75
Totals			1409.982	53977688	452087532		

File: 96011281.d17 Sample: 295T003101 SPIKE

Data Reprocessed On 01/16/1996 10:49:33

Sample Name: 295T003102 SAMPLE

Date: 01/12/1996 15:34:48

Data File : C:\DX\DATA\96011281.d18

Method : C:\DX\METHOD\ANIONS.MET

WHO-SD-WM-DP-160, REV. 1

ACI Address: 1 System: 2 Inject#: 18

Detector: CDM-2

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	62.655	7765969	45938956	2	-2.80
2	1.54	CHLORIDE	6.575	477168	2701223	2	-1.91
3	1.84	NITRITE	9.674	65356	362844	2	-1.60
4	2.72	BROMIDE	16.009	239630	1544514	1	-1.81
5	3.04	NITRATE	456.771	17018105	141184376	1	-4.10
6	4.52	PHOSPHATE	31.333	279768	3457808	1	-1.74
7	6.06	SULFATE	10.179	37121	413280	1	-0.16
8	7.94	OXALATE	22.468	240853	4535424	1	-0.75
Totals			615.663	26123970	200138425		

File: 96011281.d18 Sample: 295T003102 SAMPLE

Data Reprocessed On 01/16/1996 10:49:34

Sample Name: 295T003102 DUP Date: 01/12/1996 15:46:28
Data File : C:\DX\DATA\96011281.d19
Method : C:\DX\METHOD\ANIONS.MET WHO-SD-WM-DP-160, REV.1
ACI Address: 1 System: 2 Inject#: 19 Detector: CDM-2
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	65.450	8721619	48252158	2	-0.93
2	1.54	CHLORIDE	7.576	499347	3167355	2	-1.91
3	1.84	NITRITE	9.971	71530	464519	2	-1.60
4	2.74	BROMIDE	16.315	257136	1615542	1	-1.08
5	3.04	NITRATE	481.152	17241753	149403800	1	-4.10
6	4.54	PHOSPHATE	31.621	304754	3500136	1	-1.30
7	6.06	SULFATE	14.433	86896	2041048	1	-0.16
8	8.02	OXALATE	22.009	250880	4402580	1	0.25
Totals			648.526	27433915	212847138		

File: 96011281.d19 Sample: 295T003102 DUP

LABCORE Completed Worklist Report for Worklist# 4379

Analyst: eal

Instrument: IC01

Book# B2N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003308-09 FOR IC RTS.

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	②IC-QC F	QC	1	<1.30e-2		ug/mL
1 CCB	0	0	②IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	0	②IC-QC NO2	QC	1	<1.07e-1		ug/mL
1 CCB	0	0	②IC-QC BR	QC	1	<1.26e-1		ug/mL
1 CCB	0	0	②IC-QC NO3	QC	1	1.65e-01	0.170	ug/mL
1 CCB	0	0	②IC-QC PO4	QC	1	<1.19e-1		ug/mL
1 CCB	0	0	②IC-QC SO4	QC	1	<1.36e-1		ug/mL
1 CCB	0	0	②IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	0	②IC-QC F	QC	59	6.26e+01	106.100	% Recovery
2 CCV	0	0	②IC-QC CL	QC	79	7.73e+01	97.850	% Recovery
2 CCV	0	0	②IC-QC NO2	QC	536	5.23e+02	97.570	% Recovery
2 CCV	0	0	②IC-QC BR	QC	575	5.99e+02	104.170	% Recovery
2 CCV	0	0	②IC-QC NO3	QC	614	6.59e+02	107.330	% Recovery
2 CCV	0	0	②IC-QC PO4	QC	546	5.72e+02	104.760	% Recovery
2 CCV	0	0	②IC-QC SO4	QC	631	6.55e+02	103.800	% Recovery
2 CCV	0	0	②IC-QC OXALATE2	QC	525	5.56e+02	105.900	% Recovery
3 BLNK-PREP	0	0	②IC-01 F-02	SOLID	1	<1.30e-2		ug/g
3 BLNK-PREP	0	0	②IC-01 CL-02	SOLID	1	<1.70e-2		ug/g
3 BLNK-PREP	0	0	②IC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3 BLNK-PREP	0	0	②IC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3 BLNK-PREP	0	0	②IC-01 NO3-02	SOLID	1	1.69e-01	0.170	ug/g
3 BLNK-PREP	0	0	②IC-01 PO4-02	SOLID	1	<1.19e-1		ug/g
3 BLNK-PREP	0	0	②IC-01 SO4-02	SOLID	1	<1.36e-1		ug/g
3 BLNK-PREP	0	0	②IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S95T003308	0 W	②IC-01 F-02	SOLID	N/A	5.997e+03	49.920	ug/g
4 SAMPLE	S95T003308	0 W	②IC-01 CL-02	SOLID	N/A	5.733e+02	65.290	ug/g
4 SAMPLE	S95T003308	0 W	②IC-01 NO2-02	SOLID	N/A	1.440e+03	410.900	ug/g
4 SAMPLE	S95T003308	0 W	②IC-01 BR-02	SOLID	N/A	5.219e+02	483.900	ug/g
4 SAMPLE	S95T003308	0 W	②IC-01 NO3-02	SOLID	N/A	4.028e+04	537.700	ug/g
4 SAMPLE	S95T003308	0 W	②IC-01 PO4-02	SOLID	N/A	3.153e+03	457.000	ug/g
4 SAMPLE	S95T003308	0 W	②IC-01 SO4-02	SOLID	N/A	8.135e+02	522.300	ug/g
4 SAMPLE	S95T003308	0 W	②IC-01 OXALATE2	SOLID	N/A	4.034e+02	403.300	ug/g
5 DUP	S95T003308	0 W	②IC-01 F-02	SOLID	6.00e+03	6.80e+03	12.500	RPD
5 DUP	S95T003308	0 W	②IC-01 CL-02	SOLID	5.73e+02	7.45e+02	26.100	RPD
5 DUP	S95T003308	0 W	②IC-01 NO2-02	SOLID	1.44e+03	1.55e+03	7.360	RPD
5 DUP	S95T003308	0 W	②IC-01 BR-02	SOLID	5.22e+02	5.69e+02	8.620	RPD
5 DUP	S95T003308	0 W	②IC-01 NO3-02	SOLID	4.03e+04	4.47e+04	10.350	RPD
5 DUP	S95T003308	0 W	②IC-01 PO4-02	SOLID	3.15e+03	3.49e+03	10.240	RPD
5 DUP	S95T003308	0 W	②IC-01 SO4-02	SOLID	8.14e+02	8.75e+02	7.220	RPD
5 DUP	S95T003308	0 W	②IC-01 OXALATE2	SOLID	<4.03e2	<4.20e2		RPD
6 SPK	S95T003308	0 W	②IC-01 F-02	SOLID	59	85.540	144.980	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4379

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S95T003308	0	W	QIC-01	CL-02	SOLID	79	77.830	98.520 % Recovery
6	SPK	S95T003308	0	W	QIC-01	NO2-02	SOLID	536	530.620	99.000 % Recovery
6	SPK	S95T003308	0	W	QIC-01	BR-02	SOLID	575	600.730	104.470 % Recovery
6	SPK	S95T003308	0	W	QIC-01	NO3-02	SOLID	614	778.690	126.820 % Recovery
6	SPK	S95T003308	0	W	QIC-01	PO4-02	SOLID	546	588.790	107.840 % Recovery
6	SPK	S95T003308	0	W	QIC-01	SO4-02	SOLID	631	652.760	103.450 % Recovery
6	SPK	S95T003308	0	W	QIC-01	OXALATE2	SOLID	525	570.000	108.570 % Recovery
7	SAMPLE	S95T003309	0	W	QIC-01	F-02	SOLID	N/A	6.260e+03	53.550 ug/g
7	SAMPLE	S95T003309	0	W	QIC-01	CL-02	SOLID	N/A	5.644e+02	70.010 ug/g
7	SAMPLE	S95T003309	0	W	QIC-01	NO2-02	SOLID	N/A	1.393e+03	440.700 ug/g
7	SAMPLE	S95T003309	0	W	QIC-01	BR-02	SOLID	N/A	8.137e+02	518.900 ug/g
7	SAMPLE	S95T003309	0	W	QIC-01	NO3-02	SOLID	N/A	4.421e+04	576.600 ug/g
7	SAMPLE	S95T003309	0	W	QIC-01	PO4-02	SOLID	N/A	2.612e+03	490.100 ug/g
7	SAMPLE	S95T003309	0	W	QIC-01	SO4-02	SOLID	N/A	1.018e+03	560.100 ug/g
7	SAMPLE	S95T003309	0	W	QIC-01	OXALATE2	SOLID	N/A	5.177e+02	432.400 ug/g
8	DUP	S95T003309	0	W	QIC-01	F-02	SOLID	6.26e+03	5.49e+03	13.110 RPD
8	DUP	S95T003309	0	W	QIC-01	CL-02	SOLID	5.64e+02	5.18e+02	8.500 RPD
8	DUP	S95T003309	0	W	QIC-01	NO2-02	SOLID	1.39e+03	1.33e+03	4.410 RPD
8	DUP	S95T003309	0	W	QIC-01	BR-02	SOLID	8.14e+02	7.34e+02	10.340 RPD
8	DUP	S95T003309	0	W	QIC-01	NO3-02	SOLID	4.42e+04	4.00e+04	9.980 RPD
8	DUP	S95T003309	0	W	QIC-01	PO4-02	SOLID	2.61e+03	2.44e+03	6.730 RPD
8	DUP	S95T003309	0	W	QIC-01	SO4-02	SOLID	1.02e+03	1.08e+03	5.710 RPD
8	DUP	S95T003309	0	W	QIC-01	OXALATE2	SOLID	5.18e+02	4.55e+02	12.950 RPD

Final page for worklist# 4379

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

1/4/96
Reviewer Signature _____ Date _____

Data Reprocessed On 01/05/1996 15:38:07

Sample Name: BLANK Date: 12/30/1995 15:31:53
Data File : C:\DX\DATA\95123021.d05
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
Analyst : *John E. H. [Signature]* 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
1	3.18	NITRATE	0.165	26	168	1	-2.75
Totals			0.165	26	168		

File: 95123021.d05 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 632 TO 639.

Data Reprocessed On 01/05/1996 15:38:09

Sample Name: 122N9-A STD.

Date: 12/30/1995 15:43:23

Data File : C:\DX\DATA\95123021.d06

WNC-SD-WM-DP-160, REV. I

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 6

Detector: CDM-1

Analyst : 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
2	1.07	FLUORIDE	62.583	1314	8047	2	-0.31
3	1.57	CHLORIDE	77.265	1097	6667	1	-1.05
4	1.87	NITRITE	523.170	4797	31975	1	-1.23
5	2.77	BROMIDE	599.080	3200	23652	1	-2.92
6	3.15	NITRATE	658.984	3907	33702	1	-3.77
7	4.57	PHOSPHATE	572.242	1163	14624	1	-1.44
8	5.91	SULFATE	654.804	3232	45444	1	-2.85
9	7.75	OXALATE	555.966	1631	29036	1	-3.17
Totals			3704.095	20342	193146		

File: 95123021.d06 Sample: 122N9-A STD.

Data Reprocessed On 01/05/1996 15:38:11

Sample Name: PREP BLANK

Date: 12/30/1995 15:57:10

Data File : C:\DX\DATA\95123021.d07

WNC-SD-WM-DP-160, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 7

Detector: CDM-1

Analyst : 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
1	1.31		0.000	140	1579	1	
2	3.22	NITRATE	0.169	29	189	1	-1.53
Totals			0.169	170	1768		

File: 95123021.d07 Sample: PREP BLANK

Data Reprocessed On 01/05/1996 15:38:13

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=====
Sample Name: S95T003308                      Date: 12/30/1995 16:10:57
Data File  : C:\DX\DATA\95123021.d08
Method     : C:\DX\METHOD\KIT.MET           VINC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 8          Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	32.792	3350	20690	1	1.56
2	1.59	CHLORIDE	3.134	210	1299	1	0.21
3	1.89	NITRITE	7.876	238	1549	1	-0.18
4	2.81	BROMIDE	2.854	32	200	1	-1.52
5	3.17	NITRATE	220.262	6320	55077	1	-3.16
6	4.61	PHOSPHATE	17.242	156	1918	1	-0.57
7	5.93	SULFATE	4.448	42	583	1	-2.41
Totals			288.608	10347	81318		

File: 95123021.d08 Sample: S95T003308

Data Reprocessed On 01/05/1996 15:38:15

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=====
Sample Name: S95T003308  DUP                      Date: 12/30/1995 16:34:52
Data File  : C:\DX\DATA\95123021.d09
Method     : C:\DX\METHOD\KIT.MET                VMD SD-WM-DP-100, REV.1
ACI Address: 1 System: 1 Inject#: 9                Detector: CDM-1
Analyst    :                                     Column:
=====
  
```

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-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	35.709	3591	22599	1	1.56
2	1.59	CHLORIDE	3.911	272	1619	1	0.21
3	1.89	NITRITE	8.150	252	1631	1	0.18
4	2.81	BROMIDE	2.989	35	226	1	-1.52
5	3.16	NITRATE	234.764	6742	58840	1	-3.36
6	4.61	PHOSPHATE	18.306	167	2050	1	-0.57
7	5.96	SULFATE	4.593	49	632	1	-1.97
Totals			308.422	11109	87597		

File: 95123021.d09 Sample: S95T003308 DUP

Data Reprocessed On 01/05/1996 15:38:17

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=====
Sample Name: S95T003308 SPIKE           Date: 12/30/1995 16:46:40
Data File  : C:\DX\DATA\95123021.d10
Method     : C:\DX\METHOD\KIT.MET      VHO-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 10
Analyst    :                          Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	49.888	5078	32053	1	1.56
2	1.59	CHLORIDE	18.692	1274	7766	1	0.21
3	1.89	NITRITE	114.007	4983	33562	1	-0.18
4	2.79	BROMIDE	123.075	3219	23361	1	-2.22
5	3.14	NITRATE	376.370	10718	96224	1	-3.98
6	4.59	PHOSPHATE	134.505	1311	16593	1	-1.15
7	5.93	SULFATE	134.508	3267	44877	1	-2.41
8	7.77	OXALATE	113.865	1608	28595	1	-2.83
Totals			1064.911	31458	283031		

File: 95123021.d10 Sample: S95T003308 SPIKE

Data Reprocessed On 01/05/1996 15:38:19

```
=====
Sample Name: S95T003309                      Date: 12/30/1995 16:57:53
Data File  : C:\DX\DATA\95123021.d11
Method     : C:\DX\METHOD\KIT.MET           WHO-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 11         Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    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	1.09	FLUORIDE	31.918	3248	20120	1	1.56
2	1.59	CHLORIDE	2.878	196	1193	1	-0.21
3	1.89	NITRITE	7.104	207	1318	1	-0.18
4	2.80	BROMIDE	4.149	64	446	1	-1.75
5	3.16	NITRATE	225.413	6425	56413	1	-3.36
6	4.61	PHOSPHATE	13.317	119	1435	1	-0.57
7	5.96	SULFATE	5.189	55	831	1	-1.97
8	7.80	OXALATE	2.640	30	491	1	-2.50
Totals			292.609	10344	82247		

File: 95123021.d11 Sample: S95T003309

Data Reprocessed On 01/05/1996 15:38:21

```
=====
Sample Name: S95T003309   DUP                               Date: 12/30/1995 17:09:20
Data File  : C:\DX\DATA\95123021.d12                       WHO-SD-WM-DP-16C, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1   System: 1   Inject#: 12                   Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21    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	1.07	FLUORIDE	27.714	2854	17395	1	0.31
2	1.57	CHLORIDE	2.615	179	1085	1	-1.05
3	1.87	NITRITE	6.698	183	1197	1	-1.23
4	2.78	BROMIDE	3.708	55	362	1	-2.46
5	3.15	NITRATE	202.228	5751	50415	1	-3.77
6	4.59	PHOSPHATE	12.324	108	1313	1	-1.15
7	5.93	SULFATE	5.446	61	918	1	-2.41
8	7.77	OXALATE	2.298	25	405	1	-2.83
Totals			263.030	9215	73088		

File: 95123021.d12 Sample: S95T003309 DUP

LABCORE Data Entry Template for Worklist# 4379

Analyst: EAL Instrument: IC01 IC01 Book# 122N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003308-09 FOR IC RTS.

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	S95T003308 0 W			@IC-01	SOLID	95000161	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S95T003308 0 W			@IC-01	SOLID		
6	SPK	S95T003308 0 W			@IC-01	SOLID		
7	SAMPLE	S95T003309 0 W			@IC-01	SOLID	95000161	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S95T003309 0 W			@IC-01	SOLID		

Final page for worklist # 4379

A. Lambel 12.30.95
Analyst Signature Date

Analyst Signature Date

Uploaded & posted 1/4/96
Jenn M. Lye
copied

Data Entry Comments:

Sample Name: BLANK Date: 12/30/1995 15:31:53
 Data File : C:\DX\DATA\95123021.D05
 Method : C:\DX\METHOD\KIT.MET WIND-SD-WM-DP-160, REV.1
 ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
 Analyst : *A. Lambel* 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
1	3.18	NITRATE	0.165	26	168	1	-2.75
Totals			0.165	26	168		

File: 95123021.D05 Sample: BLANK

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES *641* TO *642*.

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=====
Sample Name: 122N9-A STD.                      Date: 12/30/1995 15:43:23
Data File  : C:\DX\DATA\95123021.D06           WHO SD-WM-DP-16C, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 6             Detector: CDM-1
Analyst    : A. Lambert Column:
=====

```

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-----
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
2	1.07	FLUORIDE	62.583	1314	8047	2	-0.31
3	1.57	CHLORIDE	77.265	1097	6667	1	-1.05
4	1.87	NITRITE	523.170	4797	31975	1	-1.23
5	2.77	BROMIDE	599.080	3200	23652	1	-2.92
6	3.15	NITRATE	658.984	3907	33702	1	-3.77
7	4.57	PHOSPHATE	572.242	1163	14624	1	-1.44
8	5.91	SULFATE	654.804	3232	45444	1	-2.85
9	7.75	OXALATE	555.966	1631	29036	1	-3.17
Totals			3704.095	20342	193146		

File: 95123021.D06 Sample: 122N9-A STD.

LABCORE Completed Worklist Report for Worklist# 4380

Analyst: eal

Instrument: IC01

Book# 122119A

Method: LA-5337125 Rev/Mod D-1

Worklist Comment: B-204 S95T003310-11 FOR IC RTS.

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	1.66e-01	0.170	ug/mL
1 CCB		0	②IC-QC BR	QC	1	<1.26e-1		ug/mL
1 CCB		0	②IC-QC NO3	QC	1	<1.07e-1		ug/mL
1 CCB		0	②IC-QC PO4	QC	1	<1.19e-1		ug/mL
1 CCB		0	②IC-QC SO4	QC	1	1.67e-01	0.170	ug/mL
1 CCB		0	②IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV		0	②IC-QC F	QC	59	6.63e+01	112.370	% Recovery
2 CCV		0	②IC-QC CL	QC	79	8.00e+01	101.270	% Recovery
2 CCV		0	②IC-QC NO2	QC	536	5.39e+02	100.560	% Recovery
2 CCV		0	②IC-QC BR	QC	575	6.18e+02	107.480	% Recovery
2 CCV		0	②IC-QC NO3	QC	614	6.71e+02	109.280	% Recovery
2 CCV		0	②IC-QC PO4	QC	546	5.84e+02	106.960	% Recovery
2 CCV		0	②IC-QC SO4	QC	631	6.61e+02	104.750	% Recovery
2 CCV		0	②IC-QC OXALATE2	QC	525	5.64e+02	107.430	% 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 REJECT	S95T003310	0 W	②IC-01 F-02	SOLID	N/A	6.560e+03		ug/g
4 SAMPLE	S95T003310	0 W	②IC-01 CL-02	SOLID	N/A	5.838e+02	38.100	ug/g
4 SAMPLE	S95T003310	0 W	②IC-01 NO2-02	SOLID	N/A	1.078e+03	239.900	ug/g
4 SAMPLE	S95T003310	0 W	②IC-01 BR-02	SOLID	N/A	4.049e+02	282.500	ug/g
4 SAMPLE	S95T003310	0 W	②IC-01 NO3-02	SOLID	N/A	4.699e+04	599.200	ug/g
4 SAMPLE	S95T003310	0 W	②IC-01 PO4-02	SOLID	N/A	2.642e+03	266.800	ug/g
4 SAMPLE	S95T003310	0 W	②IC-01 SO4-02	SOLID	N/A	6.134e+02	304.900	ug/g
4 SAMPLE	S95T003310	0 W	②IC-01 OXALATE2	SOLID	N/A	8.514e+02	235.400	ug/g
5 DUP	S95T003310	0 W	②IC-01 F-02	SOLID	6.56e+03	6.56e+03	1.510	RPD
5 DUP	S95T003310	0 W	②IC-01 CL-02	SOLID	5.84e+02	5.90e+02	1.020	RPD
5 DUP	S95T003310	0 W	②IC-01 NO2-02	SOLID	1.08e+03	1.08e+03	0.000	RPD
5 DUP	S95T003310	0 W	②IC-01 BR-02	SOLID	4.05e+02	4.06e+02	0.250	RPD
5 DUP	S95T003310	0 W	②IC-01 NO3-02	SOLID	4.70e+04	4.80e+04	2.110	RPD
5 DUP	S95T003310	0 W	②IC-01 PO4-02	SOLID	2.64e+03	2.57e+03	2.690	RPD
5 DUP	S95T003310	0 W	②IC-01 SO4-02	SOLID	6.13e+02	6.81e+02	10.510	RPD
5 DUP	S95T003310	0 W	②IC-01 OXALATE2	SOLID	8.51e+02	8.35e+02	1.900	RPD
6 SPK	S95T003310	0 W	②IC-01 F-02	SOLID	59	72.040	122.100	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4380

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003310	0 W	@IC-01	CL-02	SOLID	79	80.360	101.720 % Recovery
6 SPK	S95T003310	0 W	@IC-01	NO2-02	SOLID	536	524.080	97.780 % Recovery
6 SPK	S95T003310	0 W	@IC-01	BR-02	SOLID	575	595.130	103.500 % Recovery
6 SPK	S95T003310	0 W	@IC-01	NO3-02	SOLID	614	747.075	121.670 % Recovery
6 SPK	S95T003310	0 W	@IC-01	PO4-02	SOLID	546	587.370	107.580 % Recovery
6 SPK	S95T003310	0 W	@IC-01	SO4-02	SOLID	631	653.900	103.630 % Recovery
6 SPK	S95T003310	0 W	@IC-01	OXALATE2	SOLID	525	561.220	106.900 % Recovery
7 REJECT	S95T003311	0 W	@IC-01	F-02	SOLID	N/A	6.407e+03	ug/g
7 SAMPLE	S95T003311	0 W	@IC-01	CL-02	SOLID	N/A	5.737e+02	34.870 ug/g
7 SAMPLE	S95T003311	0 W	@IC-01	NO2-02	SOLID	N/A	8.978e+02	219.500 ug/g
7 SAMPLE	S95T003311	0 W	@IC-01	BR-02	SOLID	N/A	4.095e+02	258.400 ug/g
7 SAMPLE	S95T003311	0 W	@IC-01	NO3-02	SOLID	N/A	4.455e+04	548.200 ug/g
7 SAMPLE	S95T003311	0 W	@IC-01	PO4-02	SOLID	N/A	2.813e+03	244.100 ug/g
7 SAMPLE	S95T003311	0 W	@IC-01	SO4-02	SOLID	N/A	5.685e+02	278.900 ug/g
7 SAMPLE	S95T003311	0 W	@IC-01	OXALATE2	SOLID	N/A	1.089e+03	215.400 ug/g
8 DUP	S95T003311	0 W	@IC-01	F-02	SOLID	6.41e+03	6.67e+03	3.980 RPD
8 DUP	S95T003311	0 W	@IC-01	CL-02	SOLID	5.74e+02	5.73e+02	0.170 RPD
8 DUP	S95T003311	0 W	@IC-01	NO2-02	SOLID	8.98e+02	9.01e+02	0.330 RPD
8 DUP	S95T003311	0 W	@IC-01	BR-02	SOLID	4.10e+02	4.20e+02	2.410 RPD
8 DUP	S95T003311	0 W	@IC-01	NO3-02	SOLID	4.46e+04	4.67e+04	4.600 RPD
8 DUP	S95T003311	0 W	@IC-01	PO4-02	SOLID	2.81e+03	2.83e+03	0.710 RPD
8 DUP	S95T003311	0 W	@IC-01	SO4-02	SOLID	5.68e+02	5.84e+02	2.780 RPD
8 DUP	S95T003311	0 W	@IC-01	OXALATE2	SOLID	1.09e+03	1.12e+03	2.710 RPD

Comments Section:

Comments for sample# S95T003310 and test @IC-01 .

F will be rejected
F will be rejected

Comments for sample# S95T003311 and test @IC-01 .

F will be rejected
F will be rejected

Final page for worklist# 4380

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James M. Lyle 1/5/96
Reviewer Signature _____ Date _____

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				05-Jan-96			
Worklist#: 4380					Data File: 4380JAN.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB	S95T003310	-	1	96010231.d02	BLANK		1.00	
	=>	2	CCV			2	96010231.d03	122N90-A STD.		101.00	
	=>	3	BLNK-PREP			3	96010231.d04	PREP BLANK		1.00	
	=>	4	SAMPLE			4	96010231.d05	S95T003310		21.00	
	=>	5	DUP			4	96010231.d06	S95T003310		11.00	
	=>	6	SPK			5	96010231.d07	S95T003310		21.00	
	=>	7	SAMPLE			5	96010231.d08	S95T003310 DUP		11.00	
	=>	8	DUP			6	96010231.d09	S95T003310 SPIK		21.00	
						6	96010231.d10	S95T003310 SPIK		11.00	
						7	96010231.d11	S95T003311		21.00	
						7	96010231.d12	S95T003311		11.00	
						8	96010231.d13	S95T003311 DUP		21.00	
						8	96010231.d14	S95T003311 DUP		11.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003310				05-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 4				
		[1]	[2]	[3]	[4]	[5]
		96010231.d05	96010231.d06			
		21.0000	11.0000			
F-02	1	32.1920				
CL-02	2		2.8640			
N02-02	2		5.2920			
BR-02	2		1.9870			
N03-02	1	230.5850				
P04-02	2		12.9630			
S04-02	2		3.0100			
OXALATE2	2		4.1780			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003311				05-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 7				
		[1]	[2]	[3]	[4]	[5]
		96010231.d11	96010231.d12			
		21.0000	11.0000			
F-02	1	34.3610				
CL-02	2		3.0770			
N02-02	2		4.8150			
BR-02	2		2.1960			
N03-02	1	238.9060				
P04-02	2		15.0880			
S04-02	2		3.0490			
OXALATE2	2		5.8380			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003311				05-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 8				
		[1]	[2]	[3]	[4]	[5]
		96010231.d13	96010231.d14			
		21.0000	11.0000			
F-02	1	35.0730				
CL-02	2		3.0120			
NO2-02	2		4.7480			
BR-02	2		2.2160			
NO3-02	1	246.2210				
PO4-02	2		14.9310			
SO4-02	2		3.0760			
OXALATE2	2		5.9150			

Done(F4) Abort(Shift-F3) UnPick(F7)

LABCORE Data Entry Template for Worklist# 4380

Analyst: EAL Instrument: IC01 Book# 122N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003310-11 FOR IC RTS.

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	S95T003310 0 W	@IC-01	SOLID	95000161 B-204		
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5 DUP	S95T003310 0 W	@IC-01	SOLID			
6 SPK	S95T003310 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003311 0 W	@IC-01	SOLID	95000161 B-204		
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
8 DUP	S95T003311 0 W	@IC-01	SOLID			

Final page for worklist # 4380

A. Lambert 01.02.96
Analyst Signature Date

Analyst Signature Date

*copied of
uploaded & posted. 1/5/96 Jenni Lye
F needs to be reported. - F is reported*

Data Entry Comments:

```

=====
Sample Name: BLANK                               Date: 01/02/1996 23:05:44
Data File  : C:\DX\DATA\96010231.D02
Method     : C:\DX\METHOD\KIT.MET              WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 2              Detector: CDM-1
Analyst    : A. Lambel                        Column:
=====

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=====
                                01-02-96
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	3.21	NITRATE	0.166	28	175	1	-1.73
3	6.04	SULFATE	0.167	21	267	1	-0.66
Totals			0.333	49	442		

File: 96010231.D02 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 650 TO 667.

Sample Name: 122N90-A STD. Date: 01/02/1996 23:16:53
 Data File : C:\DX\DATA\96010231.D03 WHC-SD-WM-DP-160, REV. I
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 3 Detector: CDM-1
 Analyst : *A. Lambert* 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	0.95		0.000	38	124	1	
2	1.07	FLUORIDE	66.336	1639	8536	1	0.31
3	1.59	CHLORIDE	79.996	1337	6904	1	0.21
4	1.89	NITRITE	539.284	5739	32992	1	0.18
5	2.81	BROMIDE	617.752	3719	24413	1	-1.29
6	3.19	NITRATE	670.763	4387	34326	1	-2.34
7	4.59	PHOSPHATE	583.711	1244	14926	1	-1.15
8	6.04	SULFATE	661.209	3396	45905	1	-0.66
9	7.91	OXALATE	563.882	1633	29454	1	-1.17
Totals			3782.932	23132	197580		

File: 96010231.D03 Sample: 122N90-A STD.

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=====
Sample Name: PREP BLANK                      Date: 01/02/1996 23:34:28
Data File  : C:\DX\DATA\96010231.D04
Method     : C:\DX\METHOD\KIT.MET          WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 4         Detector: CDM-1
Analyst    : A. Lambert                   Column:
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-----
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
1	1.30		0.000	169	2152	1	
Totals			0.000	169	2152		

File: 96010231.D04 Sample: PREP BLANK

=====

Sample Name: S95T003310 <i>dup</i>	Date: 01/03/1996 00:25:04
Data File : C:\DX\DATA\96010231.D07	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 7	Detector: CDM-1
Analyst :	Column:

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	33.188	4089	20948	1	-0.31
2	1.57	CHLORIDE	2.908	235	1205	1	-1.05
3	1.87	NITRITE	6.502	210	1138	1	-0.88
4	2.80	BROMIDE	2.802	34	191	1	-1.75
5	3.15	NITRATE	239.157	7569	59983	1	-3.57
6	4.59	PHOSPHATE	13.343	126	1438	1	-1.15
7	6.04	SULFATE	4.579	48	627	1	-0.66
8	7.93	OXALATE	4.371	53	925	1	-0.83
Totals			306.851	12364	86455		

File: 96010231.D07 Sample: S95T003310

=====

Sample Name: S95T003310 SPIKE	Date: 01/03/1996 00:49:38
Data File : C:\DX\DATA\96010231.D09	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 9	Detector: CDM-1
Analyst : <i>A. Lambert</i>	Column:

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	46.604	5806	29837	1	-0.31
3	1.57	CHLORIDE	18.711	1512	7774	1	-1.05
4	1.87	NITRITE	111.731	5774	32871	1	-0.88
5	2.79	BROMIDE	123.844	3697	23511	1	-2.22
6	3.13	NITRATE	379.837	12104	97154	1	-4.18
7	4.57	PHOSPHATE	130.468	1346	16080	1	-1.44
8	6.01	SULFATE	134.529	3255	44884	1	-1.10
9	7.91	OXALATE	116.982	1660	29388	1	-1.17
Totals			1062.707	35154	281500		

File: 96010231.D09 Sample: S95T003310 SPIKE

Data Reprocessed On 01/04/1996 15:31:36

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=====
Sample Name: BLANK                      Date: 01/02/1996 23:05:44
Data File  : C:\DX\DATA\96010231.d02    WPC-SD-WM-DP-16C, REV./
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2      Detector: CDM-1
Analyst    :                          Column:
=====
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-----
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	3.21	NITRATE	0.166	28	175	1	-1.73
3	6.04	SULFATE	0.167	21	267	1	-0.66
Totals			0.333	49	442		

File: 96010231.d02 Sample: BLANK

Data Reprocessed On 01/04/1996 15:31:38

Sample Name: 122N90-A STD.

Date: 01/02/1996 23:16:53

Data File : C:\DX\DATA\96010231.d03

WHC-SD-WM-DP-160, REV. I

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 3

Detector: CDM-1

Analyst : 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	0.95		0.000	38	124	1	
2	1.07	FLUORIDE	66.336	1639	8536	1	0.31
3	1.59	CHLORIDE	79.996	1337	6904	1	0.21
4	1.89	NITRITE	539.284	5739	32992	1	0.18
5	2.81	BROMIDE	617.752	3719	24413	1	-1.29
6	3.19	NITRATE	670.763	4387	34326	1	-2.34
7	4.59	PHOSPHATE	583.711	1244	14926	1	-1.15
8	6.04	SULFATE	661.209	3396	45905	1	-0.66
9	7.91	OXALATE	563.882	1633	29454	1	-1.17
Totals			3782.932	23132	197580		

File: 96010231.d03 Sample: 122N90-A STD.

Data Reprocessed On 01/04/1996 15:31:41

Sample Name: PREP BLANK

Date: 01/02/1996 23:34:28

Data File : C:\DX\DATA\96010231.d04

WHC-SD-WM-DP-160, REV. |

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 4

Detector: CDM-1

Analyst : 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
1	1.30		0.000	169	2152	1	
Totals			0.000	169	2152		

File: 96010231.d04 Sample: PREP BLANK

Data Reprocessed On 01/04/1996 15:31:43

Sample Name: S95T003310

Date: 01/02/1996 23:45:48

Data File : C:\DX\DATA\96010231.d05

WHC-SD-WM-DP-16C, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 5

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	32.192	3983	20299	1	-0.31
2	1.57	CHLORIDE	4.849	390	2007	1	-1.05
3	1.87	NITRITE	6.512	205	1141	1	-0.88
4	2.80	BROMIDE	2.712	32	173	1	-1.75
5	3.16	NITRATE	230.585	7438	57755	1	-3.36
6	4.59	PHOSPHATE	13.254	123	1427	1	-1.15
7	6.04	SULFATE	5.256	65	854	1	-0.66
8	7.96	OXALATE	4.049	50	844	1	-0.50
Totals			299.408	12286	84500		

File: 96010231.d05 Sample: S95T003310

Data Reprocessed On 01/04/1996 15:31:45

Sample Name: S95T003310 Date: 01/03/1996 00:13:05
Data File : C:\DX\DATA\96010231.d06
Method : C:\DX\METHOD\KIT.MET VHC-SD-WM-DP-16C, REV. I
ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	33.061	8148	41156	1	-0.31
2	1.57	CHLORIDE	2.864	442	2263	1	-1.05
3	1.87	NITRITE	5.292	400	2217	1	-0.88
4	2.80	BROMIDE	1.987	65	378	1	-1.75
5	3.13	NITRATE	240.595	14599	118693	1	-4.38
6	4.59	PHOSPHATE	12.963	243	2844	1	-1.15
7	6.04	SULFATE	3.010	78	1019	1	-0.66
8	7.93	OXALATE	4.178	102	1830	1	-0.83
Totals			303.952	24076	170400		

File: 96010231.d06 Sample: S95T003310

Data Reprocessed On 01/04/1996 15:31:47

Sample Name: S95T003310 Date: 01/03/1996 00:25:04
Data File : C:\DX\DATA\96010231.d07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst : Column: Detector: CDM-1

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 21 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	1.07	FLUORIDE	33.188	4089	20948	1	-0.31
2	1.57	CHLORIDE	2.908	235	1205	1	-1.05
3	1.87	NITRITE	6.502	210	1138	1	-0.88
4	2.80	BROMIDE	2.802	34	191	1	-1.75
5	3.15	NITRATE	239.157	7569	59983	1	-3.57
6	4.59	PHOSPHATE	13.343	126	1438	1	-1.15
7	6.04	SULFATE	4.579	48	627	1	-0.66
8	7.93	OXALATE	4.371	53	925	1	-0.83
Totals			306.851	12364	86455		

File: 96010231.d07 Sample: S95T003310

Data Reprocessed On 01/04/1996 15:31:49

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Sample Name: S95T003310  DUP                               Date: 01/03/1996 00:38:48
Data File  : C:\DX\DATA\96010231.d08
Method     : C:\DX\METHOD\KIT.MET                         WHO-SD-WM-DP-160, REV. |
ACI Address: 1 System: 1 Inject#: 8                         Detector: CDM-1
Analyst    :                                               Column:
=====
  
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Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.08	FLUORIDE	34.276	8177	42782	1	0.93
2	1.59	CHLORIDE	2.940	454	2322	1	0.21
3	1.89	NITRITE	5.391	408	2273	1	0.18
4	2.82	BROMIDE	2.017	67	389	1	-1.05
5	3.15	NITRATE	246.132	14823	121588	1	-3.77
6	4.61	PHOSPHATE	12.792	241	2804	1	-0.57
7	6.07	SULFATE	3.394	89	1265	1	-0.22
8	7.96	OXALATE	4.165	107	1824	1	-0.50
Totals			311.107	24364	175247		

File: 96010231.d08 Sample: S95T003310 DUP

Data Reprocessed On 01/04/1996 15:31:51

Sample Name: S95T003310 SPIKE Date: 01/03/1996 00:49:38
Data File : C:\DX\DATA\96010231.d09
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9
Analyst : Column: WWC-CD-WM-DP-160, REV.1
Detector: CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.07	FLUORIDE	46.604	5806	29837	1	-0.31
3	1.57	CHLORIDE	18.711	1512	7774	1	-1.05
4	1.87	NITRITE	111.731	5774	32871	1	-0.88
5	2.79	BROMIDE	123.844	3697	23511	1	-2.22
6	3.13	NITRATE	379.837	12104	97154	1	-4.18
7	4.57	PHOSPHATE	130.468	1346	16080	1	-1.44
8	6.01	SULFATE	134.529	3255	44884	1	-1.10
9	7.91	OXALATE	116.982	1660	29388	1	-1.17
Totals			1062.707	35154	281500		

File: 96010231.d09 Sample: S95T003310 SPIKE

66%

Data Reprocessed On 01/04/1996 15:31:54

Sample Name: S95T003310 SPIKE Date: 01/03/1996 01:01:24
Data File : C:\DX\DATA\96010231.d10
Method : C:\DX\METHOD\KIT.MET WHC-3D-WM-DP-16C, REV.1
ACI Address: 1 System: 1 Inject#: 10 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.08	FLUORIDE	39.839	9816	50349	1	0.93
3	1.59	CHLORIDE	10.897	1643	8651	1	-0.21
4	1.89	NITRITE	57.746	5694	32420	1	0.18
5	2.81	BROMIDE	61.537	3572	22265	1	-1.52
6	3.13	NITRATE	312.406	18655	156835	1	-4.38
7	4.59	PHOSPHATE	71.659	1401	16886	1	-1.15
8	6.04	SULFATE	68.364	3186	43496	1	-0.66
9	7.91	OXALATE	60.274	1604	28901	1	-1.17
Totals			682.721	45571	359802		

File: 96010231.d10 Sample: S95T003310 SPIKE

Data Reprocessed On 01/04/1996 15:31:56

Sample Name: S95T003311

Date: 01/03/1996 01:22:04

Data File : C:\DX\DATA\96010231.d11

WHO-SD-WM-DP-16C, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 11

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.08	FLUORIDE	34.361	4114	21715	1	0.93
2	1.59	CHLORIDE	2.846	232	1180	1	0.21
3	1.89	NITRITE	5.844	173	941	1	0.18
4	2.82	BROMIDE	2.893	38	208	1	-1.05
5	3.18	NITRATE	238.906	7638	59917	1	-2.75
6	4.60	PHOSPHATE	15.028	143	1646	1	-0.86
7	6.07	SULFATE	4.635	48	646	1	-0.22
8	7.96	OXALATE	5.709	75	1261	1	-0.50
Totals			310.221	12461	87513		

File: 96010231.d11 Sample: S95T003311

Data Reprocessed On 01/04/1996 15:31:58

Sample Name: S95T003311

Date: 01/03/1996 01:33:19

Data File : C:\DX\DATA\96010231.d12

WHO-SD-WM-DP-160, REV. I

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 12

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.08	FLUORIDE	34.743	8488	43409	1	0.93
2	1.59	CHLORIDE	3.077	461	2431	1	-0.21
3	1.89	NITRITE	4.815	346	1944	1	0.18
4	2.81	BROMIDE	2.196	77	454	1	-1.29
5	3.14	NITRATE	256.308	15360	126929	1	-3.98
6	4.60	PHOSPHATE	15.088	284	3345	1	-0.86
7	6.07	SULFATE	3.049	83	1044	1	-0.22
8	7.96	OXALATE	5.838	147	2626	1	-0.50
Totals			325.115	25245	182182		

File: 96010231.d12 Sample: S95T003311

Data Reprocessed On 01/04/1996 15:32:00

=====

Sample Name: S95T003311 DUP	Date: 01/03/1996 01:45:13
Data File : C:\DX\DATA\96010231.d13	
Method : C:\DX\METHOD\KIT.MET	WHO-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 13	Detector: CDM-1
Analyst :	Column:

=====

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	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	1.08	FLUORIDE	35.073	4218	22181	1	0.93
2	1.59	CHLORIDE	3.025	243	1254	1	0.21
3	1.89	NITRITE	5.961	178	976	1	0.18
4	2.82	BROMIDE	3.092	41	245	1	-1.05
5	3.17	NITRATE	246.221	7828	61821	1	-2.96
6	4.60	PHOSPHATE	15.106	144	1655	1	-0.86
7	6.07	SULFATE	6.924	68	1414	1	-0.22
8	7.96	OXALATE	6.256	79	1398	1	-0.50
Totals			321.659	12798	90945		

File: 96010231.d13 Sample: S95T003311 DUP

Data Reprocessed On 01/04/1996 15:32:02

Sample Name: S95T003311 DUP Date: 01/03/1996 01:56:20
 Data File : C:\DX\DATA\96010231.d14
 Method : C:\DX\METHOD\KIT.MET WNC-SD-WM-DP-16C, REV. 1
 ACI Address: 1 System: 1 Inject#: 14
 Analyst : Column: Detector: CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.08	FLUORIDE	35.684	8547	44678	1	0.93
2	1.59	CHLORIDE	3.012	460	2379	1	0.21
3	1.89	NITRITE	4.748	344	1905	1	0.18
4	2.81	BROMIDE	2.216	78	461	1	-1.29
5	3.14	NITRATE	255.227	15322	126360	1	-3.98
6	4.60	PHOSPHATE	14.931	284	3308	1	-0.86
7	6.07	SULFATE	3.076	82	1061	1	-0.22
8	7.96	OXALATE	5.915	151	2663	1	-0.50
Totals			324.809	25267	182816		

File: 96010231.d14 Sample: S95T003311 DUP

LABCORE Completed Worklist Report for Worklist# 4381

Analyst: eal

Instrument: IC01

Book# 122N94

Method: 1A-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003320-21 FOR IC RTS.

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB		0		IC-0C	F	QC	1	<1.30e-2	ug/mL
1	CCB		0		IC-0C	CL	QC	1	<1.70e-2	ug/mL
1	CCB		0		IC-0C	NO2	QC	1	<1.07e-1	ug/mL
1	CCB		0		IC-0C	BR	QC	1	<1.26e-1	ug/mL
1	CCB		0		IC-0C	NO3	QC	1	1.73e-01	0.170 ug/mL
1	CCB		0		IC-0C	PO4	QC	1	<1.19e-1	ug/mL
1	CCB		0		IC-0C	SO4	QC	1	<1.36e-1	ug/mL
1	CCB		0		IC-0C	OXALATE2	QC	1	<1.05e-1	ug/mL
2	CCV		0		IC-0C	F	QC	59	6.30e+01	106.780 % Recovery
2	CCV		0		IC-0C	CL	QC	79	7.67e+01	97.090 % Recovery
2	CCV		0		IC-0C	NO2	QC	536	5.22e+02	97.390 % Recovery
2	CCV		0		IC-0C	BR	QC	575	6.07e+02	105.570 % Recovery
2	CCV		0		IC-0C	NO3	QC	614	6.43e+02	104.720 % Recovery
2	CCV		0		IC-0C	PO4	QC	546	5.84e+02	106.960 % Recovery
2	CCV		0		IC-0C	SO4	QC	631	6.62e+02	104.910 % Recovery
2	CCV		0		IC-0C	OXALATE2	QC	525	5.61e+02	106.860 % 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	S95T003320	0	W	IC-01	F-02	SOLID	N/A	7.008e+03	28.090 ug/g
4	SAMPLE	S95T003320	0	W	IC-01	CL-02	SOLID	N/A	6.159e+02	25.580 ug/g
4	SAMPLE	S95T003320	0	W	IC-01	NO2-02	SOLID	N/A	2.925e+02	161.000 ug/g
4	SAMPLE	S95T003320	0	W	IC-01	BR-02	SOLID	N/A	3.776e+02	189.600 ug/g
4	SAMPLE	S95T003320	0	W	IC-01	NO3-02	SOLID	N/A	5.346e+04	302.600 ug/g
4	SAMPLE	S95T003320	0	W	IC-01	PO4-02	SOLID	N/A	3.921e+03	179.100 ug/g
4	SAMPLE	S95T003320	0	W	IC-01	SO4-02	SOLID	N/A	5.334e+02	204.700 ug/g
4	SAMPLE	S95T003320	0	W	IC-01	OXALATE2	SOLID	N/A	1.879e+03	158.000 ug/g
5	DUP	S95T003320	0	W	IC-01	F-02	SOLID	7.01e+03	6.89e+03	1.730 RPD
5	DUP	S95T003320	0	W	IC-01	CL-02	SOLID	6.16e+02	6.04e+02	1.970 RPD
5	DUP	S95T003320	0	W	IC-01	NO2-02	SOLID	2.92e+02	2.90e+02	0.690 RPD
5	DUP	S95T003320	0	W	IC-01	BR-02	SOLID	3.78e+02	3.79e+02	0.260 RPD
5	DUP	S95T003320	0	W	IC-01	NO3-02	SOLID	5.35e+04	5.35e+04	0.000 RPD
5	DUP	S95T003320	0	W	IC-01	PO4-02	SOLID	3.92e+03	3.82e+03	2.580 RPD
5	DUP	S95T003320	0	W	IC-01	SO4-02	SOLID	5.33e+02	4.69e+02	12.770 RPD
5	DUP	S95T003320	0	W	IC-01	OXALATE2	SOLID	1.88e+03	1.87e+03	0.530 RPD
6	SPK	S95T003320	0	W	IC-01	F-02	SOLID	59	73.300	124.240 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

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LABCORE Completed Worklist Report for Worklist# 4381

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003320	0 W	@IC-01 CL-02	SOLID	79	76.041	96.250 %	Recovery
6 SPK	S95T003320	0 W	@IC-01 NO2-02	SOLID	536	504.602	94.140 %	Recovery
6 SPK	S95T003320	0 W	@IC-01 BR-02	SOLID	575	562.657	97.850 %	Recovery
6 SPK	S95T003320	0 W	@IC-01 NO3-02	SOLID	614	668.690	108.910 %	Recovery
6 SPK	S95T003320	0 W	@IC-01 PO4-02	SOLID	546	610.173	111.750 %	Recovery
6 SPK	S95T003320	0 W	@IC-01 SO4-02	SOLID	631	637.827	101.080 %	Recovery
6 SPK	S95T003320	0 W	@IC-01 OXALATE2	SOLID	525	554.505	105.620 %	Recovery
7 SAMPLE	S95T003321	0 W	@IC-01 F-02	SOLID	N/A	6.585e+03	25.950	ug/g
7 SAMPLE	S95T003321	0 W	@IC-01 CL-02	SOLID	N/A	6.784e+02	33.940	ug/g
7 SAMPLE	S95T003321	0 W	@IC-01 NO2-02	SOLID	N/A	3.450e+02	213.600	ug/g
7 SAMPLE	S95T003321	0 W	@IC-01 BR-02	SOLID	N/A	5.887e+02	251.500	ug/g
7 SAMPLE	S95T003321	0 W	@IC-01 NO3-02	SOLID	N/A	5.223e+04	279.500	ug/g
7 SAMPLE	S95T003321	0 W	@IC-01 PO4-02	SOLID	N/A	3.720e+03	237.600	ug/g
7 SAMPLE	S95T003321	0 W	@IC-01 SO4-02	SOLID	N/A	4.234e+02	271.500	ug/g
7 SAMPLE	S95T003321	0 W	@IC-01 OXALATE2	SOLID	N/A	1.856e+03	209.600	ug/g
8 DUP	S95T003321	0 W	@IC-01 F-02	SOLID	6.58e+03	6.81e+03	3.440	RPD
8 DUP	S95T003321	0 W	@IC-01 CL-02	SOLID	6.78e+02	6.20e+02	8.940	RPD
8 DUP	S95T003321	0 W	@IC-01 NO2-02	SOLID	3.45e+02	3.50e+02	1.440	RPD
8 DUP	S95T003321	0 W	@IC-01 BR-02	SOLID	5.89e+02	5.85e+02	0.680	RPD
8 DUP	S95T003321	0 W	@IC-01 NO3-02	SOLID	5.22e+04	5.23e+04	0.190	RPD
8 DUP	S95T003321	0 W	@IC-01 PO4-02	SOLID	3.72e+03	3.80e+03	2.130	RPD
8 DUP	S95T003321	0 W	@IC-01 SO4-02	SOLID	4.23e+02	9.87e+02	80.000	RPD
8 DUP	S95T003321	0 W	@IC-01 OXALATE2	SOLID	1.86e+03	1.85e+03	0.540	RPD

Final page for worklist# 4381

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

John F. Fyfe
Reviewer Signature _____ Date 1/4/96

LABCORE Data Entry Template for Worklist# 4381

Analyst: EAL Instrument: IC01 Book# 12219-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003320-21 FOR IC RTS.

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	S95T003320 0 W	@IC-01	SOLID	95000161 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003320 0 W	@IC-01	SOLID			
6 SPK	S95T003320 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003321 0 W	@IC-01	SOLID	95000161 B-204		
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003321 0 W	@IC-01	SOLID			

Final page for worklist # 4381

A. Lambel 01-04-96
Analyst Signature Date

Analyst Signature Date

*copies printed out of zone
uploaded & posted 1/4/96
Jann M. Luge
prints*

Data Entry Comments:

X Jann - See internal note.

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				04-Jan-96	
Worklist#: 4381				Data File: 4381JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1 CCB		-	1 96010331.d18	BLANK	1.00		
	=>	2 CCV			2 96010401.d20	122N9-A	101.00		
	=>	3 BLNK-PREP			3 96010401.d21	PREP BLANK	1.00		
	=>	4 SAMPLE	S95T003320		4 96010401.d22	S95T003320	11.00		
	=>	5 DUP	S95T003320		4 96010401.d23	S95T003320	7.66		
	=>	6 SPK	S95T003320		5 96010401.d24	S95T003320 DUP	11.00		
	=>	7 SAMPLE	S95T003321		6 96010401.d26	S95T003320 DUP	7.66		
	=>	8 DUP	S95T003321		6 96010401.d27	S95T003320 SPIK	11.00		
					5 96010401.d28	S95T003320 SPIK	7.66		
					7 96010401.d29	S95T003321	11.00		
					8 96010401.d30	S95T003321 DUP	11.00		
+				+					

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003320				04-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 4				
		[1]	[2]	[3]	[4]	[5]
		96010401.d22	96010401.d23			
		11.0000	7.6600			
F-02	1	35.6700				
CL-02	2		3.1350			
NO2-02	2		1.4890			
BR-02	2		1.9220			
NO3-02	1	272.1310				
PO4-02	2		19.9570			
SO4-02	2		2.7150			
OXALATE2	2		9.5650			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003320				04-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 5				
		[1]	[2]	[3]	[4]	[5]
		96010401.d24	96010401.d28			
		11.0000	7.6600			
F-02	1	35.3240				
CL-02	2		3.0900			
NO2-02	2		1.4860			
BR-02	2		1.9450			
NO3-02	1	274.2060				
PO4-02	2		19.5850			
SO4-02	2		2.4030			
OXALATE2	2		9.5970			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003320				04-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 6				
		[1]	[2]	[3]	[4]	[5]
		96010401.d26	96010401.d27			
		7.6600	11.0000			
F-02	2		42.9930			
CL-02	1	8.1990				
N02-02	1	35.0740				
BR-02	1	39.4000				
N03-02	2		339.2540			
P04-02	1	60.5720				
S04-02	1	45.1920				
OXALATE2	1	46.4670				

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-1		WORKLIST DATA ENTRY USING SODIUM::LIMS3				04-Jan-96	
I PROTOCOL DETAIL INFORMATION Seq: 5 Type: DUP Sample#: S95T003320 Aliquot: W Rep: 0							
Code	Name	Actual	Raw Found	Found	Yield	Q	
- F-02	Fluoride by IC	7.01e+03	35.324	6.89e+03	1.727		
CL-02	Chloride by IC	6.16e+02	3.09	6.04e+02	1.967		
N02-02	Nitrite by IC	2.92e+02	3.09	6.04e+02	69.643	*	
BR-02	Bromide by Ion	3.78e+02	3.09	6.04e+02	46.029	*	
N03-02	Nitrate by IC	5.35e+04	274.206	5.35e+04	0.000		
P04-02	Phosphate by I	3.92e+03	3.09	6.04e+02	146.596	*	
S04-02	Sulfate by IC	5.33e+02	3.09	6.04e+02	12.489		
OXALATE2	Oxalate by IC	1.88e+03	3.09	6.04e+02	102.738	*	
<Alt-Enter> Clear from cursor/move to next <Tab> Move to next							

QC Chart(F5) Defaults(F6) ClearRow(F7) Delete Row(F8) >

Program error propagating
 result from C1 line down
 the rest of that dilution.
 I hand corrected the
 error.

JM Lye
 1/4/96

< BEGINING OF LOG FILE >

Instrument Posting Engaged by

Posting Date 04-jan-1996 16:39:56

FILE OPEN TO READ: (/tmp/EIagJ1XAAZ)

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Thu Jan 4 16:39:58 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Thu Jan 4 16:39:58 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Thu Jan 4 16:39:58 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Thu Jan 4 16:39:58 19

FILE CLOSED: (/tmp/EIagJ1XAAZ)

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

*Errors in logload log**for WKL 4381**gmf
1/4/96*

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=====
Sample Name: BLANK                               Date: 01/04/1996 00:24:17
Data File  : C:\DX\DATA\96010331.D18           WHO-SD-WM-DP-16C, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 18           Detector: CDM-1
Analyst    : A. Lambel Column:
=====

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=====
                                01-04-96
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	3.20	NITRATE	0.173	30	210	1	-2.14
Totals			0.173	30	210		

File: 96010331.D18 Sample: BLANK

Data Reprocessed On 01/04/1996 01:56:48

Sample Name: 122N9-A Date: 01/04/1996 00:35:49
Data File : C:\DX\DATA\96010401.D20
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 20
Analyst : *A. Lumbel* Column: Detector: CDM-1

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	0.95		0.000	77	423	2	
2	1.07	FLUORIDE	62.942	1358	8094	2	0.00
4	1.57	CHLORIDE	76.693	1100	6617	1	-1.05
5	1.87	NITRITE	522.433	4831	31928	1	-1.23
6	2.75	BROMIDE	606.572	3232	23957	1	-3.39
7	3.13	NITRATE	643.277	3889	32871	1	-4.38
8	4.56	PHOSPHATE	584.159	1176	14938	1	-1.72
9	5.99	SULFATE	661.570	3274	45931	1	-1.54
10	7.83	OXALATE	560.645	1601	29283	1	-2.17
Totals			3718.291	20539	194042		

File: 96010401.D20 Sample: 122N9-A

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 678 TO 688.

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=====
Sample Name: 122N9-A                               Date: 01/04/1996 00:35:49
Data File  : C:\DX\DATA\96010401.D20
Method     : C:\DX\METHOD\KIT.MET                 WHO-SD-WM-DP-160, REV.1
ACI Address: 1 System: 1 Inject#: 20                Detector: CDM-1
Analyst    :                                     Column:
=====

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-----
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	1.07	FLUORIDE	73.140	1367	9425	1	-0.31
2	1.57	CHLORIDE	76.693	1100	6617	1	-1.05
3	1.87	NITRITE	522.433	4831	31928	1	-1.23
4	2.75	BROMIDE	606.572	3232	23957	1	-3.39
5	3.13	NITRATE	643.277	3889	32871	1	-4.38
6	4.56	PHOSPHATE	584.159	1176	14938	1	-1.72
7	5.99	SULFATE	661.570	3274	45931	1	-1.54
8	7.83	OXALATE	560.645	1601	29283	1	-2.17
Totals			3728.489	20471	194951		

File: 96010401.D20 Sample: 122N9-A

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=====
Sample Name: PREP BLANK                               Date: 01/04/1996 02:10:11
Data File  : C:\DX\DATA\96010401.D21
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 21
Analyst    : A. Lunkel Column:
=====

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=====
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
1	1.33		0.000	141	1630	1	
Totals			0.000	141	1630		

File: 96010401.D21 Sample: PREP BLANK

```

=====
Sample Name: S95T003320                               Date: 01/04/1996 02:21:29
Data File  : C:\DX\DATA\96010401.D22                   WFO-SD-WM-DP-165, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 22                     Detector: CDM-1
Analyst    :                                           Column:
=====

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```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11    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	1.07	FLUORIDE	35.670	7186	44658	1	0.31
2	1.57	CHLORIDE	3.355	433	2650	1	-1.47
3	1.87	NITRITE	1.898	49	276	1	-1.23
4	2.75	BROMIDE	2.190	71	452	1	-3.39
5	3.08	NITRATE	272.131	14620	135283	1	-5.81
6	4.57	PHOSPHATE	19.815	358	4462	1	-1.44
7	6.01	SULFATE	3.369	90	1248	1	-1.10
8	7.85	OXALATE	9.624	248	4442	1	-1.83
Totals			348.051	23055	193472		

File: 96010401.D22 Sample: S95T003320

```

=====
Sample Name: S95T003320                               Date: 01/04/1996 02:39:44
Data File  : C:\DX\DATA\96010401.D23
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 23
Analyst    :                                           Column:
=====

```

WHO-CD-WM-DP-160, REV. I
Detector: CDM-1

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          7.66  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	1.07	FLUORIDE	35.708	10702	66599	1	0.81
2	1.57	CHLORIDE	3.135	574	3558	1	-1.47
3	1.87	NITRITE	1.489	70	413	1	-1.23
4	2.75	BROMIDE	1.922	105	658	1	-3.39
5	3.06	NITRATE	276.938	21284	203931	1	-6.42
6	4.56	PHOSPHATE	19.957	518	6558	1	-1.72
7	6.01	SULFATE	2.715	115	1588	1	-1.10
8	7.85	OXALATE	9.565	359	6417	1	-1.83
Totals			351.429	33727	289721		

+ spike - would go out

File: 96010401.D23 Sample: S95T003320

```

=====
Sample Name: S95T003320  DUP                               Date: 01/04/1996 02:50:44
Data File  : C:\DX\DATA\96010401.D24                       VINC-SD-WM-DP-16C, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 24                      Detector: CDM-1
Analyst    :                                               Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.07	FLUORIDE	35.324	7185	44192	1	0.31
2	1.57	CHLORIDE	7.813	988	6187	1	-1.05
3	1.87	NITRITE	1.884	45	268	1	-1.23
4	2.76	BROMIDE	2.244	71	471	1	-3.16
5	3.08	NITRATE	274.206	14663	136384	1	-5.81
6	4.56	PHOSPHATE	21.372	383	4830	1	-1.72
7	6.01	SULFATE	3.409	105	1274	1	-1.10
8	7.85	OXALATE	9.520	247	4392	1	-1.83
Totals			355.773	23687	197998		

File: 96010401.D24 Sample: S95T003320 DUP

Data Reprocessed On 01/04/1996 15:12:34

Sample Name: S95T003320 DUP Date: 01/04/1996 03:05:39
Data File : C:\DX\DATA\96010401.d26
Method : C:\DX\METHOD\KIT.MET VHC-SD-WM-DP-16C, REV. /
ACI Address: 1 System: 1 Inject#: 26 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 7.66 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	1.09	FLUORIDE	40.623	12110	77152	1	2.18
2	1.59	CHLORIDE	8.199	1521	9355	1	-0.21
3	1.89	NITRITE	35.074	4237	28147	1	-0.18
4	2.77	BROMIDE	39.400	3014	20416	1	-2.92
5	3.07	NITRATE	316.109	24431	236182	1	-6.01
6	4.57	PHOSPHATE	60.572	1620	20623	1	-1.44
7	6.01	SULFATE	45.192	2971	41210	1	-1.10
8	7.85	OXALATE	46.467	1771	32039	1	-1.83
Totals			591.636	51674	465124		

File: 96010401.d26 Sample: S95T003320 DUP

Data Reprocessed On 01/04/1996 15:12:36

Sample Name: S95T003320 SPIKE Date: 01/04/1996 03:16:46
Data File : C:\DX\DATA\96010401.d27
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 27 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.07	FLUORIDE	42.993	8625	54732	1	0.31
2	1.57	CHLORIDE	11.113	1456	8825	1	-1.47
3	1.87	NITRITE	52.419	4465	29334	1	-1.23
4	2.75	BROMIDE	59.662	3122	21565	1	-3.63
5	3.07	NITRATE	339.254	18390	171440	1	-6.22
6	4.56	PHOSPHATE	78.483	1475	18546	1	-1.72
7	5.99	SULFATE	72.583	3130	46282	1	-1.54
8	7.83	OXALATE	65.326	1742	31357	1	-2.17
Totals			721.833	42404	382082		

File: 96010401.d27 Sample: S95T003320 SPIKE

```

=====
Sample Name: S95T003320 SPIKE DUP          Date: 01/04/1996 03:27:38
Data File  : C:\DX\DATA\96010401.D28          WHO-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 28           Detector: CDM-1
Analyst    :                               Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          7.66   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	1.09	FLUORIDE	35.131	10673	65387	1	1.56
2	1.59	CHLORIDE	3.090	577	3507	1	-0.21
3	1.88	NITRITE	1.486	71	410	1	-0.53
4	2.77	BROMIDE	1.945	105	670	1	-2.69
5	3.08	NITRATE	272.058	21153	199982	1	-5.81
6	4.59	PHOSPHATE	19.585	518	6431	1	-1.15
7	6.01	SULFATE	2.403	101	1301	1	-1.10
8	6.60		0.000	34	941	1	
9	7.88	OXALATE	9.597	359	6439	1	-1.50
Totals			345.295	33591	285068		

File: 96010401.D28 Sample: S95T003320 SPIKE

$$\frac{11}{(11)(11)} = 10$$

$$\frac{11.5}{(11)(7.66)} = 15.013$$

Jm1 Page 1/17/96

```

=====
Sample Name: S95T003321                               Date: 01/04/1996 03:38:25
Data File  : C:\DX\DATA\96010401.D29
Method     : C:\DX\METHOD\KIT.MET                    YHC-CD-WM-DP-16C, REV. /
ACI Address: 1 System: 1 Inject#: 29                  Detector: CDM-1
Analyst    :                                           Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11  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	1.07	FLUORIDE	36.285	7445	45491	1	0.31
2	1.57	CHLORIDE	3.738	475	2953	1	-1.47
3	1.87	NITRITE	1.901	49	278	1	-1.23
4	2.75	BROMIDE	3.244	122	833	1	-3.39
5	3.08	NITRATE	287.777	15439	143606	1	-5.81
6	4.57	PHOSPHATE	20.489	368	4621	1	-1.44
7	6.01	SULFATE	2.333	48	585	1	-1.10
8	6.63		0.000	63	1922	1	
9	7.85	OXALATE	10.226	257	4731	1	-1.83
Totals			365.992	24266	205020		

File: 96010401.D29 Sample: S95T003321

```

=====
Sample Name: S95T003321 DUP                      Date: 01/04/1996 03:49:37
Data File  : C:\DX\DATA\96010401.D30             YINC SD-VM-DP-160, REV. /
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 30              Detector: CDM-1
Analyst    :                                     Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.07	FLUORIDE	37.457	7525	47084	1	0.31
2	1.57	CHLORIDE	3.412	439	2695	1	-1.47
3	1.87	NITRITE	1.923	48	290	1	-1.23
4	2.75	BROMIDE	3.216	124	823	1	-3.39
5	3.07	NITRATE	287.685	15579	143557	1	-6.01
6	4.56	PHOSPHATE	20.908	373	4720	1	-1.72
7	6.04	SULFATE	5.429	85	2568	1	-0.66
8	7.85	OXALATE	10.168	263	4703	1	-1.83
Totals			370.198	24435	206441		

File: 96010401.D30 Sample: S95T003321 DUP

LABCORE Completed Worklist Report for Worklist# 4382

Analyst: eal

Instrument: IC01

Book# 12214A

Method: 6.2-533-705 Rev/Mod D-1

Worklist Comment: B-204 S95T003324-25 FOR IC RTS.

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB	0	0	0	IC-QC	F	QC	1	<1.30e-2	ug/mL
1	CCB	0	0	0	IC-QC	CL	QC	1	<1.70e-2	ug/mL
1	CCB	0	0	0	IC-QC	NO2	QC	1	<1.07e-1	ug/mL
1	CCB	0	0	0	IC-QC	BR	QC	1	<1.26e-1	ug/mL
1	CCB	0	0	0	IC-QC	NO3	QC	1	2.17e-01	0.220 ug/mL
1	CCB	0	0	0	IC-QC	PO4	QC	1	<1.19e-1	ug/mL
1	CCB	0	0	0	IC-QC	SO4	QC	1	<1.36e-1	ug/mL
1	CCB	0	0	0	IC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL
2	CCV	0	0	0	IC-QC	F	QC	59	6.38e+01	108.140 % Recovery
2	CCV	0	0	0	IC-QC	CL	QC	79	7.60e+01	96.200 % Recovery
2	CCV	0	0	0	IC-QC	NO2	QC	536	5.23e+02	97.570 % Recovery
2	CCV	0	0	0	IC-QC	BR	QC	575	5.97e+02	103.830 % Recovery
2	CCV	0	0	0	IC-QC	NO3	QC	614	6.51e+02	106.030 % Recovery
2	CCV	0	0	0	IC-QC	PO4	QC	546	5.80e+02	106.230 % Recovery
2	CCV	0	0	0	IC-QC	SO4	QC	631	6.59e+02	104.440 % Recovery
2	CCV	0	0	0	IC-QC	OXALATE2	QC	525	5.59e+02	106.480 % Recovery
3	BLNK-PREP	0	0	0	IC-01	F-02	SOLID	1	<1.30e-2	ug/g
3	BLNK-PREP	0	0	0	IC-01	CL-02	SOLID	1	<1.70e-2	ug/g
3	BLNK-PREP	0	0	0	IC-01	NO2-02	SOLID	1	<1.07e-1	ug/g
3	BLNK-PREP	0	0	0	IC-01	BR-02	SOLID	1	<1.26e-1	ug/g
3	BLNK-PREP	0	0	0	IC-01	NO3-02	SOLID	1	<1.40e-1	ug/g
3	BLNK-PREP	0	0	0	IC-01	PO4-02	SOLID	1	<1.19e-1	ug/g
3	BLNK-PREP	0	0	0	IC-01	SO4-02	SOLID	1	<1.36e-1	ug/g
3	BLNK-PREP	0	0	0	IC-01	OXALATE2	SOLID	1	<1.05e-1	ug/g
4	SAMPLE	S95T003324	0	W	IC-01	F-02	SOLID	N/A	6.985e+03	24.720 ug/g
4	SAMPLE	S95T003324	0	W	IC-01	CL-02	SOLID	N/A	6.589e+02	32.330 ug/g
4	SAMPLE	S95T003324	0	W	IC-01	NO2-02	SOLID	N/A	3.336e+02	203.500 ug/g
4	SAMPLE	S95T003324	0	W	IC-01	BR-02	SOLID	N/A	7.865e+02	239.600 ug/g
4	SAMPLE	S95T003324	0	W	IC-01	NO3-02	SOLID	N/A	5.450e+04	266.200 ug/g
4	SAMPLE	S95T003324	0	W	IC-01	PO4-02	SOLID	N/A	3.449e+03	226.300 ug/g
4	SAMPLE	S95T003324	0	W	IC-01	SO4-02	SOLID	N/A	4.223e+02	258.600 ug/g
4	SAMPLE	S95T003324	0	W	IC-01	OXALATE2	SOLID	N/A	1.884e+03	199.600 ug/g
5	DUP	S95T003324	0	W	IC-01	F-02	SOLID	6.98e+03	6.87e+03	1.590 RPD
5	DUP	S95T003324	0	W	IC-01	CL-02	SOLID	6.59e+02	6.25e+02	5.300 RPD
5	DUP	S95T003324	0	W	IC-01	NO2-02	SOLID	3.34e+02	3.40e+02	1.780 RPD
5	DUP	S95T003324	0	W	IC-01	BR-02	SOLID	7.86e+02	8.02e+02	2.020 RPD
5	DUP	S95T003324	0	W	IC-01	NO3-02	SOLID	5.45e+04	5.38e+04	1.290 RPD
5	DUP	S95T003324	0	W	IC-01	PO4-02	SOLID	3.45e+03	3.44e+03	0.290 RPD
5	DUP	S95T003324	0	W	IC-01	SO4-02	SOLID	4.22e+02	4.20e+02	0.480 RPD
5	DUP	S95T003324	0	W	IC-01	OXALATE2	SOLID	1.88e+03	1.87e+03	0.530 RPD
6	SPK	S95T003324	0	W	IC-01	F-02	SOLID	59	68.890	116.760 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4382

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S95T003324	0	W	@IC-01	CL-02	SOLID	79	74.880	94.780 % Recovery
6	SPK	S95T003324	0	W	@IC-01	NO2-02	SOLID	536	508.700	94.910 % Recovery
6	SPK	S95T003324	0	W	@IC-01	BR-02	SOLID	575	582.500	101.300 % Recovery
6	SPK	S95T003324	0	W	@IC-01	NO3-02	SOLID	614	676.910	110.250 % Recovery
6	SPK	S95T003324	0	W	@IC-01	PO4-02	SOLID	546	586.450	107.410 % Recovery
6	SPK	S95T003324	0	W	@IC-01	SO4-02	SOLID	631	647.570	102.630 % Recovery
6	SPK	S95T003324	0	W	@IC-01	OXALATE2	SOLID	525	560.010	106.670 % Recovery
7	SAMPLE	S95T003325	0	W	@IC-01	F-02	SOLID	N/A	6.711e+03	27.050 ug/g
7	SAMPLE	S95T003325	0	W	@IC-01	CL-02	SOLID	N/A	6.148e+02	35.380 ug/g
7	SAMPLE	S95T003325	0	W	@IC-01	NO2-02	SOLID	N/A	3.439e+02	222.700 ug/g
7	SAMPLE	S95T003325	0	W	@IC-01	BR-02	SOLID	N/A	8.818e+02	262.200 ug/g
7	SAMPLE	S95T003325	0	W	@IC-01	NO3-02	SOLID	N/A	5.189e+04	291.300 ug/g
7	SAMPLE	S95T003325	0	W	@IC-01	PO4-02	SOLID	N/A	3.300e+03	247.600 ug/g
7	SAMPLE	S95T003325	0	W	@IC-01	SO4-02	SOLID	N/A	4.529e+02	283.000 ug/g
7	SAMPLE	S95T003325	0	W	@IC-01	OXALATE2	SOLID	N/A	1.748e+03	218.500 ug/g
8	DUP	S95T003325	0	W	@IC-01	F-02	SOLID	6.71e+03	6.79e+03	1.190 RPD
8	DUP	S95T003325	0	W	@IC-01	CL-02	SOLID	6.15e+02	6.39e+02	3.830 RPD
8	DUP	S95T003325	0	W	@IC-01	NO2-02	SOLID	3.44e+02	3.32e+02	3.550 RPD
8	DUP	S95T003325	0	W	@IC-01	BR-02	SOLID	8.82e+02	8.84e+02	0.230 RPD
8	DUP	S95T003325	0	W	@IC-01	NO3-02	SOLID	5.19e+04	5.25e+04	1.150 RPD
8	DUP	S95T003325	0	W	@IC-01	PO4-02	SOLID	3.30e+03	3.45e+03	4.440 RPD
8	DUP	S95T003325	0	W	@IC-01	SO4-02	SOLID	4.53e+02	3.55e+02	24.260 RPD
8	DUP	S95T003325	0	W	@IC-01	OXALATE2	SOLID	1.75e+03	1.77e+03	1.140 RPD

Final page for worklist# 4382

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date _____

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				05-Jan-96			
Worklist#: 4382				Data File: 4382JAN.CSV							
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-	1	96010321.d01	BLANK		1.00	
	=>	2	CCV			2	96010331.d02	122N9-A STD.		101.00	
	=>	3	BLNK-PREP			3	96010331.d03	PREP BLANK		1.00	
	=>	4	SAMPLE	S95T003324		4	96010331.d04	S95T003324		11.00	
	=>	5	DUP	S95T003324		5	96010331.d05	S95T003324 DUP		11.00	
	=>	6	SPK	S95T003324		6	96010331.d06	S95T003324 SPIKE		11.00	
	=>	7	SAMPLE	S95T003325		7	96010331.d07	S95T003325		11.00	
	=>	8	DUP	S95T003325		8	96010331.d08	S95T003325 DUP		11.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

LABCORE Data Entry Template for Worklist# 4382

Analyst: EAL Instrument: IC01 Book# 12219-4

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003324-25 FOR IC RTS.

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	S95T003324 0 W			@IC-01	SOLID	95000161	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S95T003324 0 W			@IC-01	SOLID		
6	SPK	S95T003324 0 W			@IC-01	SOLID		
7	SAMPLE	S95T003325 0 W			@IC-01	SOLID	95000161	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S95T003325 0 W			@IC-01	SOLID		

Final page for worklist # 4382

A. Lambert 01.03.96
Analyst Signature Date

Analyst Signature Date

Copies printed out of zone

Uploaded & posted 1/5/96
Jan M. Lutz

Data Entry Comments:

```

=====
Sample Name: BLANK                               Date: 01/03/1996 19:36:32
Data File  : C:\DX\DATA\96010321.D01
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1              Detector: CDM-1
Analyst    : A. Langel 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
1	3.19	NITRATE	0.217	62	442	1	-2.55
Totals			0.217	62	442		

File: 96010321.D01 Sample: BLANK

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 693 TO 704.

```

=====
Sample Name: 122N9-A STD.                      Date: 01/03/1996 19:49:21
Data File  : C:\DX\DATA\96010331.D02
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2             Detector: CDM-1
Analyst    : A. Lambert                      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
2	1.09	FLUORIDE	63.814	1323	8207	1	1.56
3	1.59	CHLORIDE	76.021	1087	6559	1	0.21
4	1.89	NITRITE	523.086	4836	31969	1	0.18
5	2.79	BROMIDE	597.407	3207	23584	1	-2.22
6	3.17	NITRATE	651.326	3893	33297	1	-3.16
7	4.57	PHOSPHATE	579.747	1172	14821	1	-1.44
8	6.01	SULFATE	659.088	3266	45753	1	-1.10
9	7.85	OXALATE	559.271	1587	29211	1	-1.83
Totals			3709.760	20371	193401		

File: 96010331.D02 Sample: 122N9-A STD.

```

=====
Sample Name: PREP BLANK                               Date: 01/03/1996 20:04:12
Data File  : C:\DX\DATA\96010331.D03
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3                   Detector: CDM-1
Analyst    : A. Lambel                               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
1	1.31		0.000	146	1675	1	
Totals			0.000	146	1675		

File: 96010331.D03 Sample: PREP BLANK

Sample Name: S95T003324 SPIKE
 Data File : C:\DX\DATA\96010331.D06
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 6
 Analyst : *A. Lumbel* Column:

Date: 01/03/1996 20:50:06

Detector: CDM-1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.09	FLUORIDE	47.313	9739	60854	1	1.56
2	1.59	CHLORIDE	11.301	1479	8975	1	-0.21
3	1.89	NITRITE	52.763	4484	29533	1	-0.18
4	2.77	BROMIDE	62.776	3278	22728	1	-2.69
5	3.09	NITRATE	382.879	20584	195601	1	-5.61
6	4.59	PHOSPHATE	78.573	1480	18568	1	-1.15
7	6.01	SULFATE	67.179	3048	42714	1	-1.10
8	7.85	OXALATE	66.948	1762	32146	1	-1.83
Totals			769.731	45854	411119		

File: 96010331.D06 Sample: S95T003324 SPIKE

Data Reprocessed On 01/04/1996 15:21:52

```
=====
Sample Name: BLANK                      Date: 01/03/1996 19:36:32
Data File  : C:\DX\DATA\96010321.d01
Method     : C:\DX\METHOD\KIT.MET      VHS-CD-WM-DP-16C, REV. I
ACI Address: 1 System: 1 Inject#: 1
Analyst    :                          Detector: CDM-1
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
1	3.19	NITRATE	0.217	62	442	1	-2.55
Totals			0.217	62	442		

File: 96010321.d01 Sample: BLANK

Data Reprocessed On 01/04/1996 15:21:54

Sample Name: 122N9-A STD.

Date: 01/03/1996 19:49:21

Data File : C:\DX\DATA\96010331.d02

YMC CD-VII-DP-160, REV. I

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 2

Detector: CDM-1

Analyst : 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
2	1.09	FLUORIDE	63.814	1323	8207	1	1.56
3	1.59	CHLORIDE	76.021	1087	6559	1	0.21
4	1.89	NITRITE	523.086	4836	31969	1	0.18
5	2.79	BROMIDE	597.407	3207	23584	1	-2.22
6	3.17	NITRATE	651.326	3893	33297	1	-3.16
7	4.57	PHOSPHATE	579.747	1172	14821	1	-1.44
8	6.01	SULFATE	659.088	3266	45753	1	-1.10
9	7.85	OXALATE	559.271	1587	29211	1	-1.83
Totals			3709.760	20371	193401		

File: 96010331.d02 Sample: 122N9-A STD.

Data Reprocessed On 01/04/1996 15:21:57

```
=====
Sample Name: PREP BLANK                      Date: 01/03/1996 20:04:12
Data File  : C:\DX\DATA\96010331.d03        WHO-CD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3          Detector: CDM-1
Analyst    :                               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
1	1.31		0.000	146	1675	1	
Totals			0.000	146	1675		

File: 96010331.d03 Sample: PREP BLANK

Data Reprocessed On 01/04/1996 15:21:58

```
=====
Sample Name: S95T003324                      Date: 01/03/1996 20:18:31
Data File  : C:\DX\DATA\96010331.d04
Method     : C:\DX\METHOD\KIT.MET           YMC CD-WM-DP-16C, REV. I
ACI Address: 1 System: 1 Inject#: 4          Detector: CDM-1
Analyst    :                               Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11  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	1.07	FLUORIDE	40.411	8200	51139	1	0.31
2	1.57	CHLORIDE	3.812	492	3011	1	-1.05
3	1.87	NITRITE	1.930	49	294	1	-1.23
4	2.77	BROMIDE	4.550	196	1306	1	-2.92
5	3.08	NITRATE	315.309	16813	158405	1	-5.81
6	4.57	PHOSPHATE	19.955	359	4495	1	-1.44
7	6.01	SULFATE	2.443	48	655	1	-1.10
8	7.88	OXALATE	10.899	277	5054	1	-1.50
Totals			399.309	26434	224361		

File: 96010331.d04 Sample: S95T003324

Data Reprocessed On 01/04/1996 15:22:01

Sample Name: S95T003324 DUP

Date: 01/03/1996 20:35:40

Data File : C:\DX\DATA\96010331.d05

YMC SD-WM-DP-16C, REV. I

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 5

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.09	FLUORIDE	37.617	7617	47302	1	1.56
2	1.59	CHLORIDE	3.423	444	2704	1	0.21
3	1.89	NITRITE	1.863	44	256	1	-0.18
4	2.79	BROMIDE	4.392	184	1249	1	-2.22
5	3.11	NITRATE	294.713	15917	147316	1	-4.99
6	4.59	PHOSPHATE	18.818	340	4226	1	-1.15
7	6.04	SULFATE	2.299	41	564	1	-0.66
8	7.88	OXALATE	10.223	258	4730	1	-1.50
Totals			373.349	24843	208346		

File: 96010331.d05 Sample: S95T003324 DUP

Data Reprocessed On 01/04/1996 15:22:03

Sample Name: S95T003324 SPIKE

Date: 01/03/1996 20:50:06

Data File : C:\DX\DATA\96010331.d06

Method : C:\DX\METHOD\KIT.MET

YWC-SD-WM-DP-16C, REV. I

ACI Address: 1 System: 1 Inject#: 6

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.09	FLUORIDE	47.313	9739	60854	1	1.56
2	1.59	CHLORIDE	11.301	1479	8975	1	-0.21
3	1.89	NITRITE	52.763	4484	29533	1	-0.18
4	2.77	BROMIDE	62.776	3278	22728	1	-2.69
5	3.09	NITRATE	382.879	20584	195601	1	-5.61
6	4.59	PHOSPHATE	78.573	1480	18568	1	-1.15
7	6.01	SULFATE	67.179	3048	42714	1	-1.10
8	7.85	OXALATE	66.948	1762	32146	1	-1.83
Totals			769.731	45854	411119		

File: 96010331.d06 Sample: S95T003324 SPIKE

Data Reprocessed On 01/04/1996 15:22:05

Sample Name: S95T003325

Date: 01/03/1996 21:03:22

Data File : C:\DX\DATA\96010331.d07

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-160, REV./

ACI Address: 1 System: 1 Inject#: 7

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	35.475	7059	44395	1	0.31
2	1.57	CHLORIDE	3.250	420	2567	1	-1.05
3	1.86	NITRITE	1.818	40	230	1	-1.59
4	2.76	BROMIDE	4.661	200	1346	1	-3.16
5	3.08	NITRATE	274.305	14854	136436	1	-5.81
6	4.57	PHOSPHATE	17.446	320	3902	1	-1.44
7	6.01	SULFATE	2.394	45	624	1	-1.10
8	7.88	OXALATE	9.238	242	4257	1	-1.50
Totals			348.587	23178	193758		

File: 96010331.d07 Sample: S95T003325

Data Reprocessed On 01/04/1996 15:22:07

Sample Name: S95T003325 DUP Date: 01/03/1996 21:14:26
Data File : C:\DX\DATA\96010331.d08 VHC-SD-WM-DP-16C, REV.1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.09	FLUORIDE	37.483	7437	47119	1	1.56
2	1.59	CHLORIDE	3.524	453	2783	1	-0.21
3	1.88	NITRITE	1.830	42	237	1	-0.53
4	2.78	BROMIDE	4.878	212	1425	1	-2.46
5	3.10	NITRATE	289.604	15654	144582	1	-5.20
6	4.59	PHOSPHATE	19.056	341	4282	1	-1.15
7	6.04	SULFATE	1.958	31	345	1	-0.66
8	7.91	OXALATE	9.775	252	4515	1	-1.17
Totals			368.108	24421	205289		

File: 96010331.d08 Sample: S95T003325 DUP

LABCORE Completed Worklist Report for Worklist# 4383

Analyst: eal

Instrument: IC01

Book# 127119A

Method: A2533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003326-27 FOR IC RTS.

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	IC-QC F	QC	1	<1.30e-2		ug/mL
1 CCB	0	0	IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	0	IC-QC NO2	QC	1	<1.07e-1		ug/mL
1 CCB	0	0	IC-QC BR	QC	1	<1.26e-1		ug/mL
1 CCB	0	0	IC-QC NO3	QC	1	1.85e-01	0.190	ug/mL
1 CCB	0	0	IC-QC PO4	QC	1	<1.19e-1		ug/mL
1 CCB	0	0	IC-QC SO4	QC	1	<1.36e-1		ug/mL
1 CCB	0	0	IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	0	IC-QC F	QC	59	6.10e+01	103.390	% Recovery
2 CCV	0	0	IC-QC CL	QC	79	7.55e+01	95.570	% Recovery
2 CCV	0	0	IC-QC NO2	QC	536	5.22e+02	97.390	% Recovery
2 CCV	0	0	IC-QC BR	QC	575	6.01e+02	104.520	% Recovery
2 CCV	0	0	IC-QC NO3	QC	614	6.31e+02	102.770	% Recovery
2 CCV	0	0	IC-QC PO4	QC	546	5.77e+02	105.680	% Recovery
2 CCV	0	0	IC-QC SO4	QC	631	6.43e+02	101.900	% Recovery
2 CCV	0	0	IC-QC OXALATE2	QC	525	5.58e+02	106.290	% Recovery
3 BLNK-PREP	0	0	IC-01 F-02	SOLID	1	<1.30e-2		ug/g
3 BLNK-PREP	0	0	IC-01 CL-02	SOLID	1	<1.70e-2		ug/g
3 BLNK-PREP	0	0	IC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3 BLNK-PREP	0	0	IC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3 BLNK-PREP	0	0	IC-01 NO3-02	SOLID	1	1.82e-01	0.180	ug/g
3 BLNK-PREP	0	0	IC-01 PO4-02	SOLID	1	<1.19e-1		ug/g
3 BLNK-PREP	0	0	IC-01 SO4-02	SOLID	1	<1.36e-1		ug/g
3 BLNK-PREP	0	0	IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S95T003326	0 W	IC-01 F-02	SOLID	N/A	6.832e+03	27.350	ug/g
4 SAMPLE	S95T003326	0 W	IC-01 CL-02	SOLID	N/A	6.420e+02	35.760	ug/g
4 SAMPLE	S95T003326	0 W	IC-01 NO2-02	SOLID	N/A	3.473e+02	225.100	ug/g
4 SAMPLE	S95T003326	0 W	IC-01 BR-02	SOLID	N/A	6.447e+02	265.100	ug/g
4 SAMPLE	S95T003326	0 W	IC-01 NO3-02	SOLID	N/A	5.427e+04	294.500	ug/g
4 SAMPLE	S95T003326	0 W	IC-01 PO4-02	SOLID	N/A	3.328e+03	250.300	ug/g
4 SAMPLE	S95T003326	0 W	IC-01 SO4-02	SOLID	N/A	4.332e+02	286.100	ug/g
4 SAMPLE	S95T003326	0 W	IC-01 OXALATE2	SOLID	N/A	1.864e+03	220.900	ug/g
5 DUP	S95T003326	0 W	IC-01 F-02	SOLID	6.83e+03	7.52e+03	9.620	RPD
5 DUP	S95T003326	0 W	IC-01 CL-02	SOLID	6.42e+02	7.73e+02	18.520	RPD
5 DUP	S95T003326	0 W	IC-01 NO2-02	SOLID	3.47e+02	3.51e+02	1.150	RPD
5 DUP	S95T003326	0 W	IC-01 BR-02	SOLID	6.45e+02	6.98e+02	7.890	RPD
5 DUP	S95T003326	0 W	IC-01 NO3-02	SOLID	5.43e+04	5.83e+04	7.100	RPD
5 DUP	S95T003326	0 W	IC-01 PO4-02	SOLID	3.33e+03	3.59e+03	7.510	RPD
5 DUP	S95T003326	0 W	IC-01 SO4-02	SOLID	4.33e+02	4.20e+02	3.050	RPD
5 DUP	S95T003326	0 W	IC-01 OXALATE2	SOLID	1.86e+03	1.97e+03	5.740	RPD
6 SPK	S95T003326	0 W	IC-01 F-02	SOLID	59	78.730	133.440	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4383

Seq Type	Sample# R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003326 0 W	①IC-01 CL-02	SOLID	79	74.430	94.220 %	Recovery
6 SPK	S95T003326 0 W	①IC-01 NO2-02	SOLID	536	510.840	95.310 %	Recovery
6 SPK	S95T003326 0 W	①IC-01 BR-02	SOLID	575	584.290	101.620 %	Recovery
6 SPK	S95T003326 0 W	①IC-01 NO3-02	SOLID	614	672.120	109.470 %	Recovery
6 SPK	S95T003326 0 W	①IC-01 PO4-02	SOLID	546	612.970	112.270 %	Recovery
6 SPK	S95T003326 0 W	①IC-01 SO4-02	SOLID	631	650.350	103.070 %	Recovery
6 SPK	S95T003326 0 W	①IC-01 OXALATE2	SOLID	525	560.550	106.770 %	Recovery
7 SAMPLE	S95T003327 0 W	①IC-01 F-02	SOLID	N/A	6.742e+03	26.440 ug/g	
7 SAMPLE	S95T003327 0 W	①IC-01 CL-02	SOLID	N/A	6.307e+02	34.570 ug/g	
7 SAMPLE	S95T003327 0 W	①IC-01 NO2-02	SOLID	N/A	3.430e+02	217.600 ug/g	
7 SAMPLE	S95T003327 0 W	①IC-01 BR-02	SOLID	N/A	7.415e+02	256.300 ug/g	
7 SAMPLE	S95T003327 0 W	①IC-01 NO3-02	SOLID	N/A	5.325e+04	284.800 ug/g	
7 SAMPLE	S95T003327 0 W	①IC-01 PO4-02	SOLID	N/A	3.202e+03	242.000 ug/g	
7 SAMPLE	S95T003327 0 W	①IC-01 SO4-02	SOLID	N/A	9.902e+02	276.600 ug/g	
7 SAMPLE	S95T003327 0 W	①IC-01 OXALATE2	SOLID	N/A	1.781e+03	213.600 ug/g	
8 DUP	S95T003327 0 W	①IC-01 F-02	SOLID	6.74e+03	7.03e+03	4.210 RPD	
8 DUP	S95T003327 0 W	①IC-01 CL-02	SOLID	6.31e+02	1.18e+03	60.630 RPD	
8 DUP	S95T003327 0 W	①IC-01 NO2-02	SOLID	3.43e+02	3.42e+02	0.290 RPD	
8 DUP	S95T003327 0 W	①IC-01 BR-02	SOLID	7.42e+02	7.70e+02	3.700 RPD	
8 DUP	S95T003327 0 W	①IC-01 NO3-02	SOLID	5.32e+04	5.49e+04	3.150 RPD	
8 DUP	S95T003327 0 W	①IC-01 PO4-02	SOLID	3.20e+03	3.46e+03	7.810 RPD	
8 DUP	S95T003327 0 W	①IC-01 SO4-02	SOLID	9.90e+02	4.65e+02	72.160 RPD	
8 DUP	S95T003327 0 W	①IC-01 OXALATE2	SOLID	1.78e+03	1.86e+03	4.400 RPD	

Final page for worklist# 4383

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James M. Lyle
Reviewer Signature _____ Date 1/5/96

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				05-Jan-96			
Worklist#: 4383					Data File: 4383JAN.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-	1	96010401.d31	BLANK		1.00	
	=>	2	CCV			2	96010401.d32	122N9-A STD.		101.00	
	=>	3	BLNK-PREP			3	96010401.d34	PREP BLANK		1.00	
	=>	4	SAMPLE	S95T003326		4	96010401.d35	S95T003326		11.00	
	=>	5	DUP	S95T003326		5	96010401.d36	S95T003326 DUP		11.00	
	=>	6	SPK	S95T003326		6	96010401.d37	S95T003326 SPIKE		11.00	
	=>	7	SAMPLE	S95T003327		7	96010401.d38	S95T003327		11.00	
	=>	8	DUP	S95T003327		8	96010401.d39	S95T003327 DUP		11.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

< BEGINING OF LOG FILE >

Instrument Posting Engaged by

Posting Date 05-jan-1996 10:31:56

FILE OPEN TO READ: (/tmp/ESTgJ1XAAq)

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Fri Jan 5 10:32:01 19

FILE CLOSED: (/tmp/ESTgJ1XAAq)

FILE POSTING: /tmp/ESTgJ1XAAq (05-jan-1996 10:32:54)

Record (1) QC posted.

Record (2) QC posted.

Record (3) QC posted.

Record (4) QC posted.

Record (5) QC posted.

Record (6) QC posted.

Record (7) QC posted.

Record (8) QC posted.

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

Data Reprocessed On 01/05/1996 15:37:29

Sample Name: BLANK Date: 01/04/1996 04:00:30
Data File : C:\DX\DATA\96010401.d31 WHC-SD-WM-DP-160, REV. I
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 31 Detector: CDM-1
Analyst : *John J. [Signature]* Column: *2/28/96*

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
1	0.94		0.000	23	147	1	
3	3.16	NITRATE	0.185	39	272	1	-3.36
4	6.52		0.000	48	1564	1	
Totals			0.185	109	1983		

File: 96010401.d31 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 709 TO ____.

Data Reprocessed On 01/05/1996 15:37:31

Sample Name: 122N9-A STD.

Date: 01/04/1996 04:12:23

Data File : C:\DX\DATA\96010401.d32

WHC-SD-WM-DP-160, REV. I

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 32

Detector: CDM-1

Analyst : 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
2	1.07	FLUORIDE	60.973	1298	7837	2	0.31
3	1.57	CHLORIDE	75.500	1074	6514	1	-1.05
4	1.87	NITRITE	521.715	4718	31883	1	-1.23
5	2.75	BROMIDE	600.952	3163	23728	1	-3.39
6	3.13	NITRATE	631.274	3796	32237	1	-4.18
7	4.56	PHOSPHATE	577.153	1153	14753	1	-1.72
8	5.99	SULFATE	643.253	3207	44613	1	-1.54
9	7.83	OXALATE	558.465	1570	29168	1	-2.17
Totals			3669.285	19977	190733		

File: 96010401.d32 Sample: 122N9-A STD.

Data Reprocessed On 01/05/1996 15:37:33

```
=====
Sample Name: PREP BLANK                      Date: 01/04/1996 04:23:51
Data File  : C:\DX\DATA\96010401.d34         WHC-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 34          Detector: CDM-1
Analyst    :                               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
1	1.31		0.000	138	1562	1	
2	3.17	NITRATE	0.182	38	258	1	-2.96
Totals			0.182	175	1820		

File: 96010401.d34 Sample: PREP BLANK

Data Reprocessed On 01/05/1996 15:37:35

Sample Name: S95T003326 Date: 01/04/1996 04:34:42
Data File : C:\DX\DATA\96010401.d35 WHC-SD-WM-DP-160, REV. ()
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 35 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.07	FLUORIDE	35.727	7357	44735	1	0.31
2	1.57	CHLORIDE	3.357	423	2652	1	-1.47
3	1.87	NITRITE	1.816	40	229	1	-1.23
4	2.75	BROMIDE	3.371	132	879	1	-3.39
5	3.09	NITRATE	283.788	15258	141478	1	-5.61
6	4.56	PHOSPHATE	17.403	311	3892	1	-1.72
7	5.99	SULFATE	2.265	40	541	1	-1.54
8	7.85	OXALATE	9.745	249	4500	1	-1.83
Totals			357.471	23810	198907		

File: 96010401.d35 Sample: S95T003326

Data Reprocessed On 01/05/1996 15:37:37

Sample Name: S95T003326 DUP Date: 01/04/1996 04:45:32
Data File : C:\DX\DATA\96010401.d36 VHC-SD-WM-DP-160, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 36 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.09	FLUORIDE	39.935	8166	50481	1	1.56
2	1.59	CHLORIDE	4.102	529	3241	1	-0.21
3	1.88	NITRITE	1.863	45	256	1	-0.53
4	2.79	BROMIDE	3.708	148	1001	1	-2.22
5	3.10	NITRATE	309.668	16855	155357	1	-5.20
6	4.59	PHOSPHATE	19.039	346	4278	1	-1.15
7	6.01	SULFATE	2.232	44	520	1	-1.10
8	6.60		0.000	42	1222	1	
9	7.88	OXALATE	10.467	273	4847	1	-1.50
Totals			391.014	26448	221204		

File: 96010401.d36 Sample: S95T003326 DUP

Data Reprocessed On 01/05/1996 15:37:39

```

=====
Sample Name: S95T003326 SPIKE                      Date: 01/04/1996 04:58:31
Data File  : C:\DX\DATA\96010401.d37
Method     : C:\DX\METHOD\KIT.MET                  V\HC-SD-WM-DP-160. REV. I
ACI Address: 1 System: 1 Inject#: 37                 Detector: CDM-1
Analyst    :                                         Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.09	FLUORIDE	43.627	8844	55622	1	1.56
2	1.59	CHLORIDE	10.837	1420	8603	1	-0.21
3	1.89	NITRITE	52.935	4469	29633	1	-0.18
4	2.77	BROMIDE	61.802	3214	22364	1	-2.69
5	3.09	NITRATE	350.919	18940	177848	1	-5.40
6	4.57	PHOSPHATE	78.729	1451	18606	1	-1.44
7	5.99	SULFATE	67.346	2998	42824	1	-1.54
8	7.83	OXALATE	65.785	1720	31581	1	-2.17
Totals			731.981	43056	387080		

File: 96010401.d37 Sample: S95T003326 SPIKE

Data Reprocessed On 01/05/1996 15:37:41

Sample Name: S95T003327 Date: 01/04/1996 05:10:13
Data File : C:\DX\DATA\96010401.d38 VHC-SD-WM-DP-160, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 38 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.09	FLUORIDE	36.462	7324	45731	1	1.56
2	1.59	CHLORIDE	3.411	432	2694	1	-0.21
3	1.88	NITRITE	1.855	41	251	1	-0.53
4	2.78	BROMIDE	4.010	163	1111	1	-2.46
5	3.11	NITRATE	287.962	15461	143705	1	-4.99
6	4.59	PHOSPHATE	17.314	312	3871	1	-1.15
7	5.99	SULFATE	5.355	93	2521	1	-1.54
8	7.85	OXALATE	9.630	243	4445	1	-1.83
Totals			365.999	24068	204329		

File: 96010401.d38 Sample: S95T003327

Data Reprocessed On 01/05/1996 15:37:43

Sample Name: S95T003327 DUP Date: 01/04/1996 05:21:00
Data File : C:\DX\DATA\96010401.d39 WHC-SD-WM-DP-160, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 39 Detector: CDM-1
Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	36.211	7386	45391	1	0.31
2	1.57	CHLORIDE	6.090	782	4816	1	-1.47
3	1.87	NITRITE	1.753	36	193	1	-1.23
4	2.76	BROMIDE	3.962	160	1093	1	-3.16
5	3.09	NITRATE	282.473	15338	140778	1	-5.61
6	4.56	PHOSPHATE	17.799	318	3985	1	-1.72
7	5.99	SULFATE	2.394	52	624	1	-1.54
8	6.49		0.000	32	870	1	
9	7.85	OXALATE	9.594	250	4428	1	-1.83
Totals			360.276	24353	202178		

File: 96010401.d39 Sample: S95T003327 DUP

LABCORE Data Entry Template for Worklist# 4383

Analyst: EAL Instrument: IC01 _____ Book# 122N9-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003326-27 FOR IC RTS.

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	S95T003326 0 W	@IC-01	SOLID		95000161	B-204
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5 DUP	S95T003326 0 W	@IC-01	SOLID			
6 SPK	S95T003326 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003327 0 W	@IC-01	SOLID		95000161	B-204
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
8 DUP	S95T003327 0 W	@IC-01	SOLID			

Final page for worklist # 4383

A. Lambel ^{SH}
Date 10-01-04-96

Analyst Signature

Date

Analyst Signature

Date

copied printed
out of zone
CP

Uploaded & posted 01/05/96
Janni M. Sage

Data Entry Comments:

```

=====
Sample Name: BLANK                               Date: 01/04/1996 04:00:30
Data File  : C:\DX\DATA\96010401.D31           VHC-SD-WM-DP-160, REV.1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 31           Detector: CDM-1
Analyst    : A. Lumbel                      Column:
=====

```

01-04-96

```

-----
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
1	0.94		0.000	23	147	1	
3	3.16	NITRATE	0.185	39	272	1	-3.36
4	6.52		0.000	48	1564	1	
Totals			0.185	109	1983		

File: 96010401.D31 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 718 TO 721.

Data Reprocessed On 01/05/1996 10:20:05

Sample Name: 122N9-A STD. Date: 01/04/1996 04:12:23
Data File : C:\DX\DATA\96010401.D32
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-160, REV. /
ACI Address: 1 System: 1 Inject#: 32 Detector: CDM-1
Analyst : 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
2	1.07	FLUORIDE	61.030	1298	7845	2	0.31
3	1.57	CHLORIDE	75.500	1074	6514	1	-1.05
4	1.87	NITRITE	521.715	4718	31883	1	-1.23
5	2.75	BROMIDE	600.952	3163	23728	1	-3.39
6	3.13	NITRATE	631.274	3796	32237	1	-4.18
7	4.56	PHOSPHATE	577.153	1153	14753	1	-1.72
8	5.99	SULFATE	643.253	3207	44613	1	-1.54
9	7.83	OXALATE	558.465	1570	29168	1	-2.17
Totals			3669.343	19977	190740		

File: 96010401.D32 Sample: 122N9-A STD.

Sample Name: 122N9-A STD.

Date: 01/04/1996 04:12:23

Data File : C:\DX\DATA\96010401.D32

Method : C:\DX\METHOD\KIT.MET

WHC-SD-WM-DP-160, REV. 1

ACI Address: 1 System: 1 Inject#: 32

Detector: CDM-1

Analyst : *A. Lumbel* 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	1.07	FLUORIDE	70.937	1357	9137	1	0.31
2	1.57	CHLORIDE	75.500	1074	6514	1	-1.05
3	1.87	NITRITE	521.715	4718	31883	1	-1.23
4	2.75	BROMIDE	600.952	3163	23728	1	-3.39
5	3.13	NITRATE	631.274	3796	32236	1	-4.18
6	4.56	PHOSPHATE	577.153	1153	14753	1	-1.72
7	5.99	SULFATE	643.253	3207	44613	1	-1.54
8	7.83	OXALATE	558.465	1570	29168	1	-2.17
Totals			3679.250	20036	192032		

File: 96010401.D32 Sample: 122N9-A STD.

```

=====
Sample Name: PREP BLANK                      Date: 01/04/1996 04:23:51
Data File  : C:\DX\DATA\96010401.D34
Method     : C:\DX\METHOD\KIT.MET          WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 34
Analyst    : A. Lambert Column:
Detector: CDM-1
=====

```

```

-----
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
1	1.31		0.000	138	1562	1	
2	3.17	NITRATE	0.182	38	258	1	-2.96
Totals			0.182	175	1820		

File: 96010401.D34 Sample: PREP BLANK

WKL 7385
Data Reprocessed On 01/04/1996 14:58:20

```
=====
Sample Name: BLANK                      Date: 01/04/1996 04:00:30
Data File  : C:\DX\DATA\96010401.d31    WWC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 31      Detector: CDM-1
Analyst    :                          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
1	0.94		0.000	23	147	1	
3	3.16	NITRATE	0.185	39	272	1	-3.36
4	6.52		0.000	48	1564	1	
Totals			0.185	109	1983		

File: 96010401.d31 Sample: BLANK

Data Reprocessed On 01/04/1996 14:58:23

Sample Name: 122N9-A STD. Date: 01/04/1996 04:12:23
Data File : C:\DX\DATA\96010401.d32
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 32
Analyst : Column: Detector: CDM-1

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	1.07	FLUORIDE	70.937	1357	9137	1	0.31
2	1.57	CHLORIDE	75.500	1074	6514	1	-1.05
3	1.87	NITRITE	521.715	4718	31883	1	-1.23
4	2.75	BROMIDE	600.952	3163	23728	1	-3.39
5	3.13	NITRATE	631.274	3796	32236	1	-4.18
6	4.56	PHOSPHATE	577.153	1153	14753	1	-1.72
7	5.99	SULFATE	643.253	3207	44613	1	-1.54
8	7.83	OXALATE	558.465	1570	29168	1	-2.17
Totals			3679.250	20036	192032		

File: 96010401.d32 Sample: 122N9-A STD.

Data Reprocessed On 01/04/1996 14:58:25

```
=====
Sample Name: PREP BLANK                      Date: 01/04/1996 04:23:51
Data File  : C:\DX\DATA\96010401.d34
Method     : C:\DX\METHOD\KIT.MET          VHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 34        Detector: CDM-1
Analyst    :                               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
1	1.31		0.000	138	1562	1	
2	3.17	NITRATE	0.182	38	258	1	-2.96
Totals			0.182	175	1820		

File: 96010401.d34 Sample: PREP BLANK

Data Reprocessed On 01/04/1996 14:58:27

Sample Name: S95T003326

Date: 01/04/1996 04:34:42

Data File : C:\DX\DATA\96010401.d35

WHC-SD-WM-DP-160, REV.1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 35

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	35.727	7357	44735	1	0.31
2	1.57	CHLORIDE	3.357	423	2652	1	-1.47
3	1.87	NITRITE	1.816	40	229	1	-1.23
4	2.75	BROMIDE	3.371	132	879	1	-3.39
5	3.09	NITRATE	283.788	15258	141478	1	-5.61
6	4.56	PHOSPHATE	17.403	311	3892	1	-1.72
7	5.99	SULFATE	2.265	40	541	1	-1.54
8	7.85	OXALATE	9.745	249	4500	1	-1.83
Totals			357.471	23810	198907		

File: 96010401.d35 Sample: S95T003326

Data Reprocessed On 01/04/1996 14:58:29

```

=====
Sample Name: S95T003326  DUP                      Date: 01/04/1996 04:45:32
Data File  : C:\DX\DATA\96010401.d36              WHC-SD-WM-DP-160, REV. |
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 36                Detector: CDM-1
Analyst    :                                     Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11  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	1.09	FLUORIDE	39.935	8166	50481	1	1.56
2	1.59	CHLORIDE	4.102	529	3241	1	-0.21
3	1.88	NITRITE	1.863	45	256	1	-0.53
4	2.79	BROMIDE	3.708	148	1001	1	-2.22
5	3.10	NITRATE	309.668	16855	155357	1	-5.20
6	4.59	PHOSPHATE	19.039	346	4278	1	-1.15
7	6.01	SULFATE	2.232	44	520	1	-1.10
8	6.60		0.000	42	1222	1	
9	7.88	OXALATE	10.467	273	4847	1	-1.50
Totals			391.014	26448	221204		

File: 96010401.d36 Sample: S95T003326 DUP

Data Reprocessed On 01/04/1996 14:58:31

```
=====
Sample Name: S95T003326 SPIKE          Date: 01/04/1996 04:58:31
Data File  : C:\DX\DATA\96010401.d37
Method     : C:\DX\METHOD\KIT.MET      VHC-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 37
Analyst    :                          Detector: CDM-1
Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           11  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	1.09	FLUORIDE	43.627	8844	55622	1	1.56
2	1.59	CHLORIDE	10.837	1420	8603	1	-0.21
3	1.89	NITRITE	52.935	4469	29633	1	-0.18
4	2.77	BROMIDE	61.802	3214	22364	1	-2.69
5	3.09	NITRATE	350.919	18940	177848	1	-5.40
6	4.57	PHOSPHATE	78.729	1451	18606	1	-1.44
7	5.99	SULFATE	67.346	2998	42824	1	-1.54
8	7.83	OXALATE	65.785	1720	31581	1	-2.17
Totals			731.981	43056	387080		

File: 96010401.d37 Sample: S95T003326 SPIKE

Data Reprocessed On 01/04/1996 14:58:34

```

=====
Sample Name: S95T003327                      Date: 01/04/1996 05:10:13
Data File  : C:\DX\DATA\96010401.d38          WWC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 38           Detector: CDM-1
Analyst    :                               Column:
=====
  
```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.09	FLUORIDE	36.462	7324	45731	1	1.56
2	1.59	CHLORIDE	3.411	432	2694	1	-0.21
3	1.88	NITRITE	1.855	41	251	1	-0.53
4	2.78	BROMIDE	4.010	163	1111	1	-2.46
5	3.11	NITRATE	287.962	15461	143705	1	-4.99
6	4.59	PHOSPHATE	17.314	312	3871	1	-1.15
7	5.99	SULFATE	5.355	93	2521	1	-1.54
8	7.85	OXALATE	9.630	243	4445	1	-1.83
Totals			365.999	24068	204329		

File: 96010401.d38 Sample: S95T003327

Data Reprocessed On 01/04/1996 14:58:36

```
=====
Sample Name: S95T003327 DUP                      Date: 01/04/1996 05:21:00
Data File  : C:\DX\DATA\96010401.d39
Method     : C:\DX\METHOD\KIT.MET                VHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 39              Detector: CDM-1
Analyst    :                                     Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.07	FLUORIDE	36.211	7386	45391	1	0.31
2	1.57	CHLORIDE	6.090	782	4816	1	-1.47
3	1.87	NITRITE	1.753	36	193	1	-1.23
4	2.76	BROMIDE	3.962	160	1093	1	-3.16
5	3.09	NITRATE	282.473	15338	140778	1	-5.61
6	4.56	PHOSPHATE	17.799	318	3985	1	-1.72
7	5.99	SULFATE	2.394	52	624	1	-1.54
8	6.49		0.000	32	870	1	
9	7.85	OXALATE	9.594	250	4428	1	-1.83
Totals			360.276	24353	202178		

File: 96010401.d39 Sample: S95T003327 DUP

LABCORE Completed Worklist Report for Worklist# 4384

Analyst: smf

Instrument: IC01

Book# 122 N9,1

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003328-29 FOR IC 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		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	59	6.30e+01	106.780 % Recovery	
2 CCV	0	@IC-QC	CL	QC	79	7.67e+01	97.090 % Recovery	
2 CCV	0	@IC-QC	NO2	QC	536	5.05e+02	94.220 % Recovery	
2 CCV	0	@IC-QC	BR	QC	575	5.81e+02	101.040 % Recovery	
2 CCV	0	@IC-QC	NO3	QC	614	6.68e+02	108.790 % Recovery	
2 CCV	0	@IC-QC	PO4	QC	546	5.56e+02	101.830 % Recovery	
2 CCV	0	@IC-QC	SO4	QC	631	6.39e+02	101.270 % Recovery	
2 CCV	0	@IC-QC	OXALATE2	QC	525	5.43e+02	103.430 % 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	S95T003328	0 W	@IC-01	F-02	SOLID	N/A	6.856e+03	26.210 ug/g
4 SAMPLE	S95T003328	0 W	@IC-01	CL-02	SOLID	N/A	6.757e+02	34.280 ug/g
4 SAMPLE	S95T003328	0 W	@IC-01	NO2-02	SOLID	N/A	2.191e+02	117.700 ug/g
4 SAMPLE	S95T003328	0 W	@IC-01	BR-02	SOLID	N/A	2.977e+02	138.600 ug/g
4 SAMPLE	S95T003328	0 W	@IC-01	NO3-02	SOLID	N/A	5.377e+04	282.300 ug/g
4 SAMPLE	S95T003328	0 W	@IC-01	PO4-02	SOLID	N/A	3.115e+03	240.000 ug/g
4 SAMPLE	S95T003328	0 W	@IC-01	SO4-02	SOLID	N/A	3.184e+02	149.600 ug/g
4 SAMPLE	S95T003328	0 W	@IC-01	OXALATE2	SOLID	N/A	1.831e+03	211.700 ug/g
5 DUP	S95T003328	0 W	@IC-01	F-02	SOLID	6.86e+03	7.04e+03	2.590 RPD
5 DUP	S95T003328	0 W	@IC-01	CL-02	SOLID	6.76e+02	6.57e+02	2.850 RPD
5 DUP	S95T003328	0 W	@IC-01	NO2-02	SOLID	2.19e+02	2.26e+02	3.150 RPD
5 DUP	S95T003328	0 W	@IC-01	BR-02	SOLID	2.98e+02	3.00e+02	0.670 RPD
5 DUP	S95T003328	0 W	@IC-01	NO3-02	SOLID	5.38e+04	5.54e+04	2.930 RPD
5 DUP	S95T003328	0 W	@IC-01	PO4-02	SOLID	3.12e+03	3.34e+03	6.810 RPD
5 DUP	S95T003328	0 W	@IC-01	SO4-02	SOLID	3.18e+02	3.01e+02	5.490 RPD
5 DUP	S95T003328	0 W	@IC-01	OXALATE2	SOLID	1.83e+03	1.88e+03	2.700 RPD
6 SPK	S95T003328	0 W	@IC-01	F-02	SOLID	59	69.030	117.000 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 4384

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003328	0 W	@IC-01	CL-02	SOLID	79	74.140	93.850 % Recovery
6 SPK	S95T003328	0 W	@IC-01	NO2-02	SOLID	536	502.100	93.680 % Recovery
6 SPK	S95T003328	0 W	@IC-01	BR-02	SOLID	575	549.520	95.570 % Recovery
6 SPK	S95T003328	0 W	@IC-01	NO3-02	SOLID	614	666.820	108.600 % Recovery
6 SPK	S95T003328	0 W	@IC-01	PO4-02	SOLID	546	700.060	128.220 % Recovery
6 SPK	S95T003328	0 W	@IC-01	SO4-02	SOLID	631	629.260	99.720 % Recovery
6 SPK	S95T003328	0 W	@IC-01	OXALATE2	SOLID	525	539.650	102.790 % Recovery
7 SAMPLE	S95T003329	0 W	@IC-01	F-02	SOLID	N/A	7.087e+03	27.470 ug/g
7 SAMPLE	S95T003329	0 W	@IC-01	CL-02	SOLID	N/A	6.476e+02	19.590 ug/g
7 SAMPLE	S95T003329	0 W	@IC-01	NO2-02	SOLID	N/A	2.257e+02	123.300 ug/g
7 SAMPLE	S95T003329	0 W	@IC-01	BR-02	SOLID	N/A	6.476e+02	145.200 ug/g
7 SAMPLE	S95T003329	0 W	@IC-01	NO3-02	SOLID	N/A	5.480e+04	295.800 ug/g
7 SAMPLE	S95T003329	0 W	@IC-01	PO4-02	SOLID	N/A	2.954e+03	137.100 ug/g
7 SAMPLE	S95T003329	0 W	@IC-01	SO4-02	SOLID	N/A	2.790e+02	156.700 ug/g
7 SAMPLE	S95T003329	0 W	@IC-01	OXALATE2	SOLID	N/A	1.825e+03	121.000 ug/g
8 DUP	S95T003329	0 W	@IC-01	F-02	SOLID	7.09e+03	6.99e+03	1.420 RPD
8 DUP	S95T003329	0 W	@IC-01	CL-02	SOLID	6.48e+02	6.47e+02	0.150 RPD
8 DUP	S95T003329	0 W	@IC-01	NO2-02	SOLID	2.26e+02	2.28e+02	0.880 RPD
8 DUP	S95T003329	0 W	@IC-01	BR-02	SOLID	6.48e+02	6.27e+02	3.290 RPD
8 DUP	S95T003329	0 W	@IC-01	NO3-02	SOLID	5.48e+04	5.43e+04	0.920 RPD
8 DUP	S95T003329	0 W	@IC-01	PO4-02	SOLID	2.95e+03	2.89e+03	2.050 RPD
8 DUP	S95T003329	0 W	@IC-01	SO4-02	SOLID	2.79e+02	2.96e+02	5.910 RPD
8 DUP	S95T003329	0 W	@IC-01	OXALATE2	SOLID	1.82e+03	1.77e+03	2.790 RPD

Final page for worklist# 4384

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date 1/9/96

LABCORE Data Entry Template for Worklist# 4384

Analyst: SMF Instrument: IC01 Book# 122K19-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003328-29 FOR IC RTS.

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	S95T003328 0 W			@IC-01	SOLID	95000161	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5	DUP	S95T003328 0 W			@IC-01	SOLID		
6	SPK	S95T003328 0 W			@IC-01	SOLID		
7	SAMPLE	S95T003329 0 W			@IC-01	SOLID	95000161	B-204
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8	DUP	S95T003329 0 W			@IC-01	SOLID		

Final page for worklist # 4384

Luis M. Delfino 1-6-96
Analyst Signature Date

Analyst Signature Date

copied
uploaded & posted 1/9/96 JMF

*(posting log listed error "adp@IC-01"
Completed printed should have been SMF for analyst*

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				09-Jan-96			
Worklist#: 4384					Data File: 4384JAN.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name		Dilution
-	=>	1	CCB	S95T003328 S95T003328 S95T003328 S95T003328 S95T003329 S95T003329	-	1	96010511.d01	ELUENT BLANK		1.00	
	=>	2	CCV					96010511.d02	LMCS STD 122N9-		101.00
	=>	3	BLNK-PREP			2	96010511.d03	LMCS STD 122N9-		101.00	
	=>	4	SAMPLE			3	96010511.d04	PREP BLANK		1.00	
	=>	5	DUP					96010511.d05	S95T003328		101.00
	=>	6	SPK			4	96010511.d06	S95T003328		11.00	
	=>	7	SAMPLE			4	96010511.d07	S95T003328		6.00	
	=>	8	DUP			5	96010511.d08	S95T003328 DUP		11.00	
					5	96010511.d10	S95T003328 DUP		6.00		
					6	96010511.d11	S95T003328 SPK		11.00		
					6	96010511.d12	S95T003328 SPK		6.00		
					7	96010511.d13	S95T003329		11.00		
					7	96010511.d14	S95T003329		6.00		
					8	96010511.d15	S95T003329 DU		11.00		
+					+	8	96010511.d16	S95T003329 DU		6.00	

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003328				09-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 4				
		[1]	[2]	[3]	[4]	[5]
		96010511.d06	96010511.d07			
		11.0000	6.0000			
F-02	1	37.3970				
CL-02	1	3.6860				
NO2-02	1	1.8030				
BR-02	2		1.6240			
NO3-02	1	293.3180				
PO4-02	1	16.9940				
SO4-02	2		1.7370			
OXALATE2	1	10.0350				

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003328				09-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 5				
		[1]	[2]	[3]	[4]	[5]
		96010511.d08	96010511.d10			
		11.0000	6.0000			
F-02	1	37.5360				
CL-02	1	3.5040				
NO2-02	2		1.1980			
BR-02	2		1.6010			
NO3-02	1	295.6540				
PO4-02	1	17.8350				
SO4-02	2		1.6050			
OXALATE2	1	10.0170				

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003328				09-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 6				
		[1]	[2]	[3]	[4]	[5]
		96010511.d11	96010511.d12			
		11.0000	6.0000			
F-02	1	44.2690				
CL-02	1	11.0890				
N02-02	2		26.3370			
BR-02	2		29.1190			
N03-02	1	360.2180				
P04-02	1	86.9730				
S04-02	2		33.1890			
OXALATE2	1	63.9720				

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003329				09-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 7				
		[1]	[2]	[3]	[4]	[5]
		96010511.d13	96010511.d14			
		11.0000	6.0000			
F-02	1	36.9020				
CL-02	2		3.3720			
NO2-02	2		1.1750			
BR-02	2		3.3720			
NO3-02	1	285.3410				
PO4-02	2		15.3830			
SO4-02	2		1.4520			
OXALATE2	2		9.5050			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003329				09-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 8				
		[1]	[2]	[3]	[4]	[5]
		96010511.d15	96010511.d16			
		11.0000	6.0000			
F-02	1	39.5300				
CL-02	2		3.6600			
NO2-02	2		1.2910			
BR-02	2		3.5360			
NO3-02	1	306.6970				
PO4-02	2		16.3290			
SO4-02	2		1.6650			
OXALATE2	2		9.9980			

Done(F4) Abort(Shift-F3) UnPick(F7)

< BEGINING OF LOG FILE >

Instrument Posting Engaged by

Posting Date 05-jan-1996 15:18:25

FILE OPEN TO READ: (/tmp/IPSgJ1XAAQ)

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'adp @IC-01'.

(Fri Jan 5 15:18:26 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'adp @IC-01'.

(Fri Jan 5 15:18:28 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'adp @IC-01'.

(Fri Jan 5 15:18:28 19

Error Inserting into Interface Results Table:

E_US10D4 bad character found in date string beginning with 'adp @IC-01'.

(Fri Jan 5 15:18:28 19

Error Inserting into Interface Results Table:

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

Data Reprocessed On 01/09/1996 10:37:34

```

=====
Sample Name: ELUENT BLANK                      Date: 01/05/1996 21:54:08
Data File  : C:\DX\DATA\96010511.d01
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1            Detector: CDM-1
Analyst    : Amelia Column:
=====

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=====
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		

File: 96010511.d01 Sample: ELUENT BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 740 TO 794.

Data Reprocessed On 01/09/1996 10:37:36

Sample Name: LMCS STD 122N9-A Date: 01/05/1996 22:16:08
 Data File : C:\DX\DATA\96010511.d02
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 2 Detector: CDM-1
 Analyst : 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	1.09	FLUORIDE	70.334	1334	9058	1	1.56
2	1.59	CHLORIDE	76.867	1072	6632	1	0.21
3	1.89	NITRITE	512.982	4614	31332	1	0.18
4	2.81	BROMIDE	588.276	3092	23212	1	-1.52
5	3.19	NITRATE	635.300	3748	32449	1	-2.34
6	4.55	PHOSPHATE	566.573	1138	14475	1	-2.01
7	5.96	SULFATE	633.253	3145	43894	1	-1.97
8	7.80	OXALATE	544.006	1560	28403	1	-2.50
Totals			3627.591	19703	189455		

File: 96010511.d02 Sample: LMCS STD 122N9-A

Data Reprocessed On 01/05/1996 22:51:37

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=====
Sample Name: LMCS STD 122N9-A          Date: 01/05/1996 22:35:43
Data File  : C:\DX\DATA\96010511.D03
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 3
Analyst    : Smultron 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	1.07	FLUORIDE	62.999	1286	8101	1	0.31
2	1.57	CHLORIDE	76.691	1081	6617	1	-1.05
3	1.87	NITRITE	504.703	4621	30810	1	-0.88
4	2.79	BROMIDE	580.894	3076	22911	1	-2.22
5	3.17	NITRATE	667.658	3911	34161	1	-3.16
6	4.52	PHOSPHATE	556.499	1132	14210	1	-2.59
7	5.93	SULFATE	638.506	3120	44272	1	-2.41
8	7.77	OXALATE	543.137	1546	28357	1	-2.83
Totals			3631.086	19774	189438		

File: 96010511.D03 Sample: LMCS STD 122N9-A

Data Reprocessed On 01/09/1996 10:37:41

Sample Name: PREP BLANK

Date: 01/05/1996 23:05:03

Data File : C:\DX\DATA\96010511.d04

INC-SD-WM-DP-160, REV. 1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 4

Detector: CDM-1

Analyst : 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
1	1.32		0.000	142	1671	1	
Totals			0.000	142	1671		

File: 96010511.d04 Sample: PREP BLANK

Data Reprocessed On 01/09/1996 10:37:43

```
=====
Sample Name: S95T003328                      Date: 01/05/1996 23:19:04
Data File  : C:\DX\DATA\96010511.d05         VHC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 5           Detector: CDM-1
Analyst    :                               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	1.09	FLUORIDE	37.082	756	4742	1	1.56
2	1.59	CHLORIDE	4.007	61	351	1	0.21
3	3.21	NITRATE	280.963	1649	13858	1	-1.94
4	4.56	PHOSPHATE	20.273	29	316	1	-1.72
5	7.83	OXALATE	10.863	25	395	1	-2.17
Totals			353.189	2520	19662		

File: 96010511.d05 Sample: S95T003328

Data Reprocessed On 01/09/1996 10:37:46

Sample Name: S95T003328

Date: 01/05/1996 23:34:09

Data File : C:\DX\DATA\96010511.d06

Method : C:\DX\METHOD\KIT.MET

VHC-SD-WM-DP-160, REV. 1

ACI Address: 1 System: 1 Inject#: 6

Detector: CDM-1

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	37.397	7674	47003	1	0.31
2	1.57	CHLORIDE	3.686	472	2912	1	-1.05
3	1.87	NITRITE	1.803	40	221	1	-0.88
4	2.79	BROMIDE	2.105	62	421	1	-1.99
5	3.11	NITRATE	293.318	15654	146569	1	-4.99
6	4.53	PHOSPHATE	16.994	304	3795	1	-2.30
7	5.96	SULFATE	2.291	43	558	1	-1.97
8	7.80	OXALATE	10.035	256	4640	1	-2.50
Totals			367.630	24505	206119		

File: 96010511.d06 Sample: S95T003328

Data Reprocessed On 01/09/1996 10:37:48

Sample Name: S95T003328 Date: 01/05/1996 23:53:04
Data File : C:\DX\DATA\96010511.d07
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 7
Analyst : Column: Detector: CDM-1

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 6 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	1.07	FLUORIDE	37.015	15273	92142	1	0.31
2	1.57	CHLORIDE	3.763	883	5460	1	-1.05
3	1.87	NITRITE	1.195	74	443	1	-0.88
4	2.79	BROMIDE	1.624	116	737	1	-2.22
5	3.07	NITRATE	301.039	28977	294930	1	-6.22
6	4.53	PHOSPHATE	17.316	578	7292	1	-2.30
7	5.96	SULFATE	1.737	83	1131	1	-1.97
8	7.80	OXALATE	10.062	480	8681	1	-2.50
Totals			373.750	46464	410815		

File: 96010511.d07 Sample: S95T003328

Data Reprocessed On 01/09/1996 10:37:51

Sample Name: S95T003328 DUP Date: 01/06/1996 01:46:48
 Data File : C:\DX\DATA\96010511.d08
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 8 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	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	1.07	FLUORIDE	37.536	7755	47191	1	0.31
2	1.57	CHLORIDE	3.504	447	2768	1	-1.05
3	1.88	NITRITE	1.799	40	219	1	-0.53
4	2.79	BROMIDE	2.068	63	408	1	-1.99
5	3.11	NITRATE	295.654	15720	147820	1	-4.79
6	4.52	PHOSPHATE	17.835	313	3994	1	-2.59
7	5.93	SULFATE	2.346	42	593	1	-2.41
8	7.80	OXALATE	10.017	254	4631	1	-2.50
Totals			370.759	24635	207624		

File: 96010511.d08 Sample: S95T003328 DUP

Data Reprocessed On 01/09/1996 10:37:53

```
=====
Sample Name: S95T003328  DUP                      Date: 01/06/1996 02:12:23
Data File  : C:\DX\DATA\96010511.d10              WNC-SD-WM-DP-160, REV. ↑
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1  System: 1  Inject#: 10             Detector: CDM-1
Analyst    :                      Column:
=====
```

```
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           6    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	1.07	FLUORIDE	35.883	14709	88797	1	0.31
2	1.57	CHLORIDE	3.482	798	5050	1	-1.05
3	1.87	NITRITE	1.198	73	447	1	-1.23
4	2.79	BROMIDE	1.601	113	721	1	-2.22
5	3.07	NITRATE	293.464	27914	286385	1	-6.01
6	4.52	PHOSPHATE	16.887	563	7105	1	-2.59
7	5.96	SULFATE	1.605	73	975	1	-1.97
8	7.80	OXALATE	9.865	459	8508	1	-2.50
Totals			363.985	44702	397988		

File: 96010511.d10 Sample: S95T003328 DUP

Data Reprocessed On 01/09/1996 10:37:56

Sample Name: S95T003328 SPK Date: 01/06/1996 02:25:02
Data File : C:\DX\DATA\96010511.d11
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-160, REV. I
ACI Address: 1 System: 1 Inject#: 11 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.07	FLUORIDE	44.269	9151	56527	1	0.31
2	1.57	CHLORIDE	11.089	1443	8805	1	-1.05
3	1.87	NITRITE	50.546	4226	28250	1	-0.88
4	2.78	BROMIDE	57.327	2935	20695	1	-2.46
5	3.10	NITRATE	360.218	19105	182983	1	-5.20
6	4.52	PHOSPHATE	86.973	1415	20620	1	-2.59
7	5.93	SULFATE	64.126	2903	40702	1	-2.41
8	7.77	OXALATE	63.972	1688	30698	1	-2.83
Totals			738.520	42866	389280		

File: 96010511.d11 Sample: S95T003328 SPK

Data Reprocessed On 01/09/1996 10:37:59

Sample Name: S95T003328 SPK Date: 01/06/1996 02:45:35
 Data File : C:\DX\DATA\96010511.d12 WMC-SD-WM-DP-160, REV. I
 Method : C:\DX\METHOD\KIT.MET
 ACI Address: 1 System: 1 Inject#: 12 Detector: CDM-1
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	6	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	1.07	FLUORIDE	40.585	16604	103026	1	0.31
2	1.57	CHLORIDE	7.557	1783	11028	1	-1.05
3	1.87	NITRITE	26.337	4013	26943	1	-0.88
4	2.78	BROMIDE	29.119	2881	19228	1	-2.46
5	3.06	NITRATE	331.751	31776	330384	1	-6.42
6	4.52	PHOSPHATE	46.111	1591	20024	1	-2.59
7	5.93	SULFATE	33.189	2758	38543	1	-2.41
8	7.77	OXALATE	37.773	1830	33267	1	-2.83
Totals			552.422	63236	582443		

File: 96010511.d12 Sample: S95T003328 SPK

Data Reprocessed On 01/09/1996 10:38:01

Sample Name: S95T003329 Date: 01/06/1996 02:57:38
Data File : C:\DX\DATA\96010511.d13
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 13
Analyst : Column: Detector: CDM-1

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 11 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	1.07	FLUORIDE	36.902	7366	46328	1	-0.31
2	1.57	CHLORIDE	3.449	445	2725	1	-1.05
3	1.87	NITRITE	1.762	37	198	1	-0.88
4	2.79	BROMIDE	3.794	155	1033	1	-1.99
5	3.11	NITRATE	285.341	15082	142306	1	-4.79
6	4.52	PHOSPHATE	14.814	271	3281	1	-2.59
7	5.35		0.000	71	2010	1	
8	7.80	OXALATE	9.661	242	4460	1	-2.50
Totals			355.723	23668	202340		

File: 96010511.d13 Sample: S95T003329

Data Reprocessed On 01/09/1996 10:38:04

```
=====
Sample Name: S95T003329          Date: 01/06/1996 03:09:47
Data File  : C:\DX\DATA\96010511.d14    VMC-SD-WM-DP-160, REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14      Detector: CDM-1
Analyst    :                      Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           6    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	1.09	FLUORIDE	35.969	14555	89050	1	2.18
2	1.59	CHLORIDE	3.372	784	4889	1	0.21
3	1.89	NITRITE	1.175	71	422	1	-0.18
4	2.81	BROMIDE	3.372	292	1898	1	-1.52
5	3.09	NITRATE	288.942	27561	281320	1	-5.40
6	4.55	PHOSPHATE	15.383	517	6449	1	-2.01
7	5.35		0.000	29	748	1	
8	5.96	SULFATE	1.452	62	796	1	-1.97
9	7.80	OXALATE	9.505	443	8191	1	-2.50
Totals			359.171	44313	393765		

File: 96010511.d14 Sample: S95T003329

Data Reprocessed On 01/09/1996 10:38:06

Sample Name: S95T003329 DUP Date: 01/06/1996 04:32:29
Data File : C:\DX\DATA\96010511.d15 VHC-SD-WM-DP-160, REV. /
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 15 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 11 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	1.09	FLUORIDE	39.530	8123	49923	1	1.56
2	1.59	CHLORIDE	3.642	467	2877	1	0.21
3	1.90	NITRITE	1.809	40	225	1	0.53
4	2.81	BROMIDE	4.118	169	1150	1	-1.29
5	3.13	NITRATE	306.697	16375	153755	1	-4.18
6	4.55	PHOSPHATE	17.161	304	3834	1	-2.01
7	5.96	SULFATE	2.211	38	507	1	-1.97
8	7.80	OXALATE	10.398	263	4814	1	-2.50
Totals			385.566	25780	217085		

File: 96010511.d15 Sample: S95T003329 DUP

Data Reprocessed On 01/09/1996 10:38:09

```
=====
Sample Name: S95T003329      DUP      Date: 01/06/1996 04:48:08
Data File  : C:\DX\DATA\96010511.d16  WHC-SD-WM-DP-160. REV. 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 16   Detector: CDM-1
Analyst    :                   Column:
=====
```

```
-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           6    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	1.07	FLUORIDE	37.850	15534	94644	1	0.31
2	1.57	CHLORIDE	3.660	843	5309	1	-1.05
3	1.87	NITRITE	1.291	81	544	1	-1.23
4	2.79	BROMIDE	3.536	305	2007	1	-2.22
5	3.07	NITRATE	305.549	29241	300055	1	-6.01
6	4.52	PHOSPHATE	16.329	549	6862	1	-2.59
7	5.93	SULFATE	1.665	74	1045	1	-2.41
8	7.77	OXALATE	9.998	471	8625	1	-2.83
Totals			379.878	47098	419091		

File: 96010511.d16 Sample: S95T003329 DUP

worklistdata Version 0.0 05/16/95
01/05/96 13:48

WHC-SD-WM-DP-160, REV. 1

Page: 1

LABCORE Completed Worklist Report for Worklist# 4385

Analyst: eal

Instrument: IC01

Book# 12219A

Method: 14-533705 Rev/Mod D-1

Worklist Comment: B-204 S95T003330-31 FOR IC RTS.

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	IC-QC	F	QC	1	<1.30e-2	ug/mL
1 CCB	0	0	IC-QC	CL	QC	1	<1.70e-2	ug/mL
1 CCB	0	0	IC-QC	NO2	QC	1	<1.07e-1	ug/mL
1 CCB	0	0	IC-QC	BR	QC	1	<1.26e-1	ug/mL
1 CCB	0	0	IC-QC	NO3	QC	1	1.89e-01	0.190 ug/mL
1 CCB	0	0	IC-QC	PO4	QC	1	6.83e-01	0.680 ug/mL
1 CCB	0	0	IC-QC	SO4	QC	1	<1.36e-1	ug/mL
1 CCB	0	0	IC-QC	OXALATE2	QC	1	<1.05e-1	ug/mL
2 CCV	0	0	IC-QC	F	QC	59	6.19e+01	104.920 % Recovery
2 CCV	0	0	IC-QC	CL	QC	79	7.76e+01	98.230 % Recovery
2 CCV	0	0	IC-QC	NO2	QC	536	5.31e+02	99.070 % Recovery
2 CCV	0	0	IC-QC	BR	QC	575	6.11e+02	106.260 % Recovery
2 CCV	0	0	IC-QC	NO3	QC	614	6.50e+02	105.860 % Recovery
2 CCV	0	0	IC-QC	PO4	QC	546	5.86e+02	107.330 % Recovery
2 CCV	0	0	IC-QC	SO4	QC	631	6.56e+02	103.960 % Recovery
2 CCV	0	0	IC-QC	OXALATE2	QC	525	5.57e+02	106.100 % Recovery
3 BLNK-PREP	0	0	IC-01	F-02	SOLID	1	<1.30e-2	ug/g
3 BLNK-PREP	0	0	IC-01	CL-02	SOLID	1	<1.70e-2	ug/g
3 BLNK-PREP	0	0	IC-01	NO2-02	SOLID	1	<1.07e-1	ug/g
3 BLNK-PREP	0	0	IC-01	BR-02	SOLID	1	<1.26e-1	ug/g
3 BLNK-PREP	0	0	IC-01	NO3-02	SOLID	1	<1.40e-1	ug/g
3 BLNK-PREP	0	0	IC-01	PO4-02	SOLID	1	<1.19e-1	ug/g
3 BLNK-PREP	0	0	IC-01	SO4-02	SOLID	1	<1.36e-1	ug/g
3 BLNK-PREP	0	0	IC-01	OXALATE2	SOLID	1	<1.05e-1	ug/g
4 SAMPLE	S95T003330	0 W	IC-01	F-02	SOLID	N/A	6.523e+03	27.260 ug/g
4 SAMPLE	S95T003330	0 W	IC-01	CL-02	SOLID	N/A	4.603e+02	35.640 ug/g
4 SAMPLE	S95T003330	0 W	IC-01	NO2-02	SOLID	N/A	9.329e+02	224.300 ug/g
4 SAMPLE	S95T003330	0 W	IC-01	BR-02	SOLID	N/A	4.978e+02	264.200 ug/g
4 SAMPLE	S95T003330	0 W	IC-01	NO3-02	SOLID	N/A	5.032e+04	293.500 ug/g
4 SAMPLE	S95T003330	0 W	IC-01	PO4-02	SOLID	N/A	2.729e+03	249.500 ug/g
4 SAMPLE	S95T003330	0 W	IC-01	SO4-02	SOLID	N/A	4.132e+02	285.100 ug/g
4 SAMPLE	S95T003330	0 W	IC-01	OXALATE2	SOLID	N/A	1.695e+03	220.100 ug/g
5 DUP	S95T003330	0 W	IC-01	F-02	SOLID	6.52e+03	6.73e+03	3.170 RPD
5 DUP	S95T003330	0 W	IC-01	CL-02	SOLID	4.60e+02	1.37e+03	99.450 RPD
5 DUP	S95T003330	0 W	IC-01	NO2-02	SOLID	9.33e+02	3.28e+02	95.960 RPD
5 DUP	S95T003330	0 W	IC-01	BR-02	SOLID	4.98e+02	4.90e+02	1.620 RPD
5 DUP	S95T003330	0 W	IC-01	NO3-02	SOLID	5.03e+04	5.24e+04	4.090 RPD
5 DUP	S95T003330	0 W	IC-01	PO4-02	SOLID	2.73e+03	3.95e+03	36.530 RPD
5 DUP	S95T003330	0 W	IC-01	SO4-02	SOLID	4.13e+02	5.42e+02	27.020 RPD
5 DUP	S95T003330	0 W	IC-01	OXALATE2	SOLID	1.70e+03	1.73e+03	1.750 RPD
6 SPK	S95T003330	0 W	IC-01	F-02	SOLID	59	72.740	123.290 % Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

755

LABCORE Completed Worklist Report for Worklist# 4385

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003330	0	W	@IC-01	CL-02	SOLID	79	81.850	103.610 % Recovery
6 SPK	S95T003330	0	W	@IC-01	NO2-02	SOLID	536	471.050	87.880 % Recovery
6 SPK	S95T003330	0	W	@IC-01	BR-02	SOLID	575	572.880	99.630 % Recovery
6 SPK	S95T003330	0	W	@IC-01	NO3-02	SOLID	614	679.560	110.680 % Recovery
6 SPK	S95T003330	0	W	@IC-01	PO4-02	SOLID	546	651.800	119.380 % Recovery
6 SPK	S95T003330	0	W	@IC-01	SO4-02	SOLID	631	637.320	101.000 % Recovery
6 SPK	S95T003330	0	W	@IC-01	OXALATE2	SOLID	525	565.040	107.630 % Recovery
7 SAMPLE	S95T003331	0	W	@IC-01	F-02	SOLID	N/A	6.797e+03	27.870 ug/g
7 SAMPLE	S95T003331	0	W	@IC-01	CL-02	SOLID	N/A	6.112e+02	36.440 ug/g
7 SAMPLE	S95T003331	0	W	@IC-01	NO2-02	SOLID	N/A	3.350e+02	229.400 ug/g
7 SAMPLE	S95T003331	0	W	@IC-01	BR-02	SOLID	N/A	4.599e+02	270.100 ug/g
7 SAMPLE	S95T003331	0	W	@IC-01	NO3-02	SOLID	N/A	5.193e+04	300.100 ug/g
7 SAMPLE	S95T003331	0	W	@IC-01	PO4-02	SOLID	N/A	2.734e+03	255.100 ug/g
7 SAMPLE	S95T003331	0	W	@IC-01	SO4-02	SOLID	N/A	4.011e+02	291.600 ug/g
7 SAMPLE	S95T003331	0	W	@IC-01	OXALATE2	SOLID	N/A	1.723e+03	225.100 ug/g
8 DUP	S95T003331	0	W	@IC-01	F-02	SOLID	6.80e+03	6.74e+03	0.890 RPD
8 DUP	S95T003331	0	W	@IC-01	CL-02	SOLID	6.11e+02	6.06e+02	0.820 RPD
8 DUP	S95T003331	0	W	@IC-01	NO2-02	SOLID	3.35e+02	3.40e+02	1.480 RPD
8 DUP	S95T003331	0	W	@IC-01	BR-02	SOLID	4.60e+02	4.60e+02	0.000 RPD
8 DUP	S95T003331	0	W	@IC-01	NO3-02	SOLID	5.19e+04	5.16e+04	0.580 RPD
8 DUP	S95T003331	0	W	@IC-01	PO4-02	SOLID	2.73e+03	2.75e+03	0.730 RPD
8 DUP	S95T003331	0	W	@IC-01	SO4-02	SOLID	4.01e+02	4.13e+02	2.950 RPD
8 DUP	S95T003331	0	W	@IC-01	OXALATE2	SOLID	1.72e+03	1.73e+03	0.580 RPD

Comments Section:

Comments for sample# S95T003330 and test @IC-01 .
The blk-prep did not run correctly advise if rerun needed.

Final page for worklist# 4385

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Jean L... 1/5/96
Reviewer Signature _____ Date _____

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				05-Jan-96			
Worklist#: 4385					Data File: 4385JAN.CSV						
		Seq	Type	Sample #			Seq#	Data File	Sample Name	Dilution	
-	=>	1	CCB		-	1	96010331.d09	BLANK		1.00	
	=>	2	CCV			2	96010331.d10	122N9-A STD		101.00	
	=>	3	BLNK-PREP			3	96010331.d11	PREP BLANK		1.00	
	=>	4	SAMPLE	S95T003330		4	96010331.d13	S95T003330		11.00	
	=>	5	DUP	S95T003330		5	96010331.d14	S95T003330 DUP		11.00	
	=>	6	SPK	S95T003330		6	96010331.d15	S95T003330 SPIKE		11.00	
	=>	7	SAMPLE	S95T003331		7	96010331.d16	S95T003331		11.00	
	=>	8	DUP	S95T003331		8	96010331.d17	S95T003331 DUP		11.00	
+					+						

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				05-Jan-96	
Worklist#: 4385				Data File: 4385JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1 CCB		-	1 96010331.d09	BLANK	1.00		
	=>	2 CCV			2 96010331.d10	122N9-A STD	101.00		
	=>	3 BLNK-PREP			3 96010331.d11	PREP BLANK	1.00		
	=>	4 SAMPLE	S95T003330		4 96010331.d13	S95T003330	11.00		
	=>	5 DUP	S95T003330		5 96010331.d14	S95T003330 DUP	11.00		
	=>	6 SPK	S95T003330		6 96010331.d15	S95T003330 SPIKE	11.00		
	=>	7 SAMPLE	S95T003331		7 96010331.d16	S95T003331	11.00		
	=>	8 DUP	S95T003331		8 96010331.d17	S95T003331 DUP	11.00		

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				05-Jan-96	
Worklist#: 4385				Data File: 4385JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1 CCB		-	1 96010331.d09	BLANK	1.00		
	=>	2 CCV			2 96010331.d10	122N9-A STD	101.00		
	=>	3 BLNK-PREP			3 96010331.d11	PREP BLANK	1.00		
	=>	4 SAMPLE	S95T003330		4 96010331.d13	S95T003330	11.00		
	=>	5 DUP	S95T003330		5 96010331.d14	S95T003330 DUP	11.00		
	=>	6 SPK	S95T003330		6 96010331.d15	S95T003330 SPIKE	11.00		
	=>	7 SAMPLE	S95T003331		7 96010331.d16	S95T003331	11.00		
	=>	8 DUP	S95T003331		8 96010331.d17	S95T003331 DUP	11.00		

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

< BEGINING OF LOG FILE >

Instrument Posting Engaged by

Posting Date 05-jan-1996 10:10:29

FILE OPEN TO READ: (/tmp/ESTgJ1XAAZ)

Error Inserting into Interface Results Table:

E US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Fri Jan 5 10:10:30 19

Error Inserting into Interface Results Table:

E US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Fri Jan 5 10:10:30 19

Error Inserting into Interface Results Table:

E US10D4 bad character found in date string beginning with 'eal @IC-01'.

(Fri Jan 5 10:10:30 19

FILE CLOSED: (/tmp/ESTgJ1XAAZ)

FILE POSTING: /tmp/ESTgJ1XAAZ (05-jan-1996 10:11:07)

Record (1) QC posted.

Record (2) QC posted.

Keys(F5) NextPage(Page Dn) PrevPage(Page Up) Help(F2) >

LABCORE Data Entry Template for Worklist# 4385

Analyst: EAL Instrument: IC01 Book# 12219-A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003330-31 FOR IC RTS.

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	S95T003330 0 W	@IC-01	SOLID		95000161	B-204
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
5 DUP	S95T003330 0 W	@IC-01	SOLID			
6 SPK	S95T003330 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003331 0 W	@IC-01	SOLID		95000161	B-204
	Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02					
8 DUP	S95T003331 0 W	@IC-01	SOLID			

Final page for worklist # 4385

A. Lambel 01-03-95
Analyst Signature Date
copies printed out for you

Analyst Signature Date

uploaded & posted 1/5/95
Jane M. Lyle

Data Entry Comments:

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=====
Sample Name: BLANK                               Date: 01/03/1996 21:27:03
Data File  : C:\DX\DATA\96010331.D09
Method     : C:\DX\METHOD\KIT.MET              VHC-SD-WM-DP-160, REV 1
ACI Address: 1 System: 1 Inject#: 9              Detector: CDM-1
Analyst    : A. Lambel                        Column:
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01-03-95

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=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          1    3000  5Hz   0.00 10.00         100
=====

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***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	3.19	NITRATE	0.189	40	296	1	-2.34
3	4.91	PHOSPHATE	0.683	51	1560	1	5.75
Totals			0.872	91	1856		

File: 96010331.D09 Sample: BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 761 TO 771.

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=====
Sample Name: 122N9-A STD                               Date: 01/03/1996 21:39:54
Data File  : C:\DX\DATA\96010331.D10                   VHC-SD-WM-DP-16C REV F
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10
Analyst    : Ann Lambert Column:
Detector: CDM-1
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-----
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
2	1.09	FLUORIDE	61.927	1316	7962	1	1.56
3	1.59	CHLORIDE	77.632	1093	6699	1	0.21
4	1.89	NITRITE	531.455	4771	32498	1	-0.18
5	2.77	BROMIDE	611.099	3216	24142	1	-2.69
6	3.15	NITRATE	650.480	3911	33252	1	-3.57
7	4.59	PHOSPHATE	585.761	1171	14980	1	-1.15
8	6.01	SULFATE	656.038	3247	45533	1	-1.10
9	7.85	OXALATE	557.059	1588	29093	1	-1.83
Totals			3731.450	20313	194158		

File: 96010331.D10 Sample: 122N9-A STD

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=====
Sample Name: PREP BLANK                      Date: 01/03/1996 23:06:09
Data File  : C:\DX\DATA\96010331.D11        VHC-SD-WM-DP-160, REV /
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11         Detector: CDM-1
Analyst    : A. J. Jambel Column:
=====

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-----
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		

File: 96010331.D11 Sample: PREP BLANK

Data Reprocessed On 01/04/1996 15:17:07

Sample Name: BLANK Date: 01/03/1996 21:27:03
Data File : C:\DX\DATA\96010331.d09 VHC-SD-WM-DP-160, REV. /
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 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		100

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	3.19	NITRATE	0.189	40	296	1	-2.34
3	4.91	PHOSPHATE	0.683	51	1560	1	5.75
Totals			0.872	91	1856		

File: 96010331.d09 Sample: BLANK

Data Reprocessed On 01/04/1996 15:17:09

Sample Name: 122N9-A STD

Date: 01/03/1996 21:39:54

Data File : C:\DX\DATA\96010331.d10

VHC-SD-WM-DP-160, REV. 1

Method : C:\DX\METHOD\KIT.MET

ACI Address: 1 System: 1 Inject#: 10

Detector: CDM-1

Analyst : 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
2	1.09	FLUORIDE	61.927	1316	7962	1	1.56
3	1.59	CHLORIDE	77.632	1093	6699	1	0.21
4	1.89	NITRITE	531.455	4771	32498	1	-0.18
5	2.77	BROMIDE	611.099	3216	24142	1	-2.69
6	3.15	NITRATE	650.480	3911	33252	1	-3.57
7	4.59	PHOSPHATE	585.761	1171	14980	1	-1.15
8	6.01	SULFATE	656.038	3247	45533	1	-1.10
9	7.85	OXALATE	557.059	1588	29093	1	-1.83
Totals			3731.450	20313	194158		

File: 96010331.d10 Sample: 122N9-A STD

Data Reprocessed On 01/04/1996 15:17:12

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=====
Sample Name: PREP BLANK                      Date: 01/03/1996 23:06:09
Data File  : C:\DX\DATA\96010331.d11
Method     : C:\DX\METHOD\KIT.MET          VHC-SD-WM-DP-160, REV. 1
ACI Address: 1 System: 1 Inject#: 11        Detector: CDM-1
Analyst    :                               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		

File: 96010331.d11 Sample: PREP BLANK

Data Reprocessed On 01/04/1996 15:17:14

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=====
Sample Name: S95T003330      Date: 01/03/1996 23:23:12
Data File  : C:\DX\DATA\96010331.d13      VHC-SD-WM-DP-160. REV 1
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 13      Detector: CDM-1
Analyst    :                  Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.07	FLUORIDE	34.226	6988	42715	1	0.31
2	1.57	CHLORIDE	2.415	360	1909	1	-1.05
3	1.86	NITRITE	4.895	176	1990	1	-1.59
4	2.75	BROMIDE	2.612	90	605	1	-3.39
5	3.08	NITRATE	264.044	14322	131006	1	-5.81
6	4.57	PHOSPHATE	14.320	255	3164	1	-1.44
7	6.01	SULFATE	2.168	34	480	1	-1.10
8	7.85	OXALATE	8.896	225	4093	1	-1.83
Totals			333.578	22452	185961		

File: 96010331.d13 Sample: S95T003330

Data Reprocessed On 01/04/1996 15:17:16

Sample Name: S95T003330 DUP Date: 01/03/1996 23:35:46
Data File : C:\DX\DATA\96010331.d14 VINC-SD-WM-DP-160, REV I
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.09	FLUORIDE	36.006	7322	45113	1	1.56
2	1.59	CHLORIDE	7.341	947	5811	1	-0.21
3	1.89	NITRITE	1.756	35	195	1	-0.18
4	2.78	BROMIDE	2.618	90	607	1	-2.46
5	3.10	NITRATE	280.326	15080	139635	1	-5.20
6	4.60	PHOSPHATE	21.041	289	4752	1	-0.86
7	6.01	SULFATE	2.899	67	947	1	-1.10
8	7.88	OXALATE	9.243	235	4259	1	-1.50
Totals			361.230	24065	201319		

File: 96010331.d14 Sample: S95T003330 DUP

768

Data Reprocessed On 01/04/1996 15:17:18

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=====
Sample Name: S95T003330 SPIKE          Date: 01/03/1996 23:48:18
Data File  : C:\DX\DATA\96010331.d15   MAC-SD-WM-DP-160, REV. I
Method     : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 15    Detector: CDM-1
Analyst    :                          Column:
=====
```

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-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          11    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	1.07	FLUORIDE	41.544	8452	52710	1	0.31
2	1.57	CHLORIDE	10.583	1392	8400	1	-1.47
3	1.87	NITRITE	51.999	4437	29091	1	-1.23
4	2.75	BROMIDE	59.918	3122	21661	1	-3.63
5	3.07	NITRATE	331.843	18089	167389	1	-6.22
6	4.56	PHOSPHATE	79.505	1368	18795	1	-1.72
7	5.99	SULFATE	65.908	2965	41876	1	-1.54
8	7.85	OXALATE	65.374	1708	31381	1	-1.83
Totals			706.676	41533	371304		

File: 96010331.d15 Sample: S95T003330 SPIKE

Data Reprocessed On 01/04/1996 15:17:20

Sample Name: S95T003331 Date: 01/03/1996 23:59:07
Data File : C:\DX\DATA\96010331.d16
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 16
Analyst : Column: Detector: CDM-1

Calibration Volume Dilution Points Rate Start Stop Area Reject
External 1 11 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	1.07	FLUORIDE	34.877	6997	43589	1	0.31
2	1.57	CHLORIDE	3.136	407	2477	1	-1.47
3	1.87	NITRITE	1.719	34	174	1	-1.23
4	2.76	BROMIDE	2.359	80	513	1	-3.16
5	3.08	NITRATE	266.380	14420	132240	1	-5.81
6	4.57	PHOSPHATE	14.028	250	3095	1	-1.44
7	6.01	SULFATE	2.058	34	409	1	-1.10
8	6.65		0.000	35	1055	1	
9	7.88	OXALATE	8.840	231	4066	1	-1.50
Totals			333.397	22488	187618		

File: 96010331.d16 Sample: S95T003331

Data Reprocessed On 01/04/1996 15:17:23

Sample Name: S95T003331 DUP Date: 01/04/1996 00:10:12
Data File : C:\DX\DATA\96010331.d17 VHC-SD-WM-DP-160, REV.1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 17 Detector: CDM-1
Analyst : Column:

Calibration Volume Dilution Points Rate Start Stop Area Reject

External 1 11 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	1.07	FLUORIDE	35.367	7127	44250	1	0.31
2	1.57	CHLORIDE	3.181	411	2513	1	-1.47
3	1.87	NITRITE	1.783	37	210	1	-1.23
4	2.76	BROMIDE	2.414	82	533	1	-3.16
5	3.08	NITRATE	270.562	14621	134452	1	-5.81
6	4.57	PHOSPHATE	14.398	255	3183	1	-1.44
7	6.01	SULFATE	2.166	39	478	1	-1.10
8	7.88	OXALATE	8.999	235	4142	1	-1.50
Totals			338.870	22805	189761		

File: 96010331.d17 Sample: S95T003331 DUP

LABCORE Completed Worklist Report for Worklist# 4386

Analyst: smf

Instrument: IC03

Book# 1221MC

Method: LA-533-10 Rev/Mod D-1

Worklist Comment: B-204 S95T003332-33 FOR IC RTS.

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 CCB	0	0	②IC-QC F	QC	1	<1.30e-2		ug/mL
1 CCB	0	0	②IC-QC CL	QC	1	<1.70e-2		ug/mL
1 CCB	0	0	②IC-QC NO2	QC	1	<1.07e-1		ug/mL
1 CCB	0	0	②IC-QC BR	QC	1	<1.26e-1		ug/mL
1 CCB	0	0	②IC-QC NO3	QC	1	<1.40e-1		ug/mL
1 CCB	0	0	②IC-QC PO4	QC	1	<1.19e-1		ug/mL
1 CCB	0	0	②IC-QC SO4	QC	1	<1.36e-1		ug/mL
1 CCB	0	0	②IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2 CCV	0	0	②IC-QC F	QC	59	6.16e+01	104.410 % Recovery	
2 CCV	0	0	②IC-QC CL	QC	79	7.76e+01	98.230 % Recovery	
2 CCV	0	0	②IC-QC NO2	QC	536	5.39e+02	100.560 % Recovery	
2 CCV	0	0	②IC-QC BR	QC	575	5.70e+02	99.130 % Recovery	
2 CCV	0	0	②IC-QC NO3	QC	614	6.16e+02	100.330 % Recovery	
2 CCV	0	0	②IC-QC PO4	QC	546	5.50e+02	100.730 % Recovery	
2 CCV	0	0	②IC-QC SO4	QC	631	6.31e+02	100.000 % Recovery	
2 CCV	0	0	②IC-QC OXALATE2	QC	525	5.42e+02	103.240 % Recovery	
3 BLNK-PREP	0	0	②IC-01 F-02	SOLID	1	<1.30e-2		ug/g
3 BLNK-PREP	0	0	②IC-01 CL-02	SOLID	1	<1.70e-2		ug/g
3 BLNK-PREP	0	0	②IC-01 NO2-02	SOLID	1	<1.07e-1		ug/g
3 BLNK-PREP	0	0	②IC-01 BR-02	SOLID	1	<1.26e-1		ug/g
3 BLNK-PREP	0	0	②IC-01 NO3-02	SOLID	1	4.70e-01	0.470	ug/g
3 BLNK-PREP	0	0	②IC-01 PO4-02	SOLID	1	<1.19e-1		ug/g
3 BLNK-PREP	0	0	②IC-01 SO4-02	SOLID	1	<1.36e-1		ug/g
3 BLNK-PREP	0	0	②IC-01 OXALATE2	SOLID	1	<1.05e-1		ug/g
4 SAMPLE	S95T003332	0 W	②IC-01 F-02	SOLID	N/A	6.392e+03	48.830	ug/g
4 SAMPLE	S95T003332	0 W	②IC-01 CL-02	SOLID	N/A	6.023e+02	12.160	ug/g
4 SAMPLE	S95T003332	0 W	②IC-01 NO2-02	SOLID	N/A	3.732e+02	76.540	ug/g
4 SAMPLE	S95T003332	0 W	②IC-01 BR-02	SOLID	N/A	5.524e+02	90.130	ug/g
4 SAMPLE	S95T003332	0 W	②IC-01 NO3-02	SOLID	N/A	4.522e+04	525.800	ug/g
4 SAMPLE	S95T003332	0 W	②IC-01 PO4-02	SOLID	N/A	2.705e+03	85.120	ug/g
4 SAMPLE	S95T003332	0 W	②IC-01 SO4-02	SOLID	N/A	4.197e+02	97.280	ug/g
4 SAMPLE	S95T003332	0 W	②IC-01 OXALATE2	SOLID	N/A	1.798e+03	75.110	ug/g
5 DUP	S95T003332	0 W	②IC-01 F-02	SOLID	6.39e+03	6.38e+03	0.160	RPD
5 DUP	S95T003332	0 W	②IC-01 CL-02	SOLID	6.02e+02	6.13e+02	1.810	RPD
5 DUP	S95T003332	0 W	②IC-01 NO2-02	SOLID	3.73e+02	3.98e+02	6.490	RPD
5 DUP	S95T003332	0 W	②IC-01 BR-02	SOLID	5.52e+02	5.89e+02	6.490	RPD
5 DUP	S95T003332	0 W	②IC-01 NO3-02	SOLID	4.52e+04	4.54e+04	0.440	RPD
5 DUP	S95T003332	0 W	②IC-01 PO4-02	SOLID	2.70e+03	2.53e+03	6.500	RPD
5 DUP	S95T003332	0 W	②IC-01 SO4-02	SOLID	4.20e+02	4.80e+02	13.330	RPD
5 DUP	S95T003332	0 W	②IC-01 OXALATE2	SOLID	1.80e+03	1.68e+03	6.900	RPD
6 SPK	S95T003332	0 W	②IC-01 F-02	SOLID	59	58.320	98.850 % Recovery	

LABCORE Completed Worklist Report for Worklist# 4386

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
6 SPK	S95T003332	0 W	IC-01	CL-02	SOLID	79	77.539	98.150 % Recovery
6 SPK	S95T003332	0 W	IC-01	NO2-02	SOLID	536	512.482	95.610 % Recovery
6 SPK	S95T003332	0 W	IC-01	BR-02	SOLID	575	552.316	96.050 % Recovery
6 SPK	S95T003332	0 W	IC-01	NO3-02	SOLID	614	655.760	106.800 % Recovery
6 SPK	S95T003332	0 W	IC-01	PO4-02	SOLID	546	561.327	102.810 % Recovery
6 SPK	S95T003332	0 W	IC-01	SO4-02	SOLID	631	623.537	98.820 % Recovery
6 SPK	S95T003332	0 W	IC-01	OXALATE2	SOLID	525	533.463	101.610 % Recovery
7 SAMPLE	S95T003333	0 W	IC-01	F-02	SOLID	N/A	6.331e+03	47.710 ug/g
7 SAMPLE	S95T003333	0 W	IC-01	CL-02	SOLID	N/A	6.721e+02	11.880 ug/g
7 SAMPLE	S95T003333	0 W	IC-01	NO2-02	SOLID	N/A	3.813e+02	74.800 ug/g
7 SAMPLE	S95T003333	0 W	IC-01	BR-02	SOLID	N/A	5.804e+02	88.080 ug/g
7 SAMPLE	S95T003333	0 W	IC-01	NO3-02	SOLID	N/A	4.538e+04	513.800 ug/g
7 SAMPLE	S95T003333	0 W	IC-01	PO4-02	SOLID	N/A	2.676e+03	0.325 ug/g
7 SAMPLE	S95T003333	0 W	IC-01	SO4-02	SOLID	N/A	4.322e+02	95.070 ug/g
7 SAMPLE	S95T003333	0 W	IC-01	OXALATE2	SOLID	N/A	1.735e+03	73.400 ug/g
8 DUP	S95T003333	0 W	IC-01	F-02	SOLID	6.33e+03	6.59e+03	4.020 RPD
8 DUP	S95T003333	0 W	IC-01	CL-02	SOLID	6.72e+02	6.22e+02	7.730 RPD
8 DUP	S95T003333	0 W	IC-01	NO2-02	SOLID	3.81e+02	3.90e+02	2.330 RPD
8 DUP	S95T003333	0 W	IC-01	BR-02	SOLID	5.80e+02	6.22e+02	6.990 RPD
8 DUP	S95T003333	0 W	IC-01	NO3-02	SOLID	4.54e+04	4.75e+04	4.520 RPD
8 DUP	S95T003333	0 W	IC-01	PO4-02	SOLID	2.68e+03	2.85e+03	6.150 RPD
8 DUP	S95T003333	0 W	IC-01	SO4-02	SOLID	4.32e+02	4.74e+02	9.270 RPD
8 DUP	S95T003333	0 W	IC-01	OXALATE2	SOLID	1.74e+03	1.90e+03	8.790 RPD

Final page for worklist# 4386

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

James J. J...
Reviewer Signature _____ Date 1/17/96

LABCORE Data Entry Template for Worklist# 4386

Analyst: SMF Instrument: IC01 IC03 Book# 122N9-C

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-204 S95T003332-33 FOR IC RTS.

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	S95T003332 0 W	@IC-01	SOLID		95000161	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
5 DUP	S95T003332 0 W	@IC-01	SOLID			
6 SPK	S95T003332 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003333 0 W	@IC-01	SOLID		95000161	B-204
Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
8 DUP	S95T003333 0 W	@IC-01	SOLID			

Final page for worklist # 4386

Janie M. Dutton 1-14-96

Analyst Signature Date

Analyst Signature Date

degreed + unshell-

*Uploaded & posted 1/17/96
JMD*

Data Entry Comments:

A-0010-IC				DATA FILE/WORKLIST RESOLUTION				16-Jan-96	
Worklist#: 4386				Data File: 4386JAN.CSV					
	Seq	Type	Sample #	Seq#	Data File	Sample Name	Dilution		
-	=>	1	CCB	-	1	96011481.d01	ELUENT BLANK		1.00
	=>	2	CCV		2	96011481.d02	LMCS STD 122N9-C		101.00
	=>	3	BLNK-PREP		3	96011481.d03	ELUENT BLANK		1.00
	=>	4	SAMPLE		4	96011481.d04	S95T003332		21.00
	=>	5	DUP		5	96011481.d05	S95T003332 DUP		21.00
	=>	6	SPK		7	96011481.d06	S95T003333		21.00
	=>	7	SAMPLE		8	96011481.d07	S95T003333 DUP		21.00
	=>	8	DUP			96011481.d08	S95T003332		5.00
			S95T003332			96011481.d09	S95T003332 DUP		4.00
			S95T003332	5	96011481.d10	S95T003332 DUP			4.00
			S95T003332	4	96011481.d11	S95T003332			4.00
			S95T003333	7	96011481.d12	S95T003333			4.00
			S95T003333	8	96011481.d13	S95T003333 DUP			4.00
			S95T003333	6	96011481.d14	S95T003332 SPK			21.00
+				+	6	96011481.d15	S95T003332 SPK		4.00

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003332				16-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 4				
		[1]	[2]	[3]	[4]	[5]
		96011481.d04	96011481.d11			
		21.0000	4.0000			
F-02	1	35.7360				
CL-02	2		3.3680			
NO2-02	2		2.0870			
BR-02	2		3.0890			
NO3-02	1	252.8480				
PO4-02	2		15.1880			
SO4-02	2		2.3470			
OXALATE2	2		10.0560			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003332				16-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 5				
		[1]	[2]	[3]	[4]	[5]
		96011481.d05	96011481.d10			
		21.0000	4.0000			
F-02	1	32.6170				
CL-02	2		3.1350			
NO2-02	2		2.0350			
BR-02	2		3.0140			
NO3-02	1	232.4770				
PO4-02	2		12.9280			
SO4-02	2		2.4540			
OXALATE2	2		8.5800			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003332				16-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 6				
		[1]	[2]	[3]	[4]	[5]
		96011481.d14	96011481.d15			
		21.0000	4.0000			
F-02	1	47.3680				
CL-02	2		5.7020			
NO2-02	2		17.4760			
BR-02	2		19.6910			
NO3-02	1	384.0260				
PO4-02	2		32.0300			
SO4-02	2		21.0530			
OXALATE2	2		26.1310			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003333				16-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 7				
		[1]	[2]	[3]	[4]	[5]
		96011481.d06	96011481.d12			
		21.0000	4.0000			
F-02	1	36.2280				
CL-02	2		3.8460			
N02-02	2		2.1820			
BR-02	2		3.3210			
N03-02	1	259.6590				
P04-02	2		15.3120			
S04-02	2		2.4730			
OXALATE2	2		9.9260			

Done(F4) Abort(Shift-F3) UnPick(F7)

A-0010-12		SAMPLE ANALYTE RESOLUTION FOR S95T003333				16-Jan-96
Analyte		Samples Selected from Data File for Worklist Slot Number 8				
		[1]	[2]	[3]	[4]	[5]
		96011481.d07	96011481.d13			
		21.0000	4.0000			
F-02	1	34.4890				
CL-02	2		3.2550			
N02-02	1	0.0000				
BR-02	2		3.2570			
N03-02	2		0.0000			
P04-02	2		14.8380			
S04-02	2		2.4820			
OXALATE2	2		9.9490			

Done(F4) Abort(Shift-F3) UnPick(F7)

```

=====
Sample Name: ELUENT BLANK                      Date: 01/14/1996 07:19:58
Data File  : C:\DX\DATA\96011481.D01
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 1             Detector: CDM-2
Analyst    : John F. [Signature] Column:
=====

```

```

=====
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1    3000   5Hz   0.00  10.00    100000
=====

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	9.06		0.000	13261	163412	1	
Totals			0.000	13261	163412		

File: 96011481.D01 Sample: ELUENT BLANK

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 181 TO 195.

```

=====
Sample Name: LMCS STD 122N9-C          Date: 01/14/1996 07:54:59
Data File  : C:\DX\DATA\96011481.D02
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 2
Analyst    : Impulfor Column:
Detector: CDM-2
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          101    3000  5Hz   0.00 10.00   100000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	53180	184174	1	
2	1.04	FLUORIDE	61.583	1472287	8319352	1	-2.80
3	1.54	CHLORIDE	77.634	1140679	7186044	2	-1.91
4	1.84	NITRITE	538.667	5783659	35570674	2	-1.60
5	2.74	BROMIDE	569.743	3728664	25679860	2	-1.08
6	3.10	NITRATE	616.253	4175983	35971903	2	-2.21
7	4.50	PHOSPHATE	550.242	1344663	15778628	1	-2.17
8	6.02	SULFATE	631.166	3415825	47464672	1	-0.82
9	7.92	OXALATE	542.010	1716208	30800788	1	-1.00
Totals			3587.297	22831147	206956095		

File: 96011481.D02 Sample: LMCS STD 122N9-C

```

=====
Sample Name: ELUENT BLANK                      Date: 01/14/1996 09:57:54
Data File  : C:\DX\DATA\96011481.D03
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 3
Analyst    :                               Column:
Detector: CDM-2
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           1 3000 5Hz 0.00 10.00 100000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.26		0.000	67460	568392	1	
2	2.48		0.000	6860	133608	1	
3	3.16	NITRATE	0.470	29628	337814	1	-0.32
Totals			0.470	103948	1039814		

PREP
File: 96011481.D03 Sample: ELUENT BLANK
SMF 1-14-96

Data Reprocessed On 01/16/1996 10:52:33

Sample Name: S95T003332

Date: 01/14/1996 10:09:56

Data File : C:\DX\DATA\96011481.d04

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 4

Detector: CDM-2

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	35.736	3941677	24853510	1	-2.80
2	1.56	CHLORIDE	4.053	275770	1530748	1	-0.64
3	2.76	BROMIDE	10.634	46707	297776	1	-0.36
4	3.12	NITRATE	252.848	9202082	74754886	1	-1.58
5	4.56	PHOSPHATE	21.054	154911	1953570	1	-0.87
6	6.10	SULFATE	9.926	22140	316452	1	0.49
7	8.02	OXALATE	13.817	120438	2033178	1	0.25
Totals			348.068	13763725	105740120		

File: 96011481.d04 Sample: S95T003332

Data Reprocessed On 01/16/1996 10:52:34

```

=====
Sample Name: S95T003332  DUP                               Date: 01/14/1996 10:21:28
Data File  : C:\DX\DATA\96011481.d05
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 5                         Detector: CDM-2
Analyst    :                               Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           21  3000  5Hz   0.00 10.00   100000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	32.617	4028405	22535557	2	-0.93
2	1.56	CHLORIDE	3.690	247585	1362556	2	-0.64
3	2.76	BROMIDE	10.886	49009	355996	1	-0.36
4	3.12	NITRATE	232.477	8441732	68330628	1	-1.58
5	4.56	PHOSPHATE	20.027	132373	1803540	1	-0.87
6	6.12	SULFATE	9.812	19739	273108	1	0.82
7	8.02	OXALATE	14.707	118697	2290494	1	0.25
Totals			324.217	13037539	96951879		

File: 96011481.d05 Sample: S95T003332 DUP

Data Reprocessed On 01/16/1996 10:52:36

```

=====
Sample Name: S95T003333                               Date: 01/14/1996 10:35:20
Data File  : C:\DX\DATA\96011481.d06
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 6                     Detector: CDM-2
Analyst    :                                           Column:
=====

```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21  3000  5Hz  0.00 10.00  100000
-----

```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	36.228	4034089	25221386	1	-2.80
2	1.56	CHLORIDE	4.479	311174	1728070	1	-0.64
3	2.76	BROMIDE	10.832	55482	343560	1	-0.36
4	3.10	NITRATE	259.659	9563996	76911192	1	-2.21
5	4.54	PHOSPHATE	19.427	149685	1715906	1	-1.30
6	6.08	SULFATE	10.429	21997	508853	2	0.16
7	6.84		0.000	18007	490678	2	
8	7.98	OXALATE	14.731	129973	2297238	1	-0.25
Totals			355.784	14284401	109216882		

File: 96011481.d06 Sample: S95T003333

Data Reprocessed On 01/16/1996 10:52:38

```

=====
Sample Name: S95T003333  DUP                      Date: 01/14/1996 10:47:19
Data File  : C:\DX\DATA\96011481.d07
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1  System: 2  Inject#: 7              Detector: CDM-2
Analyst    :                      Column:
=====
  
```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1          21    3000  5Hz   0.00 10.00   100000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	34.489	4292727	23923978	1	-0.93
2	1.56	CHLORIDE	4.557	320680	1764170	1	-0.64
3	2.76	BROMIDE	11.031	59581	389808	1	-0.36
4	3.10	NITRATE	248.380	8948850	73342856	1	-2.21
5	4.54	PHOSPHATE	19.743	151924	1762056	1	-1.30
6	6.04	SULFATE	10.283	31350	453048	1	-0.49
7	7.98	OXALATE	15.878	123440	2628904	1	-0.25
Totals			344.361	13928551	104264820		

File: 96011481.d07 Sample: S95T003333 DUP

Data Reprocessed On 01/16/1996 10:52:40

```

=====
Sample Name: S95T003332                               Date: 01/14/1996 11:03:52
Data File  : C:\DX\DATA\96011481.d08
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 8                     Detector: CDM-2
Analyst    :                                           Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           5    3000  5Hz   0.00 10.00   100000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	31.491	21135279	114603951	2	-0.93
2	1.56	CHLORIDE	3.416	1082333	6338673	2	-0.64
3	1.86	NITRITE	2.488	106304	628324	1	-0.53
4	2.74	BROMIDE	3.632	219840	1368966	1	-1.08
5	3.02	NITRATE	248.791	39121500	361275469	2	-4.73
6	4.52	PHOSPHATE	14.495	630671	7806315	2	-1.74
7	6.04	SULFATE	2.845	73896	1090716	1	-0.49
8	7.94	OXALATE	9.948	552579	10132032	1	-0.75
Totals			317.105	62922403	503244447		

File: 96011481.d08 Sample: S95T003332

Data Reprocessed On 01/16/1996 10:52:42

```

=====
Sample Name: S95T003332  DUP                               Date: 01/14/1996 11:25:20
Data File  : C:\DX\DATA\96011481.d09
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1  System: 2  Inject#: 9                      Detector: CDM-2
Analyst    :                               Column:
=====
  
```

```

Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           4    3000  5Hz   0.00 10.00   100000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	29.806	24579205	148579842	1	-2.80
2	1.54	CHLORIDE	3.337	1401192	7837490	1	-1.91
3	1.84	NITRITE	2.073	136257	777272	1	-1.60
4	2.72	BROMIDE	3.173	283450	1695196	1	-1.81
5	2.98		0.000	48517593	463500642	1	
6	4.52	PHOSPHATE	13.477	792937	9267982	1	-1.74
7	6.04	SULFATE	2.520	99077	1580198	1	-0.49
8	7.92	OXALATE	9.544	692606	12548428	1	-1.00
Totals			63.930	76502317	645787050		

File: 96011481.d09 Sample: S95T003332 DUP

Data Reprocessed On 01/16/1996 10:52:44

Sample Name: S95T003332 DUP Date: 01/14/1996 11:43:33
 Data File : C:\DX\DATA\96011481.d10
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 10 Detector: CDM-2
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	4	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	28.074	25073855	134678295	2	-0.93
2	1.56	CHLORIDE	3.135	1364104	7336855	2	-0.64
3	1.84	NITRITE	2.035	116538	708920	1	-1.60
4	2.74	BROMIDE	3.014	247516	1501198	1	-1.08
5	3.00		0.000	44345096	431174106	1	
6	4.56	PHOSPHATE	12.928	748510	8840998	1	-0.87
7	6.10	SULFATE	2.454	93482	1448036	1	0.49
8	7.98	OXALATE	8.580	611194	11078628	1	-0.25
Totals			60.221	72600294	596767036		

File: 96011481.d10 Sample: S95T003332 DUP

Data Reprocessed On 01/16/1996 10:52:45

Sample Name: S95T003332

Date: 01/14/1996 11:56:39

Data File : C:\DX\DATA\96011481.d11

Method : C:\DX\METHOD\ANIONS.MET

ACI Address: 1 System: 2 Inject#: 11

Detector: CDM-2

Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	4	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	29.398	27430443	145144045	2	-0.93
2	1.56	CHLORIDE	3.368	1481070	7914001	2	-0.64
3	1.84	NITRITE	2.087	130573	802624	1	-1.60
4	2.74	BROMIDE	3.089	279534	1592332	1	-1.08
5	3.00		0.000	48575933	467153708	1	
6	4.54	PHOSPHATE	15.188	817270	10600382	1	-1.30
7	6.08	SULFATE	2.347	91473	1233616	1	0.16
8	7.98	OXALATE	10.056	702564	13329482	1	-0.25
Totals			65.533	79508860	647770190		

File: 96011481.d11 Sample: S95T003332

Data Reprocessed On 01/16/1996 10:52:47

```

=====
Sample Name: S95T003333                               Date: 01/14/1996 13:41:32
Data File  : C:\DX\DATA\96011481.d12
Method     : C:\DX\METHOD\ANIONS.MET
ACI Address: 1 System: 2 Inject#: 12                   Detector: CDM-2
Analyst    :                                           Column:
=====
  
```

```

-----
Calibration Volume Dilution Points Rate Start Stop Area Reject
-----
External          1           4    3000  5Hz   0.00 10.00    100000
  
```

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.06	FLUORIDE	30.873	28814339	158149185	2	-0.93
2	1.54	CHLORIDE	3.846	1476245	9104831	2	-1.91
3	1.84	NITRITE	2.182	155860	971913	2	-1.60
4	2.74	BROMIDE	3.321	330488	1875783	2	-1.08
5	2.98		0.000	51039685	503870338	2	
6	4.52	PHOSPHATE	15.312	864956	10697397	2	-1.74
7	6.06	SULFATE	2.473	104180	1485528	1	-0.16
8	7.92	OXALATE	9.926	713642	13131006	1	-1.00
Totals			67.932	83499397	699285981		

File: 96011481.d12 Sample: S95T003333

Data Reprocessed On 01/16/1996 10:52:49

Sample Name: S95T003333 DUP	Date: 01/14/1996 13:54:33
Data File : C:\DX\DATA\96011481.d13	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 13	Detector: CDM-2
Analyst :	Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	4	3000	5Hz	0.00	10.00		100000

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.04	FLUORIDE	29.466	24771035	145710256	2	-2.80
2	1.54	CHLORIDE	3.255	1377416	7634136	2	-1.91
3	1.84	NITRITE	2.039	131406	715424	1	-1.60
4	2.74	BROMIDE	3.257	312213	1797930	1	-1.08
5	3.00		0.000	48404167	466820996	1	
6	4.52	PHOSPHATE	14.838	797954	10327468	1	-1.74
7	6.06	SULFATE	2.482	113288	1504148	1	-0.16
8	7.94	OXALATE	9.949	689027	13165612	1	-0.75
Totals			65.286	76596507	647675970		

File: 96011481.d13 Sample: S95T003333 DUP

Data Reprocessed On 01/16/1996 10:52:51

Sample Name: S95T003332 SPK Date: 01/14/1996 14:06:07
 Data File : C:\DX\DATA\96011481.d14
 Method : C:\DX\METHOD\ANIONS.MET
 ACI Address: 1 System: 2 Inject#: 14 Detector: CDM-2
 Analyst : Column:

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00	100000	

***** Peak Report: All Peaks *****

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	53290	187600	1	
2	1.06	FLUORIDE	47.368	6212364	33716233	1	-0.93
3	1.56	CHLORIDE	19.240	1612758	8653232	1	-0.64
4	1.84	NITRITE	111.502	5529913	35398480	1	-1.60
5	2.74	BROMIDE	119.223	3878672	25862017	2	-1.08
6	3.08	NITRATE	384.026	14080189	117025785	2	-2.84
7	4.52	PHOSPHATE	128.568	1521722	17908884	1	-1.74
8	6.04	SULFATE	133.468	3429643	48348358	1	-0.49
9	7.94	OXALATE	120.422	1840357	33064490	1	-0.75
Totals			1063.818	38158908	320165079		

File: 96011481.d14 Sample: S95T003332 SPK

Peak Report: All Peaks

LABCORE Data Entry Template for Worklist# 5085

Analyst: JMF Instrument: IC01 _____ Book# _____

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: IC FOR B-204 (BR-REQUIRED BUT, REPORT ALL DET PASSING QC RTS!)

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	S95T003096 0 W			@IC-01	SOLID	95000158	B-204
		Analytes Requested: F-02						
5	DUP	S95T003096 0 W			@IC-01	SOLID		
6	SPK	S95T003096 0 W			@IC-01	SOLID		
7	SAMPLE	S95T003097 0 W			@IC-01	SOLID	95000158	B-204
		Analytes Requested: F-02						
8	DUP	S95T003097 0 W			@IC-01	SOLID		

Final page for worklist # 5085

J.M. Luge 1/22/96
Analyst Signature Date

Analyst Signature Date

This was run previously and the standard failed QC on F, so F was not reported but will not be rerun because it was an opportunistic analyte. JML
posted: 1/22/96

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 5086

Analyst: JMF Instrument: IC01 Book# _____

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: IC FOR B-204 (BR-REQUIRED BUT, REPORT ALL DET PASSING QC RTS!

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	S95T003099 0 W	@IC-01	SOLID		95000158	B-204
	Analytes Requested: CL-02		, F-02			
5 DUP	S95T003099 0 W	@IC-01	SOLID			
6 SPK	S95T003099 0 W	@IC-01	SOLID			
7 SAMPLE	S95T003100 0 W	@IC-01	SOLID		95000158	B-204
	Analytes Requested: CL-02		, F-02			
8 DUP	S95T003100 0 W	@IC-01	SOLID			

Final page for worklist # 5086

Jared M. Luyke 1/22/96
Analyst Signature Date

Analyst Signature Date

Was run previously & C1 & F standards failed.
The results were rejected, but will not be
re-run as they were opportunistic analytes. C1 & F
will be reported as failed QC.

JM Luyke
1/22/96

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 5087

Analyst: JMF Instrument: IC01 Book# _____

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: IC FOR B-204 (BR-REQUIRED BUT,REPORT ALL DET PASSING QC RTS!

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	S95T003310	0 W	@IC-01	SOLID	95000161	B-204
	Analytes Requested: F-02					
5 DUP	S95T003310	0 W	@IC-01	SOLID		
6 SPK	S95T003310	0 W	@IC-01	SOLID		
7 SAMPLE	S95T003311	0 W	@IC-01	SOLID	95000161	B-204
	Analytes Requested: F-02					
8 DUP	S95T003311	0 W	@IC-01	SOLID		

Final page for worklist # 5087

Jm Lye 1/22/96
Analyst Signature Date

Analyst Signature Date

F failed QC when there were none. These were opportunistic analytes so they will not be rerun. These results were rejected & will be reported as failed QC. Jm Lye 1/22/96

Data Entry Comments:

10/27/95 09:23
A-0004-1

FILE # 25110011

WHC-SD-WM-DP-160, REV. 1

Page: 1

LABCORE Data Entry Template for Worklist# 3064

Analyst: B. GOECKE Instrument: ICP01 Book# 48184813

Method: LA-505-151/¹¹⁻⁰⁶⁻⁹¹~~161~~ Rev/Mod D-2

Worklist Comment: ICP B-204 (DIRECT)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	SAMPLE	S95T002976 0 D	@ICP-D01	LIQUID	95000158	B-204
	Analytes Requested: AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01					
6	DUP	S95T002976 0 D	@ICP-D01	LIQUID		
7	SPK	S95T002976 0 D	@ICP-D01	LIQUID		
8	CCV		@ICP-QC	QC		
9	CCB		@ICP-QC	QC		
10	SAMPLE	S95T002984 0 D	@ICP-D01	LIQUID	95000158	B-204
	Analytes Requested: AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01					
11	DUP	S95T002984 0 D	@ICP-D01	LIQUID		
12	SPK	S95T002984 0 D	@ICP-D01	LIQUID		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 3064

S Type	Sample#	R A	Test	Matrix	Group#	Project
13	ICSA		@ICP-QC	QC		
14	ICSAB		@ICP-QC	QC		
15	CCV		@ICP-QC	QC		
16	CCB		@ICP-QC	QC		

Final page for worklist # 3064

D. F. 11-06-95
Analyst Signature Date

Sam M. Perry 11/8/95
Analyst Signature Date

585T002976-L 105mL-10mL-2mL-8mL
 585T002976 105mL-10mL
 585T002976-D 105mL-10mL
 585T002976-A 105mL-2mL-8mL
 585T002984-L 105mL-10mL-2mL-8mL
 585T002984 105mL-10mL
 585T002984-D 105mL-10mL
 585T002984-A 105mL-2mL-8mL

D.F.
 1005
 201
 201
 201
 1005
 201
 201
 201

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Identity 1: ICV Identity 2: Quality Control

10:00 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

WHC-SD-WM-DP-160, REV.1

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	5.045	5.033	5.101	4.945	5.066	5.146	5.135	5.027
S.D.	0.010	0.014	0.008	0.005	0.008	0.010	0.018	0.036
% R.S.D.	0.199	0.282	0.161	0.092	0.150	0.185	0.348	0.718
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	5.166	5.138	5.103	5.199	5.015	5.180	5.236	9.698
S.D.	0.006	0.014	0.018	0.023	0.012	0.012	0.028	0.022
% R.S.D.	0.122	0.274	0.348	0.438	0.244	0.241	0.540	0.224
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	5.100	4.927	5.033	5.357	5.104	4.958	5.190	5.014
S.D.	0.006	0.015	0.016	0.072	0.063	0.003	0.025	0.030
% R.S.D.	0.126	0.308	0.318	1.349	1.235	0.063	0.477	0.606
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	5.130	5.243	5.020	5.155	4.924	5.175	5.133	5.067
S.D.	0.006	0.033	0.004	0.009	0.009	0.005	0.019	0.045
% R.S.D.	0.126	0.629	0.088	0.181	0.179	0.097	0.375	0.879
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	5.111	4.765	5.080	5.290	4.902			
S.D.	0.005	0.052	0.007	0.011	0.010			
% R.S.D.	0.105	1.100	0.135	0.209	0.212			

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 801 TO 819.

Identity 1: ICB Identity 2: Quality Control 10:05 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-160, REV (

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.006	-0.000	0.018	0.011	0.004	-0.001	0.000	-0.000
S.D.	0.001	0.000	0.009	0.002	0.003	0.003	0.000	0.000
% R.S.D.	10.941	34.641	48.119	13.551	81.567	336.603	133.311	141.964
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	0.003	0.004	0.003	0.000	-0.001	-0.015	0.217
S.D.	0.000	0.002	0.000	0.002	0.000	0.001	0.004	0.045
% R.S.D.	60.328	77.770	0.492	76.727	23.369	68.073	27.781	20.872
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.004	-0.004	-0.000	-0.009	-0.006	0.000	0.003	0.008
S.D.	0.009	0.007	0.000	0.012	0.003	0.000	0.002	0.003
% R.S.D.	220.612	174.526	161.538	127.991	53.022	57.735	81.000	41.655
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.046	-0.001	-0.012	0.002	0.002	0.002	0.008
S.D.	0.001	0.020	0.000	0.004	0.000	0.001	0.000	0.019
% R.S.D.	127.638	43.154	58.709	31.586	13.947	32.949	19.677	237.792
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.000	-0.027	-0.000	0.000	-0.032			
S.D.	0.000	0.012	0.001	0.000	0.025			
% R.S.D.	44.995	45.115	166.801	838.338	77.250			

Identity 1: ICSA Identity 2: Quality Control 10:09 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-160, REV. I

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.013	0.002	0.011	0.036	204.642	0.005	0.004	-0.000
S.D.	0.000	0.000	0.013	0.002	0.612	0.000	0.000	0.000
% R.S.D.	3.792	2.279	120.695	4.800	0.299	0.272	5.903	105.375

	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	-0.005	0.009	0.006	99.641	105.823	0.001	-0.031	0.220
S.D.	0.001	0.004	0.001	0.129	0.104	0.003	0.003	0.029
% R.S.D.	12.084	39.728	20.946	0.129	0.099	208.210	8.417	13.038

	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.014	0.033	0.004	0.053	0.039	107.290	0.014	190.205
S.D.	0.005	0.002	0.000	0.009	0.007	0.336	0.010	1.396
% R.S.D.	39.149	6.418	3.595	17.802	16.752	0.313	73.445	0.734

	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.000	0.003	0.000	-0.025	0.003	0.003	0.014	-0.038
S.D.	0.000	0.012	0.000	0.008	0.000	0.000	0.000	0.005
% R.S.D.	754.159	369.694	141.491	30.426	11.874	10.042	2.735	14.240

	Mn	Sb	V	Be	Tl
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.005	0.016	-0.001	0.003	-0.005
S.D.	0.001	0.026	0.000	0.000	0.010
% R.S.D.	11.779	170.257	82.120	7.553	200.560

Identity 1: ICSAB Identity 2: Quality Control 10:13 AM November 6, 1995
 Task name : OPTIMA
 Sample Weight : 1.0000 Solution Volume : 1.00
 On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.010	0.002	-0.003	0.029	202.829	0.505	0.504	0.916
S.D.	0.001	0.000	0.011	0.002	1.038	0.003	0.003	0.005
% R.S.D.	8.366	7.347	361.844	6.832	0.512	0.585	0.581	0.560

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.000	0.984	0.006	98.095	104.422	0.510	-0.018	0.179
S.D.	0.001	0.001	0.002	0.150	0.389	0.003	0.010	0.048
% R.S.D.	0.071	0.133	30.455	0.153	0.373	0.580	58.279	26.614

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.039	0.025	0.504	0.060	0.044	107.630	0.013	187.042
S.D.	0.013	0.011	0.003	0.016	0.015	0.357	0.008	1.040
% R.S.D.	32.095	42.332	0.515	26.488	35.204	0.332	60.092	0.556

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.016	1.015	0.989	0.002	1.007	0.016	0.061
S.D.	0.001	0.025	0.001	0.025	0.000	0.003	0.001	0.013
% R.S.D.	81.604	155.163	0.140	2.575	21.522	0.258	3.522	21.373

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.506	0.009	0.494	0.504	-0.004
S.D.	0.000	0.027	0.001	0.002	0.015
% R.S.D.	0.024	286.604	0.268	0.486	339.164

Identity 1: S95T002976_L Identity 2: .05ml-10ml-2ml-8ml

10:19 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1005.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-160, REV. I

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.447	-0.180	33.645	57.868	-1.845	-4.995	-0.073	1.035
S.D.	0.866	0.060	4.621	1.250	2.914	0.003	0.191	0.238
% R.S.D.	19.473	33.333	13.734	2.160	157.942	0.058	261.067	23.014
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.675	4.633	2.218	3.785	0.783	152.824	-7.538	316.951
S.D.	0.084	0.805	1.887	1.521	0.191	1.400	8.533	22.562
% R.S.D.	4.992	17.371	85.068	40.181	24.334	0.916	113.204	7.118
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-16.285	4.476	-0.299	693.941	134.987	0.654	-5.883	29537.260
S.D.	5.942	5.552	0.132	26.380	5.129	0.250	7.488	43.112
% R.S.D.	36.487	124.050	44.305	3.801	3.799	38.188	127.275	0.146
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	2.623	5.782	-1.978	-9.503	2.444	-0.753	3.683	6211.551
S.D.	0.610	6.283	0.404	8.578	0.348	0.293	1.168	45.060
% R.S.D.	23.264	108.651	20.406	90.268	14.247	38.919	31.719	0.725
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.150	19.081	-2.133	0.041	-43.027			
S.D.	0.326	18.770	0.368	0.115	17.197			
% R.S.D.	216.885	98.369	17.249	279.463	39.968			

Identity 1: zzz Identity 2: zzz 10:25 AM November 6, 1995

W/HC-SD-WM-DP-160, REV.1

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1005.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	4.495	1.517	32.438	11.176	47.605	8.906	2.263	2.005
S.D.	0.347	0.091	12.231	0.857	1.342	1.718	0.204	0.232
% R.S.D.	7.726	6.030	37.704	7.672	2.819	19.287	8.995	11.578
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	2.451	1.710	3.366	39.642	37.732	-1.080	-1.936	110.713
S.D.	0.096	0.967	2.854	1.920	0.034	2.387	2.830	32.797
% R.S.D.	3.936	56.571	84.810	4.843	0.091	221.084	146.223	29.624
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	10.546	-27.746	1.710	11.519	3.967	31.562	2.437	-292.786
S.D.	6.750	3.481	0.090	10.610	1.867	0.094	3.034	685.153
% R.S.D.	64.006	12.545	5.270	92.109	47.068	0.299	124.495	234.012
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	2.617	-13.427	-1.367	-8.868	3.178	3.968	1.620	115.658
S.D.	0.910	7.230	0.667	6.150	0.173	0.586	0.799	141.130
% R.S.D.	34.772	53.848	48.823	69.352	5.435	14.778	49.335	122.023
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	2.215	25.071	-0.399	1.613	24.213			
S.D.	0.285	22.741	0.740	0.119	7.941			
% R.S.D.	12.875	90.708	185.546	7.406	32.797			

Identity 1: S95T002976 Identity 2: .05ml-10ml

10:28 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 201.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.703	0.008	3.055	49.735	0.046	1.564	0.243	1.498
S.D.	0.068	0.014	1.017	0.732	0.482	0.344	0.035	0.020
% R.S.D.	9.597	173.205	33.305	1.471	1046.980	21.990	14.215	1.348

	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	8.835	0.723	0.000	0.529	1.601	153.505	-1.084	179.068
S.D.	0.084	0.329	0.519	0.211	0.001	1.343	1.458	7.041
% R.S.D.	0.954	45.501	123785.213	39.798	0.060	0.875	134.502	3.932

	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	4.009	-2.315	0.062	687.606	135.326	0.109	-0.919	28361.943
S.D.	1.320	0.980	0.014	5.958	1.575	0.019	1.095	111.275
% R.S.D.	32.942	42.331	22.878	0.867	1.164	17.321	119.196	0.392

	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.238	-4.218	-0.190	-4.922	0.370	0.309	4.133	6083.526
S.D.	0.166	2.162	0.049	0.327	0.076	0.078	0.221	23.687
% R.S.D.	69.991	51.266	25.884	6.644	20.496	25.064	5.353	0.389

	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	-0.004	1.031	-0.060	0.103	-1.489			
S.D.	0.032	1.610	0.169	0.047	4.081			
% R.S.D.	861.497	156.096	283.909	45.620	274.076			

Identity 1: S95T002976_D Identity 2: .05ml-10ml

10:31 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 201.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	1.072	-0.016	6.371	50.407	-1.598	0.373	0.069	1.313
S.D.	0.161	0.007	4.393	0.121	0.530	0.343	0.025	0.046
% R.S.D.	14.994	43.301	68.945	0.240	33.169	92.052	36.745	3.535
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.486	0.941	0.091	0.171	0.257	152.273	-3.150	195.400
S.D.	0.034	0.368	0.142	0.425	0.007	1.005	1.184	2.350
% R.S.D.	6.906	39.120	156.765	248.433	2.700	0.660	37.578	1.203
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-1.398	1.470	-0.039	689.914	131.809	0.076	0.272	28258.321
S.D.	1.083	0.846	0.018	4.401	3.427	0.038	0.284	104.021
% R.S.D.	77.479	57.523	45.922	0.638	2.600	49.487	104.365	0.368
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.308	1.401	-0.326	-0.736	0.439	0.361	3.944	6007.437
S.D.	0.306	1.332	0.066	0.123	0.077	0.163	0.075	21.070
% R.S.D.	99.493	95.103	20.360	16.671	17.543	45.263	1.905	0.351
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.014	1.836	-0.487	0.039	-10.949			
S.D.	0.033	2.197	0.121	0.000	1.422			
% R.S.D.	229.328	119.641	24.934	0.788	12.987			

Identity 1: S95T002976_A Identity 2: .05ml-2ml-8ml

10:34 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 201.00

W/C-SD-WM-DP-160, REV. I

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	206.238	205.471	210.618	249.616	201.503	205.682	208.643	195.927
S.D.	0.342	0.304	3.068	1.058	1.496	0.686	0.702	1.763
% R.S.D.	0.166	0.148	1.456	0.424	0.742	0.334	0.337	0.900

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	203.363	206.310	207.323	208.897	200.921	359.196	213.308	599.582
S.D.	0.384	0.379	0.002	1.181	0.187	1.715	1.985	5.161
% R.S.D.	0.189	0.184	0.001	0.565	0.093	0.478	0.930	0.861

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	208.509	200.906	204.704	912.876	330.535	192.323	210.274	28726.022
S.D.	1.080	0.202	0.346	10.783	4.651	0.301	0.189	232.011
% R.S.D.	0.518	0.100	0.169	1.181	1.407	0.157	0.090	0.808

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	205.249	228.115	178.742	201.781	199.074	205.922	205.750	6223.951
S.D.	0.611	1.967	0.517	2.531	0.280	0.410	0.890	54.473
% R.S.D.	0.298	0.862	0.289	1.254	0.140	0.199	0.433	0.875

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	204.542	187.484	203.983	210.598	190.598
S.D.	0.848	2.625	0.245	0.101	1.971
% R.S.D.	0.415	1.400	0.120	0.048	1.034

Identity 1: CCV Identity 2: Quality Control 10:41 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

WHC-SD-WM-DP-160, REV. I

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	5.083	5.067	5.144	4.976	5.092	5.187	5.146	4.977
S.D.	0.009	0.012	0.005	0.001	0.006	0.005	0.017	0.038
% R.S.D.	0.173	0.247	0.107	0.027	0.122	0.087	0.330	0.763
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.199	5.176	5.122	5.242	5.032	5.227	5.317	9.726
S.D.	0.005	0.012	0.002	0.023	0.010	0.007	0.022	0.030
% R.S.D.	0.095	0.239	0.042	0.441	0.195	0.132	0.406	0.309
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.160	4.950	5.058	5.455	5.148	4.998	5.217	4.990
S.D.	0.013	0.015	0.015	0.127	0.048	0.003	0.041	0.031
% R.S.D.	0.248	0.294	0.302	2.323	0.931	0.059	0.780	0.613
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.163	5.329	5.045	5.168	4.943	5.207	5.159	5.023
S.D.	0.008	0.016	0.003	0.036	0.008	0.005	0.013	0.037
% R.S.D.	0.154	0.305	0.054	0.689	0.166	0.098	0.250	0.739
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	5.141	4.782	5.110	5.320	4.952			
S.D.	0.003	0.012	0.002	0.009	0.015			
% R.S.D.	0.065	0.246	0.034	0.176	0.311			

Identity 1: CCB Identity 2: Quality Control 10:45 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

WHC-SD-WM-DP-160, REV. I

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.007	-0.000	0.022	0.010	-0.006	-0.004	-0.000	-0.000
S.D.	0.000	0.000	0.007	0.001	0.001	0.002	0.000	0.000
% R.S.D.	2.874	24.744	34.345	12.047	17.399	42.935	146.117	94.378
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.001	0.001	0.005	-0.003	0.000	-0.003	-0.012	0.237
S.D.	0.001	0.002	0.003	0.003	0.000	0.001	0.010	0.015
% R.S.D.	60.813	184.078	61.675	101.882	15.378	26.612	87.030	6.151
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	-0.006	0.007	-0.000	0.012	-0.002	0.000	-0.005	0.008
S.D.	0.003	0.006	0.000	0.009	0.001	0.000	0.005	0.002
% R.S.D.	44.866	77.013	41.929	75.563	80.630	57.735	104.140	31.485
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.002	-0.015	-0.001	-0.005	0.003	0.000	0.004	0.061
S.D.	0.001	0.011	0.000	0.009	0.000	0.000	0.001	0.005
% R.S.D.	32.925	70.617	24.621	194.439	10.472	5339.391	15.993	8.248
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	0.000	-0.042	-0.001	0.000	-0.040			
S.D.	0.000	0.010	0.000	0.000	0.013			
% R.S.D.	102.687	24.022	35.981	71.171	31.087			

Identity 1: S95T002984_L Identity 2: .05ml-10ml-2ml-8ml

10:49 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1005.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

VHC-SD-WM-DP-160, REV. 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	4.970	0.180	35.328	64.614	2.806	3.920	0.199	128.282
S.D.	0.996	0.104	4.018	1.573	4.698	0.005	0.214	0.912
% R.S.D.	20.043	57.735	11.375	2.434	167.416	0.119	107.463	0.711
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	7.176	3.734	0.578	-0.872	20.316	142.703	-5.068	356.133
S.D.	0.269	1.766	1.246	2.392	0.091	1.897	6.345	36.153
% R.S.D.	3.748	47.293	215.518	274.360	0.447	1.329	125.187	10.151
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	-11.574	12.515	1.794	666.220	123.095	0.218	-0.540	27450.207
S.D.	11.658	3.352	0.113	18.823	4.849	0.094	4.662	231.917
% R.S.D.	100.721	26.784	6.315	2.825	3.939	43.301	863.292	0.845
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	-0.246	-28.446	-1.973	-21.858	2.494	-1.004	6.585	5703.077
S.D.	1.717	17.074	0.723	7.341	0.493	0.816	0.429	67.416
% R.S.D.	698.086	60.023	36.622	33.585	19.756	81.227	6.512	1.182
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	0.318	-47.148	-0.726	-0.087	-9.446			
S.D.	0.167	5.247	0.621	0.203	18.463			
% R.S.D.	52.677	11.129	85.511	233.385	195.459			

Identity 1: S95T002984 Identity 2: .05ml-10ml 10:52 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 201.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.638	0.331	8.458	60.023	0.256	-0.021	0.119	125.810
S.D.	0.120	0.018	0.674	0.174	0.010	0.342	0.037	0.543
% R.S.D.	18.877	5.521	7.974	0.290	4.009	1632.139	31.186	0.431
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.559	0.601	-0.003	-0.398	3.645	145.636	0.221	173.398
S.D.	0.083	0.244	0.382	0.279	0.020	0.731	0.604	6.510
% R.S.D.	14.803	40.601	15226.680	70.020	0.543	0.502	273.182	3.754
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.147	0.765	1.958	677.507	124.962	0.054	-0.337	26801.626
S.D.	2.211	1.237	0.023	2.723	2.533	0.000	0.310	121.881
% R.S.D.	1503.490	161.708	1.157	0.402	2.027	0.000	91.945	0.455
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.197	5.041	-0.095	-2.325	0.297	0.106	5.424	5602.260
S.D.	0.097	2.423	0.049	0.251	0.062	0.163	0.126	31.761
% R.S.D.	49.269	48.063	51.037	10.811	21.003	153.180	2.323	0.567
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.090	-5.924	-0.207	0.022	-11.598			
S.D.	0.097	6.494	0.072	0.062	2.664			
% R.S.D.	108.528	109.634	34.552	275.629	22.970			

Identity 1: S95T002984_D Identity 2: .05ml-10ml 10:55 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 201.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.534	0.275	12.242	59.332	-0.313	1.566	0.296	123.867
S.D.	0.318	0.021	3.047	0.227	0.849	0.908	0.122	0.934
% R.S.D.	59.607	7.531	24.893	0.383	271.269	57.965	41.165	0.754
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.726	0.113	-0.173	0.213	0.818	145.513	2.827	163.334
S.D.	0.051	0.406	0.141	0.407	0.013	0.418	1.520	7.166
% R.S.D.	7.056	360.882	81.964	191.217	1.649	0.287	53.755	4.387
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.984	-4.729	1.564	653.489	122.405	0.033	0.091	26352.363
S.D.	2.305	1.620	0.031	19.697	2.090	0.019	0.678	187.549
% R.S.D.	46.246	34.261	1.974	3.014	1.708	57.735	747.072	0.712
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.549	2.245	0.243	-5.043	0.279	0.292	5.785	5604.296
S.D.	0.263	1.011	0.130	0.613	0.058	0.128	0.081	39.571
% R.S.D.	47.921	45.014	53.261	12.158	20.765	43.754	1.395	0.706
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.074	0.856	0.351	0.114	1.173			
S.D.	0.065	4.732	0.067	0.001	4.516			
% R.S.D.	87.554	552.977	19.230	0.811	385.056			

Identity 1: S95T002984_A Identity 2: .05ml-2ml-8ml

11:00 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 201.00

VHC-SD-WM-DP-160, REV. I

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	204.544	203.056	212.368	259.589	200.091	207.073	205.269	313.683
S.D.	0.150	0.138	2.835	0.512	0.720	0.594	0.270	2.491
% R.S.D.	0.073	0.068	1.335	0.197	0.360	0.287	0.131	0.794
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	206.167	206.353	205.817	209.141	198.497	354.546	216.404	567.507
S.D.	0.216	0.355	0.897	0.127	0.146	0.535	0.676	3.379
% R.S.D.	0.105	0.172	0.436	0.061	0.073	0.151	0.312	0.595
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	204.882	194.739	202.821	876.525	325.769	193.452	209.827	26270.377
S.D.	1.187	0.750	0.176	29.576	5.129	0.428	2.595	199.168
% R.S.D.	0.579	0.385	0.087	3.374	1.574	0.221	1.237	0.758
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	205.148	220.605	172.897	208.131	196.926	206.547	209.552	5745.597
S.D.	0.484	1.480	0.495	3.941	0.248	0.367	0.681	47.634
% R.S.D.	0.236	0.671	0.286	1.894	0.126	0.178	0.325	0.829
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	205.377	188.312	204.577	209.235	193.653			
S.D.	0.483	9.383	0.564	0.129	0.911			
% R.S.D.	0.235	4.983	0.276	0.061	0.470			

Identity 1: ICSA Identity 2: Quality Control 11:03 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

VHC-SD-WM-DP-160, REV.1

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.014	0.001	-0.000	0.038	204.718	0.005	0.003	-0.000
S.D.	0.000	0.000	0.011	0.003	0.094	0.003	0.000	0.000
% R.S.D.	1.578	2.547	6355.640	7.411	0.046	61.938	9.604	46.085

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.006	0.009	0.008	101.469	106.374	-0.004	-0.033	0.272
S.D.	0.001	0.003	0.003	0.055	0.145	0.002	0.005	0.016
% R.S.D.	14.046	38.644	38.301	0.054	0.136	47.453	14.821	5.907

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.001	0.037	0.004	0.040	0.038	108.063	0.024	188.582
S.D.	0.006	0.002	0.000	0.017	0.004	0.163	0.003	0.914
% R.S.D.	517.555	5.167	2.435	43.309	10.522	0.151	10.913	0.485

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.006	0.016	-0.025	0.003	-0.000	0.015	0.026
S.D.	0.001	0.016	0.001	0.009	0.000	0.000	0.001	0.009
% R.S.D.	47.695	271.673	4.082	35.672	11.635	205.998	6.618	33.679

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.004	0.017	-0.002	0.002	-0.058
S.D.	0.000	0.008	0.001	0.000	0.013
% R.S.D.	10.839	47.724	43.326	5.340	23.008

Identity 1: ICSAB Identity 2: Quality Control 11:06 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

VHC-SD-WM-DP-160. REV. I

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.009	0.001	-0.013	0.035	202.684	0.495	0.511	0.913
S.D.	0.000	0.000	0.003	0.002	0.534	0.005	0.001	0.003
% R.S.D.	4.913	6.840	22.221	5.863	0.264	0.912	0.236	0.356
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.988	0.992	0.009	98.982	105.123	0.505	-0.042	0.238
S.D.	0.001	0.007	0.002	0.068	0.230	0.003	0.008	0.013
% R.S.D.	0.122	0.670	21.286	0.068	0.219	0.618	18.213	5.345
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	-0.006	0.043	0.510	0.048	0.038	106.170	0.023	187.000
S.D.	0.003	0.004	0.001	0.008	0.007	0.168	0.002	0.624
% R.S.D.	54.774	9.181	0.221	17.520	18.644	0.158	10.086	0.334
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	-0.001	0.009	1.009	0.970	0.003	1.010	0.015	-0.017
S.D.	0.001	0.011	0.001	0.009	0.000	0.005	0.001	0.001
% R.S.D.	93.712	127.316	0.120	0.966	7.922	0.528	3.497	7.391
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	0.504	0.002	0.493	0.507	-0.041			
S.D.	0.002	0.011	0.001	0.001	0.000			
% R.S.D.	0.333	642.542	0.150	0.274	0.116			

Identity 1: CCV_1 Identity 2: CCV_1 11:10 AM November 6, 1995

Task name : OPTIMA

VHC-SD-WM-DP-160, REV. I

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	5.083	5.068	5.116	4.933	5.078	5.118	5.161	4.961
S.D.	0.006	0.007	0.032	0.008	0.005	0.003	0.007	0.003
% R.S.D.	0.109	0.147	0.634	0.154	0.101	0.058	0.135	0.059
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.136	5.142	5.145	5.260	5.036	5.177	5.411	9.796
S.D.	0.009	0.009	0.003	0.015	0.008	0.003	0.002	0.004
% R.S.D.	0.168	0.182	0.060	0.280	0.167	0.061	0.038	0.043
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.140	4.977	5.067	5.407	5.065	4.940	5.185	4.988
S.D.	0.009	0.004	0.008	0.023	0.012	0.005	0.012	0.010
% R.S.D.	0.168	0.076	0.149	0.429	0.230	0.097	0.232	0.192
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.095	5.248	5.012	5.145	4.911	5.183	5.160	5.020
S.D.	0.007	0.031	0.004	0.032	0.006	0.002	0.008	0.025
% R.S.D.	0.147	0.593	0.078	0.625	0.127	0.041	0.151	0.501
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	5.110	4.838	5.094	5.303	4.905			
S.D.	0.014	0.031	0.006	0.002	0.005			
% R.S.D.	0.271	0.647	0.119	0.039	0.100			

Identity 1: CCB_1 Identity 2: CCB_1 11:14 AM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

VHC-SD-WM-DP-160, REV. I

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.006	0.000	0.015	0.012	-0.006	0.004	0.001	0.000
S.D.	0.001	0.000	0.021	0.003	0.001	0.003	0.000	0.000
% R.S.D.	14.661	229.129	141.439	28.968	22.180	75.404	54.317	50.916
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.001	-0.001	0.003	0.000	0.000	-0.001	-0.004	0.190
S.D.	0.000	0.003	0.001	0.002	0.000	0.001	0.006	0.038
% R.S.D.	15.622	492.121	42.177	531.073	11.738	101.929	162.225	19.793
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.006	0.003	0.000	-0.007	-0.009	0.000	-0.006	0.026
S.D.	0.011	0.006	0.000	0.010	0.002	0.000	0.004	0.003
% R.S.D.	166.293	219.717	519.615	139.264	22.543	24.744	73.400	12.060
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.001	-0.018	-0.000	-0.024	0.002	0.000	0.005	0.096
S.D.	0.001	0.013	0.001	0.009	0.000	0.001	0.000	0.009
% R.S.D.	122.066	73.240	448.235	39.214	14.928	444.762	3.735	9.392
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	-0.000	0.029	-0.002	0.000	-0.027			
S.D.	0.000	0.013	0.001	0.000	0.020			
% R.S.D.	77.297	44.413	25.638	33.449	73.046			

SP 11/8/95

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	3084	1			ICV	AG				5.0199			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
2	3084	1			ICV	AL				5.0661			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
3	3084	1			ICV	AS				5.1901			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
4	3084	1			ICV	B				5.1331			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
5	3084	1			ICV	BA				5.0332			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
6	3084	1			ICV	BE				5.2904			1.0000	11/06/95	10:01	bfg	0.005 @ICP-QC
7	3084	1			ICV	BI				5.1007			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
8	3084	1			ICV	CA				5.0148			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
9	3084	1			ICV	CD				5.1750			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
10	3084	1			ICV	CE				5.1001			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
11	3084	1			ICV	CO				5.1457			1.0000	11/06/95	10:01	bfg	0.02 @ICP-QC
12	3084	1			ICV	CR				5.1800			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
13	3084	1			ICV	CU				5.1345			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
14	3084	1			ICV	FE				5.1990			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
15	3084	1			ICV	K				5.0675			1.0000	11/06/95	10:01	bfg	0.3 @ICP-QC
16	3084	1			ICV	LA				5.1029			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
17	3084	1			ICV	LI				5.0288			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
18	3084	1			ICV	MG				4.9580			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
19	3084	1			ICV	MN				5.1111			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
20	3084	1			ICV	MO				5.1303			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
21	3084	1			ICV	NA				5.0140			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
22	3084	1			ICV	ND				5.2381			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
23	3084	1			ICV	P				5.1380			1.0000	11/06/95	10:01	bfg	0.02 @ICP-QC
24	3084	1			ICV	PB				5.3567			1.0000	11/06/95	10:01	bfg	0.2 @ICP-QC
25	3084	1			ICV	S				5.1551			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
26	3084	1			ICV	SB				5.1038			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
27	3084	1			ICV	SE				4.7647			1.0000	11/06/95	10:01	bfg	0.2 @ICP-QC
28	3084	1			ICV	SI				5.2435			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
29	3084	1			ICV	SM				4.9447			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
30	3084	1			ICV	SR				4.9273			1.0000	11/06/95	10:01	bfg	0.1 @ICP-QC
31	3084	1			ICV	TI				5.0329			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
32	3084	1			ICV	TL				4.8244			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
33	3084	1			ICV	U				4.9023			1.0000	11/06/95	10:01	bfg	0.2 @ICP-QC
34	3084	1			ICV	V				9.6983			1.0000	11/06/95	10:01	bfg	0.4 @ICP-QC
35	3084	1			ICV	ZN				5.0799			1.0000	11/06/95	10:01	bfg	0.05 @ICP-QC
36	3084	1			ICV	ZN				5.1982			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
37	3084	1			ICV	ZN				5.0449			1.0000	11/06/95	10:01	bfg	0.01 @ICP-QC
38	3084	1			ICB	AG				-0.0008			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
39	3084	1			ICB	AL				0.0039			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
40	3084	1			ICB	AS				0.0027			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
41	3084	1			ICB	B				0.0018			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
42	3084	1			ICB	BA				-0.0001			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
43	3084	1			ICB	BE				0.0000			1.0000	11/06/95	10:06	bfg	0.005 @ICP-QC
44	3084	1			ICB	BI				0.0185			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
45	3084	1			ICB	CA				0.0001			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
46	3084	1			ICB	CD				0.0018			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
47	3084	1			ICB	CE				0.0039			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
48	3084	1			ICB	CO				-0.0010			1.0000	11/06/95	10:06	bfg	0.02 @ICP-QC
49	3084	1			ICB	CR				-0.0010			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
50	3084	1			ICB	CU				0.0003			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
51	3084	1			ICB	FE				0.0028			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
52	3084	1			ICB	K				0.0080			1.0000	11/06/95	10:06	bfg	0.3 @ICP-QC
53	3084	1			ICB	LA				0.0042			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
54	3084	1			ICB	LI				-0.0002			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
55	3084	1			ICB	MG				0.0002			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
56	3084	1			ICB	MN				0.0004			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
57	3084	1			ICB	MO				0.0008			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
58	3084	1			ICB	NA				0.0078			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
59	3084	1			ICB	ND				-0.0153			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
60	3084	1			ICB	NI				0.0026			1.0000	11/06/95	10:06	bfg	0.02 @ICP-QC
61	3084	1			ICB	P				-0.0061			1.0000	11/06/95	10:06	bfg	0.2 @ICP-QC
62	3084	1			ICB	PB				-0.0118			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
63	3084	1			ICB	S				-0.0061			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
64	3084	1			ICB	SB				-0.0275			1.0000	11/06/95	10:06	bfg	0.2 @ICP-QC
65	3084	1			ICB	SE				-0.0485			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
66	3084	1			ICB	SI				0.0114			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
67	3084	1			ICB	SM				-0.0043			1.0000	11/06/95	10:06	bfg	0.1 @ICP-QC
68	3084	1			ICB	SR				-0.0001			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
69	3084	1			ICB	TI				0.0021			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
70	3084	1			ICB	TL				-0.0319			1.0000	11/06/95	10:06	bfg	0.2 @ICP-QC
71	3084	1			ICB	U				0.2170			1.0000	11/06/95	10:06	bfg	0.4 @ICP-QC
72	3084	1			ICB	V				-0.0004			1.0000	11/06/95	10:06	bfg	0.05 @ICP-QC
73	3084	1			ICB	ZN				0.0004			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
74	3084	1			ICB	ZR				0.0057			1.0000	11/06/95	10:06	bfg	0.01 @ICP-QC
75	3084	3			ICSA	AG				0.0003			1.0000	11/06/95	10:10	bfg	0.01 @ICP-QC
76	3084	3			ICSA	AL				204.6421			1.0000	11/06/95	10:10	bfg	0.05 @ICP-QC
77	3084	3			ICSA	AS				0.0138			1.0000	11/06/95	10:10	bfg	0.05 @ICP-QC
78	3084	3			ICSA	B				0.0138			1.0000	11/06/95	10:10	bfg	0.05 @ICP-QC
79	3084	3			ICSA	BA				0.0039			1.0000	11/06/95	10:10	bfg	0.05 @ICP-QC
80	3084	3			ICSA	BE				0.0027			1.0000	11/06/95	10:10	bfg	0.005 @ICP-QC
81	3084	3			ICSA	BI				0.0106			1.0000	11/06/95	10:10	bfg	0.1 @ICP-QC
82	3084	3			ICSA	CA				105.8227			1.0000	11/06/95	10:10	bfg	0.1 @ICP-QC
83	3084	3			ICSA	CD				0.0027			1.0000	11/06/95	10:10	bfg	0.01 @ICP-QC
84	3084	3			ICSA	CE				0.0135			1.0000	11/06/95	10:10	bfg	0.1 @ICP-QC
85	3084	3			ICSA	CO				0.0048			1.0000	11/06/95	10:10	bfg	0.02 @ICP-QC
86	3084	3			ICSA	CR				0.0014			1.0000	11/06/95	10:10	bfg	0.01 @ICP-QC
87	3084	3			ICSA	CU				0.0040			1.0000	11/06/95	10:10	bfg	0.01 @ICP-QC
88	3084	3			ICSA	FE				99.6408			1.0000	11/06/95	10:10	bfg	0.05 @ICP-QC
89	3084	3			ICSA	K				-0.0363			1.0000	11/06/95	10:10	bfg	0.3 @ICP-QC
90	3084	3			ICSA	LA				0.0059			1.0000	11/06/95	10:10	bfg	0.05 @ICP-QC
91	3084	3			ICSA	LI				-0.0001			1.0000	11/06/95	10:10	bfg	0.01 @ICP-QC
92	3084	3			ICSA	MG				107.2896			1.0000	11/06/95	10:10	bfg	0.1 @ICP-QC
93	3084	3															

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
123	3084	4			ICSA	CR				0.5102			1.0000	11/08/95	10:13	bjo	0.01 @ICP-QC
124	3084	4			ICSA	CU				0.5039			1.0000	11/08/95	10:13	bjo	0.01 @ICP-QC
125	3084	4			ICSA	FE				98.0953			1.0000	11/08/95	10:13	bjo	0.05 @ICP-QC
126	3084	4			ICSA	K				0.0612			1.0000	11/08/95	10:13	bjo	0.3 @ICP-QC
127	3084	4			ICSA	LA				0.0061			1.0000	11/08/95	10:13	bjo	0.05 @ICP-QC
128	3084	4			ICSA	LI				0.9159			1.0000	11/08/95	10:13	bjo	0.01 @ICP-QC
129	3084	4			ICSA	MG				107.6297			1.0000	11/08/95	10:13	bjo	0.1 @ICP-QC
130	3084	4			ICSA	MN				0.5062			1.0000	11/08/95	10:13	bjo	0.01 @ICP-QC
131	3084	4			ICSA	MO				-0.0014			1.0000	11/08/95	10:13	bjo	0.05 @ICP-QC
132	3084	4			ICSA	NA				187.0416			1.0000	11/08/95	10:13	bjo	0.1 @ICP-QC
133	3084	4			ICSA	ND				-0.0179			1.0000	11/08/95	10:13	bjo	0.1 @ICP-QC
134	3084	4			ICSA	NI				0.9836			1.0000	11/08/95	10:13	bjo	0.02 @ICP-QC
135	3084	4			ICSA	P				0.0598			1.0000	11/08/95	10:13	bjo	0.2 @ICP-QC
136	3084	4			ICSA	PS				0.9862			1.0000	11/08/95	10:13	bjo	0.1 @ICP-QC
137	3084	4			ICSA	S				0.0437			1.0000	11/08/95	10:13	bjo	0.05 @ICP-QC
138	3084	4			ICSA	SB				0.0093			1.0000	11/08/95	10:13	bjo	0.2 @ICP-QC
139	3084	4			ICSA	SE				-0.0181			1.0000	11/08/95	10:13	bjo	0.1 @ICP-QC
140	3084	4			ICSA	SI				0.0291			1.0000	11/08/95	10:13	bjo	0.05 @ICP-QC
141	3084	4			ICSA	SM				0.0249			1.0000	11/08/95	10:13	bjo	0.1 @ICP-QC
142	3084	4			ICSA	SR				0.0017			1.0000	11/08/95	10:13	bjo	0.01 @ICP-QC
143	3084	4			ICSA	TI				0.0022			1.0000	11/08/95	10:13	bjo	0.01 @ICP-QC
144	3084	4			ICSA	U				-0.0044			1.0000	11/08/95	10:13	bjo	0.2 @ICP-QC
145	3084	4			ICSA	UL				0.1793			1.0000	11/08/95	10:13	bjo	0.4 @ICP-QC
146	3084	4			ICSA	V				0.4845			1.0000	11/08/95	10:13	bjo	0.05 @ICP-QC
147	3084	4			ICSA	ZN				0.9998			1.0000	11/08/95	10:13	bjo	0.01 @ICP-QC
148	3084	4			ICSA	ZR				0.0102			1.0000	11/08/95	10:13	bjo	0.01 @ICP-QC
149	3084	5	S95T002976		AL-D-01					2.0100			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
150	3084	5	S95T002976		AS-D-01					10.0500			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
151	3084	5	S95T002976		AS-D-01					10.0500			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
152	3084	5	S95T002976		B-D-01					10.0500			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
153	3084	5	S95T002976		BA-D-01					10.0500			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
154	3084	5	S95T002976		BE-D-01					1.0050			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
155	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.005 @ICP-D01
156	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
157	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
158	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
159	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
160	3084	5	S95T002976		BE-D-01					4.0200			201.0000	11/08/95	10:28	bjo	0.02 @ICP-D01
161	3084	5	S95T002976		BE-D-01					153.5049			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
162	3084	5	S95T002976		BE-D-01					2.0100			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
163	3084	5	S95T002976		BE-D-01					10.0500			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
164	3084	5	S95T002976		BE-D-01					8083.5239			201.0000	11/08/95	10:28	bjo	0.3 @ICP-D01
165	3084	5	S95T002976		BE-D-01					10.0500			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
166	3084	5	S95T002976		BE-D-01					2.0100			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
167	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
168	3084	5	S95T002976		BE-D-01					2.0100			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
169	3084	5	S95T002976		BE-D-01					10.0500			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
170	3084	5	S95T002976		BE-D-01					28361.9434			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
171	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
172	3084	5	S95T002976		BE-D-01					4.0200			201.0000	11/08/95	10:28	bjo	0.02 @ICP-D01
173	3084	5	S95T002976		BE-D-01					887.8082			201.0000	11/08/95	10:28	bjo	0.2 @ICP-D01
174	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
175	3084	5	S95T002976		BE-D-01					135.3258			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
176	3084	5	S95T002976		BE-D-01					40.2000			201.0000	11/08/95	10:28	bjo	0.2 @ICP-D01
177	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
178	3084	5	S95T002976		BE-D-01					49.7351			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
179	3084	5	S95T002976		BE-D-01					20.1000			201.0000	11/08/95	10:28	bjo	0.1 @ICP-D01
180	3084	5	S95T002976		BE-D-01					2.0100			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
181	3084	5	S95T002976		BE-D-01					2.0100			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
182	3084	5	S95T002976		BE-D-01					40.2000			201.0000	11/08/95	10:28	bjo	0.2 @ICP-D01
183	3084	5	S95T002976		BE-D-01					179.0882			201.0000	11/08/95	10:28	bjo	0.4 @ICP-D01
184	3084	5	S95T002976		BE-D-01					10.0500			201.0000	11/08/95	10:28	bjo	0.05 @ICP-D01
185	3084	5	S95T002976		BE-D-01					8.8350			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
186	3084	5	S95T002976		BE-D-01					2.0100			201.0000	11/08/95	10:28	bjo	0.01 @ICP-D01
187	3084	5	S95T002976		BE-D-01					<2.0100			201.0000	11/08/95	10:31	bjo	0.01 @ICP-D01
188	3084	5	S95T002976		BE-D-01					<10.0500			201.0000	11/08/95	10:31	bjo	0.05 @ICP-D01
189	3084	5	S95T002976		BE-D-01					<10.0500			201.0000	11/08/95	10:31	bjo	0.05 @ICP-D01
190	3084	5	S95T002976		BE-D-01					<10.0500			201.0000	11/08/95	10:31	bjo	0.05 @ICP-D01
191	3084	5	S95T002976		BE-D-01					<10.0500			201.0000	11/08/95	10:31	bjo	0.05 @ICP-D01
192	3084	5	S95T002976		BE-D-01					<1.0050			201.0000	11/08/95	10:31	bjo	0.005 @ICP-D01
193	3084	5	S95T002976		BE-D-01					<20.1000			201.0000	11/08/95	10:31	bjo	0.1 @ICP-D01
194	3084	5	S95T002976		BE-D-01					<20.1000			201.0000	11/08/95	10:31	bjo	0.1 @ICP-D01
195	3084	5	S95T002976		BE-D-01					<2.0100			201.0000	11/08/95	10:31	bjo	0.01 @ICP-D01
196	3084	5	S95T002976		BE-D-01					<20.1000			201.0000	11/08/95	10:31	bjo	0.1 @ICP-D01
197	3084	5	S95T002976		BE-D-01					<4.0200			201.0000	11/08/95	10:31	bjo	0.02 @ICP-D01
198	3084	5	S95T002976		BE-D-01					<4.0200			201.0000	11/08/95	10:31	bjo	0.02 @ICP-D01
199	3084	5	S95T002976		BE-D-01					153.5049			201.0000	11/08/95	10:31	bjo	0.01 @ICP-D01
200	3084	5	S95T002976		BE-D-01					152.2728			201.0000	11/08/95	10:31	bjo	0.01 @ICP-D01
201	3084	5	S95T002976		BE-D-01					<2.0100			201.0000	11/08/95	10:31	bjo	0.01 @ICP-D01
202	3084	5	S95T002976		BE-D-01					<2.0100			201.0000	11/08/95	10:31	bjo	0.01 @ICP-D01
203	3084	5	S95T002976		BE-D-01					<10.0500			201.0000	11/08/95	10:31	bjo	0.05 @ICP-D01
204	3084	5	S95T002976		BE-D-01					<10.0500			201.0000	11/08/95	10:31	bjo	0.3 @ICP-D01
205	3084	5	S95T002976		BE-D-01					8007.4370			201.0000	11/08/95	10:31	bjo	0.05 @ICP-D01
206	3084	5	S95T002976		BE-D-01					<10.0500			201.0000	11/08/95	10:31	bjo	0.05 @ICP-D01
207	3084	5	S95T002976		BE-D-01					<10.0500			201				

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
248	3084	7	S95T002976 A		SPK	NI-D-01		201		206.3098		201.0000	11/06/95	10:34	bip	0.02	@ICP-D01
249	3084	7	S95T002976 A		SPK	P-D-01		201		225.2694		201.0000	11/06/95	10:34	bip	0.2	@ICP-D01
250	3084	7	S95T002976 A		SPK	PB-D-01		201		201.7813		201.0000	11/06/95	10:34	bip	0.1	@ICP-D01
251	3084	7	S95T002976 A		SPK	S-D-01		201		195.2090		201.0000	11/06/95	10:34	bip	0.05	@ICP-D01
252	3084	7	S95T002976 A		SPK	SB-D-01		201		187.4839		201.0000	11/06/95	10:34	bip	0.2	@ICP-D01
253	3084	7	S95T002976 A		SPK	SE-D-01		201		228.1147		201.0000	11/06/95	10:34	bip	0.1	@ICP-D01
254	3084	7	S95T002976 A		SPK	SH-D-01		201		199.8814		201.0000	11/06/95	10:34	bip	0.05	@ICP-D01
255	3084	7	S95T002976 A		SPK	SM-D-01		201		200.8060		201.0000	11/06/95	10:34	bip	0.1	@ICP-D01
256	3084	7	S95T002976 A		SPK	SR-D-01		201		205.4706		201.0000	11/06/95	10:34	bip	0.01	@ICP-D01
257	3084	7	S95T002976 A		SPK	TI-D-01		201		199.0740		201.0000	11/06/95	10:34	bip	0.01	@ICP-D01
258	3084	7	S95T002976 A		SPK	TL-D-01		201		190.5984		201.0000	11/06/95	10:34	bip	0.2	@ICP-D01
259	3084	7	S95T002976 A		SPK	U-D-01		402		420.3143		201.0000	11/06/95	10:34	bip	0.4	@ICP-D01
260	3084	7	S95T002976 A		SPK	V-D-01		201		203.9831		201.0000	11/06/95	10:34	bip	0.05	@ICP-D01
261	3084	7	S95T002976 A		SPK	ZN-D-01		201		194.5285		201.0000	11/06/95	10:34	bip	0.01	@ICP-D01
262	3084	7	S95T002976 A		SPK	ZR-D-01		201		206.2385		201.0000	11/06/95	10:34	bip	0.01	@ICP-D01
263	3084	8			CCV	AG				5.0453		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
264	3084	8			CCV	AL				5.0916		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
265	3084	8			CCV	AS				5.2168		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
266	3084	8			CCV	B				5.1591		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
267	3084	8			CCV	BA				5.0577		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
268	3084	8			CCV	BE				5.3202		1.0000	11/06/95	10:42	bip	0.005	@ICP-CC
269	3084	8			CCV	BI				5.1436		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
270	3084	8			CCV	CA				5.0322		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
271	3084	8			CCV	CD				5.2074		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
272	3084	8			CCV	CE				5.1599		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
273	3084	8			CCV	CO				5.1871		1.0000	11/06/95	10:42	bip	0.02	@ICP-CC
274	3084	8			CCV	CR				5.2268		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
275	3084	8			CCV	CU				5.1461		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
276	3084	8			CCV	FE				5.2423		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
277	3084	8			CCV	K				5.0234		1.0000	11/06/95	10:42	bip	0.3	@ICP-CC
278	3084	8			CCV	LA				5.1223		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
279	3084	8			CCV	LI				4.9775		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
280	3084	8			CCV	MG				4.9983		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
281	3084	8			CCV	MN				5.1412		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
282	3084	8			CCV	MO				5.1630		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
283	3084	8			CCV	NA				4.9898		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
284	3084	8			CCV	ND				5.3175		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
285	3084	8			CCV	NI				5.1764		1.0000	11/06/95	10:42	bip	0.02	@ICP-CC
286	3084	8			CCV	P				5.4546		1.0000	11/06/95	10:42	bip	0.2	@ICP-CC
287	3084	8			CCV	PB				5.1680		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
288	3084	8			CCV	S				5.1483		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
289	3084	8			CCV	SB				4.7816		1.0000	11/06/95	10:42	bip	0.2	@ICP-CC
290	3084	8			CCV	SE				5.3293		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
291	3084	8			CCV	SI				4.9758		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
292	3084	8			CCV	SM				4.9503		1.0000	11/06/95	10:42	bip	0.1	@ICP-CC
293	3084	8			CCV	SR				5.0672		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
294	3084	8			CCV	TI				4.9434		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
295	3084	8			CCV	TL				4.9515		1.0000	11/06/95	10:42	bip	0.2	@ICP-CC
296	3084	8			CCV	U				9.7265		1.0000	11/06/95	10:42	bip	0.4	@ICP-CC
297	3084	8			CCV	V				5.1102		1.0000	11/06/95	10:42	bip	0.05	@ICP-CC
298	3084	8			CCV	ZN				5.1998		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
299	3084	8			CCV	ZR				5.0832		1.0000	11/06/95	10:42	bip	0.01	@ICP-CC
300	3084	9			CCB	AG				-0.0014		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
301	3084	9			CCB	AL				-0.0063		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
302	3084	9			CCB	AS				-0.0049		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
303	3084	9			CCB	B				0.0038		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
304	3084	9			CCB	BA				-0.0002		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
305	3084	9			CCB	BE				0.0002		1.0000	11/06/95	10:45	bip	0.005	@ICP-CC
306	3084	9			CCB	BI				0.0215		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
307	3084	9			CCB	CA				0.0002		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
308	3084	9			CCB	CD				-0.0000		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
309	3084	9			CCB	CE				-0.0080		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
310	3084	9			CCB	CO				-0.0040		1.0000	11/06/95	10:45	bip	0.02	@ICP-CC
311	3084	9			CCB	CR				-0.0033		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
312	3084	9			CCB	CU				-0.0001		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
313	3084	9			CCB	FE				-0.0027		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
314	3084	9			CCB	K				0.0808		1.0000	11/06/95	10:45	bip	0.3	@ICP-CC
315	3084	9			CCB	LA				0.0051		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
316	3084	9			CCB	LI				-0.0002		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
317	3084	9			CCB	MG				0.0002		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
318	3084	9			CCB	MN				0.0002		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
319	3084	9			CCB	MO				0.0016		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
320	3084	9			CCB	NA				0.0078		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
321	3084	9			CCB	ND				-0.0119		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
322	3084	9			CCB	NI				0.0009		1.0000	11/06/95	10:45	bip	0.02	@ICP-CC
323	3084	9			CCB	P				0.0121		1.0000	11/06/95	10:45	bip	0.2	@ICP-CC
324	3084	9			CCB	PB				-0.0049		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
325	3084	9			CCB	S				-0.0017		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
326	3084	9			CCB	SB				-0.0417		1.0000	11/06/95	10:45	bip	0.2	@ICP-CC
327	3084	9			CCB	SE				-0.0154		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
328	3084	9			CCB	SI				0.0099		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
329	3084	9			CCB	SM				0.0073		1.0000	11/06/95	10:45	bip	0.1	@ICP-CC
330	3084	9			CCB	SR				-0.0001		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
331	3084	9			CCB	TI				0.0025		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
332	3084	9			CCB	TL				-0.0403		1.0000	11/06/95	10:45	bip	0.2	@ICP-CC
333	3084	9			CCB	U				0.2370		1.0000	11/06/95	10:45	bip	0.4	@ICP-CC
334	3084	9			CCB	V				-0.0009		1.0000	11/06/95	10:45	bip	0.05	@ICP-CC
335	3084	9			CCB	ZN				0.0009		1.0000	11/06/95	10:45	bip	0.01	@ICP-CC
336	3084	9			CCB	ZR				0.0088		1.0000	11/06/95	10:45	bip	0.0	

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
357	3084	10	S95T002984			U-D-01				173.3976		201.0000	11/06/95	10.52	bq	0.4	ICP-D01
358	3084	10	S95T002984			V-D-01				10.0500		201.0000	11/06/95	10.52	bq	0.05	ICP-D01
359	3084	10	S95T002984			ZN-D-01				2.0100		201.0000	11/06/95	10.52	bq	0.01	ICP-D01
370	3084	10	S95T002984			ZR-D-01				2.0100		201.0000	11/06/95	10.52	bq	0.01	ICP-D01
371	3084	11	S95T002984		DUP	AG-D-01		<2.0100		<2.0100		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
372	3084	11	S95T002984		DUP	AL-D-01		<10.0500		<10.0500		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
373	3084	11	S95T002984		DUP	AS-D-01		<10.0500		<10.0500		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
374	3084	11	S95T002984		DUP	B-D-01		<10.0500		<10.0500		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
375	3084	11	S95T002984		DUP	BA-D-01		<10.0500		<10.0500		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
376	3084	11	S95T002984		DUP	BE-D-01		<1.0050		<1.0050		201.0000	11/06/95	10.56	bq	0.005	ICP-D01
377	3084	11	S95T002984		DUP	BI-D-01		<20.1000		<20.1000		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
378	3084	11	S95T002984		DUP	CA-D-01		<20.1000		<20.1000		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
379	3084	11	S95T002984		DUP	CD-D-01		<2.0100		<2.0100		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
380	3084	11	S95T002984		DUP	CE-D-01		<20.1000		<20.1000		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
381	3084	11	S95T002984		DUP	CO-D-01		<4.0200		<4.0200		201.0000	11/06/95	10.56	bq	0.02	ICP-D01
382	3084	11	S95T002984		DUP	CR-D-01		145.8356		145.5131		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
383	3084	11	S95T002984		DUP	CU-D-01		<2.0100		<2.0100		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
384	3084	11	S95T002984		DUP	FE-D-01		<10.0500		<10.0500		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
385	3084	11	S95T002984		DUP	K-D-01		5602.2597		5604.2983		201.0000	11/06/95	10.56	bq	0.3	ICP-D01
386	3084	11	S95T002984		DUP	LA-D-01		<10.0500		<10.0500		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
387	3084	11	S95T002984		DUP	LI-D-01		125.8098		123.8667		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
388	3084	11	S95T002984		DUP	MG-D-01		<20.1000		<20.1000		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
389	3084	11	S95T002984		DUP	MN-D-01		<2.0100		<2.0100		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
390	3084	11	S95T002984		DUP	MO-D-01		<10.0500		<10.0500		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
391	3084	11	S95T002984		DUP	NA-D-01		26801.6260		26352.3630		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
392	3084	11	S95T002984		DUP	ND-D-01		<20.1000		<20.1000		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
393	3084	11	S95T002984		DUP	NI-D-01		<4.0200		<4.0200		201.0000	11/06/95	10.56	bq	0.02	ICP-D01
394	3084	11	S95T002984		DUP	P-D-01		677.5065		653.4891		201.0000	11/06/95	10.56	bq	0.2	ICP-D01
395	3084	11	S95T002984		DUP	PB-D-01		<20.1000		<20.1000		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
396	3084	11	S95T002984		DUP	S-D-01		124.9623		122.4050		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
397	3084	11	S95T002984		DUP	SB-D-01		<40.2000		<40.2000		201.0000	11/06/95	10.56	bq	0.2	ICP-D01
398	3084	11	S95T002984		DUP	SE-D-01		<20.1000		<20.1000		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
399	3084	11	S95T002984		DUP	SI-D-01		60.0226		59.3316		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
400	3084	11	S95T002984		DUP	SM-D-01		<20.1000		<20.1000		201.0000	11/06/95	10.56	bq	0.1	ICP-D01
401	3084	11	S95T002984		DUP	SR-D-01		<2.0100		<2.0100		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
402	3084	11	S95T002984		DUP	TI-D-01		<2.0100		<2.0100		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
403	3084	11	S95T002984		DUP	TL-D-01		<40.2000		<40.2000		201.0000	11/06/95	10.56	bq	0.2	ICP-D01
404	3084	11	S95T002984		DUP	U-D-01		173.3976		163.3338		201.0000	11/06/95	10.56	bq	0.4	ICP-D01
405	3084	11	S95T002984		DUP	V-D-01		<10.0500		<10.0500		201.0000	11/06/95	10.56	bq	0.05	ICP-D01
406	3084	11	S95T002984		DUP	ZN-D-01		<2.0100		<2.0100		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
407	3084	11	S95T002984		DUP	ZR-D-01		<2.0100		<2.0100		201.0000	11/06/95	10.56	bq	0.01	ICP-D01
408	3084	12	S95T002984_A		SPK	AG-D-01			201	172.8072		201.0000	11/06/95	11.00	bq	0.01	ICP-D01
409	3084	12	S95T002984_A		SPK	AL-D-01			201	200.0609		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
410	3084	12	S95T002984_A		SPK	AS-D-01			201	209.8265		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
411	3084	12	S95T002984_A		SPK	B-D-01			201	209.5516		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
412	3084	12	S95T002984_A		SPK	BA-D-01			201	202.8208		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
413	3084	12	S95T002984_A		SPK	BE-D-01			201	209.2353		201.0000	11/06/95	11.00	bq	0.005	ICP-D01
414	3084	12	S95T002984_A		SPK	BI-D-01			201	212.3684		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
415	3084	12	S95T002984_A		SPK	CA-D-01			201	198.4971		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
416	3084	12	S95T002984_A		SPK	CD-D-01			201	206.5472		201.0000	11/06/95	11.00	bq	0.01	ICP-D01
417	3084	12	S95T002984_A		SPK	CE-D-01			201	204.8821		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
418	3084	12	S95T002984_A		SPK	CO-D-01			201	207.0732		201.0000	11/06/95	11.00	bq	0.02	ICP-D01
419	3084	12	S95T002984_A		SPK	CR-D-01			201	208.9104		201.0000	11/06/95	11.00	bq	0.01	ICP-D01
420	3084	12	S95T002984_A		SPK	CU-D-01			201	205.2683		201.0000	11/06/95	11.00	bq	0.01	ICP-D01
421	3084	12	S95T002984_A		SPK	FE-D-01			201	206.1409		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
422	3084	12	S95T002984_A		SPK	K-D-01			201	143.3375		201.0000	11/06/95	11.00	bq	0.3	ICP-D01
423	3084	12	S95T002984_A		SPK	LA-D-01			201	205.8173		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
424	3084	12	S95T002984_A		SPK	LI-D-01			201	187.8727		201.0000	11/06/95	11.00	bq	0.01	ICP-D01
425	3084	12	S95T002984_A		SPK	MG-D-01			201	193.4523		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
426	3084	12	S95T002984_A		SPK	MN-D-01			201	205.3767		201.0000	11/06/95	11.00	bq	0.01	ICP-D01
427	3084	12	S95T002984_A		SPK	MO-D-01			201	205.1484		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
428	3084	12	S95T002984_A		SPK	NA-D-01		N/A	201	N/A		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
429	3084	12	S95T002984_A		SPK	ND-D-01			201	218.4042		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
430	3084	12	S95T002984_A		SPK	NI-D-01			201	206.3526		201.0000	11/06/95	11.00	bq	0.02	ICP-D01
431	3084	12	S95T002984_A		SPK	P-D-01			201	199.0167		201.0000	11/06/95	11.00	bq	0.2	ICP-D01
432	3084	12	S95T002984_A		SPK	PB-D-01			201	208.1315		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
433	3084	12	S95T002984_A		SPK	S-D-01			201	200.8066		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
434	3084	12	S95T002984_A		SPK	SB-D-01			201	186.3125		201.0000	11/06/95	11.00	bq	0.2	ICP-D01
435	3084	12	S95T002984_A		SPK	SE-D-01			201	220.8046		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
436	3084	12	S95T002984_A		SPK	SI-D-01			201	199.5666		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
437	3084	12	S95T002984_A		SPK	SM-D-01			201	194.7393		201.0000	11/06/95	11.00	bq	0.1	ICP-D01
438	3084	12	S95T002984_A		SPK	SR-D-01			201	203.0559		201.0000	11/06/95	11.00	bq	0.01	ICP-D01
439	3084	12	S95T002984_A		SPK	TI-D-01			201	196.9264		201.0000	11/06/95	11.00	bq	0.01	ICP-D01
440	3084	12	S95T002984_A		SPK	TL-D-01			201	193.6530		201.0000	11/06/95	11.00	bq	0.2	ICP-D01
441	3084	12	S95T002984_A		SPK	U-D-01			402	394.1068		201.0000	11/06/95	11.00	bq	0.4	ICP-D01
442	3084	12	S95T002984_A		SPK	V-D-01			201	204.5773		201.0000	11/06/95	11.00	bq	0.05	ICP-D01
443	3084	12	S95T002984_A		SPK	ZN-D-01											

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
489	3084	14			ICSA	CA				105.1228			1.0000	11/08/95	11:07	bjo	0.1 @ICP-QC
490	3084	14			ICSA	CD				1.0101			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
491	3084	14			ICSA	CE				-0.0057			1.0000	11/08/95	11:07	bjo	0.1 @ICP-QC
492	3084	14			ICSA	CO				0.4950			1.0000	11/08/95	11:07	bjo	0.02 @ICP-QC
493	3084	14			ICSA	CR				0.5053			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
494	3084	14			ICSA	CU				0.5106			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
495	3084	14			ICSA	FE				98.9821			1.0000	11/08/95	11:07	bjo	0.05 @ICP-QC
496	3084	14			ICSA	K				-0.0170			1.0000	11/08/95	11:07	bjo	0.3 @ICP-QC
497	3084	14			ICSA	LA				0.0088			1.0000	11/08/95	11:07	bjo	0.05 @ICP-QC
498	3084	14			ICSA	LI				0.9130			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
499	3084	14			ICSA	MG				108.1705			1.0000	11/08/95	11:07	bjo	0.1 @ICP-QC
500	3084	14			ICSA	MM				0.5043			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
501	3084	14			ICSA	MO				-0.0014			1.0000	11/08/95	11:07	bjo	0.05 @ICP-QC
502	3084	14			ICSA	ND				187.0000			1.0000	11/08/95	11:07	bjo	0.1 @ICP-QC
503	3084	14			ICSA	NI				-0.0420			1.0000	11/08/95	11:07	bjo	0.1 @ICP-QC
504	3084	14			ICSA	PI				0.9921			1.0000	11/08/95	11:07	bjo	0.02 @ICP-QC
505	3084	14			ICSA	P				0.0482			1.0000	11/08/95	11:07	bjo	0.2 @ICP-QC
506	3084	14			ICSA	PB				0.9703			1.0000	11/08/95	11:07	bjo	0.1 @ICP-QC
507	3084	14			ICSA	S				0.0382			1.0000	11/08/95	11:07	bjo	0.05 @ICP-QC
508	3084	14			ICSA	SB				0.0018			1.0000	11/08/95	11:07	bjo	0.2 @ICP-QC
509	3084	14			ICSA	SE				0.0088			1.0000	11/08/95	11:07	bjo	0.1 @ICP-QC
510	3084	14			ICSA	SI				0.0350			1.0000	11/08/95	11:07	bjo	0.05 @ICP-QC
511	3084	14			ICSA	SM				0.0433			1.0000	11/08/95	11:07	bjo	0.1 @ICP-QC
512	3084	14			ICSA	SR				0.0013			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
513	3084	14			ICSA	TI				0.0028			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
514	3084	14			ICSA	TL				-0.0409			1.0000	11/08/95	11:07	bjo	0.2 @ICP-QC
515	3084	14			ICSA	U				0.2382			1.0000	11/08/95	11:07	bjo	0.4 @ICP-QC
516	3084	14			ICSA	V				0.4925			1.0000	11/08/95	11:07	bjo	0.05 @ICP-QC
517	3084	14			ICSA	ZN				0.9877			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
518	3084	14			ICSA	ZR				0.0093			1.0000	11/08/95	11:07	bjo	0.01 @ICP-QC
519	3084	15			CCV	AG				5.0117			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
520	3084	15			CCV	AL				5.0785			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
521	3084	15			CCV	AS				5.1854			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
522	3084	15			CCV	B				5.1802			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
523	3084	15			CCV	BA				5.0874			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
524	3084	15			CCV	BE				5.3031			1.0000	11/08/95	11:11	bjo	0.005 @ICP-QC
525	3084	15			CCV	BI				5.1183			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
526	3084	15			CCV	CA				5.0382			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
527	3084	15			CCV	CD				5.1827			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
528	3084	15			CCV	CE				5.1401			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
529	3084	15			CCV	CO				5.1181			1.0000	11/08/95	11:11	bjo	0.02 @ICP-QC
530	3084	15			CCV	CR				5.1772			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
531	3084	15			CCV	CU				5.1814			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
532	3084	15			CCV	FE				5.2804			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
533	3084	15			CCV	K				5.0204			1.0000	11/08/95	11:11	bjo	0.3 @ICP-QC
534	3084	15			CCV	LA				5.1454			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
535	3084	15			CCV	LI				4.9814			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
536	3084	15			CCV	MG				4.9390			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
537	3084	15			CCV	MM				5.1101			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
538	3084	15			CCV	MO				5.0954			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
539	3084	15			CCV	NA				4.9885			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
540	3084	15			CCV	ND				5.4107			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
541	3084	15			CCV	P				5.1421			1.0000	11/08/95	11:11	bjo	0.02 @ICP-QC
542	3084	15			CCV	PB				5.0089			1.0000	11/08/95	11:11	bjo	0.2 @ICP-QC
543	3084	15			CCV	S				5.1449			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
544	3084	15			CCV	SB				5.0853			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
545	3084	15			CCV	SE				4.8378			1.0000	11/08/95	11:11	bjo	0.2 @ICP-QC
546	3084	15			CCV	SI				5.2475			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
547	3084	15			CCV	SM				4.9330			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
548	3084	15			CCV	SR				4.9770			1.0000	11/08/95	11:11	bjo	0.1 @ICP-QC
549	3084	15			CCV	TI				5.0882			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
550	3084	15			CCV	TL				4.9109			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
551	3084	15			CCV	U				4.9049			1.0000	11/08/95	11:11	bjo	0.2 @ICP-QC
552	3084	15			CCV	V				9.7957			1.0000	11/08/95	11:11	bjo	0.4 @ICP-QC
553	3084	15			CCV	ZN				5.0935			1.0000	11/08/95	11:11	bjo	0.05 @ICP-QC
554	3084	15			CCV	ZR				5.1357			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
555	3084	15			CCB	AG				5.0833			1.0000	11/08/95	11:11	bjo	0.01 @ICP-QC
556	3084	15			CCB	AL				-0.0001			1.0000	11/08/95	11:14	bjo	0.01 @ICP-QC
557	3084	15			CCB	AS				-0.0057			1.0000	11/08/95	11:14	bjo	0.05 @ICP-QC
558	3084	15			CCB	B				-0.0059			1.0000	11/08/95	11:14	bjo	0.05 @ICP-QC
559	3084	15			CCB	BA				0.0048			1.0000	11/08/95	11:14	bjo	0.05 @ICP-QC
560	3084	15			CCB	BE				0.0000			1.0000	11/08/95	11:14	bjo	0.05 @ICP-QC
561	3084	15			CCB	BI				0.0004			1.0000	11/08/95	11:14	bjo	0.005 @ICP-QC
562	3084	15			CCB	CA				0.0151			1.0000	11/08/95	11:14	bjo	0.1 @ICP-QC
563	3084	15			CCB	CD				0.0003			1.0000	11/08/95	11:14	bjo	0.1 @ICP-QC
564	3084	15			CCB	CE				0.0001			1.0000	11/08/95	11:14	bjo	0.01 @ICP-QC
565	3084	15			CCB	CO				0.0084			1.0000	11/08/95	11:14	bjo	0.1 @ICP-QC
566	3084	15			CCB	CR				0.0039			1.0000	11/08/95	11:14	bjo	0.02 @ICP-QC
567	3084	15			CCB	CU				-0.0012			1.0000	11/08/95	11:14	bjo	0.01 @ICP-QC
568	3084	15			CCB	FE				0.0006			1.0000	11/08/95	11:14	bjo	0.01 @ICP-QC
569	3084	15			CCB	K				0.0004			1.0000	11/08/95	11:14	bjo	0.05 @ICP-QC
570	3084	15			CCB	LA				0.0983			1.0000	11/08/95	11:14	bjo	0.3 @ICP-QC
571	3084	15			CCB	LI				0.0034			1.0000	11/08/95	11:14	bjo	0.05 @ICP-QC
572	3084	15			CCB	MG				0.0004			1.0000	11/08/95	11:14	bjo	0.01 @ICP-QC
573	3084	15			CCB	MM				-0.0002			1.0000	11/08/95	11:14	bjo	0.1 @ICP-QC
574	3084	15			CCB	MO				0.0011			1.0000	11/08/95	11:14	bjo	0.05 @ICP-QC
575	3084	15			CCB	NA				0.0283			1.0000	11/08/95	11:14	bjo	0.1 @ICP-QC
576	3084	15			CCB	ND				-0.0038			1.0000	11/08/95	11:14	bjo	0.1 @ICP-QC
577	3084	15			CCB	NI				-0.0007			1.0000	11/08/95	11:14	bjo	0.02 @ICP-QC
578	3084	15			CCB	P				-0.0089			1.0000	11/08/95	11:14	bjo	0.2 @ICP-QC
579	3084	15			CCB	PB				-0.0240			1.0000	11/08/95	11:14		

10/27/95 09:26
A-0004-1

WHC-SD-WM-DP-160, REV. 1

Page: 1

LABCORE Data Entry Template for Worklist# 3065

Analyst: B. G. G. G. Instrument: ICP01 Book# 48848

Method: LA-505-151/161 Rev/Mod D-3

Worklist Comment: ICP B-204 (DIRECT) Li only

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 ICV			@ICP-QC	QC		
2 ICB			@ICP-QC	QC		
3 ICSA			@ICP-QC	QC		
4 ICSAB			@ICP-QC	QC		
5 SAMPLE	S95T002986	0 D	@ICP-D03	LIQUID	95000158	B-204
Analytes Requested: LI-D-01						
6 DUP	S95T002986	0 D	@ICP-D03	LIQUID		
7 SPK	S95T002986	0 D	@ICP-D03	LIQUID		
8 ICSA			@ICP-QC	QC		
9 ICSAB			@ICP-QC	QC		
10 CCV			@ICP-QC	QC		
11 CCB			@ICP-QC	QC		

Final page for worklist # 3065

[Signature] 11-06-95
Analyst Signature Date

[Signature] 11/8/95
Analyst Signature Date

S95T002986 - L 100% - 100% - 100% - 100%
S95T002986 100% - 100%
S95T002986 - D 100% - 100%
S95T002986 - H 100% - 100%

105
21
21
21

Data Entry Comments:

Note: poor spike recovery is due to sample result is very high w/c is 4 x greater than the spiking amount.

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

825

WHC-SD-WM-DP-160, REV.1

Identity 1: ICV Identity 2: Quality Control 1:14 PM November 6, 1995
 Task name : OPTIMA
 Sample Weight : 1.0000 Solution Volume : 1.00
 On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-160, REV.

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	5.075	5.121	5.110	4.928	5.040	5.081	5.182	4.992
S.D.	0.010	0.012	0.004	0.005	0.011	0.017	0.005	0.016
% R.S.D.	0.197	0.230	0.079	0.104	0.220	0.336	0.087	0.330
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.075	5.111	5.174	5.237	5.040	5.112	5.488	10.057
S.D.	0.011	0.013	0.019	0.020	0.012	0.017	0.020	0.036
% R.S.D.	0.216	0.253	0.366	0.375	0.235	0.335	0.373	0.357
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.239	5.025	5.112	5.454	4.989	4.907	5.153	4.964
S.D.	0.021	0.012	0.012	0.113	0.050	0.015	0.032	0.018
% R.S.D.	0.405	0.233	0.227	2.080	0.998	0.297	0.615	0.356
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.056	5.240	4.970	5.091	4.890	5.123	5.128	4.925
S.D.	0.014	0.045	0.010	0.027	0.010	0.015	0.010	0.018
% R.S.D.	0.286	0.861	0.202	0.536	0.206	0.287	0.200	0.367
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	5.087	4.852	5.066	5.287	4.860			
S.D.	0.014	0.011	0.011	0.012	0.015			
% R.S.D.	0.266	0.236	0.216	0.225	0.318			

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 826 TO 827.

Handwritten:
 11-06-95
 8-204 TARD N.Z.
 L. only
 531700 2886
 FILE # 9511063

WHC-SD-WM-DP-160, REV. I

Identity 1: ICB Identity 2: Quality Control 1:18 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.003	0.000	0.020	0.006	-0.001	0.011	0.001	0.000
S.D.	0.000	0.000	0.013	0.001	0.001	0.003	0.000	0.000
% R.S.D.	16.309	49.487	68.485	12.954	74.221	31.528	14.146	126.197
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.001	0.000	-0.000	0.001	0.002	-0.001	-0.002	0.073
S.D.	0.000	0.002	0.001	0.000	0.000	0.001	0.004	0.026
% R.S.D.	9.748	2218.663	189.826	30.880	0.088	128.147	156.055	35.673
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.014	-0.010	0.000	0.009	-0.007	0.000	-0.005	0.017
S.D.	0.010	0.007	0.000	0.004	0.002	0.000	0.003	0.004
% R.S.D.	68.657	74.458	78.680	45.246	33.884	43.301	65.666	24.001
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.003	-0.033	0.000	-0.002	0.002	0.001	0.002	-0.028
S.D.	0.000	0.011	0.001	0.004	0.000	0.000	0.001	0.012
% R.S.D.	17.646	31.932	168.953	179.318	3.907	24.662	26.388	43.737
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	0.000	-0.017	-0.002	0.000	-0.056			
S.D.	0.000	0.016	0.001	0.000	0.023			
% R.S.D.	89.767	94.830	69.236	82.450	40.315			

Identity 1: ICSA Identity 2: Quality Control

1:29 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.012	0.001	0.000	0.037	205.330	0.004	0.002	-0.001
S.D.	0.000	0.000	0.008	0.003	0.149	0.002	0.000	0.000
% R.S.D.	4.313	2.794	2169.625	7.145	0.073	44.820	19.069	10.182

	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	-0.005	0.006	0.007	101.385	106.300	-0.006	-0.035	0.148
S.D.	0.000	0.002	0.002	0.364	0.159	0.001	0.004	0.010
% R.S.D.	7.859	40.840	27.776	0.359	0.150	21.171	11.752	6.611

	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	-0.007	0.034	0.003	0.035	0.021	108.307	0.009	189.204
S.D.	0.008	0.004	0.000	0.005	0.016	0.121	0.003	0.552
% R.S.D.	110.965	10.818	0.843	14.090	77.311	0.111	35.380	0.292

	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.001	0.003	-0.000	-0.010	0.002	0.002	0.014	0.004
S.D.	0.001	0.027	0.000	0.005	0.000	0.001	0.000	0.006
% R.S.D.	75.607	961.325	89.892	53.079	12.412	38.272	1.254	158.948

	Mn	Sb	V	Be	Tl
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	0.004	0.022	-0.003	0.003	-0.021
S.D.	0.000	0.003	0.001	0.000	0.003
% R.S.D.	8.584	15.354	23.415	4.492	11.884

VHC-SD-WM-DP-160, REV. I

Identity 1: ICSAB Identity 2: Quality Control

1:32 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.007	0.001	-0.017	0.032	203.730	0.495	0.511	0.923
S.D.	0.000	0.000	0.005	0.002	0.511	0.005	0.001	0.005
% R.S.D.	4.053	4.681	30.624	6.926	0.251	0.913	0.289	0.556
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.988	0.986	0.007	98.612	104.872	0.503	-0.039	0.111
S.D.	0.001	0.005	0.001	0.183	0.180	0.005	0.010	0.029
% R.S.D.	0.137	0.506	9.851	0.185	0.171	1.077	26.553	25.778
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.006	0.014	0.514	0.058	0.035	106.655	0.013	189.003
S.D.	0.007	0.004	0.001	0.002	0.006	0.030	0.005	1.068
% R.S.D.	125.033	28.557	0.168	3.982	17.361	0.028	38.883	0.565
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.002	0.017	1.008	0.992	0.002	1.008	0.015	-0.033
S.D.	0.001	0.007	0.001	0.011	0.000	0.003	0.001	0.012
% R.S.D.	40.883	38.725	0.148	1.106	14.996	0.320	3.598	36.803
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.503	0.033	0.494	0.508	-0.013			
S.D.	0.001	0.027	0.000	0.000	0.017			
% R.S.D.	0.279	81.473	0.021	0.098	133.033			

VHC-SD-WM-DP-160, REV. 1

Identity 1: S95T002986_L Identity 2: .5ml-10ml-2ml-8ml

2:01 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 105.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.523	0.000	1.444	4.819	0.043	-0.313	-0.012	2022.337
S.D.	0.134	0.013	0.804	0.149	0.555	0.358	0.049	11.890
% R.S.D.	25.658	164646453990.000	55.665	3.082	1294.467	114.295	424.755	0.588

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.481	-0.160	0.875	-0.242	1.441	-0.243	-1.794	20.739
S.D.	0.018	0.228	0.273	0.186	0.010	0.159	1.131	5.919
% R.S.D.	3.641	142.311	31.198	76.581	0.728	65.422	63.050	28.541

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.564	-0.041	-0.020	3.543	11.675	0.182	0.150	420.770
S.D.	1.625	1.080	0.031	0.755	0.364	0.017	0.524	1.510
% R.S.D.	288.175	2625.554	158.981	21.321	3.115	9.375	348.946	0.359

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.405	-0.334	-0.070	-0.906	0.192	0.805	1.198	76.379
S.D.	0.048	0.504	0.105	1.032	0.059	0.080	0.097	1.393
% R.S.D.	11.905	150.891	150.452	113.834	30.629	9.885	8.057	1.824

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.033	-2.156	-0.208	0.024	-4.068
S.D.	0.029	0.805	0.024	0.032	3.790
% R.S.D.	87.743	37.354	11.679	137.793	93.167

Identity 1: S95T002986 Identity 2: .5ml-10ml

2:04 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 21.00

WHC-SD-WM-DP-160, REV. J

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.076	0.023	0.338	3.813	0.264	0.103	0.047	1894.680
S.D.	0.017	0.003	0.139	0.050	0.054	0.036	0.001	17.626
% R.S.D.	22.724	11.152	41.240	1.317	20.512	34.835	2.826	0.930
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.223	0.090	0.131	0.010	1.484	0.007	-0.053	2.594
S.D.	0.014	0.013	0.030	0.043	0.002	0.038	0.034	0.771
% R.S.D.	6.382	14.088	23.147	426.792	0.151	509.793	65.135	29.735
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.005	-0.446	0.021	1.734	13.050	0.177	-0.060	409.275
S.D.	0.200	0.173	0.004	0.267	0.225	0.000	0.129	3.920
% R.S.D.	19.934	38.772	20.218	15.391	1.721	0.000	215.214	0.958
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.304	-0.438	0.066	0.115	0.037	0.224	1.399	80.103
S.D.	0.004	0.078	0.013	0.057	0.004	0.024	0.021	0.435
% R.S.D.	1.198	17.896	20.385	49.884	11.148	10.824	1.526	0.543
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.008	0.893	0.034	0.011	0.400			
S.D.	0.003	0.620	0.003	0.002	0.447			
% R.S.D.	42.032	69.426	8.678	21.786	111.649			

Identity 1: S95T002986_D Identity 2: .5ml-10ml

2:07 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 21.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-160, REV. I

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.045	0.023	0.361	3.712	0.063	0.103	0.038	1812.008
S.D.	0.005	0.001	0.132	0.046	0.013	0.036	0.003	0.751
% R.S.D.	10.558	3.149	36.505	1.242	21.054	34.722	7.694	0.041

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.185	0.043	0.122	-0.004	2.429	-0.040	0.140	1.694
S.D.	0.012	0.015	0.040	0.028	0.005	0.017	0.118	0.390
% R.S.D.	6.443	33.756	32.602	695.770	0.204	42.516	84.247	23.041

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.026	-0.392	0.021	1.602	12.684	0.181	-0.022	390.152
S.D.	0.157	0.083	0.003	0.143	0.049	0.002	0.097	0.702
% R.S.D.	15.341	21.260	12.221	8.945	0.384	1.089	448.353	0.180

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.325	-0.120	0.025	-0.310	0.029	0.154	1.406	78.841
S.D.	0.013	0.168	0.004	0.222	0.003	0.013	0.018	0.234
% R.S.D.	3.884	139.509	15.795	71.748	11.532	8.679	1.314	0.297

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.012	-0.061	0.023	0.006	-0.704
S.D.	0.003	0.205	0.010	0.004	0.115
% R.S.D.	29.147	338.939	45.951	72.710	16.355

Identity 1: S95T002986_A Identity 2: .5ml-2ml-8ml

2:11 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 21.00

WHC-SD-WM-DP-160, REV. I

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	20.628	20.615	20.182	27.090	20.355	20.560	20.861	1860.983
S.D.	0.046	0.064	0.112	0.029	0.090	0.129	0.064	6.178
% R.S.D.	0.224	0.311	0.556	0.109	0.440	0.629	0.307	0.332
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	20.651	20.677	20.976	21.171	21.446	20.803	21.695	42.628
S.D.	0.028	0.076	0.069	0.134	0.070	0.080	0.166	0.438
% R.S.D.	0.135	0.367	0.327	0.632	0.325	0.385	0.765	1.028
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	21.125	20.293	20.412	24.561	31.876	19.480	21.170	415.780
S.D.	0.148	0.119	0.071	0.359	0.225	0.047	0.345	1.528
% R.S.D.	0.699	0.585	0.350	1.463	0.706	0.242	1.631	0.367
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	20.539	21.013	17.889	20.439	19.731	20.544	21.615	99.121
S.D.	0.143	0.229	0.005	0.213	0.066	0.027	0.075	0.139
% R.S.D.	0.695	1.089	0.028	1.044	0.333	0.130	0.347	0.140
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	20.571	17.898	20.482	20.866	18.738			
S.D.	0.074	0.355	0.045	0.084	0.082			
% R.S.D.	0.361	1.983	0.222	0.403	0.438			

Identity 1: ICSEA Identity 2: Quality Control 2:14 PM November 6, 1995

Task name: OPTIMA

Sample Weight: 1.0000 Solution Volume: 1.00

On-Peak Integrations: 3 Off-Peak Integrations: 1

VHC-SD-WM-DP-160, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.013	0.001	0.001	0.041	207.660	0.002	0.004	0.001
S.D.	0.001	0.000	0.006	0.001	0.338	0.000	0.001	0.000
% R.S.D.	6.762	6.454	671.126	3.136	0.163	0.469	15.571	44.872
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.006	0.010	0.007	102.043	106.780	-0.001	-0.032	0.210
S.D.	0.000	0.003	0.003	0.186	0.237	0.002	0.005	0.032
% R.S.D.	2.582	29.358	36.706	0.183	0.222	125.109	16.928	15.437
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.005	0.037	0.004	0.015	0.039	107.344	0.009	194.652
S.D.	0.006	0.004	0.000	0.007	0.012	0.239	0.004	1.070
% R.S.D.	111.277	10.873	2.804	46.855	30.474	0.222	50.832	0.550
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	-0.054	0.030	-0.018	0.003	0.003	0.013	-0.014
S.D.	0.000	0.002	0.002	0.002	0.000	0.001	0.001	0.008
% R.S.D.	34.655	3.827	6.456	12.839	11.531	29.123	7.098	54.691
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.004	0.002	-0.001	0.002	-0.019			
S.D.	0.000	0.006	0.001	0.000	0.016			
% R.S.D.	7.175	299.747	71.508	4.685	86.685			

Identity 1: ICSA8 Identity 2: Quality Control

2:17 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-160, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.009	0.001	-0.022	0.035	206.082	0.497	0.521	0.951
S.D.	0.002	0.000	0.007	0.003	0.676	0.006	0.003	0.009
% R.S.D.	18.490	6.454	30.864	8.231	0.328	1.239	0.519	0.928
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.988	0.986	0.006	99.177	105.498	0.499	-0.034	0.184
S.D.	0.003	0.005	0.002	0.136	0.121	0.001	0.008	0.039
% R.S.D.	0.279	0.517	30.501	0.137	0.114	0.266	24.869	21.420
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.006	0.025	0.521	0.036	0.037	106.325	0.028	193.341
S.D.	0.016	0.008	0.001	0.004	0.011	0.075	0.006	1.742
% R.S.D.	252.121	30.076	0.253	10.920	29.881	0.070	22.485	0.901
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.002	-0.003	1.014	0.985	0.002	1.012	0.013	-0.025
S.D.	0.001	0.021	0.001	0.003	0.001	0.002	0.001	0.005
% R.S.D.	72.970	696.451	0.118	0.271	28.134	0.210	10.773	18.154
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.504	0.050	0.495	0.513	0.010			
S.D.	0.001	0.021	0.002	0.001	0.017			
% R.S.D.	0.170	42.013	0.321	0.102	167.191			

Identity 1: CCV Identity 2: Quality Control

2:20 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

WHC-SD-WM-DP-160, REV. I

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr	Sr	Bi	Si	Al	Co	Cu	Li
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	5.075	5.122	5.139	4.914	5.075	5.065	5.206	5.078
S.D.	0.005	0.004	0.033	0.010	0.008	0.025	0.012	0.020
% R.S.D.	0.089	0.070	0.651	0.210	0.159	0.499	0.223	0.387
	Zn	Ni	La	Fe	Ca	Cr	Nd	U
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	5.084	5.099	5.159	5.244	5.032	5.091	5.520	9.990
S.D.	0.015	0.012	0.009	0.018	0.007	0.024	0.034	0.014
% R.S.D.	0.286	0.239	0.168	0.336	0.139	0.464	0.615	0.143
	Ce	Sm	Ba	P	S	Mg	As	Na
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	5.244	5.051	5.115	5.529	5.080	4.894	5.200	5.062
S.D.	0.023	0.012	0.007	0.140	0.074	0.017	0.012	0.018
% R.S.D.	0.439	0.239	0.131	2.537	1.454	0.347	0.232	0.358
	Mo	Se	Ag	Pb	Ti	Cd	B	K
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
Mean	5.048	5.255	4.986	5.109	4.875	5.111	5.145	5.059
S.D.	0.028	0.035	0.007	0.034	0.007	0.003	0.014	0.029
% R.S.D.	0.549	0.673	0.142	0.659	0.147	0.051	0.267	0.568
	Mn	Sb	V	Be	Tl			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
Mean	5.072	4.867	5.066	5.288	4.927			
S.D.	0.008	0.021	0.006	0.002	0.026			
% R.S.D.	0.164	0.436	0.126	0.029	0.519			

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Identity 1: CCB

Identity 2: Quality Control

2:23 PM November 6, 1995

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

VHC-SD-WM-DP-160, REV. I

On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.005	0.000	0.014	0.014	-0.009	0.005	0.001	0.001
S.D.	0.001	0.000	0.008	0.003	0.002	0.002	0.000	0.000
% R.S.D.	22.865	78.062	52.315	19.743	24.521	34.656	43.110	50.102
	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.002	0.003	-0.002	0.002	-0.001	0.004	0.162
S.D.	0.000	0.001	0.002	0.001	0.000	0.001	0.011	0.051
% R.S.D.	29.020	28.479	74.732	78.583	5.559	117.322	261.510	31.480
	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.014	-0.007	0.000	-0.002	-0.005	0.000	0.002	0.028
S.D.	0.011	0.011	0.000	0.008	0.003	0.000	0.005	0.005
% R.S.D.	76.139	151.171	112.163	488.198	67.111	43.301	261.943	19.842
	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.013	0.005	-0.034	0.002	0.001	0.003	0.053
S.D.	0.002	0.005	0.001	0.013	0.000	0.001	0.001	0.011
% R.S.D.	122.885	40.171	24.691	38.889	6.091	62.446	29.515	20.273
	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)			
Mean	0.000	0.026	-0.002	0.000	-0.039			
S.D.	0.000	0.033	0.000	0.000	0.018			
% R.S.D.	2.352	127.593	21.519	53.867	46.841			

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	3085	1			ICV	AG				4.9704		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
2	3085	1			ICV	AL				5.0403		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
3	3085	1			ICV	AS				5.1534		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
4	3085	1			ICV	B				5.1278		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
5	3085	1			ICV	BA				5.1116		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
6	3085	1			ICV	BE				5.2873		1.0000	11/06/95	13:16	bj	0.005	@ICP-QC
7	3085	1			ICV	BI				5.1096		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
8	3085	1			ICV	CA				5.0402		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
9	3085	1			ICV	CD				5.1231		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
10	3085	1			ICV	CE				5.2394		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
11	3085	1			ICV	CO				5.0806		1.0000	11/06/95	13:16	bj	0.02	@ICP-QC
12	3085	1			ICV	CR				5.1118		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
13	3085	1			ICV	CU				5.1819		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
14	3085	1			ICV	FE				5.2365		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
15	3085	1			ICV	K				4.9248		1.0000	11/06/95	13:16	bj	0.3	@ICP-QC
16	3085	1			ICV	LA				5.1735		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
17	3085	1			ICV	LI				4.9921		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
18	3085	1			ICV	MG				4.9072		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
19	3085	1			ICV	MIN				5.0967		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
20	3085	1			ICV	MO				5.0562		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
21	3085	1			ICV	NA				4.9635		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
22	3085	1			ICV	ND				5.4881		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
23	3085	1			ICV	P				5.1112		1.0000	11/06/95	13:16	bj	0.02	@ICP-QC
24	3085	1			ICV	PB				5.4540		1.0000	11/06/95	13:16	bj	0.2	@ICP-QC
25	3085	1			ICV	SB				5.0905		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
26	3085	1			ICV	SE				4.9889		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
27	3085	1			ICV	SI				4.8517		1.0000	11/06/95	13:16	bj	0.2	@ICP-QC
28	3085	1			ICV	SM				5.2401		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
29	3085	1			ICV	SR				4.8276		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
30	3085	1			ICV	TI				5.0252		1.0000	11/06/95	13:16	bj	0.1	@ICP-QC
31	3085	1			ICV	TL				5.1213		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
32	3085	1			ICV	U				4.8901		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
33	3085	1			ICV	U				4.8802		1.0000	11/06/95	13:16	bj	0.2	@ICP-QC
34	3085	1			ICV	U				10.0574		1.0000	11/06/95	13:16	bj	0.4	@ICP-QC
35	3085	1			ICV	ZN				5.0965		1.0000	11/06/95	13:16	bj	0.05	@ICP-QC
36	3085	1			ICV	ZR				5.0748		1.0000	11/06/95	13:16	bj	0.01	@ICP-QC
37	3085	1			ICB	AG				0.0004		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
38	3085	1			ICB	AL				-0.0008		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
39	3085	1			ICB	AS				-0.0047		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
40	3085	1			ICB	B				0.0020		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
41	3085	1			ICB	BA				0.0002		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
42	3085	1			ICB	BE				0.0002		1.0000	11/06/95	13:21	bj	0.005	@ICP-QC
43	3085	1			ICB	BI				0.0197		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
44	3085	1			ICB	CA				0.0015		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
45	3085	1			ICB	CD				0.0011		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
46	3085	1			ICB	CE				0.0140		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
47	3085	1			ICB	CO				0.0108		1.0000	11/06/95	13:21	bj	0.02	@ICP-QC
48	3085	1			ICB	CR				-0.0008		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
49	3085	1			ICB	CU				0.0015		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
50	3085	1			ICB	FE				0.0006		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
51	3085	1			ICB	K				-0.0282		1.0000	11/06/95	13:21	bj	0.3	@ICP-QC
52	3085	1			ICB	LA				-0.0004		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
53	3085	1			ICB	LI				0.0002		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
54	3085	1			ICB	MG				0.0002		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
55	3085	1			ICB	MIN				0.0002		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
56	3085	1			ICB	MO				0.0026		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
57	3085	1			ICB	NA				0.0173		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
58	3085	1			ICB	ND				-0.0024		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
59	3085	1			ICB	NI				0.0001		1.0000	11/06/95	13:21	bj	0.02	@ICP-QC
60	3085	1			ICB	P				0.0089		1.0000	11/06/95	13:21	bj	0.2	@ICP-QC
61	3085	1			ICB	PB				-0.0022		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
62	3085	1			ICB	S				-0.0071		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
63	3085	1			ICB	SB				-0.0171		1.0000	11/06/95	13:21	bj	0.2	@ICP-QC
64	3085	1			ICB	SE				-0.0332		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
65	3085	1			ICB	SI				0.0062		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
66	3085	1			ICB	SM				-0.0100		1.0000	11/06/95	13:21	bj	0.1	@ICP-QC
67	3085	1			ICB	SR				0.0002		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
68	3085	1			ICB	TI				0.0015		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
69	3085	1			ICB	TL				-0.0581		1.0000	11/06/95	13:21	bj	0.2	@ICP-QC
70	3085	1			ICB	U				0.0734		1.0000	11/06/95	13:21	bj	0.4	@ICP-QC
71	3085	1			ICB	V				-0.0016		1.0000	11/06/95	13:21	bj	0.05	@ICP-QC
72	3085	1			ICB	ZN				0.0013		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
73	3085	1			ICB	ZR				0.0030		1.0000	11/06/95	13:21	bj	0.01	@ICP-QC
74	3085	3			ICSA	AG				-0.0004		1.0000	11/06/95	13:30	bj	0.01	@ICP-QC
75	3085	3			ICSA	AL				205.3299		1.0000	11/06/95	13:30	bj	0.05	@ICP-QC
76	3085	3			ICSA	AS				0.0090		1.0000	11/06/95	13:30	bj	0.05	@ICP-QC
77	3085	3			ICSA	B				0.0144		1.0000	11/06/95	13:30	bj	0.05	@ICP-QC
78	3085	3			ICSA	BA				0.0033		1.0000	11/06/95	13:30	bj	0.05	@ICP-QC
79	3085	3			ICSA	BE				0.0026		1.0000	11/06/95	13:30	bj	0.005	@ICP-QC
80	3085	3			ICSA	BI				0.0004		1.0000	11/06/95	13:30	bj	0.1	@ICP-QC
81	3085	3			ICSA	CA				106.3004		1.0000	11/06/95	13:30	bj	0.1	@ICP-QC
82	3085	3			ICSA	CD				0.0019		1.0000	11/06/95	13:30	bj	0.01	@ICP-QC
83	3085	3			ICSA	CE				-0.0072		1.0000	11/06/95	13:30	bj	0.1	@ICP-QC
84	3085	3			ICSA	CO				0.0036		1.0000	11/06/95	13:30	bj	0.02	@ICP-QC
85	3085	3			ICSA	CR				-0.0057		1.0000	11/06/95	13:30	bj	0.01	@ICP-QC
86	3085	3			ICSA	CU				0.0022		1.0000	11/06/95	13:30	bj	0.01	@ICP-QC
87	3085	3			ICSA	FE				101.3851		1.0000	11/06/95	13:30	bj	0.05	@ICP-QC
88	3085	3			ICSA	K				0.0036		1.0000	11/06/95	13:30	bj	0.3	@ICP-QC
89	3085	3			ICSA	LA				0.0069		1.0000	11/06/95	13:30	bj	0.05	@ICP-QC
90	3085	3			ICSA	LI				-0.0006		1.0000	11/06/95	13:30	bj	0.01	@ICP-QC
91	3085	3			ICSA	MG				106.3074		1.0000	11/06/95	13:30	bj	0.1	@ICP-QC
92	3085	3			ICSA	MIN				0.0042		1.0000	11/06/95	13:30	bj	0.01	@ICP-QC
93	3085	3															

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
123	3085	4			ICSA	CR				0.5004		1.0000	11/08/95	13:34	bjo	0.01	@ICP-QC
124	3085	4			ICSA	CU				0.5112		1.0000	11/08/95	13:34	bjo	0.01	@ICP-QC
125	3085	4			ICSA	FE				98.6118		1.0000	11/08/95	13:34	bjo	0.05	@ICP-QC
126	3085	4			ICSA	K				-0.0328		1.0000	11/08/95	13:34	bjo	0.3	@ICP-QC
127	3085	4			ICSA	LA				0.0075		1.0000	11/08/95	13:34	bjo	0.05	@ICP-QC
128	3085	4			ICSA	LI				0.9233		1.0000	11/08/95	13:34	bjo	0.01	@ICP-QC
129	3085	4			ICSA	MG				106.6548		1.0000	11/08/95	13:34	bjo	0.1	@ICP-QC
130	3085	4			ICSA	MN				0.5030		1.0000	11/08/95	13:34	bjo	0.01	@ICP-QC
131	3085	4			ICSA	MO				-0.0023		1.0000	11/08/95	13:34	bjo	0.05	@ICP-QC
132	3085	4			ICSA	NA				189.0027		1.0000	11/08/95	13:34	bjo	0.1	@ICP-QC
133	3085	4			ICSA	ND				-0.0392		1.0000	11/08/95	13:34	bjo	0.1	@ICP-QC
134	3085	4			ICSA	NI				0.9881		1.0000	11/08/95	13:34	bjo	0.02	@ICP-QC
135	3085	4			ICSA	P				0.0584		1.0000	11/08/95	13:34	bjo	0.2	@ICP-QC
136	3085	4			ICSA	PB				0.9919		1.0000	11/08/95	13:34	bjo	0.1	@ICP-QC
137	3085	4			ICSA	S				0.0351		1.0000	11/08/95	13:34	bjo	0.05	@ICP-QC
138	3085	4			ICSA	SB				0.0333		1.0000	11/08/95	13:34	bjo	0.2	@ICP-QC
139	3085	4			ICSA	SE				0.0170		1.0000	11/08/95	13:34	bjo	0.1	@ICP-QC
140	3085	4			ICSA	SI				0.0317		1.0000	11/08/95	13:34	bjo	0.05	@ICP-QC
141	3085	4			ICSA	SM				0.0139		1.0000	11/08/95	13:34	bjo	0.1	@ICP-QC
142	3085	4			ICSA	SR				0.0014		1.0000	11/08/95	13:34	bjo	0.01	@ICP-QC
143	3085	4			ICSA	TI				0.0017		1.0000	11/08/95	13:34	bjo	0.01	@ICP-QC
144	3085	4			ICSA	TL				-0.0131		1.0000	11/08/95	13:34	bjo	0.2	@ICP-QC
145	3085	4			ICSA	U				0.1114		1.0000	11/08/95	13:34	bjo	0.4	@ICP-QC
146	3085	4			ICSA	V				0.4943		1.0000	11/08/95	13:34	bjo	0.05	@ICP-QC
147	3085	4			ICSA	ZN				0.9579		1.0000	11/08/95	13:34	bjo	0.01	@ICP-QC
148	3085	4			ICSA	ZR				0.0073		1.0000	11/08/95	13:34	bjo	0.01	@ICP-QC
149	3085	5	S95T002988		DUP	LI-D-01				1894.8797		21.0000	11/08/95	14:05	bjo	0.01	@ICP-D03
150	3085	6	S95T002988		SPK	LI-D-01		1894.8797		1812.0083		21.0000	11/08/95	14:08	bjo	0.01	@ICP-D03
151	3085	7	S95T002988_A				n/a			n/a		21.0000	11/08/95	14:11	bjo	0.01	@ICP-D03
152	3085	8			ICSA	AG				0.0299		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
153	3085	8			ICSA	AL				207.8598		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
154	3085	8			ICSA	AS				0.0086		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
155	3085	8			ICSA	B				0.0130		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
156	3085	8			ICSA	BA				0.0037		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
157	3085	8			ICSA	BE				0.0024		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
158	3085	8			ICSA	BI				0.0009		1.0000	11/08/95	14:14	bjo	0.005	@ICP-QC
159	3085	8			ICSA	CA				106.7804		1.0000	11/08/95	14:14	bjo	0.1	@ICP-QC
160	3085	8			ICSA	CD				0.0025		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
161	3085	8			ICSA	CE				0.0050		1.0000	11/08/95	14:14	bjo	0.1	@ICP-QC
162	3085	8			ICSA	CO				0.0019		1.0000	11/08/95	14:14	bjo	0.02	@ICP-QC
163	3085	8			ICSA	CR				-0.0013		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
164	3085	8			ICSA	CU				0.0039		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
165	3085	8			ICSA	FE				102.0434		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
166	3085	8			ICSA	K				-0.0137		1.0000	11/08/95	14:14	bjo	0.3	@ICP-QC
167	3085	8			ICSA	LA				0.0070		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
168	3085	8			ICSA	LI				0.0004		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
169	3085	8			ICSA	MG				107.3438		1.0000	11/08/95	14:14	bjo	0.1	@ICP-QC
170	3085	8			ICSA	MN				0.0038		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
171	3085	8			ICSA	MO				-0.0003		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
172	3085	8			ICSA	NA				184.8516		1.0000	11/08/95	14:14	bjo	0.1	@ICP-QC
173	3085	8			ICSA	ND				-0.0324		1.0000	11/08/95	14:14	bjo	0.1	@ICP-QC
174	3085	8			ICSA	NI				0.0067		1.0000	11/08/95	14:14	bjo	0.02	@ICP-QC
175	3085	8			ICSA	P				-0.0176		1.0000	11/08/95	14:14	bjo	0.1	@ICP-QC
176	3085	8			ICSA	PB				0.0391		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
177	3085	8			ICSA	S				0.0020		1.0000	11/08/95	14:14	bjo	0.2	@ICP-QC
178	3085	8			ICSA	SB				-0.0535		1.0000	11/08/95	14:14	bjo	0.1	@ICP-QC
179	3085	8			ICSA	SE				0.0406		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
180	3085	8			ICSA	SI				0.0368		1.0000	11/08/95	14:14	bjo	0.1	@ICP-QC
181	3085	8			ICSA	SM				0.0014		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
182	3085	8			ICSA	SR				0.0029		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
183	3085	8			ICSA	TI				-0.0198		1.0000	11/08/95	14:14	bjo	0.2	@ICP-QC
184	3085	8			ICSA	U				0.2098		1.0000	11/08/95	14:14	bjo	0.4	@ICP-QC
185	3085	8			ICSA	V				-0.0014		1.0000	11/08/95	14:14	bjo	0.05	@ICP-QC
186	3085	8			ICSA	ZN				-0.0057		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
187	3085	8			ICSA	ZR				0.0135		1.0000	11/08/95	14:14	bjo	0.01	@ICP-QC
188	3085	9			ICSA	AG				1.0142		1.0000	11/08/95	14:17	bjo	0.01	@ICP-QC
189	3085	9			ICSA	AL				208.0824		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC
190	3085	9			ICSA	AS				0.0276		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC
191	3085	9			ICSA	B				0.0132		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC
192	3085	9			ICSA	BA				0.5215		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC
193	3085	9			ICSA	BE				0.5132		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC
194	3085	9			ICSA	BI				-0.0220		1.0000	11/08/95	14:17	bjo	0.1	@ICP-QC
195	3085	9			ICSA	CA				105.4953		1.0000	11/08/95	14:17	bjo	0.01	@ICP-QC
196	3085	9			ICSA	CD				1.0121		1.0000	11/08/95	14:17	bjo	0.01	@ICP-QC
197	3085	9			ICSA	CE				0.0063		1.0000	11/08/95	14:17	bjo	0.1	@ICP-QC
198	3085	9			ICSA	CO				0.4970		1.0000	11/08/95	14:17	bjo	0.02	@ICP-QC
199	3085	9			ICSA	CR				0.4892		1.0000	11/08/95	14:17	bjo	0.01	@ICP-QC
200	3085	9			ICSA	CU				0.5213		1.0000	11/08/95	14:17	bjo	0.01	@ICP-QC
201	3085	9			ICSA	FE				99.1772		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC
202	3085	9			ICSA	K				-0.0248		1.0000	11/08/95	14:17	bjo	0.3	@ICP-QC
203	3085	9			ICSA	LA				0.0063		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC
204	3085	9			ICSA	LI				0.9508		1.0000	11/08/95	14:17	bjo	0.01	@ICP-QC
205	3085	9			ICSA	MG				106.3248		1.0000	11/08/95	14:17	bjo	0.1	@ICP-QC
206	3085	9			ICSA	MN				0.5040		1.0000	11/08/95	14:17	bjo	0.01	@ICP-QC
207	3085	9			ICSA	MO				-0.0018		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC
208	3085	9			ICSA	NA				183.3408		1.0000	11/08/95	14:17	bjo	0.1	@ICP-QC
209	3085	9			ICSA	ND				-0.0341		1.0000	11/08/95	14:17	bjo	0.1	@ICP-QC
210	3085	9			ICSA	NI				0.9855		1.0000	11/08/95	14:17	bjo	0.02	@ICP-QC
211	3085	9			ICSA	P				0.9860		1.0000	11/08/95	14:17	bjo	0.2	@ICP-QC
212	3085	9			ICSA	PB				0.9855		1.0000	11/08/95	14:17	bjo	0.1	@ICP-QC
213	3085	9			ICSA	S				0.0374		1.0000	11/08/95	14:17	bjo	0.05	@ICP-QC

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
245	3085	10			CCV	MO				5.0484		1.0000	11/08/95	14:21	bjo	0.05	@ICP-QC
246	3085	10			CCV	NA				5.0818		1.0000	11/08/95	14:21	bjo	0.1	@ICP-QC
247	3085	10			CCV	ND				5.5202		1.0000	11/08/95	14:21	bjo	0.1	@ICP-QC
248	3085	10			CCV	NI				5.0995		1.0000	11/08/95	14:21	bjo	0.02	@ICP-QC
249	3085	10			CCV	P				5.5289		1.0000	11/08/95	14:21	bjo	0.2	@ICP-QC
250	3085	10			CCV	PB				5.1095		1.0000	11/08/95	14:21	bjo	0.1	@ICP-QC
251	3085	10			CCV	S				5.0800		1.0000	11/08/95	14:21	bjo	0.05	@ICP-QC
252	3085	10			CCV	SB				4.8870		1.0000	11/08/95	14:21	bjo	0.2	@ICP-QC
253	3085	10			CCV	SE				5.2550		1.0000	11/08/95	14:21	bjo	0.1	@ICP-QC
254	3085	10			CCV	SI				4.9145		1.0000	11/08/95	14:21	bjo	0.05	@ICP-QC
255	3085	10			CCV	SM				5.0505		1.0000	11/08/95	14:21	bjo	0.1	@ICP-QC
256	3085	10			CCV	SR				5.1221		1.0000	11/08/95	14:21	bjo	0.01	@ICP-QC
257	3085	10			CCV	TI				4.8751		1.0000	11/08/95	14:21	bjo	0.01	@ICP-QC
258	3085	10			CCV	TL				4.9271		1.0000	11/08/95	14:21	bjo	0.2	@ICP-QC
259	3085	10			CCV	U				9.8897		1.0000	11/08/95	14:21	bjo	0.4	@ICP-QC
260	3085	10			CCV	V				5.0881		1.0000	11/08/95	14:21	bjo	0.05	@ICP-QC
261	3085	10			CCV	ZN				5.0844		1.0000	11/08/95	14:21	bjo	0.01	@ICP-QC
262	3085	10			CCV	ZR				5.0746		1.0000	11/08/95	14:21	bjo	0.01	@ICP-QC
263	3085	11			CCB	AG				0.0050		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
264	3085	11			CCB	AL				-0.0088		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
265	3085	11			CCB	AS				0.0020		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
266	3085	11			CCB	B				0.0028		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
267	3085	11			CCB	BA				0.0003		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
268	3085	11			CCB	BE				0.0004		1.0000	11/08/95	14:23	bjo	0.005	@ICP-QC
269	3085	11			CCB	BI				0.0144		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
270	3085	11			CCB	CA				0.0023		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
271	3085	11			CCB	CD				0.0010		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
272	3085	11			CCB	CE				0.0145		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
273	3085	11			CCB	CO				0.0049		1.0000	11/08/95	14:23	bjo	0.02	@ICP-QC
274	3085	11			CCB	CR				-0.0008		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
275	3085	11			CCB	CU				0.0008		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
276	3085	11			CCB	FE				-0.0018		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
277	3085	11			CCB	K				0.0528		1.0000	11/08/95	14:23	bjo	0.3	@ICP-QC
278	3085	11			CCB	LA				0.0025		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
279	3085	11			CCB	LI				0.0008		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
280	3085	11			CCB	MG				0.0002		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
281	3085	11			CCB	MN				0.0003		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
282	3085	11			CCB	MO				0.0015		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
283	3085	11			CCB	NA				0.0277		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
284	3085	11			CCB	ND				0.0641		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
285	3085	11			CCB	NI				0.0022		1.0000	11/08/95	14:23	bjo	0.02	@ICP-QC
286	3085	11			CCB	P				-0.0018		1.0000	11/08/95	14:23	bjo	0.2	@ICP-QC
287	3085	11			CCB	PB				-0.0340		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
288	3085	11			CCB	S				-0.0646		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
289	3085	11			CCB	SB				0.0280		1.0000	11/08/95	14:23	bjo	0.2	@ICP-QC
290	3085	11			CCB	SE				-0.0133		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
291	3085	11			CCB	SI				0.0137		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
292	3085	11			CCB	SM				-0.0072		1.0000	11/08/95	14:23	bjo	0.1	@ICP-QC
293	3085	11			CCB	SR				0.0002		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
294	3085	11			CCB	TI				0.0021		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
295	3085	11			CCB	TL				-0.0394		1.0000	11/08/95	14:23	bjo	0.2	@ICP-QC
296	3085	11			CCB	U				0.1625		1.0000	11/08/95	14:23	bjo	0.4	@ICP-QC
297	3085	11			CCB	V				-0.0015		1.0000	11/08/95	14:23	bjo	0.05	@ICP-QC
298	3085	11			CCB	ZN				0.0012		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC
299	3085	11			CCB	ZR				0.0052		1.0000	11/08/95	14:23	bjo	0.01	@ICP-QC

WHC-SD-WM-DP-160, REV. I

SP
11/8/95

840

LABCORE Data Entry Template for Worklist# 3073

Analyst: JH Seto Instrument: ICP01L Book# 485482

Method: LA-505-151/161 Rev/Mod B-U

Worklist Comment: ICP B-204 (DIRECT)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 ICV			@ICP-QC	QC		
2 ICB			@ICP-QC	QC		
3 ICSA			@ICP-QC	QC		
4 ICSAB			@ICP-QC	QC		
5 SAMPLE	S95T003255 0 D	@ICP-D01	LIQUID		95000161 B-204	
Analytes Requested: AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01						
6 DUP	S95T003255 0 D	@ICP-D01	LIQUID			
7 SPK	S95T003255 0 D	@ICP-D01	LIQUID			
8 ICSA			@ICP-QC	QC		
9 ICSAB			@ICP-QC	QC		
10 CCV			@ICP-QC	QC		
11 CCB			@ICP-QC	QC		

Final page for worklist # 3073

JH Seto 11-10-95
Analyst Signature Date

Removal by:
Sam M. Parag 11/10/95
Analyst Signature Date

S95T003255-L, 1-10-2-8 of 505
S95T003255 1-10 161
S95T003255-D 1-10 161
S95T003255-Q 1-10 101, 1 ml sample + 2 ml S95T + 8 ml HNO3
Data Entry Comments:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	951110A	ICP2	11/10/95	09:29	DKS	Q	CONC
2	ICB	951110A	ICP2	11/10/95	09:32	DKS	Q	CONC
3	ICSA	951110A	ICP2	11/10/95	09:35	DKS	Q	CONC
4	ICSAB	951110A	ICP2	11/10/95	09:38	DKS	Q	CONC
5	S95T003255_L	951110A	ICP2	11/10/95	09:43	DKS	S	CONC
6	S95T003255-	951110A	ICP2	11/10/95	09:46	DKS	S	CONC
7	S95T003255_D	951110A	ICP2	11/10/95	09:50	DKS	S	CONC
8	S95T003255-A	951110A	ICP2	11/10/95	09:54	DKS	S	CONC
9	ICSA	951110A	ICP2	11/10/95	09:59	DKS	Q	CONC
10	ICSAB	951110A	ICP2	11/10/95	10:02	DKS	Q	CONC
11	CCV	951110A	ICP2	11/10/95	10:06	DKS	Q	CONC
12	CCB	951110A	ICP2	11/10/95	10:10	DKS	Q	CONC

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 842 TO 845.

[Signature]

11-10-95

B.204 S95T003255

Worklist # 3073

WHC-SD-WM-DP-160, REV. /

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.104	4.924	5.300	5.074	5.113	5.290
2	ICB	-.0005	-.0016	.0039	.0046	-.0002	.0001
3	ICSA	-.0134	241.1	.0249	.0052	.0031	.0002
4	ICSAB	.9567	239.3	.0296	.0054	.4742	.4854
5	S95T003255_L	-.2293	-3.990	-2.657	5.975	.4821	.0090
6	S95T003255_	-.0295	-.3930	.9140	4.315	.5548	.0059
7	S95T003255_D	-.0956	-.5156	.4248	4.018	.5018	.0125
8	S95T003255_A	46.58	95.13	107.7	102.6	98.39	103.4
9	ICSA	-.0125	243.3	.0179	.0106	.0032	.0002
10	ICSAB	.9738	243.3	.0398	.0050	.4841	.4989
11	CCV	5.163	4.934	5.385	5.104	5.170	5.348
12	CCB	-.0009	-.0025	-.0021	.0051	-.0001	.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.249	5.284	5.242	5.268	5.226	5.294
2	ICB	.0120	-.0019	.0003	-.0081	.0031	.0001
3	ICSA	-.0014	258.3	.0018	.0063	.0052	-.0045
4	ICSAB	.0323	258.6	.9756	.0038	.4820	.4840
5	S95T003255_L	11.89	-1.366	.4935	-2.935	1.031	164.0
6	S95T003255_	6.032	1.257	.1064	-.3934	.2028	160.7
7	S95T003255_D	3.131	-1.530	.0269	-.5416	.2260	154.8
8	S95T003255_A	108.3	106.5	104.3	101.2	103.9	260.4
9	ICSA	-.0098	268.3	.0019	.0020	.0013	-.0060
10	ICSAB	.0056	267.5	1.002	-.0024	.4928	.4951
11	CCV	5.343	5.500	5.316	5.315	5.295	5.381
12	CCB	.0164	-.0016	.0003	-.0040	.0008	.0015

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.159	.0077	5.259	5.048	5.172	5.006
2	ICB	-.0008	.0009	-.0011	-.1407	-.0004	.0007
3	ICSA	-.0077	-.0312	95.91	.0077	-.0042	.0030
4	ICSAB	.4759	-.0315	95.28	-.0060	-.0041	.9557
5	S95T003255_L	.0276	.8573	.7333	6508.	.1266	4.770
6	S95T003255_	-.0015	.1330	.1581	6482.	.0377	4.156
7	S95T003255_D	-.0793	.0428	-.1536	6296.	-.0200	4.024
8	S95T003255_A	99.96	.2361	104.1	6386.	100.5	99.90
9	ICSA	-.0084	-.0479	97.98	.0346	-.0047	.0042
10	ICSAB	.4844	-.0431	97.83	.0242	-.0046	.9677
11	CCV	5.172	.0087	5.328	5.028	5.227	4.975
12	CCB	-.0006	.0018	-.0012	-.1477	-.0002	.0013

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.996	5.132	5.213	5.025	5.210	5.203
2	ICB	-.0029	.0004	.0033	.0042	-.0032	-.0047
3	ICSA	240.8	-.0063	-.0093	194.0	.0078	-.0315
4	ICSAB	238.2	.4583	-.0124	191.5	.0092	.9334
5	S95T003255_L	-.4230	.3184	1.062	29700.	-.1702	-4.528

W/C-SD-WM-DP-160, REV. 1

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#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
6	S95T003255	.5937	.0772	.2475	28880.	.0915	-.5534
7	S95T003255 D	-.2443	.0402	.1536	28140.	-.2355	-.4967
8	S95T003255-A	96.50	99.56	104.2	28180.	101.1	103.0
9	ICSA	244.1	-.0061	-.0111	193.5	.0071	-.0270
10	ICSAB	242.2	.4695	-.0083	193.9	.0057	.9597
11	CCV	5.005	5.211	5.276	4.989	5.252	5.288
12	CCB	-.0022	.0008	.0030	.0109	-.0001	-.0022

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.362	5.297	5.000	4.915	5.054	5.093
2	ICB	.0113	-.0022	.0020	-.0018	.0102	.0125
3	ICSA	.0136	.0536	-.0272	.0047	.0068	.0231
4	ICSAB	.0112	1.094	-.0488	.0026	-.0055	.0245
5	S95T003255 L	696.7	-4.689	135.9	-1.416	13.22	63.80
6	S95T003255-	697.2	-1.002	142.3	.3023	2.801	67.95
7	S95T003255 D	667.4	-1.160	135.4	.4374	5.670	65.97
8	S95T003255-A	778.2	103.8	236.0	98.41	114.1	170.0
9	ICSA	.0332	.0444	-.0379	.0050	.0163	.0294
10	ICSAB	.0333	1.101	-.0200	-.0005	.0138	.0262
11	CCV	5.320	5.351	5.003	4.964	5.062	5.143
12	CCB	.0059	.0055	-.0016	-.0039	.0437	.0177

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.012	5.076	.0314	5.000	5.074	9.778
2	ICB	.0116	.0002	-.0058	-.0000	.0198	.0349
3	ICSA	-.0053	-.0026	-.0098	.0022	.0703	-.0096
4	ICSAB	.0018	-.0026	-.0113	.0020	.0529	-.0011
5	S95T003255 L	8.721	.1479	-4.454	.2082	12.02	181.2
6	S95T003255-	1.472	.0686	-.1054	.1292	1.512	150.3
7	S95T003255 D	.8910	.0604	-.9954	.0011	-.0502	152.1
8	S95T003255-A	97.96	98.67	.1007	98.39	102.3	341.4
9	ICSA	.0021	-.0028	-.0045	.0010	.0401	-.0440
10	ICSAB	-.0056	-.0028	-.0102	.0012	.0486	-.0479
11	CCV	5.069	5.123	.0366	5.058	5.124	9.856
12	CCB	.0211	.0002	-.0059	.0006	.0068	.0787

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.112	.0100	5.162	5.049
2	ICB	.0028	.0005	-.0002	.0004
3	ICSA	.0017	.0117	.0025	-.0011
4	ICSAB	.4741	.0119	.9850	.0001
5	S95T003255 L	2.118	.5564	.6071	1.365
6	S95T003255-	.4445	.1103	1.560	.2453
7	S95T003255 D	.2652	.0462	1.467	.1431
8	S95T003255-A	101.7	.2666	105.2	99.11
9	ICSA	.0035	.0124	.0035	-.0006
10	ICSAB	.4849	.0121	1.007	-.0002
11	CCV	5.184	.0105	5.234	5.111

WHC-SD-WM-DP-160, REV. (

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#	Sample Name	V	Y	Zn	Zr
12	CCB	.0045	.0012	.0006	.0027

VHC-SD-WM-DP-160, REV. 1

JK Lth

11-10-95

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OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	3073	1			ICV	AG				5.1041		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
2	3073	1			ICV	AL				4.9244		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
3	3073	1			ICV	AS				5.2999		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
4	3073	1			ICV	B				5.0737		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
5	3073	1			ICV	BA				5.1125		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
6	3073	1			ICV	BE				5.2902		1.0000	11/10/95	09:29	dks	0.005	@ICP-QC
7	3073	1			ICV	BI				5.2492		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
8	3073	1			ICV	CA				5.2843		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
9	3073	1			ICV	CD				5.2420		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
10	3073	1			ICV	CE				5.2884		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
11	3073	1			ICV	CO				5.2262		1.0000	11/10/95	09:29	dks	0.02	@ICP-QC
12	3073	1			ICV	CR				5.2941		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
13	3073	1			ICV	CU				5.1586		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
14	3073	1			ICV	EU				0.0077		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
15	3073	1			ICV	FE				5.2590		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
16	3073	1			ICV	K				5.0477		1.0000	11/10/95	09:29	dks	0.3	@ICP-QC
17	3073	1			ICV	LA				5.1718		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
18	3073	1			ICV	LI				5.0064		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
19	3073	1			ICV	MG				4.9665		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
20	3073	1			ICV	MN				5.1322		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
21	3073	1			ICV	MO				5.2130		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
22	3073	1			ICV	NA				5.0252		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
23	3073	1			ICV	ND				5.2105		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
24	3073	1			ICV	NI				5.2028		1.0000	11/10/95	09:29	dks	0.02	@ICP-QC
25	3073	1			ICV	P				5.3616		1.0000	11/10/95	09:29	dks	0.2	@ICP-QC
26	3073	1			ICV	PB				5.2965		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
27	3073	1			ICV	S				5.0004		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
28	3073	1			ICV	SB				4.9151		1.0000	11/10/95	09:29	dks	0.2	@ICP-QC
29	3073	1			ICV	SE				5.0536		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
30	3073	1			ICV	SI				5.0926		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
31	3073	1			ICV	SM				5.0119		1.0000	11/10/95	09:29	dks	0.1	@ICP-QC
32	3073	1			ICV	SR				5.0759		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
33	3073	1			ICV	TH				0.0314		1.0000	11/10/95	09:29	dks	0	@ICP-QC
34	3073	1			ICV	TI				4.9698		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
35	3073	1			ICV	TL				5.0737		1.0000	11/10/95	09:29	dks	0.2	@ICP-QC
36	3073	1			ICV	U				9.7785		1.0000	11/10/95	09:29	dks	0.4	@ICP-QC
37	3073	1			ICV	V				5.1123		1.0000	11/10/95	09:29	dks	0.05	@ICP-QC
38	3073	1			ICV	Y				0.0100		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
39	3073	1			ICV	ZN				5.1819		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
40	3073	1			ICV	ZR				5.0494		1.0000	11/10/95	09:29	dks	0.01	@ICP-QC
41	3073	2			ICB	AG				-0.0005		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
42	3073	2			ICB	AL				-0.0018		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
43	3073	2			ICB	AS				0.0039		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
44	3073	2			ICB	B				0.0048		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
45	3073	2			ICB	BA				-0.0002		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
46	3073	2			ICB	BE				0.0001		1.0000	11/10/95	09:32	dks	0.005	@ICP-QC
47	3073	2			ICB	BI				0.0120		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
48	3073	2			ICB	CA				-0.0019		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
49	3073	2			ICB	CD				0.0003		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
50	3073	2			ICB	CE				-0.0081		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
51	3073	2			ICB	CO				0.0031		1.0000	11/10/95	09:32	dks	0.02	@ICP-QC
52	3073	2			ICB	CR				0.0001		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
53	3073	2			ICB	CU				-0.0008		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
54	3073	2			ICB	EU				0.0009		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
55	3073	2			ICB	FE				-0.0011		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
56	3073	2			ICB	K				-0.1407		1.0000	11/10/95	09:32	dks	0.3	@ICP-QC
57	3073	2			ICB	LA				-0.0004		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
58	3073	2			ICB	LI				0.0007		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
59	3073	2			ICB	MG				-0.0029		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
60	3073	2			ICB	MN				0.0004		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
61	3073	2			ICB	MO				0.0033		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
62	3073	2			ICB	NA				0.0042		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
63	3073	2			ICB	ND				-0.0032		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
64	3073	2			ICB	NI				-0.0047		1.0000	11/10/95	09:32	dks	0.02	@ICP-QC
65	3073	2			ICB	P				0.0113		1.0000	11/10/95	09:32	dks	0.2	@ICP-QC
66	3073	2			ICB	PB				-0.0022		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
67	3073	2			ICB	S				0.0020		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
68	3073	2			ICB	SB				-0.0018		1.0000	11/10/95	09:32	dks	0.2	@ICP-QC
69	3073	2			ICB	SE				0.0102		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
70	3073	2			ICB	SI				0.0125		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
71	3073	2			ICB	SM				0.0116		1.0000	11/10/95	09:32	dks	0.1	@ICP-QC
72	3073	2			ICB	SR				0.0002		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
73	3073	2			ICB	TH				-0.0058		1.0000	11/10/95	09:32	dks	0	@ICP-QC
74	3073	2			ICB	TI				-0.0000		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
75	3073	2			ICB	TL				0.0198		1.0000	11/10/95	09:32	dks	0.2	@ICP-QC
76	3073	2			ICB	U				0.0349		1.0000	11/10/95	09:32	dks	0.4	@ICP-QC
77	3073	2			ICB	V				0.0028		1.0000	11/10/95	09:32	dks	0.05	@ICP-QC
78	3073	2			ICB	Y				0.0005		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
79	3073	2			ICB	ZN				-0.0002		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
80	3073	2			ICB	ZR				0.0004		1.0000	11/10/95	09:32	dks	0.01	@ICP-QC
81	3073	3			ICSA	AG				-0.0134		1.0000	11/10/95	09:35	dks	0.01	@ICP-QC
82	3073	3			ICSA	AL				241.1313		1.0000	11/10/95	09:35	dks	0.05	@ICP-QC
83	3073	3			ICSA	AS				0.0249		1.0000	11/10/95	09:35	dks	0.05	@ICP-QC
84	3073	3			ICSA	B				0.0052		1.0000	11/10/95	09:35	dks	0.05	@ICP-QC
85	3073	3			ICSA	BA				0.0031		1.0000	11/10/95	09:35	dks	0.05	@ICP-QC
86	3073	3			ICSA	BE				0.0002		1.0000	11/10/95	09:35	dks	0.005	@ICP-QC
87	3073	3			ICSA	BI				-0.0014		1.0000	11/10/95	09:35	dks	0.1	@ICP-QC
88	3073	3			ICSA	CA				258.2883		1.0000	11/10/95	09:35	dks	0.1	@ICP-QC
89	3073	3			ICSA	CD				0.0018		1.0000	11/10/95	09:35	dks	0.01	@ICP-QC
90	3073	3			ICSA	CE				0.0063		1.0000	11/10/95	09:35	dks	0.1	@ICP-QC
91	3073	3			ICSA	CO				0.0052		1.0000	11/10/95	09:35	dks	0.02	@ICP-QC
92	3073	3			ICSA	CR				-0.0045		1.0000	11/10/95	09:35	dks	0.01	@ICP-QC
93	3073	3			ICSA												

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
131	3073	4			ICSA8	AS				0.0298		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
132	3073	4			ICSA8	B				0.0054		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
133	3073	4			ICSA8	BA				0.4742		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
134	3073	4			ICSA8	BE				0.4854		1.0000	11/10/95	09:38	dks	0.005	ICP-QC
135	3073	4			ICSA8	BI				0.0324		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
136	3073	4			ICSA8	CA				258.5319		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
137	3073	4			ICSA8	CD				0.9758		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
138	3073	4			ICSA8	CE				0.0038		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
139	3073	4			ICSA8	CO				0.4820		1.0000	11/10/95	09:38	dks	0.02	ICP-QC
140	3073	4			ICSA8	CR				0.4840		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
141	3073	4			ICSA8	CU				0.4759		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
142	3073	4			ICSA8	EU				-0.0315		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
143	3073	4			ICSA8	FE				95.2844		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
144	3073	4			ICSA8	K				-0.0080		1.0000	11/10/95	09:38	dks	0.3	ICP-QC
145	3073	4			ICSA8	LI				-0.0041		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
146	3073	4			ICSA8	LI				0.9537		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
147	3073	4			ICSA8	MG				238.1852		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
148	3073	4			ICSA8	MN				0.4583		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
149	3073	4			ICSA8	MO				-0.0124		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
150	3073	4			ICSA8	NA				191.5381		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
151	3073	4			ICSA8	ND				0.0092		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
152	3073	4			ICSA8	NI				0.9334		1.0000	11/10/95	09:38	dks	0.02	ICP-QC
153	3073	4			ICSA8	P				0.0112		1.0000	11/10/95	09:38	dks	0.2	ICP-QC
154	3073	4			ICSA8	PB				1.0938		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
155	3073	4			ICSA8	S				-0.0488		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
156	3073	4			ICSA8	SB				0.0028		1.0000	11/10/95	09:38	dks	0.2	ICP-QC
157	3073	4			ICSA8	SE				-0.0055		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
158	3073	4			ICSA8	SI				0.0245		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
159	3073	4			ICSA8	SM				0.0018		1.0000	11/10/95	09:38	dks	0.1	ICP-QC
160	3073	4			ICSA8	SR				-0.0025		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
161	3073	4			ICSA8	TH				-0.0113		1.0000	11/10/95	09:38	dks	0	ICP-QC
162	3073	4			ICSA8	TI				0.0020		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
163	3073	4			ICSA8	TL				0.0529		1.0000	11/10/95	09:38	dks	0.2	ICP-QC
164	3073	4			ICSA8	U				-0.0011		1.0000	11/10/95	09:38	dks	0.4	ICP-QC
165	3073	4			ICSA8	V				0.4741		1.0000	11/10/95	09:38	dks	0.05	ICP-QC
166	3073	4			ICSA8	Y				0.0119		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
167	3073	4			ICSA8	ZN				0.9850		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
168	3073	4			ICSA8	ZR				0.0001		1.0000	11/10/95	09:38	dks	0.01	ICP-QC
169	3073	5	S95T003255		AG-D-01					1.0100		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
170	3073	5	S95T003255		AL-D-01					5.0500		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
171	3073	5	S95T003255		AS-D-01					5.0500		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
172	3073	5	S95T003255		B-D-01					5.0500		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
173	3073	5	S95T003255		BA-D-01					5.0500		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
174	3073	5	S95T003255		BE-D-01					0.5050		101.0000	11/10/95	09:48	dks	0.005	ICP-D01
175	3073	5	S95T003255		BI-D-01					10.1000		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
176	3073	5	S95T003255		CA-D-01					10.1000		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
177	3073	5	S95T003255		CD-D-01					1.0100		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
178	3073	5	S95T003255		CE-D-01					10.1000		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
179	3073	5	S95T003255		CO-D-01					2.0200		101.0000	11/10/95	09:48	dks	0.02	ICP-D01
180	3073	5	S95T003255		CR-D-01					160.7285		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
181	3073	5	S95T003255		CU-D-01					1.0100		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
182	3073	5	S95T003255		FE-D-01					5.0500		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
183	3073	5	S95T003255		K-D-01					8481.7241		101.0000	11/10/95	09:48	dks	0.3	ICP-D01
184	3073	5	S95T003255		LA-D-01					5.0500		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
185	3073	5	S95T003255		LI-D-01					4.1583		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
186	3073	5	S95T003255		MG-D-01					10.1000		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
187	3073	5	S95T003255		MN-D-01					1.0100		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
188	3073	5	S95T003255		MO-D-01					5.0500		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
189	3073	5	S95T003255		NA-D-01					28881.8438		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
190	3073	5	S95T003255		ND-D-01					10.1000		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
191	3073	5	S95T003255		NI-D-01					2.0200		101.0000	11/10/95	09:48	dks	0.02	ICP-D01
192	3073	5	S95T003255		P-D-01					897.1505		101.0000	11/10/95	09:48	dks	0.2	ICP-D01
193	3073	5	S95T003255		PB-D-01					10.1000		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
194	3073	5	S95T003255		S-D-01					142.2707		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
195	3073	5	S95T003255		SB-D-01					20.2000		101.0000	11/10/95	09:48	dks	0.2	ICP-D01
196	3073	5	S95T003255		SE-D-01					10.1000		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
197	3073	5	S95T003255		SI-D-01					87.9489		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
198	3073	5	S95T003255		SM-D-01					10.1000		101.0000	11/10/95	09:48	dks	0.1	ICP-D01
199	3073	5	S95T003255		SR-D-01					1.0100		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
200	3073	5	S95T003255		TI-D-01					1.0100		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
201	3073	5	S95T003255		TL-D-01					20.2000		101.0000	11/10/95	09:48	dks	0.2	ICP-D01
202	3073	5	S95T003255		U-D-01					150.2811		101.0000	11/10/95	09:48	dks	0.4	ICP-D01
203	3073	5	S95T003255		V-D-01					5.0500		101.0000	11/10/95	09:48	dks	0.05	ICP-D01
204	3073	5	S95T003255		ZN-D-01					1.5804		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
205	3073	5	S95T003255		ZR-D-01					1.0100		101.0000	11/10/95	09:48	dks	0.01	ICP-D01
206	3073	6	S95T003255		AG-D-01					<1.0100		101.0000	11/10/95	09:50	dks	0.01	ICP-D01
207	3073	6	S95T003255		AL-D-01					<5.0500		101.0000	11/10/95	09:50	dks	0.05	ICP-D01
208	3073	6	S95T003255		AS-D-01					<5.0500		101.0000	11/10/95	09:50	dks	0.05	ICP-D01
209	3073	6	S95T003255		B-D-01					<5.0500		101.0000	11/10/95	09:50	dks	0.05	ICP-D01
210	3073	6	S95T003255		BA-D-01					<5.0500		101.0000	11/10/95	09:50	dks	0.05	ICP-D01
211	3073	6	S95T003255		BE-D-01					<0.5050		101.0000	11/10/95	09:50	dks	0.005	ICP-D01
212	3073	6	S95T003255		BI-D-01					<10.1000		101.0000	11/10/95	09:50	dks	0.1	ICP-D01
213	3073	6	S95T003255		CA-D-01					<10.1000		101.0000	11/10/95	09:50	dks	0.1	ICP-D01
214	3073	6	S95T003255		CD-D-01					<1.0100		101.0000	11/10/95	09:50	dks	0.01	ICP-D01
215	3073	6	S95T003255		CE-D-01					<10.1000		101.0000	11/10/95	09:50	dks	0.1	ICP-D01
216	3073	6	S95T003255		CO-D-01					<2.0200		101.0000	11/10/95	09:50	d		

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
245	3073	7	S95T003255_A		SPK	CO-D-01			101	103.9452			101.0000	11/10/95	09:54	dks	0.02 @ICP-D01
246	3073	7	S95T003255_A		SPK	CR-D-01			101	99.7189			101.0000	11/10/95	09:54	dks	0.01 @ICP-D01
247	3073	7	S95T003255_A		SPK	CU-D-01			101	99.9552			101.0000	11/10/95	09:54	dks	0.01 @ICP-D01
248	3073	7	S95T003255_A		SPK	FE-D-01			101	104.0793			101.0000	11/10/95	09:54	dks	0.05 @ICP-D01
249	3073	7	S95T003255_A		SPK	K-D-01	N/A			N/A			101.0000	11/10/95	09:54	dks	0.2 @ICP-D01
250	3073	7	S95T003255_A		SPK	LA-D-01			101	100.4826			101.0000	11/10/95	09:54	dks	0.05 @ICP-D01
251	3073	7	S95T003255_A		SPK	LI-D-01			101	95.7398			101.0000	11/10/95	09:54	dks	0.01 @ICP-D01
252	3073	7	S95T003255_A		SPK	MG-D-01			101	98.5039			101.0000	11/10/95	09:54	dks	0.1 @ICP-D01
253	3073	7	S95T003255_A		SPK	MN-D-01			101	99.5610			101.0000	11/10/95	09:54	dks	0.01 @ICP-D01
254	3073	7	S95T003255_A		SPK	MO-D-01			101	104.2256			101.0000	11/10/95	09:54	dks	0.05 @ICP-D01
255	3073	7	S95T003255_A		SPK	NA-D-01	N/A			N/A			101.0000	11/10/95	09:54	dks	0.1 @ICP-D01
256	3073	7	S95T003255_A		SPK	ND-D-01			101	101.1013			101.0000	11/10/95	09:54	dks	0.1 @ICP-D01
257	3073	7	S95T003255_A		SPK	NI-D-01			101	102.9584			101.0000	11/10/95	09:54	dks	0.02 @ICP-D01
258	3073	7	S95T003255_A		SPK	P-D-01			101	81.0590			101.0000	11/10/95	09:54	dks	0.2 @ICP-D01
259	3073	7	S95T003255_A		SPK	PB-D-01			101	103.7540			101.0000	11/10/95	09:54	dks	0.1 @ICP-D01
260	3073	7	S95T003255_A		SPK	S-D-01			101	93.6848			101.0000	11/10/95	09:54	dks	0.05 @ICP-D01
261	3073	7	S95T003255_A		SPK	SB-D-01			101	98.4104			101.0000	11/10/95	09:54	dks	0.2 @ICP-D01
262	3073	7	S95T003255_A		SPK	SE-D-01			101	114.1442			101.0000	11/10/95	09:54	dks	0.1 @ICP-D01
263	3073	7	S95T003255_A		SPK	SI-D-01			101	102.9444			101.0000	11/10/95	09:54	dks	0.05 @ICP-D01
264	3073	7	S95T003255_A		SPK	SM-D-01			101	97.9586			101.0000	11/10/95	09:54	dks	0.1 @ICP-D01
265	3073	7	S95T003255_A		SPK	SR-D-01			101	98.6658			101.0000	11/10/95	09:54	dks	0.01 @ICP-D01
266	3073	7	S95T003255_A		SPK	TH-D-01			101	98.3675			101.0000	11/10/95	09:54	dks	0.01 @ICP-D01
267	3073	7	S95T003255_A		SPK	TL-D-01			101	102.2947			101.0000	11/10/95	09:54	dks	0.2 @ICP-D01
268	3073	7	S95T003255_A		SPK	U-D-01			202	191.1208			101.0000	11/10/95	09:54	dks	0.4 @ICP-D01
269	3073	7	S95T003255_A		SPK	V-D-01			101	101.6746			101.0000	11/10/95	09:54	dks	0.05 @ICP-D01
270	3073	7	S95T003255_A		SPK	ZN-D-01			101	103.6181			101.0000	11/10/95	09:54	dks	0.01 @ICP-D01
271	3073	7	S95T003255_A		SPK	ZR-D-01			101	99.1088			101.0000	11/10/95	09:54	dks	0.01 @ICP-D01
272	3073	8			ICSA	AG				-0.0125			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
273	3073	8			ICSA	AL				243.3481			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
274	3073	8			ICSA	AS				0.0179			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
275	3073	8			ICSA	B				0.0108			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
276	3073	8			ICSA	BA				0.0032			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
277	3073	8			ICSA	BE				0.0002			1.0000	11/10/95	09:59	dks	0.005 @ICP-QC
278	3073	8			ICSA	BI				-0.0098			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
279	3073	8			ICSA	CA				288.2960			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
280	3073	8			ICSA	CD				0.0019			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
281	3073	8			ICSA	CE				0.0020			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
282	3073	8			ICSA	CO				0.0013			1.0000	11/10/95	09:59	dks	0.02 @ICP-QC
283	3073	8			ICSA	CR				-0.0060			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
284	3073	8			ICSA	CU				-0.0084			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
285	3073	8			ICSA	EU				-0.0479			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
286	3073	8			ICSA	FE				97.9823			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
287	3073	8			ICSA	K				0.0346			1.0000	11/10/95	09:59	dks	0.3 @ICP-QC
288	3073	8			ICSA	LA				-0.0047			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
289	3073	8			ICSA	LI				0.0042			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
290	3073	8			ICSA	MG				244.0869			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
291	3073	8			ICSA	MN				-0.0081			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
292	3073	8			ICSA	MO				-0.0111			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
293	3073	8			ICSA	NA				193.4818			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
294	3073	8			ICSA	ND				0.0071			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
295	3073	8			ICSA	NI				-0.0270			1.0000	11/10/95	09:59	dks	0.02 @ICP-QC
296	3073	8			ICSA	P				0.0332			1.0000	11/10/95	09:59	dks	0.2 @ICP-QC
297	3073	8			ICSA	PB				0.0444			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
298	3073	8			ICSA	S				-0.0379			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
299	3073	8			ICSA	SB				0.0050			1.0000	11/10/95	09:59	dks	0.2 @ICP-QC
300	3073	8			ICSA	SE				0.0183			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
301	3073	8			ICSA	SI				0.0294			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
302	3073	8			ICSA	SM				0.0021			1.0000	11/10/95	09:59	dks	0.1 @ICP-QC
303	3073	8			ICSA	SR				-0.0028			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
304	3073	8			ICSA	TH				-0.0045			1.0000	11/10/95	09:59	dks	0 @ICP-QC
305	3073	8			ICSA	TI				0.0010			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
306	3073	8			ICSA	TL				0.0401			1.0000	11/10/95	09:59	dks	0.2 @ICP-QC
307	3073	8			ICSA	U				-0.0440			1.0000	11/10/95	09:59	dks	0.4 @ICP-QC
308	3073	8			ICSA	V				0.0035			1.0000	11/10/95	09:59	dks	0.05 @ICP-QC
309	3073	8			ICSA	Y				0.0124			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
310	3073	8			ICSA	ZN				0.0035			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
311	3073	8			ICSA	ZR				-0.0006			1.0000	11/10/95	09:59	dks	0.01 @ICP-QC
312	3073	9			ICSA	AG				0.9738			1.0000	11/10/95	10:02	dks	0.01 @ICP-QC
313	3073	9			ICSA	AL				243.3313			1.0000	11/10/95	10:02	dks	0.05 @ICP-QC
314	3073	9			ICSA	AS				0.0398			1.0000	11/10/95	10:02	dks	0.05 @ICP-QC
315	3073	9			ICSA	B				0.0050			1.0000	11/10/95	10:02	dks	0.05 @ICP-QC
316	3073	9			ICSA	BA				0.4841			1.0000	11/10/95	10:02	dks	0.05 @ICP-QC
317	3073	9			ICSA	BE				0.4989			1.0000	11/10/95	10:02	dks	0.005 @ICP-QC
318	3073	9			ICSA	BI				0.0056			1.0000	11/10/95	10:02	dks	0.1 @ICP-QC
319	3073	9			ICSA	CA				267.3049			1.0000	11/10/95	10:02	dks	0.1 @ICP-QC
320	3073	9			ICSA	CD				1.0024			1.0000	11/10/95	10:02	dks	0.01 @ICP-QC
321	3073	9			ICSA	CE				-0.0024			1.0000	11/10/95	10:02	dks	0.1 @ICP-QC
322	3073	9			ICSA	CO				0.4928			1.0000	11/10/95	10:02	dks	0.02 @ICP-QC
323	3073	9			ICSA	CR				0.4951			1.0000	11/10/95	10:02	dks	0.01 @ICP-QC
324	3073	9			ICSA	CU				0.4844			1.0000	11/10/95	10:02	dks	0.01 @ICP-QC
325	3073	9			ICSA	EU				-0.0431			1.0000	11/10/95	10:02	dks	0.05 @ICP-QC
326	3073	9			ICSA	FE				97.8260			1.0000	11/10/95	10:02	dks	0.05 @ICP-QC
327	3073	9			ICSA	K				0.0242			1.0000	11/10/95	10:02	dks	0.3 @ICP-QC
328	3073	9			ICSA	LA				-0.0046			1.0000	11/10/95	10:02	dks	0.05 @ICP-QC
329	3073	9			ICSA	LI				0.9877			1.0000	11/10/95	10:02	dks	0.01 @ICP-QC
330	3073	9			ICSA	MG				242.2300			1.0000	11/10/95	10:02	dks	0.1 @ICP-QC
331	3073	9			ICSA	MN				0.4895			1.0000	11/10/95	10:02		

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
347	3073	10			CCV	K				5.0280		1.0000	11/10/95	10:06	dks	0.3	@ICP-QC
348	3073	10			CCV	LA				5.2273		1.0000	11/10/95	10:06	dks	0.05	@ICP-QC
349	3073	10			CCV	LI				4.9752		1.0000	11/10/95	10:06	dks	0.01	@ICP-QC
370	3073	10			CCV	MG				5.0051		1.0000	11/10/95	10:06	dks	0.1	@ICP-QC
371	3073	10			CCV	MM				5.2106		1.0000	11/10/95	10:06	dks	0.01	@ICP-QC
372	3073	10			CCV	MO				5.2760		1.0000	11/10/95	10:06	dks	0.05	@ICP-QC
373	3073	10			CCV	NA				4.9894		1.0000	11/10/95	10:06	dks	0.1	@ICP-QC
374	3073	10			CCV	ND				5.2518		1.0000	11/10/95	10:06	dks	0.1	@ICP-QC
375	3073	10			CCV	NI				5.2878		1.0000	11/10/95	10:06	dks	0.02	@ICP-QC
376	3073	10			CCV	P				5.3196		1.0000	11/10/95	10:06	dks	0.2	@ICP-QC
377	3073	10			CCV	PB				5.3515		1.0000	11/10/95	10:06	dks	0.1	@ICP-QC
378	3073	10			CCV	S				5.0035		1.0000	11/10/95	10:06	dks	0.05	@ICP-QC
379	3073	10			CCV	SB				4.9837		1.0000	11/10/95	10:06	dks	0.2	@ICP-QC
380	3073	10			CCV	SE				5.0815		1.0000	11/10/95	10:06	dks	0.1	@ICP-QC
381	3073	10			CCV	SI				5.1428		1.0000	11/10/95	10:06	dks	0.05	@ICP-QC
382	3073	10			CCV	SM				5.0688		1.0000	11/10/95	10:06	dks	0.1	@ICP-QC
383	3073	10			CCV	SR				5.1230		1.0000	11/10/95	10:06	dks	0.01	@ICP-QC
384	3073	10			CCV	TH				0.0366		1.0000	11/10/95	10:06	dks	0	@ICP-QC
385	3073	10			CCV	TI				5.0575		1.0000	11/10/95	10:06	dks	0.01	@ICP-QC
387	3073	10			CCV	TL				5.1235		1.0000	11/10/95	10:06	dks	0.2	@ICP-QC
388	3073	10			CCV	U				9.8559		1.0000	11/10/95	10:06	dks	0.4	@ICP-QC
389	3073	10			CCV	V				5.1836		1.0000	11/10/95	10:06	dks	0.05	@ICP-QC
390	3073	10			CCV	Y				0.0105		1.0000	11/10/95	10:06	dks	0.01	@ICP-QC
391	3073	10			CCV	ZN				5.2345		1.0000	11/10/95	10:06	dks	0.01	@ICP-QC
392	3073	11			CCB	AG				5.1108		1.0000	11/10/95	10:06	dks	0.01	@ICP-QC
393	3073	11			CCB	AL				-0.0009		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
394	3073	11			CCB	AS				-0.0025		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
395	3073	11			CCB	BA				-0.0021		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
396	3073	11			CCB	BE				0.0051		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
397	3073	11			CCB	BI				-0.0001		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
398	3073	11			CCB	CA				0.0000		1.0000	11/10/95	10:10	dks	0.005	@ICP-QC
399	3073	11			CCB	CD				0.0184		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
400	3073	11			CCB	CE				-0.0016		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
401	3073	11			CCB	CO				0.0003		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
402	3073	11			CCB	CR				-0.0040		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
403	3073	11			CCB	CU				0.0008		1.0000	11/10/95	10:10	dks	0.02	@ICP-QC
404	3073	11			CCB	EU				0.0015		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
405	3073	11			CCB	FE				-0.0008		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
406	3073	11			CCB	K				0.0018		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
407	3073	11			CCB	LA				-0.0012		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
408	3073	11			CCB	LI				-0.1477		1.0000	11/10/95	10:10	dks	0.3	@ICP-QC
409	3073	11			CCB	MG				-0.0002		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
410	3073	11			CCB	MM				0.0013		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
411	3073	11			CCB	MN				-0.0022		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
412	3073	11			CCB	MO				0.0008		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
413	3073	11			CCB	NA				0.0030		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
414	3073	11			CCB	ND				0.0109		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
415	3073	11			CCB	NI				-0.0001		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
416	3073	11			CCB	P				-0.0022		1.0000	11/10/95	10:10	dks	0.02	@ICP-QC
417	3073	11			CCB	PB				0.0058		1.0000	11/10/95	10:10	dks	0.2	@ICP-QC
418	3073	11			CCB	S				0.0055		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
419	3073	11			CCB	SB				-0.0016		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
420	3073	11			CCB	SE				-0.0039		1.0000	11/10/95	10:10	dks	0.2	@ICP-QC
421	3073	11			CCB	SI				0.0437		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
422	3073	11			CCB	SM				0.0177		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
423	3073	11			CCB	SR				0.0211		1.0000	11/10/95	10:10	dks	0.1	@ICP-QC
424	3073	11			CCB	TH				0.0002		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
425	3073	11			CCB	TI				-0.0059		1.0000	11/10/95	10:10	dks	0	@ICP-QC
426	3073	11			CCB	TL				0.0006		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
427	3073	11			CCB	U				0.0068		1.0000	11/10/95	10:10	dks	0.2	@ICP-QC
428	3073	11			CCB	V				0.0787		1.0000	11/10/95	10:10	dks	0.4	@ICP-QC
429	3073	11			CCB	Y				0.0045		1.0000	11/10/95	10:10	dks	0.05	@ICP-QC
430	3073	11			CCB	ZN				0.0012		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
431	3073	11			CCB	ZR				0.0006		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC
432	3073	11			CCB					0.0027		1.0000	11/10/95	10:10	dks	0.01	@ICP-QC

WHC-SD-WM-DP-160, REV. I

SP
11/10/95

LABCORE Data Entry Template for Worklist# 3109

Analyst: JK Sato Instrument: ICP01-5 Book# 488482

Method: LA-505-151/161 Rev/Mod B-C

Worklist Comment: ICP B-204 (DIRECT) Li only

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	SAMPLE	S95T002952	0	D	@ICP-D03	LIQUID	95000161	B-204
Analytes Requested: LI-D-01								
6	DUP	S95T002952	0	D	@ICP-D03	LIQUID		
7	SPK	S95T002952	0	D	@ICP-D03	LIQUID		
8	ICSA				@ICP-QC	QC		
9	ICSAB				@ICP-QC	QC		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		

Final page for worklist # 3109

JK Sato 11/10/95
Analyst Signature Date

Samuel N. Pavy 11/13/95
Analyst Signature Date

S95T002952-L, 1-10-2.8 mL DF 55
S95T002952 1-10 11
S95T002952-D 1-10 11
S95T002952-Q 1-10 11, 1 mL sample + 2.2 mL SST3 + 7.8 mL HNO₃

Data Entry Comments:

Note: Spike recovery is poor because the sample is 4 x > than the spiking amount.

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Model
1	ICV	951110C	ICP2	11/10/95	14:12	DKS	Q	CONC
2	ICB	951110C	ICP2	11/10/95	14:16	DKS	Q	CONC
3	ICSA	951110C	ICP2	11/10/95	14:18	DKS	Q	CONC
4	ICSAB	951110C	ICP2	11/10/95	14:21	DKS	Q	CONC
5	S95T002952 L	951110C	ICP2	11/10/95	14:25	DKS	S	CONC
6	S95T002952	951110C	ICP2	11/10/95	14:29	DKS	S	CONC
7	S95T002952 D	951110C	ICP2	11/10/95	14:32	DKS	S	CONC
8	S95T002952 A	951110C	ICP2	11/10/95	14:36	DKS	S	CONC
9	ICSA	951110C	ICP2	11/10/95	14:44	DKS	Q	CONC
10	ICSAB	951110C	ICP2	11/10/95	14:47	DKS	Q	CONC
11	ICV	951110C	ICP2	11/10/95	14:52	DKS	Q	CONC
12	ICB	951110C	ICP2	11/10/95	14:56	DKS	Q	CONC

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 851 TO 854.

JK *[Signature]*

11-10-95

B-204 S95T002952

Worklist # 3109

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.160	5.020	5.416	5.137	5.172	5.363
2	ICB	-.0001	.0022	.0070	.0054	-.0001	.0000
3	ICSA	-.0130	241.8	.0040	.0010	.0031	.0002
4	ICSAB	.9597	242.6	-.0067	-.0044	.4774	.4850
5	S95T002952_L	.0735	.0062	.2651	.2303	.1280	.0037
6	S95T002952_-	.0079	.0930	.1283	.0414	.1262	.0015
7	S95T002952_D	.0080	.0220	.0422	.0507	.1251	.0011
8	S95T002952_A	10.21	10.57	11.88	10.88	10.73	11.17
9	ICSA	-.0106	240.6	-.0258	-.0022	.0032	.0002
10	ICSAB	.9524	241.0	-.0120	.0034	.4719	.4823
11	CCV	5.147	4.978	5.325	5.084	5.143	5.309
12	CCB	.0014	.0033	.0076	.0029	-.0001	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.314	5.271	5.242	5.342	5.221	5.298
2	ICB	-.0136	-.0015	.0003	-.0000	.0004	-.0009
3	ICSA	-.0024	248.4	.0004	.0045	.0016	-.0053
4	ICSAB	-.0002	250.1	.9541	.0076	.4730	.4734
5	S95T002952_L	-1.108	3.194	-.0238	.0313	-.0368	-.0617
6	S95T002952_-	-.0055	3.174	-.0001	.0318	.0182	-.0020
7	S95T002952_D	-.2925	3.052	-.0012	.0736	-.0259	-.0090
8	S95T002952_A	11.24	14.51	11.11	11.25	11.05	11.26
9	ICSA	-.0313	251.4	-.0002	.0103	.0006	-.0060
10	ICSAB	-.0092	248.6	.9465	.0057	.4645	.4706
11	CCV	5.295	5.272	5.199	5.321	5.183	5.269
12	CCB	-.0190	-.0003	.0001	.0017	.0001	-.0013

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.275	.0067	5.304	4.993	5.257	5.183
2	ICB	.0000	-.0004	-.0002	-.1575	.0001	-.0024
3	ICSA	-.0078	-.0144	94.37	.0122	-.0049	.0021
4	ICSAB	.4846	-.0129	94.75	-.0313	-.0047	.9991
5	S95T002952_L	-.0441	.0118	.0223	.9023	.0392	2022.
6	S95T002952_-	.0067	.0004	.0258	-.4363	-.0035	1974.
7	S95T002952_D	.0044	-.0004	.0017	2.275	.0029	1976.
8	S95T002952_A	10.96	.0199	11.15	11.73	10.96	1962.
9	ICSA	-.0080	-.0209	94.75	.1931	-.0032	.0009
10	ICSAB	.4812	-.0137	94.08	.0939	-.0046	.9904
11	CCV	5.248	.0072	5.260	5.079	5.229	5.158
12	CCB	.0000	-.0001	.0000	.0675	-.0000	-.0021

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.089	5.143	5.248	5.127	5.307	5.192
2	ICB	-.0036	.0001	.0000	-.0040	-.0008	.0042
3	ICSA	242.8	-.0073	-.0126	198.1	.0085	-.0181
4	ICSAB	242.6	.4506	-.0137	197.8	.0078	.9115
5	S95T002952_L	.0769	.1804	.1185	5.239	-.1374	-.0064

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#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
6	S95T002952	.1597	.1754	.0354	5.351	-.0282	.0494
7	S95T002952_D	.1894	.1750	.0320	5.390	-.0151	.1458
8	S95T002952_A	10.66	10.84	11.23	16.12	11.08	11.00
9	ICSA	242.2	-.0071	-.0169	195.7	.0115	-.0190
10	ICSAB	240.9	.4470	-.0125	196.8	.0101	.9027
11	CCV	5.050	5.115	5.210	5.116	5.285	5.163
12	CCB	-.0037	.0001	.0008	-.0018	-.0019	-.0038

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.363	5.270	5.073	4.968	5.147	5.157
2	ICB	.0021	-.0027	-.0023	.0075	.0129	.0086
3	ICSA	.0229	.0483	-.0211	.0152	-.0093	.0211
4	ICSAB	.0234	1.061	-.0133	.0079	-.0139	.0221
5	S95T002952_L	-.2906	.2542	1.160	.3959	.9771	1.289
6	S95T002952_	.0584	.2208	1.574	.1074	.3111	.6198
7	S95T002952_D	.1070	.0179	1.566	.0429	.3446	.6002
8	S95T002952_A	11.69	11.37	12.72	10.69	11.42	12.09
9	ICSA	.0066	.0568	-.0245	.0080	-.0052	.0210
10	ICSAB	.0050	1.046	-.0243	.0128	-.0129	.0186
11	CCV	5.271	5.238	5.024	4.923	5.074	5.134
12	CCB	-.0037	.0107	.0081	.0046	.0303	.0067

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.114	5.149	.0473	5.057	5.126	9.978
2	ICB	-.0078	-.0000	-.0030	-.0000	.0108	-.0134
3	ICSA	-.0161	-.0024	-.0121	.0011	.0722	.0316
4	ICSAB	-.0149	-.0025	-.0181	.0011	.0892	.0285
5	S95T002952_L	-.1443	.0289	-.0839	-.0337	.6512	.0711
6	S95T002952_	-.0974	.0316	-.0280	-.0046	.0045	-.1968
7	S95T002952_D	-.0872	.0316	.0019	-.0000	.1158	-.1474
8	S95T002952_A	10.57	10.75	.0856	10.67	10.36	20.85
9	ICSA	-.0089	-.0025	-.0079	.0011	.0519	.0207
10	ICSAB	-.0144	-.0024	-.0165	.0009	.0569	.0330
11	CCV	5.086	5.123	.0439	5.031	5.056	9.913
12	CCB	-.0046	-.0000	-.0021	-.0004	-.0104	-.0053

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.150	.0096	5.192	5.097
2	ICB	-.0008	-.0003	-.0001	-.0006
3	ICSA	-.0019	.0110	.0041	-.0022
4	ICSAB	.4674	.0111	.9830	-.0010
5	S95T002952_L	-.0088	-.0000	-1.019	-.0397
6	S95T002952_	-.0032	-.0034	-.8747	.0118
7	S95T002952_D	.0001	-.0008	-.9293	.0001
8	S95T002952_A	10.93	.0213	10.21	10.73
9	ICSA	-.0004	.0113	.0044	-.0009
10	ICSAB	.4641	.0110	.9725	-.0011
11	CCV	5.124	.0094	5.167	5.074

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#	Sample Name	V	Y	Zn	Zr
12	CCB	-.0008	-.0001	.0011	.0002

HC-SD-WM-DP-160, REV. I

JK *11/10*

11-09-95

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LABCORE Data Entry Template for Worklist# 3739

Analyst: D Sato Instrument: ICP0X2 Book# 48B48C

144/95 50

Method: LA-505-151/161 Rev/Mod

144/95 50

Worklist Comment: ICP (direct)TX-224 and B-204

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	SAMPLE	S95T003708 0 D	@ICP-D01	LIQUID	95000189	TX-244 GRAB
		Analytes Requested: AL-D-01 , FE-D-01 , NA-D-01				
6	DUP	S95T003708 0 D	@ICP-D01	LIQUID		
7	SPK	S95T003708 0 D	@ICP-D01	LIQUID		
8	CCV		@ICP-QC	QC		
9	CCB		@ICP-QC	QC		
10	SAMPLE	S95T003709 0 D	@ICP-D01	LIQUID	95000189	TX-244 GRAB
		Analytes Requested: AL-D-01 , FE-D-01 , NA-D-01				
11	DUP	S95T003709 0 D	@ICP-D01	LIQUID		
12	SPK	S95T003709 0 D	@ICP-D01	LIQUID		
13	SAMPLE	S95T003770 0 D	@ICP-D01	LIQUID	95000161	B-204
		Analytes Requested: AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01				
14	DUP	S95T003770 0 D	@ICP-D01	LIQUID		

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 3739

S Type	Sample#	R A	Test	Matrix	Group#	Project
15 SPK	S95T003770	0 D	@ICP-D01	LIQUID		
16 ICSA			@ICP-QC	QC		
17 ICSAB			@ICP-QC	QC		
18 CCV			@ICP-QC	QC		
19 CCB			@ICP-QC	QC		

Final page for worklist # 3739

[Signature]
Analyst Signature

12-04-95
Date

[Signature]
Analyst Signature

12/4/95
Date

S95T003708-L, 1-10-2.8 mL, DF 505
S95T003708 1-10 101
S95T003708-D 1-10 101
S95T003708-Q 1-10 101 1 mL sample + 2 mL SST5 + 8 mL HNO₃
S95T003709-L, 1-10-2.8, DF 505
S95T003709 1-10 101
S95T003709-D 1-10 101
S95T003709-Q 1-10 101 1 mL sample + 2 mL SST5 + 8 mL HNO₃
S95T003770-L, 2-8 JF 5
S95T003770 direct 1
S95T003770-D direct 1
S95T003770-Q direct 1.25 8 mL sample + 2 mL SST5

Data Entry Comments:

Sample Name	File	Method	Date	Time	OpID	Type	Mode
1 IGV	951204A	ICP2	12/04/95	08:57	DKS	Q	CONC
2 ICB	951204A	ICP2	12/04/95	09:00	DKS	Q	CONC
3 ICSA	951204A	ICP2	12/04/95	09:03	DKS	Q	CONC
4 ICSAB	951204A	ICP2	12/04/95	09:06	DKS	Q	CONC
5 595T003708 L	951204A	ICP2	12/04/95	09:10	DKS	S	CONC
6 595T003708-	951204A	ICP2	12/04/95	09:13	DKS	S	CONC
7 595T003708 D	951204A	ICP2	12/04/95	09:17	DKS	S	CONC
8 595T003708-A	951204A	ICP2	12/04/95	09:20	DKS	S	CONC
9 595T003709	951204A	ICP2	12/04/95	09:32	DKS	Q	CONC
10 595T003709 L	951204A	ICP2	12/04/95	09:37	DKS	Q	CONC
11 595T003709-	951204A	ICP2	12/04/95	09:44	DKS	S	CONC
12 595T003709 D	951204A	ICP2	12/04/95	09:47	DKS	S	CONC
13 595T003709A	951204A	ICP2	12/04/95	09:51	DKS	S	CONC
14 595T003770 L	951204A	ICP2	12/04/95	09:55	DKS	S	CONC
15 595T003770-	951204A	ICP2	12/04/95	10:00	DKS	S	CONC
16 595T003770 D	951204A	ICP2	12/04/95	10:04	DKS	S	CONC
17 595T003770-A	951204A	ICP2	12/04/95	10:08	DKS	S	CONC
18 595T003770	951204A	ICP2	12/04/95	10:11	DKS	S	CONC
19 595T003770	951204A	ICP2	12/04/95	10:16	DKS	Q	CONC
20 595T003770	951204A	ICP2	12/04/95	10:18	DKS	Q	CONC
21 595T003770	951204A	ICP2	12/04/95	10:21	DKS	Q	CONC
22 595T003770	951204A	ICP2	12/04/95	10:24	DKS	Q	CONC

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12-04-95

71-244 595T003708

595T003709

B-204 595T003770

Worklist # 3739

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 857 TO 861.

Sample Name	Ag	Al	As	B	Ba	Be
ICV	5.087	4.859	5.283	4.992	4.995	5.196
ICB	.0012	.0021	-.0019	-.0004	.0002	-.0000
ICSA	-.0116	240.3	-.0135	-.0035	.0033	.0001
ICSBAR	.9589	238.5	.0090	-.0001	.4732	.4865
SP5T003708 L	.5731	3.728	-5.268	7.846	.0808	.0085
SP5T003708	.3997	2.369	-9.941	8.634	.0519	-.0105
SP5T003708 D	.3773	2.191	-9.973	9.053	.0591	-.0070
SP5T003708 A	81.28	98.57	96.81	109.9	96.71	102.8
ICV	4.955	4.983	5.146	4.998	4.961	5.140
ICB	.0017	.0064	-.0122	-.0012	.0002	-.0001
SP5T003709 L	.6238	3.076	-10.68	9.876	.0899	-.0268
SP5T003709	.4757	3.041	-9.693	8.893	.0621	-.0062
SP5T003709 D	.4469	2.905	-9.986	8.932	.0664	-.0091
SP5T003709 A	77.73	98.12	93.58	106.9	93.32	98.18
SP5T003770 L	.0109	.0346	.0158	1.293	.0007	-.0003
SP5T003770	.0006	.0539	-.0119	2.325	.0003	-.0002
SP5T003770 D	-.0009	.0577	-.0054	2.337	.0003	-.0002
SP5T003770 A	1.272	1.359	1.327	3.683	1.225	1.308
ICSA	-.0114	241.8	-.0879	-.0021	.0033	.0001
ICSBAR	.9248	241.3	-.1019	-.0011	.4609	.4729
ICV	4.927	4.923	5.071	4.954	4.924	5.101
ICB	-.0007	-.0016	-.0114	.0032	.0000	-.0001

Sample Name	Bi	Ca	Cd	Ce	Co	Cr
ICV	5.220	5.292	5.253	5.184	5.230	5.284
ICB	-.0191	.0015	.0006	.0061	.0028	-.0003
ICSA	-.0298	257.1	.0010	.0165	.0010	-.0061
ICSBAR	-.0248	255.7	.9789	.0193	.4828	.4850
SP5T003708 L	-2.663	4.346	-.0530	.2108	.3676	179.3
SP5T003708	.6514	1.937	-.0240	.0211	.4695	179.4
SP5T003708 D	1.685	-1.887	.0277	.1081	.4467	179.4
SP5T003708 A	103.3	105.5	106.3	102.8	105.2	284.4
ICV	4.986	5.009	5.032	5.111	5.053	5.081
ICB	.0079	.0007	-.0006	.0097	-.0017	-.0000
SP5T003709 L	-.1313	-4.225	-.2812	-.4846	.1436	170.4
SP5T003709	.9798	-1.256	-.0237	.8561	.3432	168.3
SP5T003709 D	1.526	-1.667	.0667	1.133	.3226	167.1
SP5T003709 A	97.97	96.53	98.21	98.26	98.00	266.8
SP5T003770 L	.0959	.1764	.0007	.0312	-.0044	.0016
SP5T003770	-.0089	.3423	.0002	.0060	-.0015	.0060
SP5T003770 D	-.0097	.3515	-.0002	.0027	-.0038	.0049
SP5T003770 A	1.320	1.714	1.310	1.297	1.304	1.323
ICSA	-.0053	242.9	.0007	.0156	-.0004	-.0057
ICSBAR	-.0039	241.8	.9309	.0091	.4618	.4621
ICV	4.953	5.013	4.995	5.083	5.020	5.067
ICB	-.0179	-.0025	-.0014	-.0046	-.0015	-.0008

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Sample Name	Cu	Eu	Fe	K	La	Li
ICV	5.059	.0093	5.222	5.021	5.076	4.836
ICB	.0002	.0017	.0014	.1075	.0015	.0019
ICSA	-.0089	-.0160	95.99	.2445	-.0028	.0039
ICSA	.4760	-.0124	96.20	.3805	-.0030	.9579
S25T003708 L	.2697	.9103	25.35	711.1	.1102	.7828
S25T003708-	.0872	.2251	21.55	677.0	.0512	.2800
S25T003708 D	.1480	.2260	21.84	678.1	.1305	.2991
S25T003708-A	99.50	.3360	125.0	767.3	100.2	95.07
CCV	5.124	.0104	5.076	5.031	5.034	5.068
CCB	-.0000	.0007	.0016	.0117	.0013	.0013
S25T003709 L	.1525	.4792	21.40	744.8	.4641	.7049
S25T003709-	.1871	.1136	20.84	690.0	.2762	.1988
S25T003709 D	.0735	.1533	20.71	664.4	.2998	.2967
S25T003709A	98.09	.3073	118.6	771.7	96.53	97.80
S25T003770 L	.0027	.0116	.0642	.2405	.0059	.0159
S25T003770-	.0014	.0037	.1104	.5213	.0018	.0090
S25T003770 D	.0005	.0035	.1083	.3380	.0010	.0092
S25T003770-A	1.305	.0064	1.418	1.805	1.267	1.263
ICSA	-.0097	.0173	92.51	.1586	-.0020	.0047
ICSA	.4716	.0216	93.14	-.0402	-.0035	.9779
CCV	5.075	.0107	5.037	4.941	5.010	5.020
CCB	-.0000	.0022	-.0001	.0020	-.0005	.0017

Sample Name	Mg	Mn	Mo	Na	Nd	Ni
ICV	4.929	5.092	5.213	4.896	5.111	5.221
ICB	.0101	.0007	.0003	.0102	.0009	-.0020
ICSA	241.0	-.0064	-.0116	192.8	.0104	-.0148
ICSA	236.7	.4572	-.0146	190.1	.0121	.9431
S25T003708 L	5.167	.3980	9.602	43430.	.8215	10.20
S25T003708-	1.222	.1578	10.60	41440.	-.0648	7.160
S25T003708 D	2.152	.1444	10.49	41190.	-.0208	8.363
S25T003708-A	97.07	99.72	117.9	41550.	100.3	112.3
CCV	4.963	4.941	5.057	5.031	5.220	5.040
CCB	-.0006	.0003	-.0008	.0000	-.0021	-.0044
S25T003709 L	2.226	.1976	9.992	45060.	-.1722	7.028
S25T003709-	1.158	.0942	9.831	43040.	.1516	7.983
S25T003709 D	.8991	.1222	9.887	42530.	-.1359	7.449
S25T003709A	95.81	93.14	110.8	42970.	99.97	104.7
S25T003770 L	.0467	.0154	-.0055	2.609	-.0009	.0063
S25T003770-	.0799	.0211	-.0012	4.660	-.0001	.0005
S25T003770 D	.0666	.0217	-.0018	4.752	-.0034	-.0035
S25T003770-A	1.363	1.262	1.321	5.908	1.310	1.311
ICSA	240.3	-.0069	-.0130	193.9	.0116	-.0161
ICSA	237.6	.4353	-.0121	193.4	.0121	.8815
CCV	4.866	4.891	5.024	4.982	5.199	5.024
CCB	.0077	.0008	.0028	.0075	.0007	-.0076

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Sample Name	P	Pb	S	Sb	Se	Si
ICV	5.321	5.320	5.059	4.907	5.035	5.149
ICB	.0109	-.0067	-.0005	.0116	.0238	.0217
ICSA	.0102	.0555	-.0291	.0183	.0134	.0302
ICSA5	.0186	1.067	-.0322	.0081	.0144	.0284
S25T003708 L	1677.	4.706	2780.	8.633	17.69	15.15
S25T003708-	1694.	-1.050	2805.	-.0849	3.515	9.772
S25T003708 D	1720.	-1.179	2811.	1.526	3.930	9.126
S25T003708-A	1793.	108.3	2879.	102.6	107.0	118.3
ICB	5.086	5.030	5.010	4.758	5.058	5.294
ICV	.0002	-.0056	-.0059	.0031	.0230	.0190
S25T003709 L	1567.	-3.545	2729.	1.047	12.64	17.48
S25T003709-	1581.	2.014	2714.	.6130	4.127	9.748
S25T003709 D	1561.	.7687	2692.	1.882	4.907	9.820
S25T003709A	1680.	98.77	2803.	95.82	107.0	119.8
S25T003770 L	.0304	-.0265	.2280	.0138	.2367	2.522
S25T003770-	-.0020	-.0073	.4738	.0128	.0561	4.370
S25T003770 D	-.0027	-.0142	.4697	.0046	.0659	4.395
S25T003770-A	1.362	1.320	1.813	1.253	1.324	6.240
ICSA	.0142	.0375	-.0331	.0219	.0159	.0505
ICSA5	.0260	.9850	-.0171	.0076	.0362	.0427
ICB	5.133	5.029	4.965	4.719	4.976	5.245
ICV	.0009	.0027	.0006	.0072	.0544	.0305
Sample Name	Sm	Sr	Th	Ti	Tl	U
ICV	4.909	4.954	.0618	4.935	5.125	9.567
ICB	.0157	.0005	-.0020	.0006	.0044	.0625
ICSA	.0007	-.0025	-.0069	.0017	.0326	.0722
ICSA5	-.0045	-.0024	-.0018	.0025	.0106	.0665
S25T003708 L	8.110	.2001	.3962	.4635	-6.209	486.6
S25T003708-	2.509	.1341	2.082	.1187	.7220	455.4
S25T003708 D	2.739	.1303	2.041	.1595	-.3236	454.0
S25T003708-A	97.72	97.35	3.902	100.3	101.5	641.9
ICB	5.074	4.964	.0461	4.887	4.947	10.14
ICV	.0079	.0003	.0051	.0008	-.0223	.0143
S25T003709 L	4.763	.2340	-.8732	.1317	-6.817	503.7
S25T003709-	1.645	.1290	1.590	.1130	.7306	475.9
S25T003709 D	2.344	.1294	1.745	.0590	-1.093	471.3
S25T003709A	97.93	94.99	1.575	96.14	96.45	669.6
S25T003770 L	.1320	.0023	-.0217	.0027	-.0508	.4663
S25T003770-	.0335	.0019	-.0023	.0009	.0086	.1505
S25T003770 D	.0317	.0019	-.0090	.0007	-.0033	.1392
S25T003770-A	1.288	1.248	.0016	1.257	1.268	2.657
ICSA	.0139	-.0024	-.0192	.0017	.0126	.2965
ICSA5	.0090	-.0022	-.0148	.0017	.0015	.3033
ICB	5.035	4.951	.0371	4.866	4.924	10.07
ICV	.0182	.0004	-.0097	.0007	-.0036	.0634

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Analysis Report Averages

Sample Name	V	Y	Zn	Zr
1 IGV	5.077	.0111	5.205	5.005
2 ICB	.0041	.0010	-.0001	.0023
3 IC5A	.0014	.0123	.0010	-.0006
4 IC5AB	.4741	.0123	.9898	-.0005
5 ST003708 L	1.684	.4664	1.831	2.384
6 ST003708	.8148	.2262	2.030	1.169
7 ST003708 D	.8175	.2506	1.800	1.229
8 ST003708 A	103.3	.4241	108.5	102.2
9 GT	5.005	.0111	5.037	4.957
10 SA	.0013	.0003	.0002	.0001
11 ST003709 L	1.031	.3403	1.530	1.848
12 ST003709	.5510	.1858	1.916	1.032
13 ST003709 D	.6338	.2115	1.976	1.130
14 ST003709 A	98.57	.3965	102.2	98.49
15 ST003770 L	.0282	.0076	.0334	.0225
16 ST003770	.0067	.0020	.0653	.0053
17 ST003770 D	.0063	.0019	.0717	.0053
18 ST003770 A	1.290	.0049	1.421	1.277
19 IC5A	.0027	.0128	.0028	.0024
20 IC5AB	.4637	.0124	.9548	.0020
21 ST-1	4.988	.0110	5.016	4.935
22 ST-1	.0042	.0010	.0000	.0050

JK L.A.

12-04-95

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LABCORE Data Entry Template for Worklist# 4391

Analyst: JK Sello Instrument: ICP01-2 Book# 498480

Method: LA-505-151/161 Rev/Mod B.C

Worklist Comment: ICP B-204 (ACID DIGEST)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICB JK 12-17-95		@ICP-QC	QC		
4	ICSA		@ICP-QC	QC		
5	ICSAB		@ICP-QC	QC		
6	PREPSTD TJ A		@ICP-A01	SOLID		
7	PREPBLKTJA		@ICP-A01	SOLID		
8	SAMPLE S95T003078 0 A		@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
9	DUP S95T003078 0 A		@ICP-A01	SOLID		
10	SPK-PREDIG S95T003078 0 A		@ICP-A01	SOLID		
11	CCV		@ICP-QC	QC		
12	CCB		@ICP-QC	QC		
13	SAMPLE S95T003079 0 A		@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 ,						

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 4391

S Type	Sample#	R	A	Test	Matrix	Group#	Project
				SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01			
14 DUP	S95T003079	0	A	@ICP-A01	SOLID		
15 SAMPLE	S95T003080	0	A	@ICP-A01	SOLID	95000158	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
16 DUP	S95T003080	0	A	@ICP-A01	SOLID		
17 SAMPLE	S95T003081	0	A	@ICP-A01	SOLID	95000158	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
18 DUP	S95T003081	0	A	@ICP-A01	SOLID		
19 CCV				@ICP-QC	QC		
20 CCB				@ICP-QC	QC		
21 SAMPLE	S95T003082	0	A	@ICP-A01	SOLID	95000158	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
22 DUP	S95T003082	0	A	@ICP-A01	SOLID		
23 SAMPLE	S95T003083	0	A	@ICP-A01	SOLID	95000158	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 ,						

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 4391

S Type	Sample#	R A	Test	Matrix	Group#	Project
			BE-A-01 ,	BI-A-01 ,	CA-A-01 ,	CD-A-01 ,
			CE-A-01 ,	CO-A-01 ,	CR-A-01 ,	CU-A-01 ,
			FE-A-01 ,	K-A-01 ,	LA-A-01 ,	LI-A-01 ,
			MG-A-01 ,	MN-A-01 ,	MO-A-01 ,	NA-A-01 ,
			ND-A-01 ,	NI-A-01 ,	P-A-01 ,	PB-A-01 ,
			S-A-01 ,	SB-A-01 ,	SE-A-01 ,	SI-A-01 ,
			SM-A-01 ,	SR-A-01 ,	TI-A-01 ,	TL-A-01 ,
			U-A-01 ,	V-A-01 ,	ZN-A-01 ,	ZR-A-01
24 DUP	S95T003083	0 A	@ICP-A01	SOLID		
25 ICSA			@ICP-QC	QC		
26 ICSAB			@ICP-QC	QC		
27 CCV			@ICP-QC	QC		
28 CCB			@ICP-QC	QC		

Final page for worklist # 4391

JK
Analyst Signature Date
 Prep H/TJL 2.5 x 1000 WHC 10 + L in 50 x 1
 Prep H/TJL direct
 S95T003078 L 2.8-2.8 DT 25 12-27-95
 S95T003078 direct 2.8 + 5 12-27-95
 S95T003078 D direct 2.8 + 5 12-27-95
 S95T003078 S direct 2.8 + 5 12-27-95
 S95T003079 L 2.8-2.8 DT 25 12-27-95
 S95T003079 direct 2.8 + 5 12-27-95
 S95T003079 D direct 2.8 + 5 12-27-95
 S95T003080 L 2.8-2.8 DT 25 12-27-95
 S95T003080 direct 2.8 + 5 12-27-95
 S95T003080 D direct 2.8 + 5 12-27-95
 S95T003081 L 2.8-2.8 DT 25 12-27-95
 S95T003081 direct 2.8 + 5 12-27-95
 S95T003081 D direct 2.8 + 5 12-27-95

Received by:
Sam M. Pang 1/5/95
Analyst Signature Date
 S95T003082 L 2.8-2.8 DT 25 12-27-95
 S95T003082 direct 2.8 + 5 12-27-95
 S95T003082 D direct 2.8 + 5 12-27-95
 S95T003083 L 2.8-2.8 DT 25 12-27-95
 S95T003083 direct 2.8 + 5 12-27-95
 S95T003083 D direct 2.8 + 5 12-27-95

Data Entry Comments:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	951227B	ICP2	12/27/95	10:01	DKS	Q	CONC
2	ICB	951227B	ICP2	12/27/95	10:05	DKS	Q	CONC
3	ICSA	951227B	ICP2	12/27/95	10:08	DKS	Q	CONC
4	ICSAB	951227B	ICP2	12/27/95	10:11	DKS	Q	CONC
5	PREPSTDTJA	951227B	ICP2	12/27/95	10:15	DKS	S	CONC
6	PREPBLKTJA	951227B	ICP2	12/27/95	10:19	DKS	S	CONC
7	S95T003078 L	951227B	ICP2	12/27/95	10:22	DKS	S	CONC
8	S95T003078	951227B	ICP2	12/27/95	10:25	DKS	S	CONC
9	S95T003078 L	951227B	ICP2	12/27/95	10:56	DKS	S	CONC
10	S95T003078	951227B	ICP2	12/27/95	10:59	DKS	S	CONC
11	S95T003078 D	951227B	ICP2	12/27/95	11:03	DKS	S	CONC
12	S95T003078 S	951227B	ICP2	12/27/95	11:07	DKS	S	CONC
13	CCV	951227B	ICP2	12/27/95	11:11	DKS	Q	CONC
14	CCB	951227B	ICP2	12/27/95	11:15	DKS	Q	CONC
15	S95T003079 L	951227B	ICP2	12/27/95	13:01	DKS	S	CONC
16	S95T003079	951227B	ICP2	12/27/95	13:05	DKS	S	CONC
17	S95T003079 D	951227B	ICP2	12/27/95	13:08	DKS	S	CONC
18	S95T003080 L	951227B	ICP2	12/27/95	13:19	DKS	S	CONC
19	S95T003080	951227B	ICP2	12/27/95	13:22	DKS	S	CONC
20	S95T003080 D	951227B	ICP2	12/27/95	13:25	DKS	S	CONC
21	S95T003081 L	951227B	ICP2	12/27/95	13:36	DKS	S	CONC
22	S95T003081	951227B	ICP2	12/27/95	13:39	DKS	S	CONC
23	S95T003081 D	951227B	ICP2	12/27/95	13:42	DKS	S	CONC
24	CCV 1	951227B	ICP2	12/27/95	13:49	DKS	Q	CONC
25	CCB 1	951227B	ICP2	12/27/95	13:53	DKS	Q	CONC
26	S95T003082 L	951227B	ICP2	12/27/95	13:57	DKS	S	CONC
27	S95T003082	951227B	ICP2	12/27/95	14:00	DKS	S	CONC
28	S95T003082 D	951227B	ICP2	12/27/95	14:03	DKS	S	CONC
29	S95T003083 L	951227B	ICP2	12/27/95	14:20	DKS	S	CONC
30	S95T003083	951227B	ICP2	12/27/95	14:23	DKS	S	CONC
31	S95T003083 D	951227B	ICP2	12/27/95	14:26	DKS	S	CONC
32	ICSA	951227B	ICP2	12/27/95	14:31	DKS	Q	CONC
33	ICSAB	951227B	ICP2	12/27/95	14:34	DKS	Q	CONC
34	CCV 2	951227B	ICP2	12/27/95	14:39	DKS	Q	CONC
35	CCB 2	951227B	ICP2	12/27/95	14:42	DKS	Q	CONC

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

SP
1/5/95

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.984	5.013	5.163	5.121	4.989	5.171
2	ICB	-.0013	-.0047	-.0030	.0032	-.0001	.0001
3	ICSA	-.0135	242.0	-.1336	-.0008	.0031	.0000
4	ICSAB	.9328	243.0	-.0949	-.0013	.4646	.4724
5	PREPSTDTJA	.8837	4.763	4.479	4.783	4.595	4.965
6	PREPBLKTJA	.0009	.0614	-.0038	.4734	.0002	.0001
7	S95T003078_L	.0137	.1747	-.0187	.3089	.0613	-.0006
8	S95T003078_	k.0085	k.1344	k.6999	k.2592	k.0550	k-.0002
9	S95T003078_L	.0170	.2647	-.0901	.2675	.0595	.0032
10	S95T003078_	.0108	.1776	-.0153	.2929	.0606	.0005
11	S95T003078_D	.0160	.1677	-.0234	.2397	.0488	.0003
12	S95T003078_S	.9755	5.107	4.881	5.424	4.663	5.014
13	CCV	4.966	4.976	5.112	5.091	4.918	5.139
14	CCB	.0001	.0033	-.0012	.0012	-.0001	.0001
15	S95T003079_L	.0084	.2750	-.3330	.4433	.0443	.0008
16	S95T003079_	.0052	.2000	-.0247	.3558	.0439	.0011
17	S95T003079_D	.0143	.2097	-.0507	.2991	.0491	.0005
18	S95T003080_L	.0001	.1612	-.0115	.4257	.0750	.0023
19	S95T003080_	.0206	.2702	.0179	.4313	.0742	.0005
20	S95T003080_D	.0160	.1865	-.0445	.2026	.0677	.0003
21	S95T003081_L	.0173	.2977	-.1822	.1668	.0647	.0023
22	S95T003081_	.0126	.1617	.0006	.1840	.0622	.0003
23	S95T003081_D	.0138	.2552	-.0409	1.173	.0603	-.0002
24	CCV_1	5.045	5.037	5.236	5.154	4.929	5.269
25	CCB_1	.0002	.0070	-.0149	-.0008	.0000	.0001
26	S95T003082_L	.0029	.1928	-.1842	.2755	.0759	.0031
27	S95T003082_	.0127	.1885	-.0469	.2852	.0769	.0001
28	S95T003082_D	.0149	.2345	.0173	.3179	.0876	.0005
29	S95T003083_L	.0145	.4624	-.0643	.4069	.1056	.0039
30	S95T003083_	.0121	.2503	-.0173	.4222	.1030	.0006
31	S95T003083_D	.0160	.1953	-.0119	.2377	.0760	-.0000
32	ICSA	-.0133	242.5	-.0896	-.0061	.0031	.0003
33	ICSAB	.9411	242.0	-.0616	-.0051	.4549	.4791
34	CCV_2	4.998	4.935	5.198	5.072	4.836	5.182
35	CCB_2	.0001	.0014	-.0068	.0000	.0001	.0002
#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.074	5.107	5.105	5.136	5.079	5.140
2	ICB	.0303	-.0042	.0002	-.0110	.0010	-.0010
3	ICSA	.0165	241.7	.0003	.0093	.0016	-.0070
4	ICSAB	.0123	246.4	.9366	.0121	.4630	.4639
5	PREPSTDTJA	4.343	4.674	4.402	4.732	4.524	4.566
6	PREPBLKTJA	.0321	.1675	.0003	.0019	.0010	.0003
7	S95T003078_L	271.8	1.084	.0058	.1625	.0371	23.47
8	S95T003078_	225.5	k.9036	k.0038	k.1404	k.0293	19.91
9	S95T003078_L	283.5	1.135	.0384	.0531	.0390	24.16
10	S95T003078_	269.4	1.137	.0037	.1635	.0361	23.21
11	S95T003078_D	214.8	.8610	.0043	.1524	.0343	19.31
12	S95T003078_S	241.2	5.949	4.823	5.041	4.926	24.92
13	CCV	5.023	5.168	5.065	5.079	5.058	5.119
14	CCB	.0511	-.0000	.0006	-.0016	-.0001	-.0014

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
15	S95T003079 L	221.6	.9757	.0109	.1937	.0045	17.76
16	S95T003079-	213.7	.9056	.0032	.1341	.0180	17.37
17	S95T003079 D	246.4	.9010	.0023	.1713	.0230	19.59
18	S95T003080-L	327.7	1.287	.0094	.2673	.0220	22.14
19	S95T003080-	314.9	1.243	.0063	.3288	.0224	21.49
20	S95T003080 D	266.3	1.010	.0081	.2433	.0296	20.77
21	S95T003081-L	262.2	1.047	.0325	.3466	-.0054	24.06
22	S95T003081-	245.4	.9420	.0068	.2747	.0256	22.70
23	S95T003081 D	249.5	.9539	.0048	.2910	.0191	22.68
24	CCV 1	5.129	5.270	5.205	5.146	5.172	5.237
25	CCB-1	.0233	.0007	.0006	-.0008	.0003	-.0003
26	S95T003082 L	289.4	1.052	.0110	.1919	.0549	23.13
27	S95T003082-	279.6	1.070	.0045	.2771	.0342	22.56
28	S95T003082 D	312.7	1.048	.0039	.3047	.0204	24.88
29	S95T003083-L	395.2	1.341	.0195	.5654	.0192	18.37
30	S95T003083-	376.3	1.214	.0039	.3318	.0263	17.56
31	S95T003083 D	262.0	.7609	.0004	.2437	.0176	15.93
32	ICSA	.0221	255.6	.0002	.0135	.0012	-.0059
33	ICSAB	.0295	255.9	.9611	.0124	.4751	.4744
34	CCV 2	5.097	5.345	5.184	5.048	5.155	5.215
35	CCB-2	.0129	.0009	-.0001	.0014	.0004	-.0008
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#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.117	.0090	5.128	4.836	5.056	5.021
2	ICB	-.0002	-.0005	-.0007	-.2194	-.0014	-.0009
3	ICSA	-.0069	.0174	91.16	-.1561	-.0038	.0020
4	ICSAB	.4734	.0122	92.09	.0746	-.0032	.9658
5	PREPSTD TJJA	4.549	.0055	4.672	4.424	4.710	4.676
6	PREPBLKTJA	.0013	-.0009	.0160	.0060	.0007	-.0009
7	S95T003078 L	.0301	.0287	25.89	33.08	57.80	.2301
8	S95T003078-	k.0267	k.0229	22.10	k28.75	51.90	.2112
9	S95T003078 L	.0168	.0211	26.72	30.09	59.20	.2253
10	S95T003078-	.0283	.0247	25.69	32.23	57.51	.2267
11	S95T003078 D	.0332	.0191	20.96	26.71	43.38	.1773
12	S95T003078-S	4.756	.0338	26.31	33.23	54.39	4.872
13	CCV	5.064	.0089	5.102	4.875	4.998	4.976
14	CCB	-.0002	.0006	-.0008	-.2184	-.0003	.0008
15	S95T003079 L	.0041	.0311	19.20	28.31	54.12	.3803
16	S95T003079-	.0092	.0214	18.80	28.51	53.54	.3755
17	S95T003079 D	.0227	.0253	20.96	33.42	55.09	.4181
18	S95T003080-L	.1024	.0420	25.23	26.00	76.99	.3634
19	S95T003080-	.1007	.0388	24.39	30.92	75.24	.3440
20	S95T003080 D	7.175	.0315	22.53	28.47	57.29	.2999
21	S95T003081-L	-.0075	.0491	21.61	31.22	64.84	.3343
22	S95T003081-	.0133	.0307	20.46	34.17	62.54	.3154
23	S95T003081 D	.0095	.0331	20.98	33.56	69.19	.3319
24	CCV 1	5.114	.0092	5.215	4.653	5.061	4.971
25	CCB-1	.0002	.0003	-.0010	.0885	-.0003	.0004
26	S95T003082 L	.0075	.0379	21.42	35.09	68.33	.2689
27	S95T003082-	.0124	.0335	20.89	34.04	67.16	.2505
28	S95T003082 D	.0193	.0335	23.41	38.10	74.59	.2757
29	S95T003083-L	.0183	.0453	28.04	38.96	90.37	.2277

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#	Sample Name	Cu	Eu	Fe	K	La	Li
30	S95T003083	.0205	.0409	26.75	35.60	87.78	.2209
31	S95T003083_D	.0284	.0310	20.89	29.88	52.57	.1502
32	ICSA	-.0063	-.0091	93.97	.0447	-.0032	.0037
33	ICSAB	.4662	-.0068	93.88	.1587	-.0038	.9347
34	CCV_2	5.004	.0104	5.162	4.745	4.970	4.798
35	CCB_2	-.0008	.0019	-.0001	-.0817	.0001	.0014

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.989	5.010	5.201	4.992	5.223	5.089
2	ICB	-.0059	.0000	.0003	-.0038	-.0043	.0046
3	ICSA	239.8	-.0077	-.0123	193.6	.0077	-.0056
4	ICSAB	241.0	.4392	-.0139	193.9	.0079	.8939
5	PREPSTD TJ A	4.427	4.427	4.604	5.189	4.725	4.509
6	PREPBLK TJ A	.0184	.0003	.0021	.5015	.0001	.0055
7	S95T003078_L	.1038	81.70	-.0240	146.7	.0047	2.722
8	S95T003078	k3.463	S629.1	k-.0143	k131.2	k.0165	k2.235
9	S95T003078_L	.0771	79.66	-.1161	150.9	-.0579	2.811
10	S95T003078	.0807	80.97	-.0303	146.6	.0071	2.685
11	S95T003078_D	.0857	64.84	-.0240	121.0	.0034	2.247
12	S95T003078_S	4.853	76.89	4.936	132.5	4.787	7.036
13	CCV	4.963	4.980	5.173	4.952	5.159	5.093
14	CCB	-.0021	.0003	.0030	.0059	-.0043	.0004
15	S95T003079_L	-.0150	72.71	-.1053	133.3	-.0455	1.325
16	S95T003079	.1184	74.24	-.0155	130.7	-.0258	1.387
17	S95T003079_D	.0515	81.99	-.0268	149.4	.0083	1.569
18	S95T003080_L	.0495	92.12	-.1264	141.0	-.0028	1.580
19	S95T003080	.1531	95.08	-.0296	137.8	.0258	1.707
20	S95T003080_D	.1497	83.34	-.0112	126.2	.0210	1.656
21	S95T003081_L	.0789	85.12	-.0733	155.3	-.1120	1.496
22	S95T003081	.0999	84.98	-.0261	151.3	.0143	1.300
23	S95T003081_D	.0561	89.13	-.0198	153.1	.0247	1.289
24	CCV_1	5.039	5.092	5.294	4.964	5.206	5.175
25	CCB_1	-.0018	.0002	-.0005	.0070	-.0016	.0020
26	S95T003082_L	.0759	86.56	-.0631	154.8	-.0280	1.510
27	S95T003082	.1094	89.56	-.0282	151.0	.0227	1.391
28	S95T003082_D	.0571	100.1	-.0359	167.3	.0089	1.504
29	S95T003083_L	.0078	109.4	-.1020	166.4	.0005	2.070
30	S95T003083	.1430	112.9	-.0304	161.4	.0264	1.857
31	S95T003083_D	.0712	82.25	-.0288	130.9	.0174	1.443
32	ICSA	242.7	-.0069	-.0150	189.0	.0073	-.0179
33	ICSAB	242.1	.4447	-.0149	189.1	.0063	.9220
34	CCV_2	4.969	4.988	5.250	4.833	5.081	5.166
35	CCB_2	-.0120	.0005	.0013	.0178	-.0048	.0054

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.135	5.090	5.084	4.886	5.057	5.108
2	ICB	-.0240	.0023	-.0028	-.0028	-.0006	.0057
3	ICSA	.0086	.0244	-.0253	.0052	-.0304	.0076
4	ICSAB	-.0162	1.006	-.0359	-.0029	-.0291	.0130
5	PREPSTD TJ A	4.464	4.304	4.377	4.154	4.522	10.92

#	Sample Name	P	Pb	S	Sb	Se	Si
6	PREPBLKTJA	-.0055	.0073	.0124	-.0019	.0118	.1470
7	S95T003078_L	11.15	-.0752	.4700	-.1725	.1289	3.371
8	S95T003078	k9.595	k-.0031	k-.7243	k-.1078	k-.3797	k2.784
9	S95T003078_L	10.82	-.0129	.5551	-.4215	.4167	2.953
10	S95T003078	11.07	-.0710	.5131	-.1493	.1517	3.150
11	S95T003078_D	8.956	-.0345	.3670	-.1238	.1554	2.195
12	S95T003078_S	14.60	4.862	5.301	4.487	5.012	11.62
13	CCV	5.221	5.084	5.086	4.845	5.061	5.053
14	CCB	-.0190	.0018	-.0042	-.0075	.0197	.0036
15	S95T003079_L	9.221	-.2661	.2322	-.3269	.4832	2.955
16	S95T003079	9.577	.2913	.3720	-.1503	.2245	3.153
17	S95T003079_D	10.97	-.0452	.3548	-.1686	.2405	3.178
18	S95T003080_L	13.61	-.1005	.0897	-.3724	.6309	3.843
19	S95T003080	13.62	.0611	.3183	-.1855	.2411	4.025
20	S95T003080_D	10.60	.0617	.2829	-.1546	.3253	2.532
21	S95T003081_L	11.47	.1135	.2274	-.1753	.9134	2.426
22	S95T003081	11.42	.1571	.2793	-.1725	.2156	2.610
23	S95T003081_D	12.09	.1009	.3039	-.1783	.2108	1.964
24	CCV_1	5.419	5.224	5.209	4.970	5.179	5.148
25	CCB_1	-.0222	-.0060	-.0099	-.0099	.0345	-.0006
26	S95T003082_L	11.76	.3500	.3166	-.4104	1.105	3.188
27	S95T003082	12.48	.2834	.3800	-.1906	.2439	3.367
28	S95T003082_D	13.59	.2500	.3802	-.2305	.2103	3.335
29	S95T003083_L	15.48	7.573	.1698	-.2440	.9899	2.992
30	S95T003083	14.88	7.085	.3839	-.2474	.2881	3.174
31	S95T003083_D	9.579	3.896	.2908	-.1785	.2926	2.747
32	ICSA	.0074	.0497	-.0488	.0020	.0407	.0126
33	ICSAB	.0010	1.037	-.0315	.0005	.0029	.0134
34	CCV_2	5.338	5.217	5.159	4.913	5.127	5.108
35	CCB_2	-.0198	-.0033	-.0072	-.0124	.0531	.0091

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.075	4.980	-.0382	5.000	4.980	10.10
2	ICB	-.0076	-.0000	-.0018	.0000	-.0003	-.0197
3	ICSA	-.0148	-.0027	-.0348	.0011	.0084	.1979
4	ICSAB	-.0103	-.0026	-.0336	.0011	.0028	.1883
5	PREPSTD TJJA	4.742	4.639	-.0463	4.526	4.386	9.457
6	PREPBLKTJA	-.0135	.0001	.0017	.0000	.0070	-.0444
7	S95T003078_L	-.0389	1.663	.0053	.0179	-.1949	-.0482
8	S95T003078	k-.0527	1.501	k-.0173	k.0182	k2.734	k.4150
9	S95T003078_L	-.1271	1.704	.0059	.0095	-.7034	-.3703
10	S95T003078	-.0803	1.661	.0011	.0217	-.2009	-.1291
11	S95T003078_D	-.0511	1.298	.0118	.0161	-.2121	-.0640
12	S95T003078_S	4.749	6.234	-.0257	4.777	4.598	9.534
13	CCV	5.031	4.944	-.0380	4.979	4.990	10.01
14	CCB	.0025	.0001	-.0045	-.0000	.0108	.0342
15	S95T003079_L	-.0715	1.410	-.0183	.0092	-.7135	.2024
16	S95T003079	-.0804	1.395	.0072	.0132	-.1742	-.1675
17	S95T003079_D	-.0539	1.682	.0150	.0142	-.1471	-.0971
18	S95T003080_L	-.0271	1.871	-.0328	.0327	.1434	.3109
19	S95T003080	-.0364	1.831	.0294	.0227	-.2641	.0273
20	S95T003080_D	-.0192	1.543	.0180	.0227	-.1446	.1382

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#	Sample Name	Sm	Sr	Th	Ti	Tl	U
21	S95T003081 L	.1146	1.191	.0085	.0046	-.4674	.6548
22	S95T003081-	-.0599	1.167	.0044	.0179	-.2032	-.0172
23	S95T003081_D	-.0495	1.255	.0108	.0170	-.2137	-.0459
24	CCV_1	5.104	4.999	-.0320	5.065	5.099	10.10
25	CCB-1	.0038	-.0007	-.0007	-.0002	-.0112	.0216
26	S95T003082 L	.0265	2.134	-.0995	.0231	-.0098	.3381
27	S95T003082-	-.0368	2.114	-.0008	.0189	-.2540	-.0310
28	S95T003082_D	-.0712	2.342	.0163	.0180	-.1974	-.1277
29	S95T003083-L	-.0892	2.605	.0476	.0237	-.6073	-.0563
30	S95T003083-	-.0830	2.539	-.0032	.0207	-.3304	-.0817
31	S95T003083_D	.0003	1.586	.0048	.0132	-.2326	.1898
32	ICSA	.0079	-.0026	-.0257	.0013	-.0067	.1376
33	ICSAB	.0011	-.0027	-.0277	.0010	-.0115	.1335
34	CCV_2	4.984	4.897	-.0294	4.989	5.035	9.878
35	CCB_2	.0169	-.0001	-.0061	-.0006	-.0059	.0725

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.082	.0098	5.100	5.087
2	ICB	-.0007	-.0003	.0005	.0002
3	ICSA	-.0029	.0111	.0043	.0000
4	ICSAB	.4597	.0114	.9640	-.0003
5	PREPSTD TJ A	4.508	.0060	4.239	4.588
6	PREPBLK TJ A	-.0011	-.0007	.0036	-.0001
7	S95T003078 L	.0273	-.0004	.0689	-.0015
8	S95T003078-	k.0155	k-.0006	k.0612	k.0000
9	S95T003078 L	.0116	-.0077	.0500	-.0012
10	S95T003078-	.0233	-.0019	.0900	-.0011
11	S95T003078_D	.0224	-.0008	.0792	-.0018
12	S95T003078-S	4.769	.0089	4.820	4.808
13	CCV	5.059	.0103	5.088	5.050
14	CCB	.0019	.0004	.0002	.0030
15	S95T003079 L	.0448	-.0001	.0961	.0203
16	S95T003079-	.0164	-.0023	.0574	-.0012
17	S95T003079_D	.0251	-.0011	.0955	-.0020
18	S95T003080-L	.0542	.0038	.0160	.0144
19	S95T003080-	.0337	.0008	.0623	.0084
20	S95T003080_D	.0346	.0023	.0464	.0093
21	S95T003081-L	.0767	.0095	.1143	.0573
22	S95T003081-	.0261	.0004	.1305	.0014
23	S95T003081_D	.0239	.0000	.1447	.0021
24	CCV_1	5.171	.0108	5.204	5.144
25	CCB-1	.0013	.0003	-.0007	.0022
26	S95T003082 L	.0570	.0077	.4964	.0460
27	S95T003082-	.0296	.0008	.4845	.0043
28	S95T003082_D	.0266	-.0007	.5197	-.0023
29	S95T003083-L	.0380	.0000	1.910	.0081
30	S95T003083-	.0268	-.0007	1.828	-.0012
31	S95T003083_D	.0365	.0038	1.292	.0142
32	ICSA	.0020	.0124	.0058	.0022
33	ICSAB	.4711	.0123	.9849	.0022
34	CCV_2	5.111	.0113	5.176	5.070
35	CCB_2	.0040	.0011	.0005	.0036

SP 1/5/95

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WHC-SD-WM-DP-160, REV. 1

Page: 1

LABCORE Data Entry Template for Worklist# 4394

Analyst: B. Goetze Instrument: ICP01 ⁰⁸⁻¹⁻¹²⁻⁹⁶ ICP02 Book# 4984FB

Method: LA-505-151/161 Rev/Mod 6-0
⁰⁶⁻¹⁻²²⁻⁹⁶

Worklist Comment: ICP B-204 (ACID DIGEST)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPSTD TJ A		@ICP-A01	SOLID		
6	PREPBLK TJ A		@ICP-A01	SOLID		
7	SAMPLE	S95T003293 0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					
8	DUP	S95T003293 0 A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003293 0 A	@ICP-A01	SOLID		
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S95T003294 0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 4394

S Type	Sample#	R A	Test	Matrix	Group#	Project
13 DUP	S95T003294	0 A	@ICP-A01	SOLID		
14 SAMPLE	S95T003295	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
15 DUP	S95T003295	0 A	@ICP-A01	SOLID		
16 CCV			@ICP-QC	QC		
17 CCB			@ICP-QC	QC		
18 SAMPLE	S95T003296	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
19 DUP	S95T003296	0 A	@ICP-A01	SOLID		
20 SAMPLE	S95T003297	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
21 DUP	S95T003297	0 A	@ICP-A01	SOLID		
22 SAMPLE	S95T003298	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 ,						

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 4394

S Type	Sample#	R A	Test	Matrix	Group#	Project
			MG-A-01 ,	MN-A-01 ,	MO-A-01 ,	NA-A-01 ,
			ND-A-01 ,	NI-A-01 ,	P-A-01 ,	PB-A-01 ,
			S-A-01 ,	SB-A-01 ,	SE-A-01 ,	SI-A-01 ,
			SM-A-01 ,	SR-A-01 ,	TI-A-01 ,	TL-A-01 ,
			U-A-01 ,	V-A-01 ,	ZN-A-01 ,	ZR-A-01
23 DUP	S95T003298	0 A	@ICP-A01	SOLID		
24 ICSA			@ICP-QC	QC		
25 ICSAB			@ICP-QC	QC		
26 CCV			@ICP-QC	QC		
27 CCB			@ICP-QC	QC		

Final page for worklist # 4394

[Signature] 1-27-96
Analyst Signature Date
 PHE/STD TTA 1
 PHE/BLK TTA 1
 S95T003293-L 5
 S95T003293 1
 S95T003293-D 1
 S95T003293-S 1
 S95T003294-L 5
 S95T003294 1
 S95T003294-D 2
 S95T003295-L 5
 S95T003295 1
 S95T003295-D 1
 S95T003296-L 10
 S95T003296 2
 S95T003296-D 2

Revised by:
[Signature] 1/24/96
Analyst Signature Date
 D.F.
 S95T003297-L 10
 S95T003297 2
 S95T003297-D 2
 S95T003298-L 10
 S95T003298 2
 S95T003298-D 2

Data Entry Comments:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960122B	ICP2	01/22/96	13:48	BJG	Q	CONC
2	ICB	960122B	ICP2	01/22/96	13:51	BJG	Q	CONC
3	ICSA	960122B	ICP2	01/22/96	13:53	BJG	Q	CONC
4	ICSAB	960122B	ICP2	01/22/96	13:56	BJG	Q	CONC
5	PREPSTDTJA	960122B	ICP2	01/22/96	13:59	BJG	S	CONC
6	PREPBLKTJA	960122B	ICP2	01/22/96	14:02	BJG	S	CONC
7	S95T003293_L	960122B	ICP2	01/22/96	14:06	BJG	S	CONC
8	S95T003293-	960122B	ICP2	01/22/96	14:09	BJG	S	CONC
9	S95T003293_D	960122B	ICP2	01/22/96	14:12	BJG	S	CONC
10	S95T003293-S	960122B	ICP2	01/22/96	14:16	BJG	S	CONC
11	CCV	960122B	ICP2	01/22/96	14:20	BJG	Q	CONC
12	CCB	960122B	ICP2	01/22/96	14:24	BJG	Q	CONC
13	S95T003294_L	960122B	ICP2	01/22/96	14:27	BJG	S	CONC
14	S95T003294-	960122B	ICP2	01/22/96	14:31	BJG	S	CONC
15	S95T003294_D	960122B	ICP2	01/22/96	14:40	BJG	S	CONC
16	S95T003295-L	960122B	ICP2	01/22/96	14:44	BJG	S	CONC
17	S95T003295-	960122B	ICP2	01/22/96	14:47	BJG	S	CONC
18	S95T003295_D	960122B	ICP2	01/22/96	14:52	BJG	S	CONC
19	CCV_1	960122B	ICP2	01/22/96	14:57	BJG	Q	CONC
20	CCB-1	960122B	ICP2	01/22/96	15:00	BJG	Q	CONC
21	S95T003296_L	960122B	ICP2	01/22/96	15:04	BJG	S	CONC
22	S95T003296-	960122B	ICP2	01/22/96	15:07	BJG	S	CONC
23	S95T003296_D	960122B	ICP2	01/22/96	15:10	BJG	S	CONC
24	S95T003297-L	960122B	ICP2	01/22/96	15:15	BJG	S	CONC
25	S95T003297-	960122B	ICP2	01/22/96	15:19	BJG	S	CONC
26	S95T003297_D	960122B	ICP2	01/22/96	15:22	BJG	S	CONC
27	S95T003298-L	960122B	ICP2	01/22/96	15:29	BJG	S	CONC
28	S95T003298-	960122B	ICP2	01/22/96	15:32	BJG	S	CONC
29	S95T003298_D	960122B	ICP2	01/22/96	15:38	BJG	S	CONC
30	ICSA	960122B	ICP2	01/22/96	15:48	BJG	Q	CONC
31	ICSAB	960122B	ICP2	01/22/96	15:52	BJG	Q	CONC
32	CCV_2	960122B	ICP2	01/22/96	15:55	BJG	Q	CONC
33	CCB_2	960122B	ICP2	01/22/96	16:00	BJG	Q	CONC

Blancher
1-22-96
ACID ~~ANALYSIS~~
B-204
S95T003293-98

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 874 TO 879.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.134	5.022	5.325	4.965	5.145	5.345
2	ICB	.0013	.0074	-.0032	-.0018	.0002	.0001
3	ICSA	-.0142	243.7	.0048	-.0089	.0033	.0004
4	ICSAB	.9660	241.6	-.0438	-.0033	.4884	.4861
5	PREPSTD TJ A	.9035	4.878	4.646	5.337	4.615	4.926
6	PREPBLK TJ A	-.0001	.0493	-.0202	.3031	.0001	.0002
7	S95T003293 L	.0073	.2408	-.0019	.6747	.1390	.0002
8	S95T003293	.0087	.2228	.0132	.6336	.1323	.0001
9	S95T003293 D	.0078	.1483	.0141	.2130	.1378	.0000
10	S95T003293 S	.9596	5.081	4.923	5.409	4.970	5.065
11	CCV	5.220	5.133	5.424	5.074	5.286	5.448
12	CCB	-.0004	.0062	-.0185	-.0054	.0000	.0001
13	S95T003294 L	.0108	.3547	-.0455	.1836	2.153	.0008
14	S95T003294	.0095	.2863	.0204	.1839	2.025	.0000
15	S95T003294 D	.0137	.2746	-.0024	.5540	1.057	.0001
16	S95T003295 L	.0980	.1565	-.0035	.1035	.0194	.0006
17	S95T003295	.0905	.1039	.0175	.1300	.0178	-.0000
18	S95T003295 D	.0192	.1774	.0109	.2968	.0189	-.0000
19	CCV 1	5.237	5.155	5.429	5.058	5.325	5.470
20	CCB 1	.0006	.0083	-.0029	.0000	.0002	.0002
21	S95T003296 L	.0115	.2979	-.0769	.3101	.0893	.0023
22	S95T003296	.0103	.2001	-.0016	.3648	.0848	.0002
23	S95T003296 D	.0066	.1928	-.0049	.3237	.0896	.0002
24	S95T003297 L	.0086	.2550	.0089	.3339	.0522	.0012
25	S95T003297	.0135	.2189	-.0042	.3562	.0509	.0004
26	S95T003297 D	.0089	.1679	.0029	.1539	.0418	.0002
27	S95T003298 L	-.0099	.2798	.0646	.2476	.0478	.0028
28	S95T003298	.0092	.2025	-.0118	.2925	.0463	.0002
29	S95T003298 D	.0083	.1563	.0192	.2099	.0441	-.0002
30	ICSA	-.0140	245.1	-.0435	-.0047	.0036	.0004
31	ICSAB	.9678	242.6	-.0312	-.0009	.4891	.4897
32	CCV 2	5.171	5.098	5.368	5.023	5.270	5.402
33	CCB 2	-.0004	.0092	-.0039	-.0063	.0001	.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.257	5.178	5.239	5.292	5.126	5.314
2	ICB	.0115	.0014	.0005	.0020	.0014	.0010
3	ICSA	-.0313	247.9	.0019	.0052	.0026	-.0039
4	ICSAB	-.0091	248.0	.9687	.0076	.4818	.4835
5	PREPSTD TJ A	4.515	4.858	4.470	4.748	4.553	4.600
6	PREPBLK TJ A	-.0093	.0690	.0011	-.0048	.0024	.0026
7	S95T003293 L	197.8	.6804	.0056	.1641	.0231	18.23
8	S95T003293	178.1	.6221	.0048	.2045	.0132	16.64
9	S95T003293 D	187.0	.5884	.0035	.1899	.0116	16.77
10	S95T003293 S	250.5	5.511	4.650	5.158	4.742	23.69
11	CCV	5.377	5.295	5.295	5.394	5.184	5.370
12	CCB	-.0045	-.0036	-.0008	-.0039	-.0025	.0005
13	S95T003294 L	251.1	.9647	.0100	.1606	.0244	22.78
14	S95T003294	227.2	.8735	.0031	.1476	.0154	20.65
15	S95T003294 D	293.2	1.166	.0054	.1880	.0245	26.53
16	S95T003295 L	260.7	.6143	.0003	.1527	.0107	21.32

Analysis Report

Averages

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page 3

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
17	S95T003295	231.4	.5554	.0058	.1582	.0138	19.21
18	S95T003295_D	224.8	.5848	.0038	.1724	.0139	18.27
19	CCV 1	5.347	5.316	5.311	5.418	5.212	5.401
20	CCB-1	.0434	-.0001	.0005	.0036	.0030	.0019
21	S95T003296_L	236.1	.7532	.0219	.3310	.0048	21.20
22	S95T003296-	220.5	.6846	.0051	.2418	.0136	19.95
23	S95T003296_D	185.9	.5470	.0030	.1981	.0098	16.84
24	S95T003297-L	303.7	.9179	.0179	.2223	.0125	24.63
25	S95T003297-	290.6	.8869	.0106	.2344	.0195	23.69
26	S95T003297_D	236.5	.7294	.0065	.1877	.0162	19.38
27	S95T003298-L	272.6	.8284	.0172	.1366	.0410	20.15
28	S95T003298-	259.6	.8100	.0041	.1334	.0127	19.20
29	S95T003298_D	253.0	.8241	.0072	.1422	.0120	18.42
30	ICSA	-.0083	250.1	.0025	.0140	.0020	-.0036
31	ICSAB	-.0130	248.6	.9635	.0103	.4766	.4808
32	CCV 2	5.280	5.259	5.238	5.389	5.131	5.332
33	CCB-2	-.0015	-.0011	.0001	.0012	.0001	.0000

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.034	-.0035	5.272	5.009	5.214	5.045
2	ICB	-.0005	.0009	-.0001	.2243	.0015	.0012
3	ICSA	-.0094	-.0932	96.52	.1418	-.0049	.0032
4	ICSAB	.4787	-.0938	95.81	.3375	-.0046	.9660
5	PREPSTDTJA	4.563	-.0052	4.739	4.351	4.712	4.662
6	PREPBLKTJA	.0010	-.0014	.0090	.2304	.0000	-.0010
7	S95T003293_L	.0039	.0162	13.92	31.11	48.15	.0879
8	S95T003293-	.0072	.0141	12.77	28.60	45.94	.0800
9	S95T003293_D	.0144	.0124	13.20	28.97	43.93	.0838
10	S95T003293-S	4.705	.0151	19.88	36.40	62.73	4.867
11	CCV	5.157	-.0042	5.354	5.076	5.293	5.201
12	CCB	-.0003	.0003	-.0001	.2658	-.0004	.0004
13	S95T003294_L	.0060	.0152	19.47	29.23	46.39	.1124
14	S95T003294-	.0072	.0127	17.73	25.77	43.41	.1070
15	S95T003294_D	.0113	.0161	20.41	33.41	53.70	.1342
16	S95T003295-L	.0042	.0164	16.82	30.07	56.39	.1246
17	S95T003295-	.0039	.0160	15.15	26.84	51.92	.1172
18	S95T003295_D	.0140	.0152	14.87	26.65	52.08	.1348
19	CCV 1	5.172	-.0046	5.386	4.893	5.333	5.218
20	CCB-1	.0002	.0007	.0001	.2896	.0004	.0013
21	S95T003296_L	.0121	.0214	18.71	33.94	60.66	.2069
22	S95T003296-	.0081	.0177	17.61	30.00	58.29	.1958
23	S95T003296_D	.0137	.0138	14.11	25.68	48.88	.1611
24	S95T003297-L	.0181	.0229	21.84	33.93	67.38	.1291
25	S95T003297-	.0191	.0213	21.08	32.73	66.68	.1208
26	S95T003297_D	.0222	.0176	17.22	26.74	55.34	.0979
27	S95T003298-L	.0126	.0147	21.14	35.70	58.95	.3115
28	S95T003298-	.0162	.0169	20.18	34.28	57.31	.3057
29	S95T003298_D	.0207	.0176	19.51	33.82	56.50	.2826
30	ICSA	-.0087	-.0959	96.98	.4533	-.0036	.0029
31	ICSAB	.4822	-.0947	96.03	.1278	-.0048	.9724
32	CCV 2	5.137	-.0044	5.310	4.980	5.306	5.193
33	CCB-2	-.0005	.0004	.0001	.3382	.0009	.0007

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.000	5.119	5.151	5.064	5.247	5.232
2	ICB	-.0010	.0004	-.0009	.0148	.0006	-.0102
3	ICSA	243.7	-.0065	-.0147	196.7	.0106	-.0167
4	ICSAB	242.3	.4551	-.0198	194.9	.0118	.9279
5	PREPSTDTJA	4.497	4.448	4.603	5.953	4.598	4.582
6	PREPBLKTJA	.0011	-.0002	-.0024	.3968	.0005	-.0089
7	S95T003293_L	.1211	65.46	-.0163	150.5	.0283	.7126
8	S95T003293-	.1585	71.20	-.0116	140.4	.0224	.6889
9	S95T003293_D	.1652	72.03	-.0133	141.1	.0218	.7041
10	S95T003293-S	4.828	98.81	4.770	161.0	4.761	5.524
11	CCV	5.098	5.266	5.220	5.175	5.347	5.293
12	CCB	-.0010	.0002	-.0032	.0047	-.0015	-.0127
13	S95T003294_L	6.186	65.99	-.0117	132.6	.0097	.8177
14	S95T003294-	5.712	71.31	-.0158	124.6	.0178	.7761
15	S95T003294_D	1.742	84.59	-.0232	158.4	.0311	.9892
16	S95T003295-L	.0399	74.95	-.0235	142.1	.0119	.7544
17	S95T003295-	.1524	81.89	-.0163	129.9	.0120	.7490
18	S95T003295_D	.1532	80.35	-.0127	129.0	.0106	.7321
19	CCV_1	5.132	5.255	5.253	5.175	5.383	5.332
20	CCB_1	.0032	.0004	-.0011	.0114	.0021	-.0041
21	S95T003296_L	.0870	74.66	-.0306	148.7	.0387	.9473
22	S95T003296-	.1038	77.35	-.0142	142.7	.0294	.9372
23	S95T003296_D	.1996	63.52	-.0145	120.9	.0160	.7445
24	S95T003297-L	.0380	81.99	-.0541	157.0	.0035	1.129
25	S95T003297-	.1439	87.98	-.0214	152.4	.0258	1.175
26	S95T003297_D	.0898	71.06	-.0221	124.5	.0224	.9524
27	S95T003298-L	-.0304	81.36	-.0126	163.7	-.0453	1.161
28	S95T003298-	.1039	86.25	-.0203	159.1	.0070	1.232
29	S95T003298_D	.1044	83.23	-.0195	157.9	.0067	1.166
30	ICSA	245.7	-.0068	-.0140	197.5	.0143	-.0220
31	ICSAB	243.8	.4493	-.0166	195.7	.0084	.9110
32	CCV_2	5.076	5.089	5.175	5.126	5.341	5.251
33	CCB_2	-.0040	-.0001	-.0020	.0068	-.0014	-.0055

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.312	5.279	4.887	4.843	5.101	4.883
2	ICB	-.0104	-.0068	-.0343	.0055	.0610	-.0245
3	ICSA	.0416	.0724	-.0645	-.0034	.0049	-.0225
4	ICSAB	.0288	1.063	-.0640	-.0064	-.0098	-.0229
5	PREPSTDTJA	4.698	4.384	4.361	4.243	4.539	11.83
6	PREPBLKTJA	.0022	-.0096	.0240	.0002	.0554	.0725
7	S95T003293_L	12.52	.0157	.2836	-.0716	.2664	3.919
8	S95T003293-	11.26	-.0541	.3131	-.0800	.0895	3.752
9	S95T003293_D	11.21	-.0810	.2905	-.0767	.1080	2.920
10	S95T003293-S	18.48	4.555	4.924	4.389	4.724	4.651
11	CCV	5.404	5.344	4.985	4.928	5.237	4.974
12	CCB	.0194	-.0188	-.0338	-.0032	.0443	-.0283
13	S95T003294_L	12.48	-.0640	.6630	-.1791	.3688	7.201
14	S95T003294-	11.59	-.1244	.6895	-.1206	.0960	6.923
15	S95T003294_D	14.58	-.1837	.7272	-.1523	.1850	6.529
16	S95T003295-L	12.63	-.1890	.2017	-.1397	.3887	1.927

Analysis Report

Averages

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#	Sample Name	P	Pb	S	Sb	Se	Si
17	S95T003295	11.59	-.0851	.2884	-.1049	.1027	1.900
18	S95T003295_D	11.27	-.0592	.3305	-.0993	.1072	3.901
19	CCV 1	5.443	5.335	5.014	4.919	5.219	4.991
20	CCB-1	-.0059	.0006	-.0324	.0078	.0626	-.0248
21	S95T003296_L	12.12	-.0881	.0984	-.0486	.7038	1.617
22	S95T003296-	11.24	-.0815	.2733	-.0949	.1556	1.769
23	S95T003296_D	9.676	.0241	.2582	-.0768	.1504	3.861
24	S95T003297-L	13.09	-.1677	.0526	-.1088	.6699	4.265
25	S95T003297-	12.58	-.1424	.3971	-.1298	.2097	4.413
26	S95T003297_D	10.53	.0077	.3167	-.1209	.1855	3.987
27	S95T003298-L	12.51	-.0605	.1075	-.0778	.5923	3.080
28	S95T003298-	11.92	-.0913	.2969	-.1187	.2198	3.242
29	S95T003298_D	12.18	-.0967	.3181	-.1051	.2062	3.571
30	ICSA	.0241	.0564	-.0538	.0029	.0087	-.0262
31	ICSAB	.0168	1.053	-.0632	-.0146	.0185	-.0237
32	CCV 2	5.376	5.275	4.927	4.872	5.194	4.917
33	CCB-2	.0131	-.0044	-.0357	.0055	.0594	-.0307

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.081	5.151	-.0068	4.950	5.097	9.671
2	ICB	.0155	-.0003	.0042	.0003	-.0013	.0555
3	ICSA	.0072	-.0019	-.0353	.0014	.0043	.4902
4	ICSAB	.0106	-.0020	-.0361	.0014	.0180	.4844
5	PREPSTDTJA	4.594	4.652	-.0054	4.505	4.381	8.975
6	PREPBLKTJA	-.0221	-.0003	.0116	.0003	-.0223	-.0841
7	S95T003293_L	-.0027	1.561	.0258	.0138	-.2964	.0954
8	S95T003293-	-.0354	1.487	.0167	.0153	-.1138	-.0106
9	S95T003293_D	-.0443	1.545	.0174	.0160	-.1318	-.0353
10	S95T003293-S	4.720	6.559	-.0013	4.684	4.410	9.353
11	CCV	5.189	5.241	.0003	5.029	5.219	9.870
12	CCB	.0067	-.0002	.0029	-.0002	-.0095	.0225
13	S95T003294_L	-.0156	1.754	.0362	.0213	-.1482	.0904
14	S95T003294-	-.0348	1.646	.0127	.0215	-.1483	.0257
15	S95T003294_D	-.0459	2.110	.0264	.0230	-.2238	.0135
16	S95T003295-L	-.0486	.5956	.0204	.0163	-.2770	-.0246
17	S95T003295-	-.0316	.5510	.0132	.0150	-.1399	.0213
18	S95T003295_D	-.0459	.5243	.0154	.0150	-.0968	-.0212
19	CCV 1	5.208	5.286	-.0070	5.061	5.110	9.933
20	CCB-1	.0141	-.0001	.0028	.0010	-.0283	.0565
21	S95T003296_L	-.0025	1.304	.0838	.0177	-.4139	.2924
22	S95T003296-	-.0470	1.266	.0170	.0160	-.2146	-.0012
23	S95T003296_D	-.0496	.9708	.0203	.0125	-.1118	-.0583
24	S95T003297-L	-.0178	1.484	.0685	.0177	-.0560	.1785
25	S95T003297-	-.0395	1.471	.0306	.0191	-.2426	.0460
26	S95T003297_D	-.0289	1.297	.0173	.0145	-.2081	.0214
27	S95T003298-L	-.0865	1.197	.0403	.0126	-.3584	-.0480
28	S95T003298-	-.0463	1.171	.0135	.0150	-.1819	-.0144
29	S95T003298_D	-.0299	1.169	.0132	.0135	-.1860	.0212
30	ICSA	.0047	-.0019	-.0304	.0009	.0357	.4552
31	ICSAB	.0078	-.0020	-.0417	.0011	.0003	.4734
32	CCV 2	5.188	5.242	.0075	5.020	5.156	9.848
33	CCB-2	.0088	-.0003	.0031	.0000	-.0195	.0313

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.072	.0068	5.004	4.976
2	ICB	.0035	.0008	.0001	.0007
3	ICSA	.0017	.0094	.0077	.0023
4	ICSAB	.4772	.0094	.9767	.0023
5	PREPSTDTJA	4.510	.0037	4.312	4.523
6	PREPBLKTJA	-.0022	-.0010	.0056	-.0040
7	S95T003293 L	.0363	.0015	.0700	.0026
8	S95T003293	.0280	.0002	.0626	-.0008
9	S95T003293 D	.0287	-.0005	.0509	-.0019
10	S95T003293 S	4.715	.0058	4.583	4.692
11	CCV	5.150	.0066	5.085	5.061
12	CCB	.0015	.0001	-.0003	.0008
13	S95T003294 L	.0368	.0011	.4974	.0016
14	S95T003294	.0248	.0001	.4444	-.0011
15	S95T003294 D	.0325	.0000	.3296	-.0008
16	S95T003295 L	.0229	.0000	.0506	.0013
17	S95T003295	.0211	.0004	.0383	-.0006
18	S95T003295 D	.0175	-.0003	.0574	-.0007
19	CCV 1	5.182	.0068	5.088	5.088
20	CCB 1	.0028	.0007	.0003	.0008
21	S95T003296 L	.0401	.0030	.0789	.0032
22	S95T003296	.0218	-.0001	.0702	.0000
23	S95T003296 D	.0169	-.0006	.0522	-.0014
24	S95T003297 L	.0391	.0031	.1013	.0044
25	S95T003297	.0297	.0005	.1026	-.0012
26	S95T003297 D	.0242	.0006	.0696	.0000
27	S95T003298 L	.0318	-.0008	.1347	.0034
28	S95T003298	.0239	.0000	.1245	-.0005
29	S95T003298 D	.0256	.0003	.0991	.0003
30	ICSA	.0017	.0092	.0079	-.0006
31	ICSAB	.4761	.0092	.9808	.0024
32	CCV 2	5.113	.0062	5.015	5.032
33	CCB 2	.0019	.0003	-.0005	.0008

SP 1/23/96

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HC-SD-WM-DP-160, REV. 1

Page: 1

LABCORE Data Entry Template for Worklist# 4396

Analyst: B. GELCKE Instrument: ICP01 ⁸⁶⁻¹⁻²²⁻⁷⁶ ICP02 Book# 49848B

Method: LA-505-⁸⁶⁻¹⁻²²⁻⁷⁶151/161 Rev/Mod B-0

Worklist Comment: ICP B-204 (ACID DIGEST)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPSTDJJA		@ICP-A01	SOLID		
6	PREPBLKTJA		@ICP-A01	SOLID		
7	SAMPLE	S95T003287 0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					
8	DUP	S95T003287 0 A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003287 0 A	@ICP-A01	SOLID		
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S95T003288 0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

880

LABCORE Data Entry Template for Worklist# 4396

S Type	Sample#	R A	Test	Matrix	Group#	Project
13 DUP	S95T003288	0 A	@ICP-A01	SOLID		
14 SAMPLE	S95T003289	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
15 DUP	S95T003289	0 A	@ICP-A01	SOLID		
16 SAMPLE	S95T003290	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
17 DUP	S95T003290	0 A	@ICP-A01	SOLID		
18 CCV			@ICP-QC	QC		
19 CCB			@ICP-QC	QC		
20 SAMPLE	S95T003291	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
21 DUP	S95T003291	0 A	@ICP-A01	SOLID		
22 SAMPLE	S95T003292	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 ,						

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 4396

S Type	Sample#	R A	Test	Matrix	Group#	Project
			MG-A-01 ,	MN-A-01 ,	MO-A-01 ,	NA-A-01 ,
			ND-A-01 ,	NI-A-01 ,	P-A-01 ,	PB-A-01 ,
			S-A-01 ,	SB-A-01 ,	SE-A-01 ,	SI-A-01 ,
			SM-A-01 ,	SR-A-01 ,	TI-A-01 ,	TL-A-01 ,
			U-A-01 ,	V-A-01 ,	ZN-A-01 ,	ZR-A-01
23 DUP	S95T003292	0 A	@ICP-A01	SOLID		
24 ICSA			@ICP-QC	QC		
25 ICSAB			@ICP-QC	QC		
26 CCV			@ICP-QC	QC		
27 CCB			@ICP-QC	QC		

Final page for worklist # 4396

[Signature] 1-22-96
Analyst Signature Date

PREP STD TA D.F.
1
PREP BLK TA 1
S95T00 3287-L 10
S95T00 3287 2
S95T00 3287-D 2
S95T00 3287-S 2
S95T00 3288-L 5
S95T00 3288 1
S95T00 3288-D 1
S95T00 3289-L 5
S95T00 3289 1
S95T00 3289-D 1
S95T00 3290-L 5
S95T00 3290 1
S95T00 3290-D 1

Reminded by:
[Signature] 1/23/96
Analyst Signature Date

D.F.
10
2
2
S95T00 3291-L
S95T00 3291
S95T00 3291-D
S95T00 3292-L 5
S95T00 3292 1
S95T00 3292-D 1

Data Entry Comments:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960122D	ICP2	01/22/96	18:29	BJG	Q	CONC
2	ICB	960122D	ICP2	01/22/96	18:32	BJG	Q	CONC
3	ICSA	960122D	ICP2	01/22/96	18:35	BJG	Q	CONC
4	ICSAB	960122D	ICP2	01/22/96	18:38	BJG	Q	CONC
5	PREPSTDTJA	960122D	ICP2	01/22/96	18:41	BJG	S	CONC
6	PREPBLKTJA	960122D	ICP2	01/22/96	18:44	BJG	S	CONC
7	S95T003287 L	960122D	ICP2	01/22/96	18:48	BJG	S	CONC
8	S95T003287 L	960122D	ICP2	01/22/96	19:00	BJG	S	CONC
9	S95T003287 L	960122D	ICP2	01/22/96	19:03	BJG	S	CONC
10	S95T003287 D	960122D	ICP2	01/22/96	19:06	BJG	S	CONC
11	S95T003287 S	960122D	ICP2	01/22/96	19:09	BJG	S	CONC
12	CCV	960122D	ICP2	01/22/96	19:13	BJG	Q	CONC
13	CCB	960122D	ICP2	01/22/96	19:17	BJG	Q	CONC
14	S95T003288 L	960122D	ICP2	01/22/96	19:21	BJG	S	CONC
15	S95T003288 L	960122D	ICP2	01/22/96	19:24	BJG	S	CONC
16	S95T003288 D	960122D	ICP2	01/22/96	19:27	BJG	S	CONC
17	S95T003289 L	960122D	ICP2	01/22/96	19:32	BJG	S	CONC
18	S95T003289 L	960122D	ICP2	01/22/96	19:35	BJG	S	CONC
19	S95T003289 D	960122D	ICP2	01/22/96	19:38	BJG	S	CONC
20	S95T003290 L	960122D	ICP2	01/22/96	19:42	BJG	S	CONC
21	S95T003290 L	960122D	ICP2	01/22/96	19:45	BJG	S	CONC
22	S95T003290 D	960122D	ICP2	01/22/96	19:48	BJG	S	CONC
23	CCV 1	960122D	ICP2	01/22/96	19:56	BJG	Q	CONC
24	CCB 1	960122D	ICP2	01/22/96	19:59	BJG	Q	CONC
25	S95T003291 L	960122D	ICP2	01/22/96	20:02	BJG	S	CONC
26	S95T003291 L	960122D	ICP2	01/22/96	20:05	BJG	S	CONC
27	S95T003291 D	960122D	ICP2	01/22/96	20:08	BJG	S	CONC
28	S95T003292 L	960122D	ICP2	01/22/96	20:12	BJG	S	CONC
29	S95T003292 L	960122D	ICP2	01/22/96	20:15	BJG	S	CONC
30	S95T003292 D	960122D	ICP2	01/22/96	20:18	BJG	S	CONC
31	ICSA	960122D	ICP2	01/22/96	20:23	BJG	Q	CONC
32	ICSAB	960122D	ICP2	01/22/96	20:27	BJG	Q	CONC
33	CCV 2	960122D	ICP2	01/22/96	20:30	BJG	Q	CONC
34	CCB 2	960122D	ICP2	01/22/96	20:33	BJG	Q	CONC

Signature
1-22-96
B-204
Acid Digest
S95T003287-92

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 883 TO 888.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.001	4.922	5.191	4.910	5.006	5.171
2	ICB	.0011	.0070	.0048	.0050	.0001	.0001
3	ICSA	-.0129	236.5	-.0357	.0018	.0034	.0001
4	ICSAB	.9421	235.1	-.0074	.0046	.4735	.4682
5	PREPSTD TJ A	.8253	4.302	4.324	4.336	4.341	5.064
6	PREPBLKTJA	-.0011	.0397	-.0011	.2826	.0008	-.0000
7	S95T003287 L	.0086	.2867	-.0176	.2656	.0671	-.0006
8	S95T003287 L	.0158	.2886	-.0981	.2723	.0674	-.0000
9	S95T003287 L	.0103	.2742	-.0185	.2305	.0643	-.0003
10	S95T003287 D	.0066	.1587	.0090	.1556	.0557	-.0002
11	S95T003287 S	.9844	5.104	4.930	5.460	4.843	5.063
12	CCV	5.058	4.976	5.235	4.951	5.055	5.208
13	CCB	-.0007	-.0056	-.0111	.0045	.0000	.0000
14	S95T003288 L	.0014	.1302	-.0201	.1063	.1017	-.0004
15	S95T003288 L	.0080	.1391	.0046	.1091	.0973	-.0001
16	S95T003288 D	.0071	.1780	.0010	.2699	.1103	-.0002
17	S95T003289 L	.0065	.1999	-.0604	.3970	.2037	-.0004
18	S95T003289 L	.0083	.1876	.0063	.3519	.1885	-.0002
19	S95T003289 D	.0073	.1424	.0162	.2143	.1825	-.0002
20	S95T003290 L	.0037	.1575	-.0567	.2401	.3871	.0000
21	S95T003290 L	.0076	.1582	-.0037	.2323	.3658	-.0002
22	S95T003290 D	.0080	.2207	.0130	.5300	.3766	-.0002
23	CCV 1	5.043	4.931	5.194	4.889	4.983	5.175
24	CCB 1	.0009	.0033	.0025	.0059	.0001	.0000
25	S95T003291 L	-.0070	.1291	-.0786	.3042	.2601	-.0008
26	S95T003291 L	.0081	.1643	-.0119	.2877	.2528	.0000
27	S95T003291 D	.0058	.1556	-.0081	.2791	.2000	-.0001
28	S95T003292 L	.0100	.1210	.0242	.1583	.2083	-.0004
29	S95T003292 L	.0079	.0990	-.0009	.1217	.1894	-.0001
30	S95T003292 D	.0086	.1514	.0180	.2974	.2235	-.0001
31	ICSA	-.0141	240.4	-.0536	.0048	.0033	.0002
32	ICSAB	.9570	238.0	.0033	.0047	.4796	.4748
33	CCV 2	4.997	4.893	5.154	4.875	4.959	5.141
34	CCB 2	-.0004	-.0014	-.0034	.0068	.0001	.0000
#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.097	5.058	5.052	5.158	4.968	5.108
2	ICB	-.0106	.0006	.0011	.0012	.0028	.0010
3	ICSA	-.0539	244.0	.0025	.0163	.0015	-.0042
4	ICSAB	-.0470	242.9	.9344	.0241	.4639	.4677
5	PREPSTD TJ A	4.194	4.218	4.147	4.490	4.267	4.286
6	PREPBLKTJA	-.0145	.0201	-.0000	-.0037	.0007	.0024
7	S95T003287 L	303.9	1.771	.0036	.2721	.0215	14.82
8	S95T003287 L	303.9	1.793	-.0139	.3791	-.0057	14.70
9	S95T003287 L	287.7	1.673	.0026	.2681	.0142	13.99
10	S95T003287 D	236.9	1.109	.0044	.2001	.0076	11.36
11	S95T003287 S	282.4	6.171	4.807	5.263	4.905	18.33
12	CCV	5.084	5.168	5.094	5.202	5.021	5.170
13	CCB	-.0232	-.0055	-.0003	-.0134	.0002	-.0002
14	S95T003288 L	236.4	.6094	-.0011	.1027	.0157	12.12
15	S95T003288 L	212.3	.5667	.0025	.1396	.0105	11.12

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
16	S95T003288 D	230.9	.5829	.0027	.1457	.0127	12.02
17	S95T003289-L	207.2	.9074	-.0025	.2150	.0171	14.44
18	S95T003289-	184.0	.7761	.0029	.1906	.0123	12.94
19	S95T003289 D	178.2	.9309	.0042	.1773	.0112	12.45
20	S95T003290-L	218.8	.6693	.0045	.2127	.0028	15.15
21	S95T003290-	197.3	.5971	.0057	.1900	.0117	13.71
22	S95T003290_D	202.4	.6606	.0070	.1996	.0134	14.26
23	CCV 1	5.096	5.156	5.080	5.133	5.015	5.156
24	CCB-1	-.0511	.0006	.0002	.0012	-.0005	.0011
25	S95T003291 L	292.3	.5481	-.0096	.0638	-.0096	19.86
26	S95T003291-	276.3	.5691	.0017	.1819	.0153	18.92
27	S95T003291 D	218.5	.4520	.0031	.1606	.0135	15.15
28	S95T003292-L	210.7	.5795	.0070	.2464	.0079	19.84
29	S95T003292-	185.7	.4839	.0038	.1976	.0145	17.62
30	S95T003292_D	218.6	.5513	.0036	.2261	.0153	19.88
31	ICSA	-.0467	247.0	.0025	.0141	.0022	-.0050
32	ICSAB	-.0458	248.6	.9509	.0241	.4755	.4765
33	CCV 2	5.049	5.126	5.018	5.113	4.949	5.101
34	CCB-2	-.0410	-.0021	.0006	-.0051	-.0008	.0008

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.002	-.0045	5.078	5.010	5.065	5.063
2	ICB	.0007	.0000	.0009	.0716	.0006	.0003
3	ICSA	-.0083	-.0923	93.11	.3632	-.0037	.0030
4	ICSAB	.4716	-.0897	92.25	.3214	-.0036	.9534
5	PREPSTDTJA	4.359	-.0062	4.395	4.514	4.433	4.468
6	PREPBLKTJA	.0102	-.0021	.0188	-.0229	-.0008	-.0021
7	S95T003287 L	.0203	.0198	17.50	33.44	57.57	.1723
8	S95T003287-L	.0239	.0191	17.30	33.66	56.69	.1689
9	S95T003287-	.0194	.0173	16.49	31.99	55.26	.1655
10	S95T003287 D	.0164	.0137	13.74	25.37	45.93	.1365
11	S95T003287-S	4.828	.0140	20.74	34.66	58.70	4.948
12	CCV	5.035	-.0042	5.134	5.039	5.094	5.104
13	CCB	.0002	-.0001	-.0003	-.0921	-.0017	-.0004
14	S95T003288 L	.0236	.0071	13.29	26.63	32.92	.5158
15	S95T003288-	.0188	.0088	12.21	25.53	31.19	.4871
16	S95T003288 D	.0110	.0106	13.23	28.03	33.78	.5267
17	S95T003289-L	.0134	.0175	13.37	28.81	52.68	.2883
18	S95T003289-	.0134	.0154	12.01	25.83	48.90	.2716
19	S95T003289 D	.0196	.0151	11.58	24.94	47.46	.2641
20	S95T003290-L	.0167	.0161	15.47	29.19	47.29	.4983
21	S95T003290-	.0178	.0138	14.06	27.05	44.53	.4732
22	S95T003290_D	.0099	.0142	14.50	29.55	45.76	.5215
23	CCV 1	4.983	-.0036	5.115	5.118	5.035	5.023
24	CCB-1	.0005	-.0001	.0010	-.0678	.0005	-.0003
25	S95T003291 L	.0203	.0081	18.24	32.62	46.18	.2185
26	S95T003291-	.0194	.0131	17.40	33.45	44.81	.2234
27	S95T003291 D	.0073	.0091	13.76	26.75	35.01	.1770
28	S95T003292-L	.0142	.0124	13.88	25.41	45.61	.0721
29	S95T003292-	.0110	.0120	12.38	23.12	41.84	.0664
30	S95T003292_D	.0089	.0154	14.53	26.31	47.97	.0828
31	ICSA	-.0089	-.0939	94.20	.0625	-.0047	.0026

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#	Sample Name	Cu	Eu	Fe	K	La	Li
32	ICSAB	.4775	-.0956	93.72	.1981	-.0030	.9612
33	CCV_2	4.965	-.0037	5.055	5.258	5.011	5.043
34	CCB_2	.0002	-.0001	-.0008	-.0052	-.0005	.0000

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.894	4.971	4.980	5.020	5.112	5.047
2	ICB	.0020	-.0000	.0016	.0017	.0022	.0001
3	ICSA	236.5	-.0063	-.0104	193.2	.0121	-.0227
4	ICSAB	235.8	.4405	-.0121	192.4	.0134	.9002
5	PREPSTD TJ A	4.127	4.155	4.323	4.555	4.348	4.221
6	PREPBLKTJA	.0044	-.0003	-.0031	.3245	-.0004	-.0012
7	S95T003287 L	.4449	80.32	-.0278	158.3	.0455	.9799
8	S95T003287 L	.4077	78.00	-.0323	156.9	.0349	1.069
9	S95T003287 L	.4721	82.35	-.0198	152.6	.0437	.9735
10	S95T003287 D	.2064	67.13	-.0123	121.1	.0320	.7798
11	S95T003287 S	4.976	85.69	4.892	146.2	4.824	5.781
12	CCV	4.956	5.059	5.030	5.058	5.155	5.086
13	CCB	-.0051	-.0000	-.0011	-.0013	.0010	.0006
14	S95T003288 L	.0777	58.21	-.0243	132.2	.0356	.7157
15	S95T003288 L	.1563	62.15	-.0090	122.7	.0246	.6638
16	S95T003288 D	.1621	69.31	-.0140	133.5	.0249	.7112
17	S95T003289 L	.0659	60.41	-.0250	136.0	.0213	.6998
18	S95T003289 L	.1206	62.68	-.0119	125.6	.0247	.6373
19	S95T003289 D	.1271	60.58	-.0124	119.5	.0250	.6184
20	S95T003290 L	.1515	62.84	-.0241	138.9	.0208	.8477
21	S95T003290 L	.1922	66.63	-.0147	129.6	.0266	.7576
22	S95T003290 D	.1784	69.56	-.0127	140.7	.0299	.7923
23	CCV 1	4.938	5.006	5.026	4.988	5.089	5.082
24	CCB 1	-.0026	-.0001	-.0007	-.0004	.0000	-.0022
25	S95T003291 L	.0248	70.89	-.0627	163.7	.0019	.8895
26	S95T003291 L	.1201	74.15	-.0151	157.8	.0355	.8999
27	S95T003291 D	.0915	57.36	-.0169	128.3	.0231	.7149
28	S95T003292 L	.0449	61.52	-.0243	119.5	.0312	.8171
29	S95T003292 L	.1246	63.47	-.0117	108.7	.0273	.7248
30	S95T003292 D	.1483	77.20	-.0126	123.5	.0292	.8557
31	ICSA	240.9	-.0064	-.0126	195.2	.0094	-.0282
32	ICSAB	238.7	.4507	-.0126	193.7	.0148	.8993
33	CCV 2	4.893	4.928	4.967	4.987	5.061	5.002
34	CCB_2	-.0052	-.0001	.0000	-.0017	.0001	-.0044

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.046	5.074	4.864	4.706	4.995	4.867
2	ICB	.0232	-.0056	-.0030	-.0023	.0259	.0097
3	ICSA	.0193	.0677	-.0242	.0040	-.0285	.0172
4	ICSAB	.0215	1.032	-.0390	-.0045	-.0526	.0178
5	PREPSTD TJ A	4.348	4.100	4.175	3.978	4.286	5.331
6	PREPBLKTJA	.0397	-.0094	.0408	-.0118	.0063	.0782
7	S95T003287 L	14.18	-.1733	.6975	-.2016	.1173	7.310
8	S95T003287 L	14.25	-.1586	.6978	-.1873	.0558	7.204
9	S95T003287 L	13.61	-.1604	.6372	-.1826	.0794	6.952

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#	Sample Name	P	Pb	S	Sb	Se	Si
10	S95T003287 D	11.15	-.1629	.6003	-.1290	.1013	4.089
11	S95T003287-S	17.85	4.670	5.313	4.443	4.869	5.330
12	CCV	5.060	5.142	4.881	4.749	5.009	4.922
13	CCB	.0029	-.0088	-.0043	-.0088	.0114	.0054
14	S95T003288 L	12.10	-.1535	.5209	-.1856	.0865	2.771
15	S95T003288-	10.77	-.0964	.4820	-.1074	.0739	2.657
16	S95T003288 D	11.67	-.1188	.4933	-.1316	.0750	2.506
17	S95T003289-L	12.54	-.1283	.5546	-.1496	.1094	4.461
18	S95T003289-	11.39	-.1104	.4375	-.0919	.0495	3.977
19	S95T003289 D	10.77	-.1072	.4678	-.0907	.0587	4.072
20	S95T003290-L	13.01	-.2302	.5506	-.1790	.1032	4.094
21	S95T003290-	11.83	-.1194	.5081	-.1058	.0508	3.824
22	S95T003290 D	12.04	-.0765	.4413	-.0983	.0631	5.010
23	CCV 1	5.041	5.148	4.865	4.747	4.978	4.908
24	CCB-1	.0141	-.0155	.0057	-.0097	.0008	.0080
25	S95T003291 L	14.30	-.3193	.3256	-.3701	.1655	3.468
26	S95T003291-	13.37	-.1973	.4447	-.1645	.0923	3.333
27	S95T003291 D	10.84	-.1771	.4018	-.1513	.0757	3.596
28	S95T003292-L	12.24	-.1479	.3448	-.1553	.1800	2.230
29	S95T003292-	10.92	-.1096	.3293	-.0867	.0557	2.223
30	S95T003292 D	12.51	-.1281	.3502	-.1098	.0450	4.920
31	ICSA	.0491	.0403	-.0248	-.0182	-.0294	.0259
32	ICSAB	.0420	1.060	-.0222	.0049	-.0327	.0232
33	CCV 2	5.004	5.083	4.838	4.676	4.927	4.865
34	CCB-2	.0308	-.0028	.0056	-.0003	-.0065	.0064

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.937	4.972	-.0034	4.809	4.846	9.448
2	ICB	.0004	.0000	.0038	.0005	.0121	-.0002
3	ICSA	.0054	-.0016	-.0329	.0011	.0431	.4719
4	ICSAB	.0075	-.0028	-.0275	.0019	.0582	.4641
5	PREPSTDTJA	4.310	4.348	-.0013	4.260	4.083	8.450
6	PREPBLKTJA	-.0326	.0000	.0054	.0000	.0045	-.1220
7	S95T003287 L	-.0283	3.676	.0044	.0162	-.2921	.0335
8	S95T003287-L	-.0547	3.634	.0617	.0127	-.0792	-.1874
9	S95T003287-	-.0560	3.539	.0109	.0159	-.1510	-.0668
10	S95T003287 D	-.0536	2.929	.0060	.0119	-.1542	-.0806
11	S95T003287-S	4.722	8.187	.0004	4.770	4.488	9.376
12	CCV	4.976	5.015	-.0031	4.870	4.973	9.529
13	CCB	-.0056	.0000	-.0028	-.0000	-.0104	-.0130
14	S95T003288 L	-.0857	3.072	-.0001	.0124	-.1755	-.2017
15	S95T003288-	-.0379	2.911	.0081	.0147	-.1035	-.0301
16	S95T003288 D	-.0282	3.140	.0069	.0154	-.1426	.0174
17	S95T003289-L	-.0262	2.251	-.0098	.0173	-.1790	.0304
18	S95T003289-	-.0387	2.092	.0102	.0179	-.0880	-.0383
19	S95T003289 D	-.0395	2.040	.0064	.0162	-.0891	-.0289
20	S95T003290-L	-.0102	2.548	.0063	.0149	.0197	.0368
21	S95T003290-	-.0401	2.399	.0088	.0174	-.0986	-.0052
22	S95T003290 D	-.0385	2.475	.0070	.0192	-.0897	.0101
23	CCV 1	4.924	4.962	-.0065	4.828	4.903	9.418
24	CCB-1	.0027	.0002	.0024	-.0002	.0114	-.0053
25	S95T003291 L	-.1169	3.309	-.0323	.0148	-.2499	-.3678

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#	Sample Name	Sm	Sr	Th	Ti	Tl	U
26	S95T003291	-.0397	3.211	.0067	.0219	-.1376	-.0508
27	S95T003291_D	-.0531	2.564	.0125	.0145	-.0896	-.0886
28	S95T003292-L	-.0767	2.339	.0333	.0138	.0124	-.1539
29	S95T003292-	-.0409	2.149	.0164	.0165	-.0641	-.0549
30	S95T003292_D	-.0334	2.493	.0144	.0182	-.1040	.0062
31	ICSA	.0046	-.0017	-.0431	.0006	.0522	.4618
32	ICSAB	.0097	-.0017	-.0248	.0014	.0903	.4604
33	CCV 2	4.899	4.940	.0011	4.789	4.847	9.392
34	CCB-2	-.0022	.0000	.0001	-.0002	.0312	-.0075

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.922	.0059	4.889	4.850
2	ICB	-.0002	.0000	.0004	-.0003
3	ICSA	.0013	.0092	.0072	.0020
4	ICSAB	.4606	.0091	.9569	.0012
5	PREPSTDTJA	4.221	.0025	4.033	4.284
6	PREPBLKTJA	-.0049	-.0016	.0026	-.0035
7	S95T003287_L	.0280	.0004	.0532	-.0013
8	S95T003287-L	.0223	.0001	.0496	-.0053
9	S95T003287-	.0225	-.0004	.0488	-.0016
10	S95T003287_D	.0186	-.0006	.0392	-.0010
11	S95T003287-S	4.795	.0057	4.762	4.808
12	CCV	4.972	.0062	4.947	4.891
13	CCB	-.0005	-.0001	.0004	.0002
14	S95T003288_L	.0151	-.0023	.0932	-.0003
15	S95T003288-	.0183	-.0006	.0836	-.0012
16	S95T003288_D	.0221	.0001	.0450	-.0012
17	S95T003289-L	.0284	.0004	.0404	.0217
18	S95T003289-	.0228	-.0004	.0299	.0182
19	S95T003289_D	.0231	-.0003	.0955	-.0010
20	S95T003290-L	.0361	.0004	.0803	.0042
21	S95T003290-	.0297	-.0003	.0550	.0005
22	S95T003290_D	.0319	-.0002	.0587	.0027
23	CCV 1	4.950	.0064	4.955	4.855
24	CCB-1	.0002	-.0001	.0003	-.0002
25	S95T003291_L	.0257	-.0053	.0608	.0022
26	S95T003291-	.0367	-.0006	.0649	-.0013
27	S95T003291_D	.0272	-.0012	.0415	-.0015
28	S95T003292-L	.0236	-.0015	.0341	-.0030
29	S95T003292-	.0236	-.0007	.0301	-.0021
30	S95T003292_D	.0331	.0001	.0336	.0007
31	ICSA	.0013	.0092	.0065	.0023
32	ICSAB	.4693	.0095	.9732	.0012
33	CCV 2	4.905	.0062	4.899	4.815
34	CCB-2	-.0007	-.0001	.0003	.0000

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VHC-SD-WM-DP-160, REV. 1

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LABCORE Data Entry Template for Worklist# 4397

Analyst: B. GORRILL Instrument: ICP01 Book# 496486
ICP02
*AL 1-6-96*Method: LA-505-151/161 Rev/Mod B-0
11-3-96

Worklist Comment: ICP B-204 (ACID DIGEST)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPSTDJJA		@ICP-A01	SOLID		
6	PREPBLKTJA		@ICP-A01	SOLID		
7	SAMPLE	S95T003299 0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					
8	DUP	S95T003299 0 A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003299 0 A	@ICP-A01	SOLID		
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S95T003300 0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 4397

S Type	Sample#	R A	Test	Matrix	Group#	Project
13 DUP	S95T003300	0 A	@ICP-A01	SOLID		
14 SAMPLE	S95T003301	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
15 DUP	S95T003301	0 A	@ICP-A01	SOLID		
16 SAMPLE	S95T003302	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
17 DUP	S95T003302	0 A	@ICP-A01	SOLID		
18 CCV			@ICP-QC	QC		
19 CCB			@ICP-QC	QC		
20 SAMPLE	S95T003303	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
21 DUP	S95T003303	0 A	@ICP-A01	SOLID		
22 SAMPLE	S95T003304	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 ,						

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

12/18/95 16:17
A-0004-1

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LABCORE Data Entry Template for Worklist# 4397

S Type	Sample#	R A	Test	Matrix	Group#	Project
			MG-A-01	MN-A-01	MO-A-01	NA-A-01
			P-A-01	PB-A-01	S-A-01	SB-A-01
			SM-A-01	SR-A-01	TI-A-01	TL-A-01
			ZN-A-01	ZR-A-01	U-A-01	V-A-01
23 DUP	S95T003304	0 A	@ICP-A01	SOLID		
24 ICSA			@ICP-QC	QC		
25 ICSAB			@ICP-QC	QC		
26 CCV			@ICP-QC	QC		
27 CCB			@ICP-QC	QC		

Final page for worklist # 4397

[Signature]
Analyst Signature Date 1-25-96

Revised by:
[Signature]
Analyst Signature Date 1-29-96

PREP/STD/TA 1
PREP/BLK/TA 1
S95T003299-L 10
S95T003299 2
S95T003299-D 2
S95T003299-S 2
S95T003300-L 10
S95T003300 2
S95T003300-D 2
S95T003301-L 10
S95T003301 2
S95T003301-D 2
S95T003302-L 5
S95T003302 1
S95T003302-D 1
S95T003303-L 5
S95T003303 1
S95T003303-D 1
S95T003304-L 10
S95T003304 2
S95T003304-D 2
Data Entry Comments:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960125D	ICP2	01/25/96	17:40	BJG	Q	CONC
2	ICB	960125D	ICP2	01/25/96	17:43	BJG	Q	CONC
3	ICSA	960125D	ICP2	01/25/96	17:46	BJG	Q	CONC
4	ICSAB	960125D	ICP2	01/25/96	17:48	BJG	Q	CONC
5	PREPSTD TJ A	960125D	ICP2	01/25/96	17:51	BJG	S	CONC
6	PREPBLK TJ A	960125D	ICP2	01/25/96	17:54	BJG	S	CONC
7	S95T003299 L	960125D	ICP2	01/25/96	17:58	BJG	S	CONC
8	S95T003299 -	960125D	ICP2	01/25/96	18:01	BJG	S	CONC
9	S95T003299 D	960125D	ICP2	01/25/96	18:04	BJG	S	CONC
10	S95T003299 -S	960125D	ICP2	01/25/96	18:07	BJG	S	CONC
11	CCV	960125D	ICP2	01/25/96	18:11	BJG	Q	CONC
12	CCB	960125D	ICP2	01/25/96	18:17	BJG	Q	CONC
13	S95T003300 L	960125D	ICP2	01/25/96	18:22	BJG	S	CONC
14	S95T003300 -	960125D	ICP2	01/25/96	18:25	BJG	S	CONC
15	S95T003300 D	960125D	ICP2	01/25/96	18:29	BJG	S	CONC
16	S95T003301 L	960125D	ICP2	01/25/96	18:32	BJG	S	CONC
17	S95T003301 -	960125D	ICP2	01/25/96	18:35	BJG	S	CONC
18	S95T003301 D	960125D	ICP2	01/25/96	18:38	BJG	S	CONC
19	S95T003302 L	960125D	ICP2	01/25/96	18:42	BJG	S	CONC
20	S95T003302 -	960125D	ICP2	01/25/96	18:45	BJG	S	CONC
21	S95T003302 D	960125D	ICP2	01/25/96	18:49	BJG	S	CONC
22	CCV 1	960125D	ICP2	01/25/96	18:54	BJG	Q	CONC
23	CCB-1	960125D	ICP2	01/25/96	18:57	BJG	Q	CONC
24	S95T003303 L	960125D	ICP2	01/25/96	19:00	BJG	S	CONC
25	S95T003303 -	960125D	ICP2	01/25/96	19:04	BJG	S	CONC
26	S95T003303 D	960125D	ICP2	01/25/96	19:11	BJG	S	CONC
27	S95T003304 L	960125D	ICP2	01/25/96	19:14	BJG	S	CONC
28	S95T003304 -	960125D	ICP2	01/25/96	19:17	BJG	S	CONC
29	S95T003304 D	960125D	ICP2	01/25/96	19:20	BJG	S	CONC
30	ICSA	960125D	ICP2	01/25/96	19:23	BJG	Q	CONC
31	ICSAB	960125D	ICP2	01/25/96	19:26	BJG	Q	CONC
32	CCV 2	960125D	ICP2	01/25/96	19:29	BJG	Q	CONC
33	CCB-2	960125D	ICP2	01/25/96	19:32	BJG	Q	CONC

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 892 TO 897.

if Good
1-25-96
B-204 AND BEST
S95T003299-3304

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.045	4.945	5.208	4.902	5.027	5.202
2	ICB	.0008	.0015	.0096	-.0013	-.0001	.0001
3	ICSA	.0013	238.4	-.0376	.0002	.0032	.0003
4	ICSAB	.9636	237.0	-.0186	-.0023	.4765	.4742
5	PREPSTD TJ A	.8585	4.375	4.443	4.342	4.417	5.047
6	PREPBLK TJ A	.0019	.0493	.0161	.3001	.0001	.0001
7	S95T003299 L	.0413	.3428	.1780	.7613	.0865	-.0004
8	S95T003299 -	.0322	.2364	.0283	.7180	.0819	-.0002
9	S95T003299 D	.0261	.3107	.0171	.6716	.0723	-.0002
10	S95T003299 -S	.9436	4.857	4.698	5.464	4.604	4.996
11	CCV	5.046	4.955	5.195	4.929	4.993	5.206
12	CCB	.0025	.0135	.0201	-.0031	-.0000	.0000
13	S95T003300 L	.0140	.2013	.0500	.6502	.0377	-.0004
14	S95T003300 -	.0216	.1970	.0143	.6392	.0383	-.0001
15	S95T003300 D	.0191	.1790	.0265	.6208	.0350	-.0001
16	S95T003301 L	.0435	.2916	.0896	.8064	.0709	-.0004
17	S95T003301 -	.0252	.2190	.0121	.7721	.0694	-.0002
18	S95T003301 D	.0253	.2197	.0363	.6998	.0687	-.0001
19	S95T003302 L	.0210	.1663	.0209	.6065	.0330	-.0002
20	S95T003302 -	.0165	.1463	.0276	.5623	.0303	-.0002
21	S95T003302 D	.0187	.1925	.0341	.6414	.0352	-.0002
22	CCV 1	5.090	5.003	5.280	4.975	5.031	5.295
23	CCB-1	.0018	.0077	.0085	.0000	-.0001	.0000
24	S95T003303 L	.0288	.1993	.0290	.6522	.0354	.0002
25	S95T003303 -	.0200	.1661	.0197	.5917	.0346	-.0002
26	S95T003303 D	.0250	.2124	.0094	.7449	.0420	-.0003
27	S95T003304 L	.0331	.2958	.1291	.6923	.0596	.0004
28	S95T003304 -	.0254	.1958	.0303	.7070	.0569	-.0003
29	S95T003304 D	.0283	.1933	.0021	.6801	.0645	-.0003
30	ICSA	.0008	242.4	-.0336	-.0053	.0032	.0001
31	ICSAB	.9717	239.8	-.0268	-.0057	.4758	.4793
32	CCV 2	5.069	4.988	5.255	4.965	5.039	5.269
33	CCB-2	.0015	.0069	.0028	.0018	.0000	.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.114	5.108	5.116	5.189	4.982	5.172
2	ICB	-.0347	.0002	-.0008	-.0043	-.0016	.0001
3	ICSA	-.0089	244.3	.0006	.0094	.0035	-.0012
4	ICSAB	-.0373	244.2	.9479	.0164	.4649	.4735
5	PREPSTD TJ A	4.279	4.321	4.270	4.602	4.351	4.406
6	PREPBLK TJ A	-.0011	.0328	.0016	.0123	.0021	.0011
7	S95T003299 L	287.4	1.370	.0154	.2185	.0307	25.36
8	S95T003299 -	265.7	1.252	.0058	.1861	.0269	23.48
9	S95T003299 D	236.6	.9101	.0054	.1520	.0234	20.85
10	S95T003299 -S	195.7	5.367	4.543	4.851	4.628	21.29
11	CCV	5.092	5.093	5.063	5.144	4.938	5.124
12	CCB	.0009	.0032	.0009	.0178	.0002	.0007
13	S95T003300 L	216.3	.7019	.0047	.0916	.0431	19.51
14	S95T003300 -	204.4	.7237	.0037	.1421	.0372	18.69
15	S95T003300 D	193.5	.6942	.0055	.1268	.0322	17.05
16	S95T003301 L	304.8	1.123	.0231	.2693	.0385	25.84

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
17	S95T003301	287.4	1.021	.0045	.1548	.0251	24.39
18	S95T003301_D	279.3	1.297	.0041	.1619	.0272	23.82
19	S95T003302-L	184.9	.7902	.0026	.1390	.0128	15.08
20	S95T003302	163.0	.7102	.0038	.1259	.0161	13.43
21	S95T003302_D	192.2	.6551	.0036	.1397	.0163	15.34
22	CCV_1	5.145	5.169	5.145	5.195	5.023	5.202
23	CCB-1	.0061	.0024	.0013	.0000	.0005	.0004
24	S95T003303_L	227.2	.7449	.0074	.1881	.0236	18.72
25	S95T003303	210.1	.6943	.0033	.1669	.0158	17.41
26	S95T003303_D	257.5	.8136	.0052	.2013	.0195	21.24
27	S95T003304-L	236.5	1.089	.0089	.3275	.0145	20.23
28	S95T003304	219.6	.9837	.0035	.2447	.0174	18.80
29	S95T003304_D	251.9	1.161	.0026	.3062	.0201	21.33
30	ICSA	.0361	246.8	.0021	.0182	.0016	.0045
31	ICSAB	.0052	244.7	.9493	.0195	.4636	.4738
32	CCV_2	5.105	5.126	5.101	5.197	4.971	5.163
33	CCB-2	.0099	.0030	.0013	.0089	.0009	.0002

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	4.968	-.0039	5.132	5.099	5.089	5.040
2	ICB	.0005	-.0006	-.0001	-.2137	-.0004	.0003
3	ICSA	-.0076	-.0506	94.10	-.0568	-.0049	.0019
4	ICSAB	.4730	-.0486	93.33	.0504	-.0041	.9605
5	PREPSTDTJA	4.422	-.0062	4.532	4.302	4.520	4.600
6	PREPBLKTJA	.0016	-.0023	.0129	-.0777	.0020	-.0012
7	S95T003299_L	.0270	.0073	24.28	39.09	59.89	.2919
8	S95T003299	.0298	.0141	22.52	37.60	56.71	.2839
9	S95T003299_D	.0393	.0133	19.80	33.03	51.01	.2523
10	S95T003299-S	4.588	.0070	20.55	31.42	46.05	4.847
11	CCV	4.989	-.0044	5.109	5.047	5.035	5.135
12	CCB	.0005	-.0013	.0015	.0404	.0012	-.0009
13	S95T003300_L	.0359	-.0024	24.84	27.09	47.70	.1515
14	S95T003300	.0308	.0099	23.79	27.83	46.57	.1541
15	S95T003300_D	.0377	.0093	22.18	27.18	41.85	.1548
16	S95T003301-L	.0383	.0114	25.73	43.24	64.27	.2709
17	S95T003301	.0268	.0157	24.40	40.15	62.49	.2319
18	S95T003301_D	.0348	.0146	24.00	38.45	60.68	.2251
19	S95T003302-L	.0163	.0053	14.74	28.74	40.43	.0520
20	S95T003302	.0119	.0093	13.15	26.22	36.91	.0534
21	S95T003302_D	.0205	.0121	15.19	29.28	43.92	.0726
22	CCV_1	5.030	-.0040	5.178	5.315	5.085	5.149
23	CCB-1	.0002	-.0009	.0008	-.0578	-.0005	-.0004
24	S95T003303_L	.0176	.0100	18.17	31.39	53.17	.1885
25	S95T003303	.0144	.0144	16.94	29.49	51.09	.1838
26	S95T003303_D	.0195	.0158	20.63	36.20	61.34	.2299
27	S95T003304-L	.0148	.0076	18.10	33.90	59.79	.0995
28	S95T003304	.0092	.0145	16.82	31.25	57.00	.1019
29	S95T003304_D	.0153	.0208	18.85	34.41	68.35	.1039
30	ICSA	-.0097	-.0519	94.98	-.2643	-.0035	.0021
31	ICSAB	.4789	-.0484	93.81	.0062	-.0044	.9824
32	CCV_2	5.042	-.0043	5.136	5.024	5.100	5.188
33	CCB-2	.0005	-.0006	.0010	-.0067	.0008	.0002

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.917	5.032	4.977	5.019	5.138	5.073
2	ICB	.0129	-.0001	.0026	-.0051	.0023	.0041
3	ICSA	238.1	-.0063	-.0141	193.9	.0208	-.0006
4	ICSAB	237.4	.4447	-.0140	194.1	.0147	.9160
5	PREPSTD TJJA	4.235	4.277	4.391	4.589	4.445	4.337
6	PREPBLKTJA	.0217	-.0001	.0015	.3820	.0048	-.0036
7	S95T003299 L	.1916	85.01	-.0282	170.1	.0355	2.485
8	S95T003299	.2140	88.09	-.0183	160.8	.0319	2.219
9	S95T003299 D	.1890	77.74	-.0190	141.4	.0264	1.961
10	S95T003299 S	4.604	66.43	4.612	120.6	4.588	6.172
11	CCV	4.947	5.035	4.954	5.060	5.110	5.048
12	CCB	.0147	-.0003	.0012	-.0101	.0033	-.0007
13	S95T003300 L	.1643	67.24	-.0301	123.3	.0276	3.378
14	S95T003300	.1530	70.60	-.0141	119.2	.0261	3.304
15	S95T003300 D	.1431	65.48	-.0200	113.9	.0279	3.124
16	S95T003301 L	.2235	91.27	-.0265	177.5	.0779	2.443
17	S95T003301	.1792	96.86	-.0194	173.2	.0251	2.202
18	S95T003301 D	.1967	94.83	-.0200	163.2	.0220	2.138
19	S95T003302 L	.1385	56.75	-.0221	120.2	.0352	1.219
20	S95T003302	.1193	57.82	-.0094	109.9	.0188	1.093
21	S95T003302 D	.1399	70.17	-.0125	122.9	.0188	1.248
22	CCV 1	5.000	5.084	5.016	5.079	5.152	5.159
23	CCB 1	.0163	-.0001	.0017	-.0059	.0050	-.0012
24	S95T003303 L	.1276	69.13	.0024	129.3	.0341	1.283
25	S95T003303	.1715	78.01	-.0137	122.8	.0224	1.202
26	S95T003303 D	.1346	87.40	-.0194	150.7	.0218	1.474
27	S95T003304 L	.2314	75.78	-.0301	133.8	.0680	1.174
28	S95T003304	.1741	77.09	-.0110	127.2	.0381	1.101
29	S95T003304 D	.2049	90.89	-.0166	139.8	.0457	1.259
30	ICSA	242.4	-.0058	-.0141	197.9	.0138	.0029
31	ICSAB	240.8	.4499	-.0131	197.2	.0144	.9368
32	CCV 2	4.969	5.004	4.982	5.095	5.171	5.101
33	CCB 2	.0134	-.0000	.0035	-.0072	.0036	.0016

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.911	5.159	4.786	4.720	5.003	4.860
2	ICB	-.0151	.0035	-.0182	.0142	-.0015	.0010
3	ICSA	.0058	.0765	-.0315	.0233	-.0105	.0073
4	ICSAB	-.0045	1.045	-.0361	.0063	-.0261	.0098
5	PREPSTD TJJA	4.352	4.197	4.183	4.032	4.362	4.713
6	PREPBLKTJA	-.0051	.0168	.0383	.0105	.0028	.1294
7	S95T003299 L	12.31	.0652	.2883	-.0138	.1639	5.299
8	S95T003299	11.75	-.0288	.3462	-.0912	.0877	5.053
9	S95T003299 D	10.42	-.0424	.2824	-.0893	.0585	4.656
10	S95T003299 S	13.15	4.559	4.708	4.225	4.597	11.61
11	CCV	4.981	5.107	4.843	4.725	5.009	4.867
12	CCB	-.0090	.0142	-.0091	.0197	-.0046	-.0110
13	S95T003300 L	9.395	.0017	.1841	-.0622	-.0161	4.189
14	S95T003300	9.019	-.0160	.3490	-.0714	.0370	4.224
15	S95T003300 D	8.284	-.0306	.2541	-.0621	.0294	4.490
16	S95T003301 L	12.65	-.0269	.2145	-.0647	.1248	5.888

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#	Sample Name	P	Pb	S	Sb	Se	Si
17	S95T003301	12.39	-.0086	.3820	-.0991	.0779	6.594
18	S95T003301 D	11.51	-.0528	.3148	-.0993	.0701	6.689
19	S95T003302 L	8.121	-.0415	.2591	-.0128	.0724	3.995
20	S95T003302	7.381	-.0218	.2686	-.0443	.0339	3.450
21	S95T003302 D	8.483	-.0069	.2992	-.0709	.0635	4.955
22	CCV 1	5.019	5.197	4.896	4.760	5.067	4.931
23	CCB 1	-.0200	.0082	-.0185	.0064	-.0023	.0060
24	S95T003303 L	9.337	.0466	.2720	-.0877	.0526	4.659
25	S95T003303	8.740	-.0264	.2641	-.0755	.0475	4.614
26	S95T003303 D	10.78	-.0298	.3483	-.0937	.0500	5.269
27	S95T003304 L	9.710	.2544	.2022	-.0228	.0483	4.351
28	S95T003304	9.120	.0695	.3472	-.0571	.0899	4.099
29	S95T003304 D	11.24	.1678	.2959	-.0852	.0750	4.698
30	ICSA	.0074	.0438	-.0502	.0102	-.0489	.0072
31	ICSAB	-.0113	1.044	-.0436	.0120	-.0527	.0078
32	CCV 2	5.003	5.113	4.854	4.743	5.034	4.871
33	CCB 2	-.0204	.0196	-.0056	.0176	.0036	-.0049
<hr/>							
#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.947	4.998	-.0039	4.815	4.945	9.359
2	ICB	-.0088	.0002	-.0063	.0010	-.0124	-.0112
3	ICSA	-.0054	-.0018	.0045	.0024	.0418	.1091
4	ICSAB	-.0059	-.0018	-.0031	.0026	.0039	.1144
5	PREPSTD TJ A	4.385	4.449	-.0067	4.315	4.196	8.523
6	PREPBLK TJ A	-.0328	.0000	.0129	.0015	.0081	-.0925
7	S95T003299 L	-.2132	2.534	.0589	.0223	-.3352	-.3385
8	S95T003299	-.0770	2.400	.0244	.0188	-.2683	-.1196
9	S95T003299 D	-.0587	2.131	.0090	.0163	-.2138	-.0830
10	S95T003299 S	4.479	6.329	-.0045	4.504	4.251	8.740
11	CCV	4.914	4.971	-.0097	4.780	4.928	9.317
12	CCB	-.0187	.0000	.0084	.0005	-.0121	-.0626
13	S95T003300 L	-.2548	1.198	.0168	.0198	-.2851	-.6166
14	S95T003300	-.0782	1.172	.0189	.0173	-.1964	-.1250
15	S95T003300 D	-.0530	1.048	.0150	.0158	-.1686	-.0866
16	S95T003301 L	-.1151	2.032	.0613	.0274	-.3660	-.2211
17	S95T003301	-.0873	1.981	.0104	.0212	-.2785	-.1246
18	S95T003301 D	-.0884	1.929	.0120	.0203	-.2159	-.1314
19	S95T003302 L	-.1292	1.084	.0070	.0160	-.1095	-.2459
20	S95T003302	-.0499	.9966	.0087	.0119	-.1272	-.0740
21	S95T003302 D	-.0493	1.131	.0111	.0131	-.1160	-.0635
22	CCV 1	4.975	5.025	-.0044	4.844	4.980	9.401
23	CCB 1	-.0129	.0000	.0047	.0008	-.0165	-.0207
24	S95T003303 L	-.1214	1.052	.0164	.0198	-.2219	-.2755
25	S95T003303	-.0524	1.015	.0075	.0151	-.1225	-.0445
26	S95T003303 D	-.0897	1.244	.0172	.0173	-.2390	-.1271
27	S95T003304 L	-.2483	1.207	.0606	.0298	-.0197	-.4056
28	S95T003304	-.0821	1.150	.0187	.0178	-.2277	-.1522
29	S95T003304 D	-.0600	1.451	.0156	.0203	-.2126	-.0338
30	ICSA	-.0049	-.0018	-.0102	.0024	.0121	.1310
31	ICSAB	-.0105	-.0018	-.0035	.0026	.0217	.1130
32	CCV 2	4.980	5.036	-.0001	4.838	4.999	9.416
33	CCB 2	-.0116	.0000	.0029	.0007	.0077	-.0131

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.918	.0059	4.893	4.847
2	ICB	-.0017	-.0002	.0010	-.0009
3	ICSA	-.0018	.0089	-.0033	-.0025
4	ICSAB	.4572	.0089	.9473	-.0024
5	PREPSTD TJJA	4.300	.0024	4.117	4.316
6	PREPBLKTJA	-.0051	-.0013	.0033	-.0044
7	S95T003299 L	-.0062	-.0053	.1385	-.0122
8	S95T003299	.0139	-.0014	.0861	-.0042
9	S95T003299 D	.0152	-.0006	.0625	-.0015
10	S95T003299 S	4.507	.0040	4.500	4.516
11	CCV	4.895	.0056	4.892	4.803
12	CCB	-.0040	-.0008	.0012	-.0031
13	S95T003300 L	-.0184	-.0084	.0791	-.0228
14	S95T003300	.0106	-.0015	.2164	-.0052
15	S95T003300 D	.0117	-.0011	.0476	-.0013
16	S95T003301 L	.0073	-.0030	.0909	-.0198
17	S95T003301	.0128	-.0017	.0767	-.0031
18	S95T003301 D	.0126	-.0017	.0624	-.0046
19	S95T003302 L	-.0009	-.0034	.0569	-.0080
20	S95T003302	.0078	-.0009	.0417	-.0026
21	S95T003302 D	.0106	-.0007	.0763	-.0000
22	CCV 1	4.960	.0059	4.959	4.865
23	CCB 1	-.0017	-.0004	.0010	-.0017
24	S95T003303 L	.0013	-.0030	.0556	-.0088
25	S95T003303	.0131	-.0002	.0512	.0012
26	S95T003303 D	.0121	-.0015	.0438	-.0035
27	S95T003304 L	-.0122	-.0061	.0936	-.0191
28	S95T003304	.0075	-.0017	.0665	-.0049
29	S95T003304 D	.0168	.0000	.0746	.0015
30	ICSA	-.0027	.0090	-.0052	-.0019
31	ICSAB	.4597	.0087	.9553	-.0027
32	CCV 2	4.937	.0056	4.910	4.853
33	CCB 2	-.0017	-.0002	.0014	-.0016

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FILE # 09601258.TXT WHC-SD-WM-DP-160, REV. 1

Page: 1

LABCORE Data Entry Template for Worklist# 4398

Analyst: B. Goeckel Instrument: ICP01 ^{ICP01} ICP01 Book# 483458

Method: LA-505-151/161 Rev/Mod B-0
⁸⁷⁻¹⁻²⁵⁻⁹⁶

Worklist Comment: ICP B-204 (ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDJJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T003305	0	A	@ICP-A01	SOLID	95000161	B-204
		Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
8	DUP	S95T003305	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003305	0	A	@ICP-A01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S95T003306	0	A	@ICP-A01	SOLID	95000161	B-204
		Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

898

LABCORE Data Entry Template for Worklist# 4398

S Type	Sample#	R A	Test	Matrix	Group#	Project
13 DUP	S95T003306	0 A	@ICP-A01	SOLID		
14 SAMPLE	S95T003307	0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
15 DUP	S95T003307	0 A	@ICP-A01	SOLID		
16 ICSA			@ICP-QC	QC		
17 ICSAB			@ICP-QC	QC		
18 CCV			@ICP-QC	QC		
19 CCB			@ICP-QC	QC		

Final page for worklist # 4398

[Signature] 1-25-96
Analyst Signature **Date**
PREPSTTA 1
PREPBWTTA 1

S95T003305-L 10
S95T003305 2
S95T003305-D 2
S95T003305-S 2

S95T003306-L 10
S95T003306 2
S95T003306-D 2
S95T003307-L 10
S95T003307 2
S95T003307-D 2

Reviewed by:
[Signature] 1-25-96
Analyst Signature **Date**

Data Entry Comments:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960125B	ICP2	01/25/96	13:34	BJG	Q	CONC
2	ICB	960125B	ICP2	01/25/96	13:37	BJG	Q	CONC
3	ICSA	960125B	ICP2	01/25/96	13:41	BJG	Q	CONC
4	ICSAB	960125B	ICP2	01/25/96	13:44	BJG	Q	CONC
5	PREPSTDTJA	960125B	ICP2	01/25/96	13:47	BJG	S	CONC
6	PREPBLKTJA	960125B	ICP2	01/25/96	13:50	BJG	S	CONC
7	S95T003305_L	960125B	ICP2	01/25/96	13:54	BJG	S	CONC
8	S95T003305	960125B	ICP2	01/25/96	13:57	BJG	S	CONC
9	S95T003305_D	960125B	ICP2	01/25/96	14:00	BJG	S	CONC
10	S95T003305_S	960125B	ICP2	01/25/96	14:03	BJG	S	CONC
11	CCV	960125B	ICP2	01/25/96	14:07	BJG	Q	CONC
12	CCB	960125B	ICP2	01/25/96	14:10	BJG	Q	CONC
13	S95T003306_L	960125B	ICP2	01/25/96	14:13	BJG	S	CONC
14	S95T003306	960125B	ICP2	01/25/96	14:16	BJG	S	CONC
15	S95T003306_D	960125B	ICP2	01/25/96	14:19	BJG	S	CONC
16	S95T003307_L	960125B	ICP2	01/25/96	14:23	BJG	S	CONC
17	S95T003307	960125B	ICP2	01/25/96	14:32	BJG	S	CONC
18	S95T003307_D	960125B	ICP2	01/25/96	14:37	BJG	S	CONC
19	ICSA	960125B	ICP2	01/25/96	14:42	BJG	Q	CONC
20	ICSAB	960125B	ICP2	01/25/96	14:45	BJG	Q	CONC
21	CCV_1	960125B	ICP2	01/25/96	14:48	BJG	Q	CONC
22	CCB_1	960125B	ICP2	01/25/96	14:51	BJG	Q	CONC

Signature
1-25-96
B-204
S-2-5-2
S95T003305-07

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 900 TO 904.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.024	4.967	5.204	4.934	5.048	5.212
2	ICB	.0027	.0160	.0120	.0073	.0001	.0002
3	ICSA	.0020	242.8	-.0303	.0047	.0036	.0005
4	ICSAB	.9628	238.6	-.0292	.0102	.4795	.4815
5	PREPSTD TJ A	.8958	4.624	4.707	4.765	4.577	5.262
6	PREPBLKTJA	.0026	.0262	.0062	.0050	.0002	.0002
7	S95T003305 L	.0481	.3344	.1423	.9404	.0739	.0004
8	S95T003305	.0252	.2468	.0089	.9164	.0699	-.0001
9	S95T003305 D	.0260	.2351	.0103	.7480	.0698	.0002
10	S95T003305 S	.8991	4.749	4.575	5.534	4.476	4.844
11	CCV	5.096	5.049	5.386	5.064	5.145	5.364
12	CCB	.0024	.0146	.0037	.0068	.0000	.0002
13	S95T003306 L	.0374	.3069	.1689	.7667	.0761	.0016
14	S95T003306	.0222	.2162	.0183	.6654	.0722	-.0002
15	S95T003306 D	.0206	.2282	.0192	.7637	.0730	.0003
16	S95T003307 L	.0322	.3714	.0624	.7173	.0600	.0031
17	S95T003307	.0222	.2258	.0083	.6396	.0570	-.0001
18	S95T003307 D	.0206	.2516	.0196	.8051	.0538	.0005
19	ICSA	.0025	245.1	-.0091	.0052	.0035	.0005
20	ICSAB	.9814	243.6	-.0201	-.0006	.4937	.4904
21	CCV 1	5.074	5.039	5.285	5.031	5.164	5.331
22	CCB 1	.0013	.0115	.0229	.0068	.0001	.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.033 ✓	4.973	5.030	5.173	4.954	5.111
2	ICB	-.0033	.0019	.0025	.0144	.0012	.0008
3	ICSA	-.0116	241.2	.0036	.0187	.0042	-.0025
4	ICSAB	-.0169	239.5	.9415	.0202	.4665	.4705
5	PREPSTD TJ A	4.491	4.426	4.453	4.719	4.547	4.539
6	PREPBLKTJA	.0204	.0415	.0010	.0187	.0001	.0031
7	S95T003305 L	276.1	1.802	.0226	.4385	.0575	20.33
8	S95T003305	262.1	1.553	.0076	.2793	.0208	19.33
9	S95T003305 D	260.6	1.246	.0086	.2752	.0165	19.25
10	S95T003305 S	272.4	5.564	4.317	4.834	4.407	23.38
11	CCV	5.211 ✓	5.115	5.141	5.256	5.058	5.200
12	CCB	.0098	-.0016	.0025	.0004	.0025	.0016
13	S95T003306 L	237.5	1.426	.0205	.2851	.0125	11.08
14	S95T003306	223.0	1.389	.0072	.2282	.0181	10.48
15	S95T003306 D	221.2	1.728	.0083	.2347	.0142	10.45
16	S95T003307 L	279.7	2.843	.0291	.4214	.0531	9.293
17	S95T003307	260.5	2.699	.0071	.3181	.0220	8.688
18	S95T003307 D	252.3	1.644	.0071	.3094	.0228	8.417
19	ICSA	.0142	247.5	.0033	.0231	.0044	-.0002
20	ICSAB	.0262	245.0	.9595	.0201	.4770	.4784
21	CCV 1	5.154 ✓	5.100	5.096	5.276	5.017	5.173
22	CCB 1	.0213	-.0012	.0013	.0044	.0035	.0016

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.038	-.0049	5.099	5.028	5.091	5.128
2	ICB	-.0002	-.0005	.0005	.0281	.0023	.0002
3	ICSA	-.0082	-.0464	94.73	.1215	-.0047	.0021
4	ICSAB	.4834	-.0459	93.41	.2569	-.0035	.9783
5	PREPSTD TJ A	4.651	-.0063	4.525	4.552	4.656	4.742
6	PREPBLKTJA	.0012	-.0021	.0318	.2363	.0019	-.0020
7	S95T003305_L	.0127	.0258	19.64	36.27	60.29	.0757
8	S95T003305_	.0114	.0181	18.78	33.28	58.99	.0669
9	S95T003305_D	.0172	.0174	18.74	33.06	59.94	.0705
10	S95T003305_S	4.462	.0132	23.14	37.60	67.00	4.550
11	CCV	5.154	-.0051	5.206	5.056	5.152	5.238
12	CCB	.0012	-.0009	.0003	.0153	.0003	-.0007
13	S95T003306_L	.0254	.0089	17.91	29.42	55.66	.1131
14	S95T003306_	.0240	.0153	16.96	26.82	53.44	.1119
15	S95T003306_D	.0169	.0140	16.89	27.90	53.61	.1069
16	S95T003307_L	.0284	.0090	19.84	28.44	65.74	.0893
17	S95T003307_	.0198	.0184	18.57	28.33	62.27	.0907
18	S95T003307_D	.0214	.0156	18.32	27.25	60.70	.0848
19	ICSA	-.0084	-.0553	96.25	-.2013	-.0026	.0026
20	ICSAB	.4956	-.0507	95.28	.2170	-.0036	1.001
21	CCV_1	5.155	-.0053	5.178	5.174	5.180	5.244
22	CCB_1	.0005	-.0002	-.0002	.0370	.0007	.0000

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.948	4.973	4.968	5.091	5.165	5.062
2	ICB	.0038	.0001	.0007	.0022	.0032	.0020
3	ICSA	243.3	-.0064	-.0100	200.3	.0163	-.0115
4	ICSAB	240.3	.4452	-.0191	196.4	.0164	.9244
5	PREPSTD TJ A	4.453	4.442	4.567	5.084	4.566	4.524
6	PREPBLKTJA	.0141	.0000	.0007	.0381	.0032	-.0009
7	S95T003305_L	.2252	81.68	-.0288	145.3	.0486	1.263
8	S95T003305_	.2440	86.87	-.0192	141.8	.0358	1.170
9	S95T003305_D	.1959	87.75	-.0207	141.8	.0362	1.180
10	S95T003305_S	4.502	93.10	4.310	148.1	4.446	5.592
11	CCV	5.067	5.139	5.070	5.175	5.240	5.157
12	CCB	.0170	.0001	.0010	-.0056	.0066	-.0011
13	S95T003306_L	.1973	70.03	-.0238	122.0	.0474	1.232
14	S95T003306_	.1667	72.48	-.0156	116.9	.0293	1.171
15	S95T003306_D	.1801	72.04	-.0124	119.8	.0266	1.172
16	S95T003307_L	.2559	78.16	-.0095	128.5	.0644	1.403
17	S95T003307_	.1999	79.89	-.0189	121.4	.0333	1.349
18	S95T003307_D	.2567	77.57	-.0157	118.4	.0383	1.300
19	ICSA	245.9	-.0060	-.0121	200.8	.0188	-.0017
20	ICSAB	245.0	.4541	-.0179	200.9	.0142	.9343
21	CCV_1	5.021	5.036	5.048	5.171	5.269	5.119
22	CCB_1	.0147	.0002	.0005	.0022	.0045	.0052

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.887	5.054	4.914	4.708	5.024	4.831
2	ICB	.0220	-.0032	.0052	-.0049	.0393	.0007
3	ICSA	.0275	.0542	-.0273	-.0051	-.0018	.0083
4	ICSAB	.0313	1.017	-.0270	-.0079	-.0111	.0120
5	PREPSTD TJ A	4.517	4.399	4.485	4.311	4.572	5.768
6	PREPBLKTJA	.0376	-.0010	.1096	-.0053	.0476	.0207
7	S95T003305 L	11.62	.3388	.3429	-.1281	.5191	4.973
8	S95T003305	10.96	.2243	.3080	-.1450	.1593	4.771
9	S95T003305 D	11.03	.2763	.3442	-.1469	.1356	4.947
10	S95T003305 S	15.65	4.496	4.654	3.974	4.496	13.22
11	CCV	5.011	5.177	5.022	4.847	5.111	4.930
12	CCB	.0177	-.0061	-.0016	-.0090	.0313	.0005
13	S95T003306 L	9.029	7.337	.2603	-.1369	.3359	3.934
14	S95T003306	8.357	6.845	.2366	-.1221	.1411	3.810
15	S95T003306 D	8.348	6.841	.2947	-.0870	.1479	4.175
16	S95T003307 L	9.931	28.80	.3290	-.1857	.3783	4.440
17	S95T003307	9.149	26.59	.3018	-.1313	.1475	4.233
18	S95T003307 D	8.889	25.79	.2935	-.0988	.1368	3.839
19	ICSA	.0493	.0617	-.0247	-.0001	-.0060	.0112
20	ICSAB	.0521	1.032	-.0345	-.0027	-.0063	.0089
21	CCV 1	4.952	5.142	4.951	4.814	5.070	4.883
22	CCB 1	.0230	.0082	-.0046	-.0017	.0502	.0027

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.964	5.026	-.0237	4.827	4.939	9.510
2	ICB	-.0024	-.0004	.0088	.0000	.0277	-.0198
3	ICSA	-.0029	-.0030	-.0095	.0014	.0097	.1911
4	ICSAB	.0012	-.0030	.0026	.0012	.0175	.2024
5	PREPSTD TJ A	4.536	4.594	-.0165	4.496	4.401	8.891
6	PREPBLKTJA	-.0283	-.0004	.0137	.0006	.0186	-.1125
7	S95T003305 L	.0811	1.845	.0816	.0155	-.1820	.4611
8	S95T003305	-.0297	1.812	.0253	.0174	-.1905	.0186
9	S95T003305 D	-.0436	1.826	.0289	.0169	-.1786	-.0518
10	S95T003305 S	4.346	6.356	-.0041	4.305	4.061	8.516
11	CCV	5.041	5.101	-.0170	4.916	5.013	9.653
12	CCB	-.0123	-.0004	.0066	.0005	-.0066	-.0441
13	S95T003306 L	-.1038	1.577	.0631	.0156	.0076	-.3116
14	S95T003306	-.0432	1.519	.0181	.0148	-.1931	-.0430
15	S95T003306 D	-.0634	1.538	.0262	.0133	-.1680	-.1162
16	S95T003307 L	-.1731	1.481	.0964	.0183	-.3268	-.6184
17	S95T003307	-.0570	1.412	.0237	.0194	-.2449	-.0540
18	S95T003307 D	-.0809	1.562	.0225	.0194	-.1988	-.1285
19	ICSA	-.0016	-.0021	-.0013	.0014	.0335	.1668
20	ICSAB	-.0017	-.0022	-.0035	.0012	.0327	.1585
21	CCV 1	5.069	5.129	-.0236	4.927	5.014	9.692
22	CCB 1	-.0001	-.0004	.0071	.0005	.0128	-.0029

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.928	.0056	4.879	4.848
2	ICB	-.0006	-.0001	-.0000	.0001
3	ICSA	-.0012	.0085	-.0027	-.0028
4	ICSAB	.4616	.0088	.9494	-.0037
5	PREPSTD TJ A	4.479	.0030	4.337	4.491
6	PREPBLK TJ A	-.0037	-.0014	.0012	-.0042
7	S95T003305 L	.0505	.0069	.3929	.0105
8	S95T003305	.0195	.0006	.3628	.0030
9	S95T003305 D	.0179	.0000	.3580	-.0009
10	S95T003305 S	4.329	.0034	4.574	4.305
11	CCV	5.024	.0057	4.969	4.931
12	CCB	-.0017	-.0004	-.0010	-.0016
13	S95T003306 L	.0030	-.0030	1.293	.0020
14	S95T003306	.0132	-.0001	1.220	-.0001
15	S95T003306 D	.0078	-.0009	1.219	-.0006
16	S95T003307 L	-.0094	-.0068	3.507	-.0079
17	S95T003307	.0125	-.0003	3.238	-.0008
18	S95T003307 D	.0079	-.0012	3.135	-.0013
19	ICSA	-.0001	.0089	-.0023	-.0021
20	ICSAB	.4712	.0086	.9636	-.0026
21	CCV 1	5.006	.0054	4.924	4.933
22	CCB 1	.0002	.0000	.0005	.0006

80
1/31/96

LABCORE Data Entry Template for Worklist# 4486

Analyst: JK Sato Instrument: ICP01 Book# 498488

Method: LA-505-151/161 Rev/Mod B-C

Worklist Comment: ICP B-204 (ACID DIGEST)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPSTDARL		@ICP-A01	SOLID		
6	PREPBLKARL		@ICP-A01	SOLID		
7	SAMPLE	S95T002980 0 A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
8	DUP	S95T002980 0 A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T002980 0 A	@ICP-A01	SOLID		
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S95T003061 0 A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 4486

S Type	Sample#	R	A	Test	Matrix	Group#	Project
13 DUP	S95T003061	0	A	@ICP-A01	SOLID		
14 SAMPLE	S95T003062	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
15 DUP	S95T003062	0	A	@ICP-A01	SOLID		
16 SAMPLE	S95T003063	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
17 DUP	S95T003063	0	A	@ICP-A01	SOLID		
18 CCV				@ICP-QC	QC		
19 CCB				@ICP-QC	QC		
20 SAMPLE	S95T003064	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
21 DUP	S95T003064	0	A	@ICP-A01	SOLID		
22 SAMPLE	S95T003065	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 ,							

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 4486

S Type	Sample#	R A	Test	Matrix	Group#	Project
			MG-A-01	MN-A-01	MO-A-01	NA-A-01
			P-A-01	PB-A-01	S-A-01	SB-A-01
			SM-A-01	SR-A-01	TI-A-01	TL-A-01
			ZN-A-01	ZR-A-01	U-A-01	V-A-01
23 DUP	S95T003065	0 A	@ICP-A01	SOLID		
24 ICSA			@ICP-QC	QC		
25 ICSAB			@ICP-QC	QC		
26 CCV			@ICP-QC	QC		
27 CCB			@ICP-QC	QC		

Final page for worklist # 4486

Analyst Signature Date

Analyst Signature Date

Prep Std/L
Prep Std/L direct
S95T002980_L, 2.8 mL, DF 5
S95T002980 direct 1
S95T002980_D direct 1
S95T002980_S direct 1
S95T003041_L, 2.8 mL, DF 5
S95T003061 direct 1
S95T003061_D direct 1
S95T003061 1-24-96
S95T003062_L, 2.8 mL, DF 5
S95T003062 direct 1
S95T003062_D direct 1
S95T003063_L, 2.8 mL, DF 5
S95T003063 direct 1
S95T003063_D direct 1

S95T003044_L, 2.8 mL, DF 5
S95T003044 direct 1
S95T003044_D direct 1
S95T003065_L, 2.8 mL, DF 5 5-5-28, DF 10
S95T003065 direct 5-5 2
S95T003065_D direct 5-5 2

Data Entry Comments:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960124B	ICP2	01/24/96	13:24	DKS	Q	CONC
2	ICB	960124B	ICP2	01/24/96	13:38	DKS	Q	CONC
3	ICSA	960124B	ICP2	01/24/96	13:41	DKS	Q	CONC
4	ICSAB	960124B	ICP2	01/24/96	13:44	DKS	Q	CONC
5	PREPSTDARL	960124B	ICP2	01/24/96	13:49	DKS	S	CONC
6	PREPBLKARL	960124B	ICP2	01/24/96	13:53	DKS	S	CONC
7	S95T002980 L	960124B	ICP2	01/24/96	13:59	DKS	S	CONC
8	S95T002980-	960124B	ICP2	01/24/96	14:02	DKS	S	CONC
9	S95T002980 D	960124B	ICP2	01/24/96	14:06	DKS	S	CONC
10	S95T002980-S	960124B	ICP2	01/24/96	14:09	DKS	S	CONC
11	CCV	960124B	ICP2	01/24/96	14:14	DKS	Q	CONC
12	CCB	960124B	ICP2	01/24/96	14:17	DKS	Q	CONC
13	S95T003061 L	960124B	ICP2	01/24/96	14:20	DKS	S	CONC
14	S95T003061-	960124B	ICP2	01/24/96	14:23	DKS	S	CONC
15	S95T003061 D	960124B	ICP2	01/24/96	14:26	DKS	S	CONC
16	S95T003062-L	960124B	ICP2	01/24/96	14:30	DKS	S	CONC
17	S95T003062-	960124B	ICP2	01/24/96	14:34	DKS	S	CONC
18	S95T003062 D	960124B	ICP2	01/24/96	14:37	DKS	S	CONC
19	S95T003063-L	960124B	ICP2	01/24/96	14:40	DKS	S	CONC
20	S95T003063-	960124B	ICP2	01/24/96	14:44	DKS	S	CONC
21	S95T003063 D	960124B	ICP2	01/24/96	14:47	DKS	S	CONC
22	CCV 1	960124B	ICP2	01/24/96	14:51	DKS	Q	CONC
23	CCB-1	960124B	ICP2	01/24/96	14:55	DKS	Q	CONC
24	S95T003064 L	960124B	ICP2	01/24/96	14:58	DKS	S	CONC
25	S95T003064-	960124B	ICP2	01/24/96	15:01	DKS	S	CONC
26	S95T003064 D	960124B	ICP2	01/24/96	15:04	DKS	S	CONC
27	S95T003065-L	960124B	ICP2	01/24/96	15:13	DKS	S	CONC
28	S95T003065-	960124B	ICP2	01/24/96	15:16	DKS	S	CONC
29	S95T003065 D	960124B	ICP2	01/24/96	15:19	DKS	S	CONC
30	ICSA	960124B	ICP2	01/24/96	15:23	DKS	Q	CONC
31	ICSAB	960124B	ICP2	01/24/96	15:26	DKS	Q	CONC
32	CCV 2	960124B	ICP2	01/24/96	15:29	DKS	Q	CONC
33	CCB-2	960124B	ICP2	01/24/96	15:32	DKS	Q	CONC

01-24-96

B-204 S95T002980

S95T003061-S95T003065

Work/15/4 4486

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 908 TO 913.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.967	4.853	5.147	4.865	4.927	5.140
2	ICB	.0003	.0045	-.0001	.0000	.0000	.0000
3	ICSA	.0000	234.1	-.0394	.0055	.0031	.0002
4	ICSAB	.9638	234.9	-.0344	.0017	.4757	.4676
5	PREPSTDARL	.9109	4.729	4.609	5.403	4.506	4.910
6	PREPBLKARL	-.0007	.0973	-.0183	.3412	.0004	.0002
7	S95T002980 L	.0320	1.746	-.0339	.5478	8.570	.0001
8	S95T002980-	.0292	1.616	-.0130	.5090	8.159	-.0001
9	S95T002980 D	.0205	1.069	-.0089	.4902	5.314	-.0001
10	S95T002980-S	.8024	4.906	4.063	4.434	7.162	4.678
11	CCV	5.104	4.936	5.251	4.875	5.063	5.211
12	CCB	.0006	.0014	-.0122	.0079	.0001	.0000
13	S95T003061 L	.0122	.2836	-.0223	.3718	6.265	-.0000
14	S95T003061-	.0128	.2663	.0028	.3370	5.993	-.0001
15	S95T003061 D	.0156	.4218	.0094	.5489	7.816	-.0003
16	S95T003062-L	.0139	.2435	-.0425	.5152	.8264	-.0010
17	S95T003062-	.0154	.2487	.0033	.4666	.7834	-.0001
18	S95T003062 D	.0154	.2498	.0068	.5048	.7554	-.0002
19	S95T003063-L	.0112	.3278	-.0425	.5757	2.308	-.0004
20	S95T003063-	.0121	.3351	.0061	.5071	2.186	-.0002
21	S95T003063 D	.0120	.3211	-.0004	.5092	2.157	-.0001
22	CCV 1	5.122	4.986	5.260	4.921	5.077	5.269
23	CCB-1	.0005	-.0004	-.0155	.0018	-.0001	.0000
24	S95T003064 L	.0197	.2124	-.0805	.4936	.0568	-.0004
25	S95T003064-	.0164	.2011	.0119	.4366	.0522	-.0000
26	S95T003064 D	.0169	.2227	.0182	.5080	.0578	-.0003
27	S95T003065-L	.0046	.2843	.0530	.5888	.0700	-.0004
28	S95T003065-	.0173	.2640	-.0067	.5607	.0697	-.0001
29	S95T003065 D	.0137	.2165	-.0019	.5459	.0596	-.0005
30	ICSA	.0003	239.8	-.0176	-.0001	.0033	.0001
31	ICSAB	.9793	237.5	-.0632	.0040	.4803	.4729
32	CCV 2	5.082	4.923	5.215	4.838	5.027	5.184
33	CCB-2	-.0005	.0008	-.0062	.0013	-.0000	-.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.019	4.939	5.048	5.106	4.907	5.094
2	ICB	.0108	.0021	.0017	.0012	-.0022	-.0020
3	ICSA	-.0229	238.6	.0023	.0142	.0006	-.0041
4	ICSAB	-.0018	242.4	.9474	.0124	.4674	.4734
5	PREPSTDARL	4.489	4.650	4.510	4.681	4.585	4.618
6	PREPBLKARL	.1098	.0405	-.0002	-.0028	-.0019	.0031
7	S95T002980 L	171.5	8.989	.0073	.0970	.0241	4.728
8	S95T002980-	154.4	8.120	.0060	.0844	.0164	4.294
9	S95T002980 D	104.8	5.655	.0039	.0606	.0100	2.991
10	S95T002980-S	73.55	8.227	3.955	4.307	4.038	6.206
11	CCV	5.220	5.165	5.184	5.207	5.054	5.251
12	CCB	.0114	.0034	.0010	.0047	.0017	-.0003
13	S95T003061 L	220.6	2.082	.0058	.2052	.0063	8.121
14	S95T003061-	201.7	1.893	.0044	.1848	.0084	7.451
15	S95T003061 D	269.0	1.864	.0053	.2526	.0091	9.960
16	S95T003062-L	243.5	1.770	.0081	.2860	.0056	11.13

Analysis Report

Averages

Wed 01-24-96 03:37:40 PM

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
17	S95T003062	222.3	1.591	.0052	.2632	.0100	10.15
18	S95T003062_D	229.3	1.515	.0042	.2684	.0121	10.45
19	S95T003063-L	277.2	2.036	.0085	.3111	.0123	12.50
20	S95T003063-	249.8	1.812	.0052	.2717	.0127	11.32
21	S95T003063_D	249.5	1.811	.0054	.2677	.0126	11.29
22	CCV_1	5.209	5.140	5.189	5.203	5.079	5.258
23	CCB-1	-.0035	.0012	.0009	.0031	.0004	-.0017
24	S95T003064_L	283.0	1.754	.0127	.2982	.0030	10.77
25	S95T003064-	251.4	1.506	.0039	.2646	.0069	9.717
26	S95T003064_D	277.7	1.620	.0043	.3099	.0098	10.75
27	S95T003065-L	297.9	1.837	.0210	.2983	.0140	13.87
28	S95T003065-	288.9	1.779	.0064	.2847	.0136	13.52
29	S95T003065_D	251.0	1.385	.0043	.2334	.0115	12.19
30	ICSA	-.0102	247.7	.0026	.0183	-.0005	-.0049
31	ICSAB	-.0174	247.6	.9593	.0234	.4724	.4836
32	CCV_2	5.078	5.131	5.134	5.181	5.010	5.215
33	CCB-2	.0272	.0031	.0012	.0059	.0007	-.0010

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	4.887	-.0034	5.057	4.979	4.992	4.972
2	ICB	-.0009	.0003	.0000	-.0381	-.0001	.0009
3	ICSA	-.0085	-.0423	92.67	-.1868	-.0051	.0030
4	ICSAB	.4654	-.0451	93.18	.0522	-.0048	.9352
5	PREPSTDARL	4.497	-.0036	4.559	4.520	4.601	4.588
6	PREPBKLARL	.0095	-.0008	.0175	.0690	.0184	.0001
7	S95T002980_L	.1556	.0138	35.62	21.56	31.60	.3900
8	S95T002980-	.1418	.0128	32.42	20.49	29.54	.3692
9	S95T002980_D	.0305	.0085	22.03	15.81	20.35	.2825
10	S95T002980-S	4.037	.0026	16.84	17.09	18.64	4.351
11	CCV	4.929	-.0024	5.187	4.894	5.088	4.971
12	CCB	-.0004	.0007	-.0003	-.0216	.0011	.0013
13	S95T003061_L	.0145	.0134	10.55	20.89	39.17	.0918
14	S95T003061-	.0132	.0122	9.722	20.25	36.93	.0878
15	S95T003061_D	.0060	.0170	13.11	25.28	49.80	.1104
16	S95T003062-L	.0561	.0195	13.18	23.04	49.48	.0679
17	S95T003062-	.0544	.0156	12.07	22.35	46.61	.0602
18	S95T003062_D	.0458	.0157	12.37	23.33	48.24	.0672
19	S95T003063-L	.0164	.0177	58.04	25.63	53.77	.0998
20	S95T003063-	.0156	.0133	52.55	25.02	50.73	.0907
21	S95T003063_D	.0154	.0137	52.41	24.87	50.09	.0911
22	CCV_1	4.977	-.0029	5.212	4.882	5.085	5.062
23	CCB-1	-.0009	.0006	.0002	-.1399	-.0001	.0008
24	S95T003064_L	.4182	.0161	14.04	23.36	50.39	.0791
25	S95T003064-	.3816	.0156	12.66	22.17	46.36	.0708
26	S95T003064_D	.4066	.0180	13.95	23.89	51.13	.0775
27	S95T003065-L	.0925	.0175	16.98	23.46	50.62	.2452
28	S95T003065-	.0938	.0161	16.59	24.30	50.09	.2413
29	S95T003065_D	.0736	.0143	14.58	22.80	43.49	.2144
30	ICSA	-.0088	-.0529	95.45	.1114	-.0040	.0040
31	ICSAB	.4685	-.0524	94.62	.0988	-.0034	.9404
32	CCV_2	4.909	-.0024	5.154	4.885	5.063	4.991
33	CCB-2	-.0007	.0008	.0003	-.0318	.0005	.0012

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.846	4.956	4.921	4.927	5.036	5.008
2	ICB	.0063	.0001	.0003	.0083	.0011	.0036
3	ICSA	234.2	.0057	.0151	189.5	.0136	.0072
4	ICSAB	235.0	.4489	.0126	190.1	.0110	.9262
5	PREPSTDARL	4.398	4.492	4.597	5.588	4.505	4.588
6	PREPBLKARL	.0038	.0250	.0005	.6479	.0002	.0027
7	S95T002980 L	1.391	33.92	.0156	84.97	.0228	.7764
8	S95T002980	1.288	33.62	.0128	79.34	.0220	.6837
9	S95T002980 D	.8668	22.29	.0110	62.43	.0144	.4776
10	S95T002980 S	4.537	19.16	4.003	56.40	4.123	4.350
11	CCV	4.927	5.114	5.058	4.966	5.129	5.154
12	CCB	.0059	.0003	.0016	.0095	.0010	.0024
13	S95T003061 L	.2521	35.85	.0254	99.64	.0278	.4683
14	S95T003061	.2580	35.98	.0136	94.32	.0228	.4224
15	S95T003061 D	.3694	51.06	.0148	117.5	.0320	.5520
16	S95T003062 L	.3402	57.00	.0299	109.5	.0390	.8275
17	S95T003062	.3920	59.88	.0149	103.3	.0334	.7510
18	S95T003062 D	.3943	62.53	.0131	109.3	.0327	.7738
19	S95T003063 L	.3244	63.86	.0279	123.8	.0417	.6746
20	S95T003063	.3506	67.64	.0194	116.6	.0336	.6392
21	S95T003063 D	.3462	67.75	.0225	116.0	.0365	.6442
22	CCV 1	4.977	5.151	5.083	5.040	5.159	5.166
23	CCB 1	.0032	.0003	.0005	.0066	.0011	.0036
24	S95T003064 L	.2234	68.06	.0183	112.0	.0357	.6786
25	S95T003064	.2972	73.04	.0147	102.8	.0357	.5769
26	S95T003064 D	.3425	83.82	.0158	111.7	.0416	.6399
27	S95T003065 L	.2344	78.03	.0237	119.9	.0327	1.024
28	S95T003065	.3283	84.47	.0164	119.0	.0404	.9516
29	S95T003065 D	.2611	73.07	.0117	108.6	.0336	.8275
30	ICSA	240.0	.0051	.0149	193.1	.0119	.0034
31	ICSAB	238.1	.4554	.0169	191.6	.0138	.9263
32	CCV 2	4.899	5.032	5.026	4.967	5.129	5.154
33	CCB 2	.0040	.0003	.0016	.0112	.0010	.0052

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.947	5.072	4.851	4.725	4.932	4.866
2	ICB	.0096	.0038	.0049	.0043	.0279	.0038
3	ICSA	.0420	.0484	.0301	.0039	.0277	.0201
4	ICSAB	.0119	1.065	.0173	.0120	.0080	.0198
5	PREPSTDARL	4.561	4.485	4.497	4.335	4.482	9.994
6	PREPBLKARL	.0261	.0079	.0431	.0113	.0165	.0383
7	S95T002980 L	13.92	2.514	.6536	.1342	.1453	8.654
8	S95T002980	12.57	2.208	.5754	.0800	.0627	7.867
9	S95T002980 D	8.797	1.529	.4520	.0557	.0359	5.638
10	S95T002980 S	9.849	4.950	4.265	3.736	4.048	12.78
11	CCV	4.993	5.282	4.952	4.834	5.036	4.985
12	CCB	.0192	.0020	.0011	.0043	.0334	.0064
13	S95T003061 L	11.64	.0336	.5865	.1082	.1740	5.044
14	S95T003061	10.88	.0216	.5475	.1021	.0804	4.631
15	S95T003061 D	14.53	.0615	.6122	.1260	.0953	7.421
16	S95T003062 L	11.95	.1740	.5597	.1759	.1764	6.922

Analysis Report

Averages

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#	Sample Name	P	Pb	S	Sb	Se	Si
17	S95T003062	11.12	-.1438	.5086	-.1158	.0567	6.332
18	S95T003062_D	11.36	-.1441	.5421	-.1149	.0825	6.834
19	S95T003063-L	14.15	-.0255	.6360	-.1982	.1746	8.423
20	S95T003063-	12.85	.0315	.5730	-.1163	.0850	7.599
21	S95T003063_D	12.88	.0270	.6046	-.1206	.1020	7.788
22	CCV_1	5.094	5.270	5.016	4.852	5.037	5.021
23	CCB-1	.0075	.0050	-.0080	-.0046	.0235	.0061
24	S95T003064_L	11.60	.1975	.5926	-.2054	.1706	7.027
25	S95T003064-	10.52	.1590	.5452	-.1304	.0859	6.397
26	S95T003064_D	11.49	.1995	.5519	-.1409	.1002	7.502
27	S95T003065-L	12.39	.1182	.6102	-.1810	.5211	8.408
28	S95T003065-	12.14	.0859	.5134	-.1626	.1112	8.223
29	S95T003065_D	10.95	.0446	.4616	-.1497	.1331	7.310
30	ICSA	.0309	.0398	-.0244	.0042	.0071	.0215
31	ICSAB	.0301	1.042	-.0233	-.0158	-.0172	.0244
32	CCV_2	5.013	5.213	4.935	4.802	4.996	4.960
33	CCB-2	.0156	-.0076	.0020	-.0032	.0342	.0082
<hr/>							
#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.861	4.908	-.0084	4.728	4.817	9.407
2	ICB	.0062	.0000	.0012	.0005	-.0049	-.0211
3	ICSA	.0081	-.0032	-.0208	.0016	.0117	.1290
4	ICSAB	.0139	-.0034	-.0108	.0014	.0328	.1240
5	PREPSTDARL	4.472	4.535	-.0012	4.444	4.376	8.873
6	PREPBLKARL	-.0116	.0000	-.0027	.0003	.0108	-.0834
7	S95T002980_L	-.0170	2.674	.0062	.1456	-.2473	1.251
8	S95T002980-	-.0231	2.504	.0033	.1343	-.1410	1.344
9	S95T002980_D	-.0137	1.714	-.0024	.0768	-.0946	.9445
10	S95T002980-S	4.063	5.134	-.0098	4.025	3.826	8.814
11	CCV	4.941	5.004	-.0038	4.844	5.004	9.551
12	CCB	.0122	.0000	.0001	.0003	-.0021	.0096
13	S95T003061_L	-.0375	1.609	.0312	.0138	-.2384	-.1098
14	S95T003061-	-.0278	1.521	.0076	.0148	-.1107	.0548
15	S95T003061_D	-.0232	2.096	.0062	.0220	-.1760	.1511
16	S95T003062-L	.0263	1.767	.0153	.0112	-.3203	.0234
17	S95T003062-	-.0288	1.665	.0063	.0109	-.1535	-.0272
18	S95T003062_D	-.0306	1.689	.0104	.0114	-.1427	-.0291
19	S95T003063-L	.0210	2.588	-.0069	.0123	-.1622	.2630
20	S95T003063-	-.0247	2.439	.0067	.0125	-.1842	.2052
21	S95T003063_D	-.0260	2.412	.0068	.0123	-.1578	.2077
22	CCV_1	4.961	5.028	-.0059	4.860	4.977	9.604
23	CCB-1	.0074	.0000	.0002	-.0007	.0057	-.0039
24	S95T003064_L	-.0260	2.760	.0131	.0088	-.3248	-.1886
25	S95T003064-	-.0242	2.542	.0046	.0102	-.1409	-.0209
26	S95T003064_D	-.0140	2.773	.0061	.0114	-.1656	.0275
27	S95T003065-L	-.0271	3.877	.0079	.0200	-.2780	-.2777
28	S95T003065-	-.0366	3.844	.0064	.0183	-.1639	-.0625
29	S95T003065_D	-.0208	3.372	-.0022	.0168	-.2348	-.0519
30	ICSA	.0171	-.0020	-.0061	.0017	-.0106	.1288
31	ICSAB	.0204	-.0020	-.0113	.0019	.0455	.1379
32	CCV_2	4.927	4.995	-.0033	4.806	4.949	9.527
33	CCB-2	.0135	.0000	-.0019	-.0005	-.0137	.0084

Analysis Report

Averages

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#	Sample Name	V	Y	Zn	Zr
1	ICV	4.846	.0060	4.841	4.769
2	ICB	.0016	.0005	-.0006	-.0001
3	ICSA	.0033	.0094	-.0044	.0014
4	ICSAB	.4634	.0098	.9475	.0005
5	PREPSTDARL	4.475	.0043	4.399	4.473
6	PREPBLKARL	-.0002	-.0004	-.0002	.0003
7	S95T002980 L	.0181	.0022	.7167	.0179
8	S95T002980-	.0110	.0012	.6436	.0146
9	S95T002980 D	.0083	.0009	.4003	.0110
10	S95T002980-S	3.994	.0039	4.096	4.001
11	CCV	4.979	.0067	4.979	4.882
12	CCB	.0029	.0007	.0001	.0021
13	S95T003061 L	.0145	.0012	.0835	.0026
14	S95T003061-	.0080	.0002	.0821	.0032
15	S95T003061 D	.0135	.0008	.0895	.0066
16	S95T003062-L	.0300	.0035	.0539	.0143
17	S95T003062-	.0130	.0004	.0513	.0032
18	S95T003062 D	.0142	.0004	.0525	.0029
19	S95T003063-L	.0336	.0042	.1279	.0193
20	S95T003063-	.0169	.0009	.1192	.0056
21	S95T003063 D	.0185	.0009	.1194	.0056
22	CCV 1	5.005	.0067	4.998	4.893
23	CCB-1	.0023	.0006	-.0003	.0014
24	S95T003064 L	.0305	.0013	.0880	.0057
25	S95T003064-	.0200	.0005	.0845	.0033
26	S95T003064 D	.0247	.0012	.0552	.0060
27	S95T003065-L	.0385	.0040	.0971	.0061
28	S95T003065-	.0279	.0007	.0700	.0067
29	S95T003065 D	.0261	.0010	.0489	.0067
30	ICSA	.0042	.0101	-.0045	.0015
31	ICSAB	.4729	.0103	.9637	.0025
32	CCV 2	4.958	.0068	4.948	4.847
33	CCB-2	.0034	.0008	-.0004	.0023

JK L.A.
01-24-96

LABCORE Data Entry Template for Worklist# 4487

Analyst: JK J. 1/6 Instrument: ICP01 Book# 498483

Method: LA-505-151/161 Rev/Mod B-0

Worklist Comment: ICP B-204 (ACID DIGEST)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPSTDARL		@ICP-A01	SOLID		
6	PREPBLKARL		@ICP-A01	SOLID		
7	SAMPLE	S95T003066 0 A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
8	DUP	S95T003066 0 A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003066 0 A	@ICP-A01	SOLID		
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S95T003067 0 A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 4487

S Type	Sample#	R	A	Test	Matrix	Group#	Project
13 DUP CCV-1	S95T003067	0	A	@ICP-A01	SOLID		
14 SAMPLE CCB-1	S95T003068	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
15 DUP	S95T003068	0	A	@ICP-A01	SOLID		
16 SAMPLE	S95T003069	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
17 DUP	S95T003069	0	A	@ICP-A01	SOLID		
18 CCV				@ICP-QC	QC		
19 CCB				@ICP-QC	QC		
20 SAMPLE	S95T003070	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
21 DUP	S95T003070	0	A	@ICP-A01	SOLID		
22 SAMPLE	S95T003071	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 ,							

Data Entry Comments:

WHC-SD-WM-DP-160, REV. /
LABCORE Data Entry Template for Worklist# 4487

S Type	Sample#	R A	Test	Matrix	Group#	Project
			MG-A-01	MN-A-01	MO-A-01	NA-A-01
			P-A-01	PB-A-01	S-A-01	SB-A-01
			SM-A-01	SR-A-01	TI-A-01	TL-A-01
			ZN-A-01	ZR-A-01	U-A-01	V-A-01
23 DUP	S95T003071	0 A	@ICP-A01	SOLID		
24 ICSA			@ICP-QC	QC		
25 ICSAB			@ICP-QC	QC		
26 CCV			@ICP-QC	QC		
27 CCB			@ICP-QC	QC		

Final page for worklist # 4487

Analyst Signature Date

JK *01-24-96*
Prep HJTJ 2.5 ml Wt 10 + 2 in 50 ml
Prep b/KJTJ direct

S95T003066-L, 2.8 ml, DF 5
S95T003066 direct 1
S95T003066-D direct 1
S95T003066-S direct 1
S95T003067-L, 2.8 ml, DF 5, 5-5-2.8, DF 10
S95T003067 direct 5-5 2
S95T003067-D direct 5-5 2

S95T003068-L, 2.8 ml, DF 5
S95T003068 direct 1
S95T003068-D direct 1

S95T003069-L, 2.8 ml, DF 5, 5-5-2.8, DF 10
S95T003069 direct 5-5 2
S95T003069-D direct 5-5 2

Reviewed by:
Sam M. Perry 1-25-96
Analyst Signature Date

JK *01-24-96*
S95T003070-L, 2.8 ml, DF 5, 5-5-2.8, DF 10
S95T003070 direct 5-5 2
S95T003070-D direct 5-5 2
S95T003071-L, 2.8 ml, DF 5
S95T003071 direct 1
S95T003071-D direct 1

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960124C	ICP2	01/24/96	17:10	DKS	Q	CONC
2	ICB	960124C	ICP2	01/24/96	17:14	DKS	Q	CONC
3	ICSA	960124C	ICP2	01/24/96	17:17	DKS	Q	CONC
4	ICSAB	960124C	ICP2	01/24/96	17:20	DKS	Q	CONC
5	PREPSTDTJA	960124C	ICP2	01/24/96	17:24	DKS	S	CONC
6	PREPBLKTJA	960124C	ICP2	01/24/96	17:28	DKS	S	CONC
7	S95T003066 L	960124C	ICP2	01/24/96	17:31	DKS	S	CONC
8	S95T003066	960124C	ICP2	01/24/96	17:35	DKS	S	CONC
9	S95T003066 D	960124C	ICP2	01/24/96	17:38	DKS	S	CONC
10	S95T003066 S	960124C	ICP2	01/24/96	17:41	DKS	S	CONC
11	CCV	960124C	ICP2	01/24/96	17:45	DKS	Q	CONC
12	CCB	960124C	ICP2	01/24/96	17:48	DKS	Q	CONC
13	S95T003067 L	960124C	ICP2	01/24/96	17:51	DKS	S	CONC
14	S95T003067	960124C	ICP2	01/24/96	17:54	DKS	S	CONC
15	S95T003067 L	960124C	ICP2	01/24/96	18:11	DKS	S	CONC
16	S95T003067	960124C	ICP2	01/24/96	18:14	DKS	S	CONC
17	S95T003067 D	960124C	ICP2	01/24/96	18:17	DKS	S	CONC
18	CCV 1	960124C	ICP2	01/24/96	18:22	DKS	Q	CONC
19	CCB 1	960124C	ICP2	01/24/96	18:25	DKS	Q	CONC
20	S95T003068 L	960124C	ICP2	01/24/96	18:28	DKS	S	CONC
21	S95T003068	960124C	ICP2	01/24/96	18:31	DKS	S	CONC
22	S95T003068 D	960124C	ICP2	01/24/96	18:33	DKS	S	CONC
23	S95T003069 L	960124C	ICP2	01/24/96	18:36	DKS	S	CONC
24	S95T003069	960124C	ICP2	01/24/96	18:46	DKS	S	CONC
25	S95T003069	960124C	ICP2	01/24/96	18:49	DKS	S	CONC
26	S95T003069 D	960124C	ICP2	01/24/96	18:52	DKS	S	CONC
27	CCV 2	960124C	ICP2	01/24/96	19:01	DKS	Q	CONC
28	CCB 2	960124C	ICP2	01/24/96	19:04	DKS	Q	CONC
29	S95T003070 L	960124C	ICP2	01/24/96	19:24	DKS	S	CONC
30	S95T003070	960124C	ICP2	01/24/96	19:27	DKS	S	CONC
31	S95T003070 D	960124C	ICP2	01/24/96	19:30	DKS	S	CONC
32	S95T003071 L	960124C	ICP2	01/24/96	19:34	DKS	S	CONC
33	S95T003071	960124C	ICP2	01/24/96	19:37	DKS	S	CONC
34	S95T003071 D	960124C	ICP2	01/24/96	19:40	DKS	S	CONC
35	ICSA	960124C	ICP2	01/24/96	19:42	DKS	Q	CONC
36	ICSAB	960124C	ICP2	01/24/96	19:46	DKS	Q	CONC
37	CCV 3	960124C	ICP2	01/24/96	19:49	DKS	Q	CONC
38	CCB 3	960124C	ICP2	01/24/96	19:53	DKS	Q	CONC

JK Lido

01-24-96

B.204 S95T003066-S95T003071

Work list # 4487

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 917 TO 923.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.056	4.881	5.169	4.787	4.972	5.140
2	ICB	.0000	-.0076	-.0061	.0057	-.0000	-.0001
3	ICSA	.0006	234.9	-.0853	.0014	.0033	.0000
4	ICSAB	.9676	235.1	-.0286	.0024	.4733	.4695
5	PREPSTD TJ A	.1601	4.983	4.927	5.267	4.772	5.014
6	PREPBLKTJA	-.0009	.1202	.0022	.6216	.0004	-.0001
7	S95T003066 L	.0159	.2849	.0027	1.008	.0874	-.0008
8	S95T003066	.0181	.2870	.0012	.9307	.0831	-.0003
9	S95T003066 D	.0191	.3105	.0211	1.036	.0936	-.0004
10	S95T003066 S	.8378	4.548	4.248	5.554	4.158	4.660
11	CCV	5.106	4.904	5.197	4.822	5.022	5.181
12	CCB	.0001	-.0087	.0090	.0070	-.0001	-.0001
13	S95T003067 L <i>1-24-96</i>	.0153	.2552	-.0387	.7694	.1942	-.0013
14	S95T003067 <i>1-24-96</i>	.0167	.2544	.0057	.6352	.1751	-.0004
15	S95T003067 L	.0172	.2230	-.0760	.7761	.1974	-.0023
16	S95T003067	.0155	.2706	-.0213	.6986	.1860	-.0006
17	S95T003067 D	.0212	.4155	-.0271	1.427	.2591	-.0006
18	CCV 1	5.124	4.914	5.224	4.842	4.988	5.204
19	CCB-1	.0005	-.0061	-.0150	.0048	.0001	-.0001
20	S95T003068 L	.0132	.2626	-.0700	.7778	.2374	-.0013
21	S95T003068	.0179	.2536	.0021	.6544	.2169	-.0004
22	S95T003068 D	.0162	.2646	.0004	.6602	.2198	-.0004
23	S95T003069 L <i>1-24-96</i>	.0137	.3550	-.0512	.7694	.2417	-.0013
24	S95T003069 L	.0149	.2782	.0583	.7960	.2436	-.0039
25	S95T003069	.0184	.3602	.0006	.7199	.2306	-.0007
26	S95T003069 D	.0202	.3671	-.0086	.8818	.2384	-.0008
27	CCV 2	5.127	4.894	5.181	4.780	4.969	5.158
28	CCB-2	-.0012	-.0122	-.0076	.0083	.0001	-.0002
29	S95T003070 L	.0129	.3103	-.0619	.8150	.2369	-.0027
30	S95T003070	.0238	.3663	-.0133	.7443	.2267	-.0008
31	S95T003070 D	.0239	.2889	-.0034	.5138	.2274	-.0006
32	S95T003071 L	.0221	.2133	-.0675	.5377	.0864	-.0010
33	S95T003071	.0191	.2130	.0103	.4942	.0788	-.0003
34	S95T003071 D	.0160	.1877	-.0008	.4997	.0905	-.0005
35	ICSA	-.0013	244.2	-.0094	.0042	.0034	-.0003
36	ICSAB	.9911	239.0	-.0421	.0040	.4743	.4762
37	CCV 3	5.238	4.996	5.281	4.877	5.162	5.260
38	CCB-3	-.0002	-.0114	-.0030	.0035	.0000	-.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.092	5.091	5.111	5.160	4.990	5.195
2	ICB	.0137	-.0006	.0015	.0016	-.0017	-.0012
3	ICSA	.0481	242.2	.0022	.0183	.0002	-.0041
4	ICSAB	-.0455	244.0	.9546	.0043	.4660	.4737
5	PREPSTD TJ A	4.821	4.934	4.878	4.967	4.913	4.966
6	PREPBLKTJA	.0083	.0465	.0009	.0086	.0007	.0019
7	S95T003066 L	203.1	1.158	.0117	.2350	.0038	12.04
8	S95T003066	189.0	1.076	.0041	.2060	.0096	11.20
9	S95T003066 D	214.7	1.200	.0037	.2202	.0105	12.94
10	S95T003066 S	206.1	5.282	4.093	4.444	4.136	16.20
11	CCV	5.117	5.184	5.176	5.193	5.047	5.256

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
12	CCB	.0183	.0007	.0011	.0040	-.0004	-.0020
13	S95T003067-L 124-94	214.7	1.302	.0084	.2367	.0010	13.73
14	S95T003067-L 124-94	185.7	1.118	.0046	.2054	.0104	12.00
15	S95T003067 L	221.7	1.351	.0073	.2904	.0182	14.14
16	S95T003067	203.6	1.231	.0060	.2127	.0073	13.06
17	S95T003067 D	286.5	1.851	.0084	.3039	.0085	18.28
18	CCV 1	5.175	5.212	5.208	5.168	5.071	5.277
19	CCB-1	-.0001	.0016	.0018	.0048	-.0005	-.0011
20	S95T003068 L	282.5	1.403	.0028	.2063	.0062	20.85
21	S95T003068	248.6	1.247	.0035	.2034	.0131	18.43
22	S95T003068 D	251.7	1.269	.0039	.2046	.0128	18.72
23	S95T003069-L 124-94	295.4	1.599	.0152	.2726	.0142	23.08
24	S95T003069-L	302.5	1.666	.0169	.3428	.0105	23.69
25	S95T003069	276.5	1.517	.0071	.2628	.0168	21.79
26	S95T003069 D	296.9	2.134	.0056	.2757	.0131	22.38
27	CCV 2	5.190	5.250	5.212	5.150	5.083	5.298
28	CCB-2	.0052	.0014	.0011	.0029	-.0013	-.0014
29	S95T003070 L	361.8	1.525	.0080	.2996	.0062	24.30
30	S95T003070	338.6	1.409	.0046	.3010	.0150	22.80
31	S95T003070 D	343.7	1.410	.0083	.2922	.0193	22.95
32	S95T003071-L	219.0	1.400	.0092	.1556	.0156	18.16
33	S95T003071	191.0	1.224	.0031	.1236	.0104	16.02
34	S95T003071 D	185.3	1.379	.0032	.1320	.0111	14.98
35	ICSA	.0220	261.6	.0021	.0106	-.0009	-.0058
36	ICSAB	-.0063	253.0	.9803	.0167	.4816	.4872
37	CCV 3	5.245	5.366	5.323	5.338	5.195	5.406
38	CCB-3	.0242	-.0011	.0003	.0017	-.0013	-.0017

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	4.851	-.0027	5.144	5.054	5.057	4.919
2	ICB	-.0013	.0011	-.0006	.0738	.0003	.0018
3	ICSA	-.0086	-.0501	93.55	.0693	-.0039	.0033
4	ICSAB	.4638	-.0500	93.75	.1300	-.0046	.9362
5	PREPSTDTJA	4.697	-.0028	4.877	4.644	4.891	4.726
6	PREPBLKTJA	.0011	.0004	.0756	.0208	.0005	.0011
7	S95T003066 L	.0200	.0203	12.17	22.68	41.50	.1820
8	S95T003066	.0211	.0137	11.37	21.27	39.56	.1681
9	S95T003066 D	.0139	.0162	12.91	24.97	44.56	.1766
10	S95T003066 S	4.044	.0113	16.22	27.86	45.89	4.269
11	CCV	4.875	-.0022	5.192	4.929	5.067	4.923
12	CCB	-.0014	.0016	-.0007	-.0355	.0002	.0017
13	S95T003067-L 124-94	.0218	.0189	13.54	22.76	49.03	.1422
14	S95T003067-L 124-94	.0191	.0139	11.99	20.47	44.32	.1248
15	S95T003067 L	.0251	.0259	13.93	23.53	49.80	.1528
16	S95T003067	.0213	.0153	12.92	22.05	47.09	.1331
17	S95T003067 D	.0148	.0239	18.23	30.91	68.21	.1864
18	CCV 1	4.873	-.0021	5.209	4.844	5.051	4.916
19	CCB-1	-.0007	.0015	-.0005	-.1106	.0006	.0019
20	S95T003068 L	.0085	.0198	18.50	26.35	50.11	.1475
21	S95T003068	.0103	.0145	16.41	24.71	45.59	.1348
22	S95T003068 D	.0100	.0148	16.66	24.82	46.18	.1347
23	S95T003069-L 124-94	.0055	.0250	19.47	27.00	59.36	.1677

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#	Sample Name	Cu	Eu	Fe	K	La	Li
24	S95T003069 L	.0152	.0406	19.90	28.55	59.91	.1846
25	S95T003069-	.0102	.0205	18.36	27.01	56.70	.1533
26	S95T003069_D	.0198	.0232	19.97	28.64	59.04	.1953
27	CCV 2	4.817	-.0013	5.212	4.952	5.036	4.837
28	CCB-2	-.0005	.0026	-.0008	-.1220	.0005	.0029
29	S95T003070 L	.0041	.0370	24.11	36.59	75.63	.3004
30	S95T003070-	.0135	.0249	22.61	35.28	72.45	.2795
31	S95T003070_D	.0067	.0238	22.33	34.72	69.17	.2829
32	S95T003071-L	.0070	.0171	14.87	26.90	40.41	.2001
33	S95T003071-	.0092	.0118	13.14	24.65	36.80	.1777
34	S95T003071_D	.0064	.0125	12.61	22.26	36.43	.1662
35	ICSA	-.0108	-.0727	98.64	-.0969	-.0043	.0058
36	ICSAB	.4645	-.0608	95.98	.1674	-.0046	.9362
37	CCV 3	4.959	-.0017	5.326	4.895	5.248	4.975
38	CCB-3	-.0011	.0023	-.0005	-.1182	-.0004	.0023

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.851	4.983	5.007	4.947	5.115	5.095
2	ICB	-.0095	.0003	-.0002	.0132	.0019	.0050
3	ICSA	235.2	-.0058	-.0117	190.2	.0125	-.0002
4	ICSAB	235.6	.4456	-.0160	190.7	.0121	.9220
5	PREPSTD TJ A	4.676	4.791	4.871	5.566	4.773	4.942
6	PREPBLKTJA	.0050	.0009	-.0000	.6980	.0033	.0020
7	S95T003066 L	.1578	60.98	-.0154	107.6	.0415	.6991
8	S95T003066-	.2196	67.03	-.0100	102.5	.0291	.6452
9	S95T003066_D	.2574	79.19	-.0125	119.2	.0303	.7409
10	S95T003066-S	4.187	80.01	4.130	119.1	4.108	4.811
11	CCV	4.881	5.122	5.061	4.949	5.128	5.172
12	CCB	-.0097	.0008	.0007	.0178	.0030	.0090
13	S95T003067 L JK 1-24-96	.2214	58.94	-.0046	110.0	.0347	.7843
14	S95T003067- JK 1-24-96	.2475	59.36	-.0089	99.01	.0273	.6736
15	S95T003067 L	.2485	59.44	-.0200	112.6	.0551	.8313
16	S95T003067-	.2382	59.10	-.0182	106.0	.0297	.7488
17	S95T003067_D	.2499	88.00	-.0135	145.4	.0346	1.066
18	CCV 1	4.913	5.106	5.081	4.942	5.110	5.165
19	CCB-1	-.0040	.0007	.0004	.0161	.0005	.0015
20	S95T003068 L	.2042	69.22	-.0136	130.6	.0265	.9200
21	S95T003068-	.2656	72.94	-.0133	119.6	.0315	.8116
22	S95T003068_D	.2736	74.78	-.0147	120.4	.0289	.8298
23	S95T003069 L JK 1-24-96	.1190	79.21	-.0136	135.7	.0324	1.020
24	S95T003069-L	.1222	78.60	-.0268	137.4	.0792	.9864
25	S95T003069-	.1896	79.73	-.0127	129.3	.0366	.9123
26	S95T003069_D	.2659	88.10	-.0192	134.7	.0381	1.035
27	CCV 2	4.880	5.075	5.088	4.914	5.088	5.199
28	CCB-2	-.0099	.0008	.0015	.0269	.0002	.0039
29	S95T003070 L	.1743	94.79	-.0289	173.0	.0451	1.283
30	S95T003070-	.2572	100.7	-.0243	164.7	.0396	1.229
31	S95T003070_D	.2814	102.6	-.0153	162.2	.0373	1.223
32	S95T003071-L	.1428	58.86	-.0046	126.4	.0146	.7192
33	S95T003071-	.1982	59.68	-.0114	114.7	.0147	.6452
34	S95T003071_D	.1907	57.15	-.0112	104.6	.0188	.6284
35	ICSA	245.0	-.0040	-.0160	193.6	.0050	.0068

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#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
36	ICSAB	240.1	.4611	-.0175	191.5	.0088	.9653
37	CCV_3	4.966	5.178	5.212	5.036	5.300	5.308
38	CCB_3	-.0102	.0008	.0033	.0236	-.0012	.0000

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.997	5.244	4.917	4.767	4.942	4.926
2	ICB	.0195	.0055	.0024	-.0120	.0390	.0064
3	ICSA	.0183	.0636	-.0071	-.0004	.0004	.0217
4	ICSAB	.0232	1.059	-.0200	-.0025	.0117	.0194
5	PREPSTDTJA	4.853	4.927	4.778	4.584	4.786	1.771
6	PREPBLKTJA	.0214	.0157	.0840	.0023	.0477	.2338
7	S95T003066_L	10.03	.0731	.4077	-.0963	.2802	8.540
8	S95T003066_	9.470	.0762	.3715	-.1041	.0713	7.917
9	S95T003066_D	10.93	.1001	.4189	-.1087	.0847	9.374
10	S95T003066_S	14.45	4.217	4.482	3.853	4.176	18.75
11	CCV	5.028	5.290	4.958	4.830	4.969	4.988
12	CCB	.0001	.0021	.0016	.0027	.0373	.0131
13	S95T003067_L	9.893	.0747	.5058	-.1520	.2754	8.047
14	S95T003067_	8.792	.0500	.4803	-.0850	.0814	6.897
15	S95T003067_L	10.35	-.0742	.4383	-.1388	.4126	8.297
16	S95T003067_	9.639	.0383	.4741	-.1039	.1174	7.610
17	S95T003067_D	13.30	.0285	.5685	-.1685	.1693	11.42
18	CCV_1	5.128	5.328	5.000	4.845	5.072	5.019
19	CCB_1	.0026	.0077	-.0000	-.0086	.0393	.0114
20	S95T003068_L	12.95	.2630	.4866	-.1922	.2744	8.755
21	S95T003068_	11.52	.1362	.3998	-.1312	.0844	7.953
22	S95T003068_D	11.72	.1417	.5008	-.1397	.1029	8.102
23	S95T003069_L	13.71	.2412	.4934	-.1969	.3163	9.738
24	S95T003069_	13.60	.2195	.5532	-.2396	.4509	9.997
25	S95T003069_	12.72	.2588	.4639	-.1396	.1533	9.071
26	S95T003069_D	13.38	.2151	.4928	-.1809	.1877	10.30
27	CCV_2	5.085	5.335	4.975	4.824	4.995	5.014
28	CCB_2	.0082	.0146	.0101	-.0056	.0451	.0185
29	S95T003070_L	16.27	.2666	.5195	-.2235	.3883	10.88
30	S95T003070_	15.29	.0890	.5321	-.1870	.1519	10.16
31	S95T003070_D	15.88	.1421	.5560	-.1846	.1790	9.790
32	S95T003071_L	10.09	.0352	.3750	-.1988	.2761	6.565
33	S95T003071_	8.924	-.0402	.3162	-.1048	.0839	5.734
34	S95T003071_D	8.475	-.0387	.3296	-.0943	.1143	5.306
35	ICSA	.0261	.0485	-.0186	-.0124	.0240	.0371
36	ICSAB	.0284	1.087	-.0200	-.0124	.0061	.0285
37	CCV_3	5.165	5.433	5.000	4.927	5.094	5.095
38	CCB_3	.0139	.0054	.0075	-.0016	.0563	.0161

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.903	4.977	-.0119	4.779	4.967	9.477
2	ICB	.0170	.0000	-.0022	.0002	.0090	.0270
3	ICSA	.0144	-.0019	-.0076	.0014	-.0080	.1291
4	ICSAB	.0130	-.0021	.0019	.0017	.0335	.1318
5	PREPSTDTJA	4.724	4.804	-.0087	4.641	4.649	9.340

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
6	PREPBLKTJA	.0052	.0001	-.0010	.0012	.0084	-.0143
7	S95T003066 L	.0741	2.498	-.0235	.0185	-.1454	.1711
8	S95T003066	-.0123	2.387	.0039	.0168	-.1074	.0126
9	S95T003066 D	-.0071	2.736	-.0023	.0185	-.1658	.0440
10	S95T003066 S	4.033	6.711	-.0160	4.031	3.851	8.083
11	CCV	4.929	4.988	-.0163	4.810	4.957	9.519
12	CCB	.0222	.0001	-.0043	.0007	.0020	.0514
13	S95T003067 L 1-24-94	.0047	2.277	-.0181	.0210	-.2541	-.0514
14	S95T003067 1-24-94	-.0291	2.063	.0062	.0174	-.1268	-.0490
15	S95T003067 L	.0732	2.315	-.0056	.0224	-.4175	.0041
16	S95T003067	-.0281	2.197	.0024	.0179	-.1452	-.0794
17	S95T003067 D	-.0191	3.054	.0016	.0253	-.2246	.0013
18	CCV 1	4.907	4.978	-.0124	4.815	5.014	9.466
19	CCB-1	.0239	.0000	-.0043	.0002	-.0252	.0512
20	S95T003068 L	.0180	2.842	-.0172	.0235	-.2314	.0500
21	S95T003068	-.0227	2.593	.0047	.0206	-.1930	-.0100
22	S95T003068 D	-.0204	2.626	.0050	.0203	-.1543	-.0008
23	S95T003069 L 1-24-94	.0615	3.081	-.0205	.0235	-.2263	.1595
24	S95T003069 L	.2547	3.110	-.0866	.0293	-.5857	.8607
25	S95T003069	-.0025	2.945	.0004	.0223	-.2498	.0490
26	S95T003069 D	.0185	2.980	.0009	.0247	-.2859	.1347
27	CCV 2	4.891	4.964	-.0174	4.804	4.981	9.445
28	CCB-2	.0361	.0002	-.0105	.0002	-.0088	.1006
29	S95T003070 L	.1195	3.040	-.0635	.0245	-.5014	.3334
30	S95T003070	-.0258	2.910	.0065	.0238	-.2591	.0257
31	S95T003070 D	-.0091	3.088	.0103	.0233	-.2956	.0467
32	S95T003071 L	.0210	1.306	-.0132	.0173	-.3219	.0375
33	S95T003071	-.0235	1.190	.0070	.0146	-.1432	-.0166
34	S95T003071 D	-.0123	1.258	-.0017	.0143	-.1357	.0180
35	ICSA	.0452	-.0019	.0038	.0012	-.0185	.1481
36	ICSAB	.0285	-.0021	-.0161	.0019	-.0198	.1386
37	CCV 3	5.075	5.149	-.0153	4.955	5.126	9.808
38	CCB-3	.0335	.0002	-.0105	-.0003	-.0273	.0809

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.935	.0069	4.926	4.836
2	ICB	.0046	.0009	.0010	.0023
3	ICSA	.0039	.0099	-.0049	.0010
4	ICSAB	.4666	.0099	.9547	-.0006
5	PREPSTDTJA	4.787	.0055	4.770	4.711
6	PREPBLKTJA	.0023	.0006	.0022	.0037
7	S95T003066 L	.0457	.0050	.0695	.0225
8	S95T003066	.0244	.0012	.0623	.0099
9	S95T003066 D	.0290	.0015	.0449	.0114
10	S95T003066 S	4.077	.0053	4.059	4.079
11	CCV	4.985	.0073	4.991	4.882
12	CCB	.0058	.0013	.0007	.0046
13	S95T003067 L 1-24-94	.0438	.0028	.0723	.0151
14	S95T003067 1-24-94	.0251	.0003	.0475	.0026
15	S95T003067 L	.0622	.0071	.0539	.0284
16	S95T003067	.0310	.0010	.0521	.0058
17	S95T003067 D	.0455	.0019	.1301	.0119

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#	Sample Name	V	Y	Zn	Zr
18	CCV 1	4.994	.0074	5.029	4.881
19	CCB-1	.0056	.0012	.0005	.0046
20	S95T003068 L	.0581	.0039	.0778	.0202
21	S95T003068-	.0359	.0008	.0659	.0046
22	S95T003068 D	.0380	.0006	.0677	.0049
23	S95T003069-L # 1-24-96	.0613	.0058	.0619	.0220
24	S95T003069-L	.1105	.0161	.0735	.0620
25	S95T003069-	.0444	.0022	.0613	.0076
26	S95T003069_D	.0516	.0034	.0804	.0160
27	CCV 2	5.004	.0079	5.037	4.875
28	CCB-2	.0083	.0019	.0010	.0064
29	S95T003070 L	.1002	.0100	.0573	.0464
30	S95T003070-	.0548	.0020	.0453	.0128
31	S95T003070 D	.0558	.0020	.0462	.0081
32	S95T003071-L	.0403	.0047	.0404	.0200
33	S95T003071-	.0207	.0005	.0309	.0039
34	S95T003071_D	.0224	.0008	.0422	.0038
35	ICSA	.0102	.0115	.0065	.0039
36	ICSA B	.4797	.0109	.9861	.0045
37	CCV 3	5.125	.0077	5.101	5.037
38	CCB-3	.0071	.0017	.0018	.0057

DK *[Signature]*

01-24-96

12/22/95 09:13
A-0004-1

WHC-SD-WM-DP-160, REV. I

Page: 1

LABCORE Data Entry Template for Worklist# 4488

Analyst: B. GOECKE Instrument: ICP^{ICP02} Book# 988485
₀₅₋₁₋₂₅₋₉₆Method: LA-505-151/161 Rev/Mod B-O
₁₋₂₅₋₉₆

Worklist Comment: ICP B-204 (ACID DIGEST)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPSTD ^{TJA} _{ARTL} <u>5²/29/96</u>		@ICP-A01	SOLID		
6	PREPBLK ^{TJA} _{ARTL} <u>8²/29/96</u>		@ICP-A01	SOLID		
7	SAMPLE	S95T003072 0 A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
8	DUP	S95T003072 0 A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003072 0 A	@ICP-A01	SOLID		
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S95T003073 0 A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 4488

S Type	Sample#	R	A	Test	Matrix	Group#	Project
13 DUP	S95T003073	0	A	@ICP-A01	SOLID		
14 SAMPLE	S95T003074	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
15 DUP	S95T003074	0	A	@ICP-A01	SOLID		
16 SAMPLE	S95T003075	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
17 DUP	S95T003075	0	A	@ICP-A01	SOLID		
18 CCV				@ICP-QC	QC		
19 CCB				@ICP-QC	QC		
20 SAMPLE	S95T003076	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01							
21 DUP	S95T003076	0	A	@ICP-A01	SOLID		
22 SAMPLE	S95T003077	0	A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 ,							

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 4488

S Type	Sample#	R A	Test	Matrix	Group#	Project
			MG-A-01	MN-A-01	MO-A-01	NA-A-01
			P-A-01	PB-A-01	S-A-01	SB-A-01
			SM-A-01	SR-A-01	TI-A-01	TL-A-01
			ZN-A-01	ZR-A-01	U-A-01	V-A-01
23 DUP	S95T003077	0 A	@ICP-A01	SOLID		
24 ICSA			@ICP-QC	QC		
25 ICSAB			@ICP-QC	QC		
26 CCV			@ICP-QC	QC		
27 CCB			@ICP-QC	QC		

Final page for worklist # 4488

<i>[Signature]</i>	1-25-86	<i>[Signature]</i>	1/31/96
Analyst Signature	Date	Analyst Signature	Date
PREPDTJA	D.F.	S95T003077-L	10
PREPBLTJA	1	S95T003077	2
S95T003072-L	10	S95T003077-D	2
S95T003072	2		
S95T003072-D	2		
S95T003072-S	2		
S95T003073-L	10		
S95T003073	2		
S95T003073-D	2		
S95T003074-L	10		
S95T003074	2		
S95T003074-D	2		
S95T003075-L	10		
S95T003075	2		
S95T003075-D	2		
S95T003076-L	10		
S95T003076	2		
S95T003076-D	2		

Data Entry Comments:

Analysis Report

Summary

Thu 01-25-96 11:01:45 PM

page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960125E	ICP2	01/25/96	20:51	BJG	Q	CONC
2	ICB	960125E	ICP2	01/25/96	20:54	BJG	Q	CONC
3	ICSA	960125E	ICP2	01/25/96	20:57	BJG	Q	CONC
4	ICSAB	960125E	ICP2	01/25/96	21:00	BJG	Q	CONC
5	PREPSTDTJA	960125E	ICP2	01/25/96	21:03	BJG	S	CONC
6	PREPBLKTJA	960125E	ICP2	01/25/96	21:06	BJG	S	CONC
7	S95T003072 L	960125E	ICP2	01/25/96	21:09	BJG	S	CONC
8	S95T003072	960125E	ICP2	01/25/96	21:13	BJG	S	CONC
9	S95T003072 D	960125E	ICP2	01/25/96	21:16	BJG	S	CONC
10	S95T003072 S	960125E	ICP2	01/25/96	21:19	BJG	S	CONC
11	CCV	960125E	ICP2	01/25/96	21:23	BJG	Q	CONC
12	CCB	960125E	ICP2	01/25/96	21:26	BJG	Q	CONC
13	S95T003073 L	960125E	ICP2	01/25/96	21:29	BJG	S	CONC
14	S95T003073	960125E	ICP2	01/25/96	21:32	BJG	S	CONC
15	S95T003073 D	960125E	ICP2	01/25/96	21:35	BJG	S	CONC
16	S95T003074 L	960125E	ICP2	01/25/96	21:39	BJG	S	CONC
17	S95T003074	960125E	ICP2	01/25/96	21:42	BJG	S	CONC
18	S95T003074 D	960125E	ICP2	01/25/96	21:45	BJG	S	CONC
19	S95T003075 L	960125E	ICP2	01/25/96	21:48	BJG	S	CONC
20	S95T003075	960125E	ICP2	01/25/96	22:18	BJG	S	CONC
21	S95T003075 D	960125E	ICP2	01/25/96	22:21	BJG	S	CONC
22	CCV 1	960125E	ICP2	01/25/96	22:24	BJG	Q	CONC
23	CCB-1	960125E	ICP2	01/25/96	22:27	BJG	Q	CONC
24	S95T003076 L	960125E	ICP2	01/25/96	22:30	BJG	S	CONC
25	S95T003076	960125E	ICP2	01/25/96	22:33	BJG	S	CONC
26	S95T003076 D	960125E	ICP2	01/25/96	22:36	BJG	S	CONC
27	S95T003077 L	960125E	ICP2	01/25/96	22:39	BJG	S	CONC
28	S95T003077	960125E	ICP2	01/25/96	22:43	BJG	S	CONC
29	S95T003077 D	960125E	ICP2	01/25/96	22:45	BJG	S	CONC
30	ICSA	960125E	ICP2	01/25/96	22:48	BJG	Q	CONC
31	ICSAB	960125E	ICP2	01/25/96	22:51	BJG	Q	CONC
32	CCV 2	960125E	ICP2	01/25/96	22:55	BJG	Q	CONC
33	CCB-2	960125E	ICP2	01/25/96	22:58	BJG	Q	CONC

Signature
1-25-96
B-254 HENDRICKS
S95T003072-77

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 927 TO 932

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.024	4.968	5.200	4.937	5.080	5.222
2	ICB	.0015	.0072	.0010	.0027	.0000	.0000
3	ICSA	.0012	239.8	-.0534	-.0003	.0033	.0001
4	ICSAB	.9706	239.8	-.0478	-.0010	.4842	.4798
5	PREPSTD TJJA	.2971	4.928	4.827	5.318	4.726	4.999
6	PREPBLKTJA	.0005	.1070	.0093	.5409	.0004	-.0001
7	S95T003072 L	.0371	.2505	.1370	.3449	.0213	-.0012
8	S95T003072	.0228	.2342	.0136	.3116	.0202	-.0002
9	S95T003072 D	.0245	.2810	.0155	.7205	.0255	.0019
10	S95T003072 S	.9060	4.787	4.530	5.103	4.412	4.872
11	CCV	5.126	4.988	5.261	4.911	5.069	5.246
12	CCB	.0014	.0019	.0102	.0040	.0001	.0000
13	S95T003073 L	.0278	.2390	.1247	.5194	.0393	-.0008
14	S95T003073	.0241	.2501	.0164	.4772	.0393	-.0003
15	S95T003073 D	.0235	.2875	.0535	.7181	.0468	.0036
16	S95T003074 L	.0233	1.968	-.0040	.6577	.0561	-.0012
17	S95T003074	.0226	1.893	.0268	.5976	.0550	-.0003
18	S95T003074 D	.0220	.3806	.0266	.6497	.0494	-.0005
19	S95T003075 L	.0188	.2977	.0694	.6216	.0640	.0011
20	S95T003075	.0201	.2579	-.0093	.6472	.0623	.0013
21	S95T003075 D	.0183	.3248	.0039	.7615	.0647	.0001
22	CCV 1	5.121	5.021	5.326	4.976	5.126	5.323
23	CCB-1	.0017	.0067	.0008	.0055	.0001	.0002
24	S95T003076 L	.0199	.1966	.0241	.5127	.0588	.0088
25	S95T003076	.0207	.2206	.0224	.4342	.0571	.0071
26	S95T003076 D	.0218	.2242	-.0127	.4165	.0593	.0000
27	S95T003077 L	-.0052	.2473	-.0103	.7044	.0452	.0012
28	S95T003077	.0141	.2337	-.0066	.6927	.0436	.0002
29	S95T003077 D	.0184	.2647	-.0076	.8475	.0558	.0002
30	ICSA	-.0005	245.3	-.0542	.0030	.0035	.0002
31	ICSAB	.9853	242.9	-.0776	.0021	.4955	.4872
32	CCV 2	5.133	5.033	5.264	4.979	5.190	5.324
33	CCB-2	-.0004	.0061	-.0035	.0000	.0001	.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.111	5.051	5.063	5.232	4.939	5.128
2	ICB	-.0282	.0039	-.0002	.0104	.0007	.0001
3	ICSA	-.0076	241.5	.0028	.0147	.0015	-.0033
4	ICSAB	-.0328	246.6	.9509	.0134	.4681	.4754
5	PREPSTD TJJA	4.623	4.787	4.654	4.894	4.715	4.766
6	PREPBLKTJA	.0080	.0556	-.0004	.0068	.0003	.0035
7	S95T003072 L	274.0	1.316	.0058	.2658	.0366	24.37
8	S95T003072	254.9	1.201	.0042	.1589	.0151	22.63
9	S95T003072 D	256.8	1.302	.0077	.1976	.0174	23.57
10	S95T003072 S	234.9	5.903	4.417	4.757	4.489	24.80
11	CCV	5.132	5.303	5.194	5.236	5.066	5.274
12	CCB	-.0331	.0021	.0001	.0039	.0000	.0007
13	S95T003073 L	284.3	1.512	.0071	.2779	.0224	23.96
14	S95T003073	269.1	1.445	.0099	.2039	.0164	22.71
15	S95T003073 D	290.1	1.571	.0117	.2171	.0217	24.48
16	S95T003074 L	295.5	1.827	.0086	.1802	.0072	21.86

Analysis Report

Averages

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
17	S95T003074	277.5	1.756	.0038	.1862	.0174	20.63
18	S95T003074 D	261.4	1.604	.0067	.1670	.0164	19.37
19	S95T003075 L	293.8	1.449	.0094	.2283	.0072	21.30
20	S95T003075	275.8	1.327	.0060	.1344	.0140	19.80
21	S95T003075 D	281.4	1.434	.0079	.1393	.0161	20.41
22	CCV 1	5.182	5.215	5.228	5.294	5.100	5.271
23	CCB 1	.0052	.0023	.0002	.0012	.0008	.0005
24	S95T003076 L	229.1	1.611	.0151	.0544	.0296	19.44
25	S95T003076	214.3	1.528	.0087	.1064	.0315	18.28
26	S95T003076 D	247.2	1.308	.0037	.1367	.0253	20.77
27	S95T003077 L	248.8	1.784	.0014	.0267	.0451	22.05
28	S95T003077	233.7	1.706	.0025	.0970	.0412	20.87
29	S95T003077 D	286.2	2.144	.0041	.1524	.0464	24.82
30	ICSA	.0016	251.9	.0016	.0163	.0046	.0027
31	ICSAB	-.0383	250.7	.9709	.0158	.4829	.4860
32	CCV 2	5.239	5.244	5.218	5.348	5.103	5.286
33	CCB 2	.0100	-.0017	.0005	.0033	-.0028	.0001
<hr/>							
#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.038	-.0053	5.132	5.108	5.152	5.191
2	ICB	.0005	-.0012	.0011	.0968	.0007	-.0010
3	ICSA	-.0079	-.0457	93.89	.1049	-.0041	.0011
4	ICSAB	.4808	-.0490	94.42	-.0636	-.0047	.9761
5	PREPSTD TJ A	4.735	-.0055	4.842	4.502	4.829	4.908
6	PREPBLKT J A	.0124	-.0027	.0246	-.1556	.0029	-.0022
7	S95T003072 L	.0341	.0092	17.90	34.79	45.01	.2874
8	S95T003072	.0228	.0098	16.73	31.31	43.18	.2777
9	S95T003072 D	.0114	.0110	17.25	32.45	43.68	.2848
10	S95T003072 S	4.399	.0065	19.73	33.40	43.00	4.712
11	CCV	4.988	-.0036	5.226	5.122	5.121	5.059
12	CCB	.0009	-.0000	.0003	.0431	.0003	.0004
13	S95T003073 L	.0250	.0105	20.01	28.89	50.55	.1879
14	S95T003073	.0250	.0135	18.97	29.28	48.58	.1793
15	S95T003073 D	.0227	.0146	20.47	30.66	52.35	.1919
16	S95T003074 L	.0209	.0179	20.57	35.82	59.43	.2100
17	S95T003074	.0168	.0174	19.44	34.28	57.61	.2032
18	S95T003074 D	.0145	.0149	18.46	31.59	52.09	.1804
19	S95T003075 L	.0211	.0149	19.35	26.75	51.14	.1857
20	S95T003075	.0200	.0139	18.04	28.14	49.94	.1781
21	S95T003075 D	.0430	.0151	18.95	29.78	53.95	.1924
22	CCV 1	5.069	-.0045	5.233	5.294	5.184	5.122
23	CCB 1	-.0003	.0006	-.0002	.0286	.0012	.0007
24	S95T003076 L	.0301	.0157	19.78	26.20	42.38	.1903
25	S95T003076	.0317	.0108	18.62	25.77	40.78	.1781
26	S95T003076 D	.0290	.0147	20.56	28.93	50.64	.2023
27	S95T003077 L	.0437	.0224	28.47	28.96	42.76	.1442
28	S95T003077	.0463	.0105	26.99	28.26	41.43	.1301
29	S95T003077 D	.0499	.0138	32.86	33.92	53.77	.1576
30	ICSA	-.0098	-.0687	97.05	.1371	-.0037	.0041
31	ICSAB	.4857	-.0662	95.97	.1228	-.0035	.9856
32	CCV 2	5.090	-.0043	5.232	5.360	5.253	5.155
33	CCB 2	-.0003	.0009	-.0010	-.0914	.0014	.0005

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.938	4.952	4.976	5.106	5.218	5.059
2	ICB	.0183	-.0004	.0033	-.0122	.0052	-.0037
3	ICSA	239.4	-.0072	-.0150	197.4	.0185	.0043
4	ICSAB	240.0	.4452	-.0131	197.4	.0168	.9259
5	PREPSTD TJJA	4.610	4.600	4.701	5.543	4.746	4.737
6	PREPBLKTJA	.0272	.0024	.0003	.6129	.0030	-.0016
7	S95T003072 L	.4173	74.16	.0120	145.2	.0792	.9389
8	S95T003072	.2020	76.23	-.0131	139.0	.0195	.9093
9	S95T003072 D	.2116	79.25	-.0137	143.1	.0231	.9529
10	S95T003072 S	4.465	73.90	4.434	129.7	4.449	5.272
11	CCV	4.961	5.137	5.075	5.038	5.180	5.189
12	CCB	.0134	.0003	.0038	.0021	.0041	-.0046
13	S95T003073 L	.2805	73.96	-.0002	134.7	.0648	1.118
14	S95T003073	.2205	77.38	-.0151	129.4	.0269	1.012
15	S95T003073 D	.2715	84.33	-.0148	136.4	.0315	1.093
16	S95T003074 L	.2548	81.31	-.0280	170.7	.0566	1.156
17	S95T003074	.2427	84.93	-.0154	164.0	.0270	1.090
18	S95T003074 D	.2474	79.32	-.0148	138.8	.0251	1.041
19	S95T003075 L	.2989	74.79	-.0209	127.3	.0604	1.221
20	S95T003075	.2179	76.61	-.0101	124.3	.0152	1.235
21	S95T003075 D	.2361	81.61	-.0177	131.9	.0129	1.305
22	CCV 1	4.989	5.194	5.110	5.109	5.222	5.186
23	CCB 1	.0016	.0008	.0060	.0044	.0002	-.0036
24	S95T003076 L	.1135	60.30	-.0072	117.7	-.0154	2.118
25	S95T003076	.1800	61.14	-.0062	112.8	.0181	2.025
26	S95T003076 D	.2343	75.61	-.0182	127.4	.0186	2.318
27	S95T003077 L	.1440	74.37	.0040	128.3	-.0086	3.722
28	S95T003077	.2186	76.95	-.0116	124.3	.0095	3.612
29	S95T003077 D	.3023	94.51	-.0225	148.5	.0133	4.509
30	ICSA	245.0	-.0047	-.0171	199.0	.0114	-.0114
31	ICSAB	242.9	.4667	-.0127	198.7	.0150	.9326
32	CCV 2	4.980	5.162	5.121	5.125	5.298	5.159
33	CCB 2	.0035	.0006	.0060	.0022	-.0011	-.0020

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.999	5.099	4.796	4.711	4.999	4.822
2	ICB	-.0173	.0001	-.0191	.0147	-.0182	-.0117
3	ICSA	.0194	.0520	-.0374	.0244	-.0383	-.0003
4	ICSAB	.0132	1.048	-.0358	.0178	-.0297	.0044
5	PREPSTD TJJA	4.716	4.603	4.576	4.383	4.671	5.063
6	PREPBLKTJA	.0090	.0082	.0406	.0216	.0047	.0364
7	S95T003072 L	10.84	2.071	.2619	-.0888	.1531	7.641
8	S95T003072	10.16	1.826	.3486	-.0980	.0633	7.149
9	S95T003072 D	10.17	1.921	.3421	-.1142	.0761	7.878
10	S95T003072 S	13.73	6.092	4.705	4.073	4.480	15.07
11	CCV	5.035	5.263	4.885	4.785	5.035	4.937
12	CCB	-.0242	.0082	-.0173	.0103	-.0012	-.0020
13	S95T003073 L	10.93	3.054	.3147	-.0306	.1702	6.448
14	S95T003073	10.56	2.689	.3694	-.1194	.1028	6.209
15	S95T003073 D	11.14	2.935	.3473	-.1336	.1112	7.859
16	S95T003074 L	11.53	3.033	.7077	-.0558	.2577	8.440

Analysis Report

Averages

Thu 01-25-96 11:01:45 PM

page 5

#	Sample Name	P	Pb	S	Sb	Se	Si
17	S95T003074	11.03	2.833	.7522	-.1086	.1267	7.996
18	S95T003074 D	10.21	3.044	.3837	-.0921	.1261	7.553
19	S95T003075 L	11.34	230.6	.2313	.0006	.3460	7.384
20	S95T003075	11.04	212.1	.3590	-.1366	.1053	6.935
21	S95T003075 D	11.57	221.4	.3824	-.1365	.0883	8.616
22	CCV 1	5.173	5.267	4.906	4.807	5.125	4.963
23	CCB-1	.0040	.0129	.0064	.0000	.0092	.0113
24	S95T003076 L	9.360	.4635	.4203	-.1119	.1875	5.483
25	S95T003076	8.581	.4511	.3212	-.1205	.0914	5.206
26	S95T003076 D	10.52	.4599	.3726	-.1189	.0918	5.514
27	S95T003077 L	9.721	.1417	.4692	-.1982	.4425	4.861
28	S95T003077	9.151	-.0129	.3917	-.1279	.0912	4.568
29	S95T003077 D	11.16	-.0301	.4640	-.1318	.0885	4.401
30	ICSA	.0293	.0656	-.0266	.0161	-.0079	.0211
31	ICSAB	.0204	1.080	-.0162	-.0163	-.0191	.0271
32	CCV 2	5.107	5.262	4.884	4.795	5.061	4.949
33	CCB-2	.0087	.0186	.0068	-.0023	.0202	.0056

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.008	5.059	-.0062	4.846	4.966	9.483
2	ICB	-.0200	.0001	.0060	.0010	.0029	-.0506
3	ICSA	-.0174	-.0018	-.0000	.0024	.0046	.1051
4	ICSAB	-.0124	-.0018	-.0016	.0021	-.0080	.1040
5	PREPSTDTJA	4.682	4.761	-.0157	4.591	4.573	9.127
6	PREPBLKTJA	-.0420	.0002	.0048	.0013	.0174	-.1280
7	S95T003072 L	-.0754	.6933	.0420	.0298	-.1961	-.1208
8	S95T003072	-.0816	.6631	.0023	.0187	-.2024	-.1353
9	S95T003072 D	-.0649	.6437	.0087	.0247	-.2230	-.0806
10	S95T003072 S	4.322	5.046	-.0063	4.357	4.097	8.474
11	CCV	4.981	5.045	-.0051	4.851	5.025	9.435
12	CCB	-.0001	.0000	-.0015	.0007	-.0113	.0148
13	S95T003073 L	-.1185	1.121	.0382	.0297	-.1398	-.0977
14	S95T003073	-.0547	1.083	.0159	.0208	-.2114	-.0383
15	S95T003073 D	-.0565	1.174	.0020	.0301	-.2723	-.0500
16	S95T003074 L	-.0595	1.510	.0030	.0245	-.2815	.2220
17	S95T003074	-.0562	1.459	.0138	.0173	-.2061	.0156
18	S95T003074 D	-.0502	1.284	.0139	.0188	-.2696	-.0293
19	S95T003075 L	-.0456	1.705	-.0368	.0268	-.2100	.3443
20	S95T003075	-.0451	1.661	.0071	.0182	-.2305	.1027
21	S95T003075 D	-.0427	1.784	.0042	.0176	-.2219	.1219
22	CCV 1	5.069	5.099	-.0411	4.924	5.098	9.632
23	CCB-1	.0065	.0003	.0008	-.0003	.0129	.0475
24	S95T003076 L	-.0441	1.543	.0493	.0157	-.0844	.1270
25	S95T003076	-.0392	1.488	.0052	.0187	-.1966	-.0157
26	S95T003076 D	-.0246	1.826	.0084	.0135	-.1739	.0629
27	S95T003077 L	.1083	1.448	-.0487	.0152	-.4386	.7168
28	S95T003077	-.0321	1.402	-.0008	.0161	-.1914	.0475
29	S95T003077 D	-.0476	1.520	.0111	.0193	-.2487	.0432
30	ICSA	.0253	-.0015	-.0039	.0009	.0142	.3257
31	ICSAB	.0213	-.0015	-.0101	.0017	-.0033	.3218
32	CCV 2	5.136	5.163	-.0510	4.947	5.059	9.757
33	CCB-2	.0056	.0000	.0028	-.0005	.0121	.0370

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.913	.0050	4.848	4.858
2	ICB	-.0033	-.0007	.0008	-.0022
3	ICSA	-.0042	.0083	-.0055	-.0050
4	ICSAB	.4621	.0087	.9522	-.0033
5	PREPSTDTJA	4.644	.0036	4.528	4.614
6	PREPBLKTJA	-.0069	-.0017	.0046	-.0048
7	S95T003072_L	.0101	-.0007	.1777	-.0182
8	S95T003072	.0143	-.0020	.1044	-.0036
9	S95T003072_D	.0197	-.0012	.0634	.0043
10	S95T003072_S	4.380	.0041	4.363	4.371
11	CCV	4.998	.0064	4.997	4.900
12	CCB	-.0000	.0001	.0011	.0001
13	S95T003073_L	.0116	.0000	.1095	-.0180
14	S95T003073	.0202	-.0001	.0766	-.0006
15	S95T003073_D	.0257	-.0006	.1019	.0110
16	S95T003074_L	.0259	.0015	.1011	.0163
17	S95T003074	.0205	.0000	.0871	.0037
18	S95T003074_D	.0192	-.0001	.0582	.0010
19	S95T003075_L	.0277	.0014	.1544	.0228
20	S95T003075	.0202	-.0000	.0952	.0060
21	S95T003075_D	.0190	-.0004	.1080	.0062
22	CCV_1	5.041	.0063	5.003	4.963
23	CCB_1	.0019	.0005	.0017	.0010
24	S95T003076_L	.0325	.0015	.0964	.0140
25	S95T003076	.0232	-.0005	.0761	.0078
26	S95T003076_D	.0229	.0006	.1350	.0028
27	S95T003077_L	.0511	.0060	.2159	.0391
28	S95T003077	.0228	.0003	.1532	.0063
29	S95T003077_D	.0268	.0001	.1683	.0067
30	ICSA	.0032	.0098	-.0054	.0010
31	ICSAB	.4791	.0097	.9726	.0003
32	CCV_2	5.062	.0063	4.984	4.998
33	CCB_2	.0019	.0004	.0011	-.0003

80
1/31/96

LABCORE Data Entry Template for Worklist# 4896

Analyst: B. GOEKE Instrument: ICP01 ICP02 Book# 49B 48B
50 1/16/96

Method: LA-505-151/161 Rev/Mod B-D
50 1/16/96

Worklist Comment: ICP B-204 (ACID DIGEST)

S Type	Sample#	R A	Test	Matrix	Group#	Project
1	ICV		@ICP-QC	QC		
2	ICB		@ICP-QC	QC		
3	ICSA		@ICP-QC	QC		
4	ICSAB		@ICP-QC	QC		
5	PREPSTD TJ A		@ICP-A01	SOLID		
6	PREPBLK TJ A		@ICP-A01	SOLID		
7	SAMPLE	S95T003084 0 A	@ICP-A01	SOLID	95000158	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
8	DUP	S95T003084 0 A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003084 0 A	@ICP-A01	SOLID		
10	CCV		@ICP-QC	QC		
11	CCB		@ICP-QC	QC		
12	SAMPLE	S95T003282 0 A	@ICP-A01	SOLID	95000161	B-204
Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						

Data Entry Comments:

LABCORE Data Entry Template for Worklist# 4896

S Type	Sample#	R A	Test	Matrix	Group#	Project
13 DUP	S95T003282	0 A	@ICP-A01	SOLID		
14 SAMPLE	S95T003283	0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					
15 DUP	S95T003283	0 A	@ICP-A01	SOLID		
16 SAMPLE	S95T003284	0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					
17 DUP	S95T003284	0 A	@ICP-A01	SOLID		
18 CCV			@ICP-QC	QC		
19 CCB			@ICP-QC	QC		
20 SAMPLE	S95T003285	0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01					
21 DUP	S95T003285	0 A	@ICP-A01	SOLID		
22 SAMPLE	S95T003286	0 A	@ICP-A01	SOLID	95000161	B-204
	Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 ,					

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 4896

S Type	Sample#	R A	Test	Matrix	Group#	Project
			MG-A-01	MN-A-01	MO-A-01	NA-A-01
			P-A-01	PB-A-01	S-A-01	SB-A-01
			SM-A-01	SR-A-01	TI-A-01	TL-A-01
			ZN-A-01	ZR-A-01	U-A-01	V-A-01
23 DUP	S95T003286	0 A	@ICP-A01	SOLID		
24 ICSA			@ICP-QC	QC		
25 ICSAB			@ICP-QC	QC		
26 CCV			@ICP-QC	QC		
27 CCB			@ICP-QC	QC		

Final page for worklist # 4896

Analyst Signature

Date

D.F.

Prep Slot TJA

1

Prep RIK TJA

1

S95T003284-L 1-9-2-8 50

3284 1-9 10

3284-D 1-9 10

3284-S 1-9 10

S95T003282-L DIRECT-2-8 5

3282 DIRECT 1

3282-D DIRECT 1

S95T003283-L DIRECT 2-8 5

3283 DIRECT 1

3283-D DIRECT 1

S95T003284-L DIRECT 2-8 5

3284 DIRECT 1

3284-D DIRECT 1

Reviewed by:

Analyst Signature

Date

Saul M. Pary 1/16/96

S95T003285-L 1-9-2-8 50

3285 1-9 10

3285 1-9 10

S95T003286-L DIRECT 2-8 50

3286 DIRECT 1

3286-D DIRECT 1

Data Entry Comments:

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960112B	ICP2	01/12/96	10:25	BJG	Q	CONC
2	ICB	960112B	ICP2	01/12/96	10:28	BJG	Q	CONC
3	ICSA	960112B	ICP2	01/12/96	10:31	BJG	Q	CONC
4	ICSAB	960112B	ICP2	01/12/96	10:34	BJG	Q	CONC
5	PREPSTDTJA	960112B	ICP2	01/12/96	10:38	BJG	S	CONC
6	PREPBLKTJA	960112B	ICP2	01/12/96	10:41	BJG	S	CONC
7	S95T003084_L	960112B	ICP2	01/12/96	10:45	BJG	S	CONC
8	S95T003084_-	960112B	ICP2	01/12/96	10:48	BJG	S	CONC
9	S95T003084_D	960112B	ICP2	01/12/96	10:53	BJG	S	CONC
10	S95T003084_-S	960112B	ICP2	01/12/96	10:56	BJG	S	CONC
11	CCV	960112B	ICP2	01/12/96	13:57	BJG	Q	CONC
12	CCB	960112B	ICP2	01/12/96	14:00	BJG	Q	CONC
13	S95T003282_L	960112B	ICP2	01/12/96	14:03	BJG	S	CONC
14	S95T003282_-	960112B	ICP2	01/12/96	14:06	BJG	S	CONC
15	S95T003282_D	960112B	ICP2	01/12/96	14:09	BJG	S	CONC
16	S95T003283_-L	960112B	ICP2	01/12/96	14:12	BJG	S	CONC
17	S95T003283_-	960112B	ICP2	01/12/96	14:15	BJG	S	CONC
18	S95T003283_D	960112B	ICP2	01/12/96	14:18	BJG	S	CONC
19	S95T003284_-L	960112B	ICP2	01/12/96	14:22	BJG	S	CONC
20	S95T003284_-	960112B	ICP2	01/12/96	14:26	BJG	S	CONC
21	S95T003284_D	960112B	ICP2	01/12/96	14:29	BJG	S	CONC
22	CCV_1	960112B	ICP2	01/12/96	14:37	BJG	Q	CONC
23	CCB-1	960112B	ICP2	01/12/96	14:43	BJG	Q	CONC
24	S95T003285_L	960112B	ICP2	01/12/96	14:46	BJG	S	CONC
25	S95T003285_-	960112B	ICP2	01/12/96	14:49	BJG	S	CONC
26	S95T003285_D	960112B	ICP2	01/12/96	14:53	BJG	S	CONC
27	S95T003286_-L	960112B	ICP2	01/12/96	14:56	BJG	S	CONC
28	S95T003286_-	960112B	ICP2	01/12/96	14:59	BJG	S	CONC
29	S95T003286_D	960112B	ICP2	01/12/96	15:02	BJG	S	CONC
30	ICSA	960112B	ICP2	01/12/96	15:07	BJG	Q	CONC
31	ICSAB	960112B	ICP2	01/12/96	15:10	BJG	Q	CONC
32	CCV_2	960112B	ICP2	01/12/96	15:13	BJG	Q	CONC
33	CCB_-2	960112B	ICP2	01/12/96	15:15	BJG	Q	CONC

Handwritten:
1-12-96
B-204 ACID DIGEST
S95T003084
S95T003282-86

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES ____ TO ____.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.104	4.983	5.268	4.979	5.158	5.232
2	ICB	.0028	.0083	.0034	.0070	.0002	.0001
3	ICSA	-.0130	239.7	-.0350	.0052	.0030	.0001
4	ICSAB	.9473	236.7	-.0320	.0062	.4766	.4760
5	PREPSTD TJ A	.9036	4.608	4.629	4.815	4.672	5.266
6	PREPBLKTJA	.0011	.0344	.0016	.2644	.0000	.0001
7	S95T003084_L	.0138	.1607	.0204	1.076	.0471	.0108
8	S95T003084_-	.0175	.1876	.1014	.8400	.0518	-.0000
9	S95T003084_D	.0256	.2549	.1747	.8710	.0549	-.0001
10	S95T003084_-S	1.045	5.302	5.289	6.174	4.949	5.078
11	CCV	5.015	4.858	5.228	4.889	4.944	5.212
12	CCB	.0013	.0117	.0131	.0052	-.0001	.0004
13	S95T003282_L	.0144	.3425	.0346	.7144	9.840	.0013
14	S95T003282_-	.0087	.3050	.0180	.6495	9.566	-.0001
15	S95T003282_D	.0067	.2744	.0192	.6525	9.066	.0000
16	S95T003283_L	.0103	.1895	.0261	.1725	1.425	.0013
17	S95T003283_-	.0070	.0992	.0212	.1410	1.301	.0001
18	S95T003283_D	.0084	.0908	.0314	.0896	1.434	-.0001
19	S95T003284_L	.0108	.1869	.0027	.1555	.3305	.0014
20	S95T003284_-	.0075	.1332	.0213	.1418	.3023	.0001
21	S95T003284_D	.0071	.1049	.0223	.0949	.3096	.0001
22	CCV_1	5.149	4.995	5.358	5.012	5.164	5.337
23	CCB_1	.0011	.0103	-.0027	.0057	-.0001	.0004
24	S95T003285_L	.0539	.7034	-.1669	.4637	.1284	.0162
25	S95T003285_-	.0202	.5526	.0515	.2192	.1289	.0029
26	S95T003285_D	.0241	.2293	.0558	.1924	.1096	.0032
27	S95T003286_L	.0261	.2140	.1199	.1030	.3543	.0016
28	S95T003286_-	.0101	.1191	.0336	.0994	.3278	.0001
29	S95T003286_D	.0090	.1300	.0244	.1968	.2320	-.0001
30	ICSA	-.0127	244.4	-.0293	.0062	.0033	.0004
31	ICSAB	.9747	241.1	.0162	.0049	.4873	.4919
32	CCV_2	5.147	4.964	5.404	4.981	5.123	5.341
33	CCB_2	.0005	.0075	.0188	.0087	-.0000	.0003
#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.208	5.184	5.175	5.276	5.073	5.222
2	ICB	.0108	.0042	.0006	.0137	.0027	.0014
3	ICSA	-.0051	246.5	.0000	.0060	.0021	-.0058
4	ICSAB	.0211	246.4	.9474	.0139	.4692	.4689
5	PREPSTD TJ A	4.524	4.691	4.514	4.780	4.645	4.653
6	PREPBLKTJA	-.0020	.0787	.0005	.0064	.0012	.0009
7	S95T003084_L	335.7	1.190	.0139	.3349	.1070	10.13
8	S95T003084_-	322.7	.9390	-.0074	.3792	.0326	9.754
9	S95T003084_D	341.9	1.039	.0047	.4520	.0326	10.30
10	S95T003084_-S	325.2	6.253	5.071	5.479	5.197	14.93
11	CCV	5.120	5.207	5.152	5.121	5.046	5.185
12	CCB	-.0085	.0039	.0003	.0109	.0011	.0005
13	S95T003282_L	201.6	1.675	.0014	.2364	.0190	7.002
14	S95T003282_-	187.6	1.500	.0031	.2305	.0166	6.516
15	S95T003282_D	173.1	1.487	.0034	.2112	.0143	5.930
16	S95T003283_L	208.3	.7534	.0054	.2871	.0190	10.72

Analysis Report

Averages

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#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
17	S95T003283	182.8	.6494	.0027	.2325	.0095	9.436
18	S95T003283 D	205.1	.7937	.0026	.2657	.0139	10.65
19	S95T003284-L	219.1	.8645	.0030	.2689	.0193	10.26
20	S95T003284	193.6	.6905	.0017	.2199	.0135	9.091
21	S95T003284 D	208.4	.7077	.0017	.2223	.0138	9.894
22	CCV 1	5.204	5.372	5.283	5.260	5.185	5.321
23	CCB-1	.0019	-.0003	.0011	.0008	.0012	.0011
24	S95T003285 L	303.6	1.247	.0212	.7178	.2084	16.60
25	S95T003285	294.6	1.006	.0006	.2917	.0519	16.09
26	S95T003285 D	255.5	.8120	.0101	.2966	.0212	13.81
27	S95T003286-L	228.2	1.042	.0101	.3548	.0235	9.878
28	S95T003286	203.3	.8516	.0033	.2215	.0123	8.834
29	S95T003286 D	233.7	.9253	.0029	.2477	.0112	9.765
30	ICSA	-.0275	263.2	.0017	.0237	.0025	-.0058
31	ICSAB	.0066	260.3	.9876	.0228	.4929	.4899
32	CCV 2	5.214	5.468	5.294	5.236	5.196	5.336
33	CCB-2	.0247	.0036	.0007	.0034	.0038	.0015

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.074	-.0007	5.189	5.023	5.165	5.103
2	ICB	.0002	.0007	.0019	.2765	.0021	.0008
3	ICSA	-.0074	-.0667	93.86	.2114	-.0040	.0030
4	ICSAB	.4747	-.0676	93.02	.2971	-.0027	.9580
5	PREPSTD TJ A	4.613	-.0022	4.688	4.600	4.718	4.665
6	PREPBLKTJA	.0002	-.0007	.0159	.1437	.0015	-.0007
7	S95T003084 L	.0066	.1013	22.62	40.07	76.30	.2847
8	S95T003084	.0104	.0373	21.64	35.48	73.37	.2133
9	S95T003084 D	.0147	.0410	22.89	37.71	79.04	.2178
10	S95T003084 S	4.876	.0417	26.59	39.22	81.21	4.958
11	CCV	4.937	.0001	5.142	4.888	5.016	4.901
12	CCB	-.0005	.0014	.0013	-.0118	.0012	.0011
13	S95T003282 L	.0068	.0291	17.07	27.38	57.98	.1038
14	S95T003282	.0072	.0224	15.89	25.36	54.89	.0984
15	S95T003282 D	.0087	.0205	11.02	23.38	51.19	.0914
16	S95T003283-L	-.0012	.0282	12.04	28.66	51.28	.1976
17	S95T003283	.0024	.0177	10.68	25.87	46.65	.1768
18	S95T003283 D	.0026	.0215	11.87	28.38	51.48	.1933
19	S95T003284-L	.0529	.0255	13.82	29.55	45.64	.0916
20	S95T003284	.0472	.0166	12.29	25.93	41.60	.0810
21	S95T003284 D	.0438	.0186	12.72	27.49	44.97	.0820
22	CCV 1	5.044	.0004	5.281	4.948	5.136	5.009
23	CCB-1	.0004	.0015	-.0004	-.0569	-.0005	.0014
24	S95T003285 L	-.0184	.0804	16.06	38.55	59.67	.1729
25	S95T003285	.0085	.0326	15.61	32.78	58.14	.1217
26	S95T003285 D	.0045	.0301	13.52	30.36	50.99	.1184
27	S95T003286-L	.0239	.0249	13.43	24.92	52.13	.2720
28	S95T003286	.0183	.0190	12.03	22.09	48.10	.2514
29	S95T003286 D	.0178	.0224	13.75	24.74	54.71	.3072
30	ICSA	-.0065	-.0926	97.87	.2549	-.0023	.0044
31	ICSAB	.4803	-.0883	96.64	.2544	-.0018	.9528
32	CCV 2	5.029	.0011	5.280	5.307	5.115	4.962
33	CCB-2	-.0001	.0020	.0007	.2623	.0003	.0018

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.994	5.099	5.092	5.077	5.200	5.162
2	ICB	.0010	.0005	.0058	.0025	.0013	.0008
3	ICSA	240.9	-.0067	-.0115	195.6	.0096	-.0101
4	ICSAB	238.0	.4461	-.0125	192.5	.0090	.9075
5	PREPSTD TJ A	4.449	4.531	4.668	5.041	4.604	4.592
6	PREPBLK TJ A	-.0002	.0006	.0039	.3512	-.0031	-.0001
7	S95T003084 L	-.4709	89.19	-.0064	156.2	-.0398	1.824
8	S95T003084	-.0020	87.88	-.0097	150.5	.0212	1.597
9	S95T003084 D	.0730	93.55	-.0179	155.2	.0164	1.734
10	S95T003084 S	4.899	93.68	5.065	152.2	4.885	6.686
11	CCV	4.907	5.006	5.033	4.887	5.016	5.077
12	CCB	-.0073	.0009	.0015	.0153	-.0048	-.0041
13	S95T003282 L	.2670	50.22	-.0024	125.8	.0297	.4951
14	S95T003282	.3024	54.30	-.0106	119.4	.0311	.4666
15	S95T003282 D	.2710	49.69	-.0081	111.5	.0294	.4321
16	S95T003283 L	.0773	53.81	-.0087	135.8	.0176	.8064
17	S95T003283	.1563	54.69	-.0089	124.3	.0261	.6917
18	S95T003283 D	.1853	63.49	-.0122	135.2	.0326	.7852
19	S95T003284 L	.2252	55.14	-.0081	134.3	.0264	.8760
20	S95T003284	.2389	56.64	-.0084	123.3	.0272	.7918
21	S95T003284 D	.2528	62.26	-.0117	131.7	.0290	.8623
22	CCV 1	5.043	5.165	5.173	4.984	5.142	5.230
23	CCB 1	-.0056	.0008	.0019	.0165	-.0014	-.0021
24	S95T003285 L	-.2547	69.19	.0351	152.2	-.0348	.5070
25	S95T003285	.0690	68.96	-.0212	148.4	.0342	.7499
26	S95T003285 D	.0984	59.92	-.0194	133.2	.0059	.6549
27	S95T003286 L	.2054	59.54	-.0115	115.7	.0336	.6149
28	S95T003286	.2461	63.21	-.0114	106.7	.0307	.5680
29	S95T003286 D	.2443	75.56	-.0134	121.0	.0329	.6450
30	ICSA	247.7	-.0058	-.0113	194.7	.0081	-.0242
31	ICSAB	244.1	.4629	-.0129	192.3	.0126	.9288
32	CCV 2	5.032	5.131	5.189	4.960	5.114	5.233
33	CCB 2	-.0021	.0009	.0050	.0190	.0019	-.0052

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.078	5.231	4.897	4.806	5.008	4.895
2	ICB	.0012	-.0024	.0039	.0056	.0040	.0225
3	ICSA	.0134	.0428	-.0354	-.0010	-.0695	.0244
4	ICSAB	.0175	1.032	-.0216	-.0034	-.0635	.0292
5	PREPSTD TJ A	4.668	4.483	4.468	4.274	4.538	6.871
6	PREPBLK TJ A	.0086	-.0002	.0577	.0024	.0319	.0847
7	S95T003084 L	12.21	19.52	-.3525	-.3270	1.332	6.895
8	S95T003084	11.33	18.99	.3976	-.2241	.2005	6.011
9	S95T003084 D	11.41	20.53	.3092	-.1702	.2644	5.302
10	S95T003084 S	16.12	24.43	5.092	4.647	5.174	16.14
11	CCV	5.138	5.191	4.891	4.760	4.988	4.800
12	CCB	.0009	-.0134	-.0037	.0027	.0332	.0122
13	S95T003282 L	17.13	-.0686	.6115	-.1094	.1515	5.062
14	S95T003282	16.11	-.0305	.5707	-.1043	.0717	4.761
15	S95T003282 D	14.71	-.0428	.5459	-.0772	.0886	4.593
16	S95T003283 L	15.18	-.0698	.5916	-.0920	.2965	2.270

Analysis Report

Averages

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#	Sample Name	P	Pb	S	Sb	Se	Si
17	S95T003283	13.79	-.0958	.5890	-.0930	.0887	2.030
18	S95T003283_D	15.49	-.1222	.6292	-.1166	.0924	2.196
19	S95T003284-L	12.23	-.0710	.6893	-.1186	.3026	2.487
20	S95T003284-	11.18	-.0783	.5931	-.1134	.0925	2.244
21	S95T003284_D	11.77	-.1012	.6059	-.1177	.0888	1.947
22	CCV_1	5.321	5.333	5.028	4.879	5.169	4.945
23	CCB-1	.0115	.0093	.0003	.0096	.0423	.0137
24	S95T003285_L	15.73	-.1896	.0038	-.0041	1.518	3.179
25	S95T003285-	15.82	-.3132	.6724	-.1524	.4280	2.768
26	S95T003285_D	13.87	-.1877	.5874	-.0851	.6145	2.537
27	S95T003286-L	12.05	-.0912	.5783	-.0770	.2869	2.646
28	S95T003286-	10.87	-.0668	.5429	-.1072	.0994	2.886
29	S95T003286_D	12.45	-.0938	.5784	-.1433	.0894	5.822
30	ICSA	.0461	.0647	-.0361	-.0032	-.0190	.0525
31	ICSAB	.0187	1.087	-.0271	.0063	-.0034	.0416
32	CCV_2	5.315	5.367	5.036	4.882	5.132	4.960
33	CCB-2	-.0000	-.0108	-.0030	.0017	.0407	.0278
<hr/>							
#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.034	5.073	-.0836	4.899	5.054	9.613
2	ICB	.0081	-.0007	.0047	.0007	-.0038	.0293
3	ICSA	.0032	-.0023	-.0458	.0012	-.0235	.4241
4	ICSAB	.0117	-.0022	-.0392	.0010	.0097	.4296
5	PREPSTD TJ A	4.586	4.645	-.0757	4.544	4.409	8.963
6	PREPBLK TJ A	-.0112	-.0005	.0066	.0007	-.0056	-.0355
7	S95T003084_L	.7786	1.675	-.1368	.0336	-.1677	3.334
8	S95T003084-	.0924	1.640	-.0000	.0207	-.3046	.4723
9	S95T003084_D	.1082	1.498	.0159	.0231	-.0848	.5306
10	S95T003084-S	4.949	6.483	-.0521	4.864	4.445	10.08
11	CCV	4.904	4.942	-.0735	4.839	4.917	9.365
12	CCB	.0183	.0004	.0032	.0000	-.0023	.0762
13	S95T003282_L	.0357	2.093	.0118	.0201	-.1905	1.683
14	S95T003282-	-.0075	1.989	-.0057	.0156	-.1273	1.462
15	S95T003282_D	-.0186	1.851	-.0014	.0148	-.1222	1.357
16	S95T003283-L	.0862	2.112	-.0018	.0106	-.1660	2.065
17	S95T003283-	-.0206	1.924	.0007	.0080	-.1199	1.538
18	S95T003283_D	-.0048	2.109	-.0048	.0088	-.1106	1.761
19	S95T003284-L	.0767	1.731	.0363	.0139	-.2497	.4477
20	S95T003284-	-.0126	1.581	.0086	.0101	-.1141	.1120
21	S95T003284_D	-.0090	1.715	.0107	.0101	-.1339	.1407
22	CCV_1	5.022	5.063	-.0709	4.941	5.022	9.602
23	CCB-1	.0234	.0004	-.0006	.0002	-.0097	.0825
24	S95T003285_L	.9836	2.764	.0780	.0113	-.3568	3.897
25	S95T003285-	.1283	2.691	.0178	.0185	-.2096	.5367
26	S95T003285_D	.1352	2.352	.0560	.0140	-.0514	.6048
27	S95T003286-L	.0459	2.476	.0557	.0141	-.0837	.2563
28	S95T003286-	-.0211	2.286	.0113	.0097	-.1114	.0512
29	S95T003286_D	-.0146	2.597	.0107	.0104	-.1239	.0812
30	ICSA	.0261	-.0023	-.0325	.0013	-.0035	.4146
31	ICSAB	.0269	-.0023	-.0329	.0018	-.0102	.4029
32	CCV_2	5.002	5.049	-.0713	4.952	5.067	9.551
33	CCB-2	.0303	.0005	-.0022	.0007	-.0124	.1118

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.015	.0076	4.992	4.970
2	ICB	.0019	.0005	.0002	-.0001
3	ICSA	-.0001	.0102	.0085	.0017
4	ICSAB	.4639	.0102	.9667	.0021
5	PREPSTDTJA	4.560	.0048	4.378	4.586
6	PREPBLKTJA	.0004	-.0005	.0031	-.0021
7	S95T003084 L	.2200	.0495	2.123	.1218
8	S95T003084-	.0518	.0084	2.057	.0016
9	S95T003084 D	.0583	.0100	2.061	.0002
10	S95T003084-S	4.972	.0177	6.969	4.936
11	CCV	4.952	.0081	4.960	4.870
12	CCB	.0039	.0011	-.0000	.0020
13	S95T003282 L	.0308	.0052	.0679	.0086
14	S95T003282-	.0181	.0017	.0545	.0069
15	S95T003282 D	.0160	.0010	.0530	.0025
16	S95T003283-L	.0462	.0066	.0632	.0095
17	S95T003283-	.0194	.0006	.0381	.0006
18	S95T003283 D	.0254	.0016	.0485	.0008
19	S95T003284-L	.0444	.0061	.0550	.0077
20	S95T003284-	.0196	.0009	.0324	.0010
21	S95T003284 D	.0218	.0014	.0333	.0007
22	CCV 1	5.090	.0086	5.096	5.001
23	CCB-1	.0042	.0012	.0010	.0023
24	S95T003285 L	.2307	.0532	.1745	.1053
25	S95T003285-	.0611	.0076	.0476	.0205
26	S95T003285 D	.0573	.0107	.0643	.0176
27	S95T003286-L	.0432	.0042	.0681	.0064
28	S95T003286-	.0227	.0008	.0323	.0001
29	S95T003286 D	.0275	.0012	.0444	.0007
30	ICSA	.0052	.0116	.0098	.0032
31	ICSAB	.4845	.0114	1.007	.0032
32	CCV 2	5.089	.0087	5.106	4.990
33	CCB-2	.0059	.0015	-.0008	.0024

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1/10/96

WHC-SD-WM-DP-160, REV. 1

RADIOCHEMICAL ANALYSES

LABCORE Data Entry Template for Worklist#

3474

Analyst: SMP Instrument: AB00 16 Book # 150B52

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
		1 STD			ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
		2 BLNK			ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
		2 BLNK			ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
		3 BLNK/BKG			ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000161	B-204	4 SAMPLE	S95T003255	0	ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000161	B-204	4 SAMPLE	S95T003255	0	ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000161	B-204	5 DUP	S95T003255	0	ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000161	B-204	5 DUP	S95T003255	0	ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000161	B-204	6 SPK	S95T003255	0	ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000161	B-204	7 SAMPLE	S95T003349	0	ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000161	B-204	7 SAMPLE	S95T003349	0	ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000161	B-204	8 DUP	S95T003349	0	ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000161	B-204	8 DUP	S95T003349	0	ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000161	B-204	9 SPK	S95T003349	0	ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL

Final page for worklist #

3474

Lucie M. Fulton 11.19.95
2300

AC Brown 11/21/95

Data Entry Comments:

sample size .500 ml
.100 ml spk # 15 112B43

Low SPK recovery

For 3255 is acceptable

SMP

due to low sample activity.

11.19.95

11/24/95

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#

3474

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
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 Completed Worklist Report for Worklist# 3474

Analyst: smf Instrument: AB16 Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	LIQUID	1.28E-05	1.38E-5	107.810 % Recovery	
1 STD		0	QALPHA01 ALPHA01E	LIQUID	1.00	4.52E+00	4.520 % Ct. Error	
2 BLNK		0	QALPHA01 ALPHA01	LIQUID	1	<7.65E-7	uCi/mL	
2 BLNK		0	QALPHA01 ALPHA01E	LIQUID	1.00	1.84E+02	184.000 % Ct. Error	
3 BLNK/BKG		0	QALPHA01 ALPHA01	LIQUID	1.00E+00	5.00E+00	5.000 uCi/mL	
4 SAMPLE	S95T003255	0	QALPHA01 ALPHA01	LIQUID	N/A	9.05E-05	1.020e-006 uCi/mL	
4 SAMPLE	S95T003255	0	QALPHA01 ALPHA01E	LIQUID	N/A	8.06E+00	0.000 % Ct. Error	
5 DUP	S95T003255	0	QALPHA01 ALPHA01	LIQUID	9.05E-5	9.15E-5	1.100 RPD	
5 DUP	S95T003255	0	QALPHA01 ALPHA01E	LIQUID	1.00	7.86E+00	7.860 % Ct. Error	
6 SPK	S95T003255	0	QALPHA01 ALPHA01	LIQUID	4.48E-02	3.44E-02	76.790 % Recovery	
7 SAMPLE	S95T003349	0	QALPHA01 ALPHA01	LIQUID	N/A	7.65E-07	1.020e-006 uCi/mL	
7 SAMPLE	S95T003349	0	QALPHA01 ALPHA01E	LIQUID	N/A	1.84E+02	0.000 % Ct. Error	
8 DUP	S95T003349	0	QALPHA01 ALPHA01	LIQUID	<7.65E-7	1.51E-6	RPD	
8 DUP	S95T003349	0	QALPHA01 ALPHA01E	LIQUID	1.00	8.24E+01	82.400 % Ct. Error	
9 SPK	S95T003349	0	QALPHA01 ALPHA01	LIQUID	4.48E-02	5.03E-02	112.280 % Recovery	

Final page for worklist# 3474

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

 Reviewer Signature _____ Date 11/28/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	16	16
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1884	1983
3474	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.03	0.03
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	62.770	66.070
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05	
95003896	Concentration in $\mu\text{Ci/L}$ =	1.34E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.41E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.3792E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
WRKLST#3474	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.38E-05	DETECTION LEVEL
Analyst			
SMF			
Date Complete			5.10E-08 $\mu\text{Ci/mL}$
11/21/95	RELATIVE COUNTING ERROR	4.5%	
Analysis Date			
11/19/95			
Analysis Time			
11:00 PM			
Sample Point			
B-204			

Analyst:	SMF	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/27/95

STANDARD.WB1 Rev. 1.0

508101ML

946

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

LIQUIDS

		BLNK	REPLICATE
Type	DETECTOR NUMBER	16	16
BLNK	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3	6
3474	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.03	0.03
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	0.179	0.170

Batch Number	
95003896	Blank Concentration in $\mu\text{Ci/L}$ < 7.65E-04
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ 7.28E-04
0	Maximum Concentration in $\mu\text{Ci/L}$ < 7.6481E-04

Sample Prep	
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$
WRKLS#3474	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By	
MCB	
Chemist	
SLF	ν RESULTS ν
Analyst	ALPHA TOTAL in $\mu\text{Ci/m}$ < 7.65E-07
SMF	LESS THAN Value was Determined from Rmax.
Date Complete	RELATIVE COUNTING ERROR 184.3%
11/21/95	
Analysis Date	
11/19/95	
Analysis Time	
11:00 PM	
Sample Point	
B-204	

Analyst:	SMF	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/27/95

BLANK.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) LIQUIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	676	594
3474	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.03	0.03
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	22.503	19.770
Batch Number			
95003896	Blank Concentration in $\mu\text{Ci/L}$	9.64E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	8.47E-02	
0	Average Concentration in $\mu\text{Ci/L}$	9.0504E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003255	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL in $\mu\text{Ci/mL}$	9.05E-05	DETECTION LEVEL
Analyst			
SMF			
Date Complete	RELATIVE COUNTING ERROR	8.1%	1.02E-06 $\mu\text{Ci/mL}$
11/21/95			
Analysis Date			
11/19/95			
Analysis Time			
11:00 PM			
Sample Point			
B-204			

Analyst:	SMF	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/27/95
SAMPLE.WB1 Rev. 1.	508101ML	

AT : LA-508-101 (D-2) LIQUIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	625	659
3474	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.03	0.03
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	20.803	21.937
Batch Number			
95003896	Blank Concentration in $\mu\text{Ci/L}$	8.91E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	9.39E-02	
0	Average Concentration in $\mu\text{Ci/L}$	9.1503E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003255	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/m}$	9.15E-05	DETECTION LEVEL
SMF			
Date Complete			1.02E-06
11/21/95	RELATIVE COUNTING ERROR	7.9%	$\mu\text{Ci/mL}$
Analysis Date			
11/19/95			
Analysis Time			
11:00 PM			
Sample Point			
B-204			

Analyst:	SMF	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/27/95
SAMPLE.WB1 Rev. 1.	508101ML	

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	49745	48035
3474	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.03	0.03
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95003896	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4762E-02	4.4762E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/mL}$ (S+S)	7.10E-03	6.86E-03
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/mL}$ in SAMPLE	9.0504E-05	
N/A			
Sample #			
S95T003255	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/mL}$ = $R_s * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
WB27806	QC ACTUAL = SVal		
Prepared By	QC FOUND = $((S+S \mu\text{Ci/mL} - \text{SAMPLE } \mu\text{Ci/mL}) * ((SDF/SVol)/(DF*DDF/SS)))$		
MCB	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
SMF			
Date Complete			
11/21/95			
Analysis Date			
11/19/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	3.44E-02	
11:00 PM	AVG. PERCENT SPIKE RECOVERY =	76.9%	
Sample Point			
B-204			

Analyst:	SMF	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/22/95

SPIKE.WB1 Rev. 1.0

508101 ML

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WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) LIQUIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4	3
3474	COUNT TIME in MINUTES (CT)	30	30
AT or IB ?	BACKGROUND in cpm (BKG)	0.03	0.03
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	0.103	0.179
Batch Number			
95003896	Blank Concentration in $\mu\text{Ci/L}$	4.42E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	< 7.65E-04	
0	Maximum Concentration in $\mu\text{Ci/L}$	< 7.6481E-04	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003349	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL	in $\mu\text{Ci/mL}$	< 7.65E-07
Analyst			
SMF	LESS THAN Value was Determined from R_s .		
Date Complete	RELATIVE COUNTING ERROR		184.3%
11/21/95			
Analysis Date			
11/19/95			
Analysis Time			
11:00 PM			
Sample Point			
B-204			

Analyst:	SMF	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/27/95
SAMPLE.WB1 Rev. 1.	508101ML	

AT : LA-508-101 (D-2) LIQUIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	8	15
3474	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.03	0.03
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	0.237	0.470
Batch Number			
95003896	Blank Concentration in $\mu\text{Ci/L}$	1.01E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	2.01E-03	
0	Average Concentration in $\mu\text{Ci/L}$	1.5129E-03	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/ μCi)		
S95T003349	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL	in $\mu\text{Ci/mL}$	1.51E-06
Analyst			DETECTION LEVEL
SMF			
Date Complete			1.02E-06
11/21/95	RELATIVE COUNTING ERROR	82.4%	$\mu\text{Ci/mL}$
Analysis Date			
11/19/95			
Analysis Time			
11:00 PM			
Sample Point			
B-204			

Analyst:	SMF	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/27/95
SAMPLE.WB1 Rev. 1.	508101ML	

952

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	71414	69428
3474	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.03	0.03
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95003896	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4762E-02	4.4762E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/mL}$ (S+S)	1.02E-02	9.91E-03
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/mL}$ in SAMPLE	< 7.6481E-07	
N/A			
Sample #			
S95T003349	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/mL}$ = $R_s * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
WB27806	QC ACTUAL = SVal		
Prepared By	QC FOUND = $((S+S \mu\text{Ci/mL} - \text{SAMPLE } \mu\text{Ci/mL}) * ((SDF/SVol)/(DF*DDF/SS)))$		
MCB	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
SMF			
Date Complete	NOTE: Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.		
11/21/95			
Analysis Date			
11/19/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	5.03E-02	
11:00 PM	AVG. PERCENT SPIKE RECOVERY =	112.3%	
Sample Point			
B-204			

Analyst:	SMF	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/27/95

SPIKE.WB1 Rev. 1.0 508101ML

LABCORE Data Entry Template for Worklist#

3854

Analyst: CRJ Instrument: AB00 15 Book # 11B456

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
		1 STD			@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
		2 BLNK-PREP			@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	4 SAMPLE	S95T002976	0	@ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000158	B-204	4 SAMPLE	S95T002976	0	@ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T002976	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	5 DUP	S95T002976	0	@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T002976	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	7 SAMPLE	S95T002984	0	@ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000158	B-204	7 SAMPLE	S95T002984	0	@ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000158	B-204	8 DUP	S95T002984	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	8 DUP	S95T002984	0	@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000158	B-204	9 SPK	S95T002984	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	10 SAMPLE	S95T002986	0	@ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000158	B-204	10 SAMPLE	S95T002986	0	@ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000158	B-204	11 DUP	S95T002986	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL

Data Entry Comments:

Low SPK recovery is consistent with 1st run and indicates a matrix problem (i.e. solids in sample). The STD recovery is low, but within method low level limits. No rerun requested. 12/13/95

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#

3854

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	11 DUP	S95T002986	0	@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000158	B-204	12 SPK	S95T002986	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL

Final page for worklist #

3854

Carolina Johnson 12/12/95
Analyst Signature Date

McBrien 12/13/95
Analyst Signature Date
Sylvia Z. Chaw 12/13/95

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 Completed Worklist Report for Worklist# 3854

Analyst: crj

Instrument: AB15

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	STD		0		QALPHA01 ALPHA01 LIQUID		1.92E-05	1.49E-5	77.600 % Recovery	
1	STD		0		QALPHA01 ALPHA01E LIQUID		1.00	4.13E+00	4.130 % Ct. Error	
2	BLNK-PREP		0		QALPHA01 ALPHA01 LIQUID		1	<6.25E-6	uCi/mL	
2	BLNK-PREP		0		QALPHA01 ALPHA01E LIQUID		1.00	5.00E+02	500.000 % Ct. Error	
3	BLNK/BKG		0		QALPHA01 ALPHA01 LIQUID		1.00E+00	4.72E-01	0.470 uCi/mL	
4	SAMPLE	S95T002976	0		QALPHA01 ALPHA01 LIQUID		N/A	1.36E-04	1.420e-005 uCi/mL	
4	SAMPLE	S95T002976	0		QALPHA01 ALPHA01E LIQUID		N/A	1.47E+01	0.000 % Ct. Error	
5	DUP	S95T002976	0		QALPHA01 ALPHA01 LIQUID		1.36E-4	1.02E-4	28.570 RPD	
5	DUP	S95T002976	0		QALPHA01 ALPHA01E LIQUID		1.00	1.71E+01	17.100 % Ct. Error	
6	SPK	S95T002976	0		QALPHA01 ALPHA01 LIQUID		3.92E-02	1.86E-02	47.450 % Recovery	
7	SAMPLE	S95T002984	0		QALPHA01 ALPHA01 LIQUID		N/A	9.75E-05	1.420e-005 uCi/mL	
7	SAMPLE	S95T002984	0		QALPHA01 ALPHA01E LIQUID		N/A	1.81E+01	0.000 % Ct. Error	
8	DUP	S95T002984	0		QALPHA01 ALPHA01 LIQUID		9.75E-5	9.87E-5	1.220 RPD	
8	DUP	S95T002984	0		QALPHA01 ALPHA01E LIQUID		1.00	1.92E+01	19.200 % Ct. Error	
9	SPK	S95T002984	0		QALPHA01 ALPHA01 LIQUID		3.92E-02	1.82E-02	46.430 % Recovery	
10	SAMPLE	S95T002986	0		QALPHA01 ALPHA01 LIQUID		N/A	6.25E-06	1.420e-005 uCi/mL	
10	SAMPLE	S95T002986	0		QALPHA01 ALPHA01E LIQUID		N/A	5.00E+02	0.000 % Ct. Error	
11	DUP	S95T002986	0		QALPHA01 ALPHA01 LIQUID		<6.25E-6	<6.25E-6	RPD	
11	DUP	S95T002986	0		QALPHA01 ALPHA01E LIQUID		1.00	5.00E+02	500.000 % Ct. Error	
12	SPK	S95T002986	0		QALPHA01 ALPHA01 LIQUID		3.92E-02	1.26E-02	32.140 % Recovery	

Final page for worklist# 3854

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

12/13/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

Type	DETECTOR NUMBER	STANDARD	REPLICATE
STD	DISH SIZE (1, 2, or 5) (MS)	15	15
Work List	GROSS COUNTS (GC)	2	2
3854	COUNT TIME in MINUTES (CT)	2310	2441
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.6	0.6
Test Code	DILUTION FACTOR (DF)	10.000	10.000
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	11B56	11B56
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.2380	0.2380
Batch Number	Standard Value in $\mu\text{Ci/mL}$	76.400	80.767
95004339	Concentration in $\mu\text{Ci/L}$ =	1.92E-05	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.45E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.53E-02	
Sample Prep		1.4873E-02	
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)		
WL#3854	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.49E-05	DETECTION LEVEL
Analyst			
CRJ			
Date Complete			
12/13/95	RELATIVE COUNTING ERROR =	4.1%	1.42E-07 $\mu\text{Ci/mL}$
Analysis Date			
12/12/95			
Analysis Time			
12:15 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
STANDARD.WB1 Rev. 1.0	508101ML	

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WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) LIQUIDS

Type	DETECTOR NUMBER	BLNK-PREP	REPLICATE
BLNK-PREP	DISH SIZE (1 , 2 , or 5) (MS)	15	15
Work List	GROSS COUNTS (GC)	2	2
3854	COUNT TIME in MINUTES (CT)	7	10
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.6	0.6
Test Code	DILUTION FACTOR (DF)	0.100	0.100
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	1	1
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	0.2380	0.2380
Batch Number		0.330	0.330
95004339	Blank Concentration in µCi/L	< 6.25E-03	
Rerun	Replicate Concentration in µCi/L	< 6.25E-03	
0	Maximum Concentration in µCi/L	< 6.2457E-03	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/µCi)		
WL#3854	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL in µCi/mL	< 6.25E-06	
Analyst	LESS Than Value was Determined from Lc.		DETECTION LEVEL
CRJ			
Date Complete	RELATIVE COUNTING ERROR	500.0%	1.42E-05 µCi/mL
12/13/95			
Analysis Date			
12/12/95			
Analysis Time			
12:15 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
BLANK.WB1 Rev. 1.0	508101ML	

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WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) LIQUIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	227	241
3854	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	6.967	7.433
Batch Number			
95004339	Blank Concentration in $\mu\text{Ci/L}$	1.32E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	1.41E-01	
0	Average Concentration in $\mu\text{Ci/L}$	1.3627E-01	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002976	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	α RESULTS α		
Analyst	ALPHA TOTAL in $\mu\text{Ci/mL}$	1.36E-04	DETECTION LEVEL
CRJ			
Date Complete			
12/13/95	RELATIVE COUNTING ERROR	14.7%	1.42E-05 $\mu\text{Ci/mL}$
Analysis Date			
12/12/95			
Analysis Time			
12:15 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SAMPLE.WB1 Rev. 1.0 508101ML		

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WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) LIQUIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	180	179
3854	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	5.400	5.367
Batch Number			
95004339	Blank Concentration in $\mu\text{Ci/L}$	1.02E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	1.02E-01	
0	Average Concentration in $\mu\text{Ci/L}$	1.0189E-01	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002976	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/m}$	1.02E-04	DETECTION LEVEL
CRJ			
Date Complete			
12/13/95	RELATIVE COUNTING ERROR	17.1%	1.42E-05 $\mu\text{Ci/mL}$
Analysis Date			
12/12/95			
Analysis Time			
12:15 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SAMPLE.WB1 Rev. 1.0	508101ML	

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WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type	DETECTOR NUMBER	SPIKE	REPLICATE
SPK	DISH SIZE 1, 2, or 5 (MS)	15	15
Work List	TOTAL COUNTS (TC)	2	2
3854	COUNT TIME in MINUTES (CT)	27462	31865
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.6	0.6
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	0.100	0.100
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	1	1
LIQUID	SPIKE DILUTION FACTOR (SDF)	0.100	0.100
Batch Number	SPIKE BOOK NUMBER (Spk BN)	1	1
95004339	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	119B43	119B43
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	3.9216E-02	3.9216E-02
0	SAMPLE + SPIKE $\mu\text{Ci/mL}$ (S+S)	0.238	0.238
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/mL}$ in SAMPLE	1.73E-02	2.01E-02
N/A		1.3627E-04	
Sample #	$R_s \text{ (Sample Count Rate)} = (TC / CT) - BKG$ $\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/mL} = R_s * DF * DDF / (EFF * SS * 2220000 \text{dpm}/\mu\text{Ci})$ $QC \text{ ACTUAL} = SVal$ $QC \text{ FOUND} = (((S+S \mu\text{Ci/mL} - \text{SAMPLE } \mu\text{Ci/mL}) * ((SDF/SVol)/(DF*DDF/SS))))$ $\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
S95T002976			
Instrument Code			
WB26872			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
CRJ			
Date Complete			
12/13/95			
Analysis Date			
12/12/95	QC ACTUAL	=	3.92E-02
Analysis Time	QC FOUND	=	1.86E-02
12:15 PM	AVG. PERCENT SPIKE RECOVERY	=	47.3%
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SPIKE.WB1 Rev. 1.0	508101ML	

AT : LA-508-101 (D-2) LIQUIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	181	164
3854	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	5.433	4.867
Batch Number			
95004339	Blank Concentration in $\mu\text{Ci/L}$	1.03E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	9.21E-02	
0	Average Concentration in $\mu\text{Ci/L}$	9.7471E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002984	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF			
Analyst	ALPHA TOTAL	in $\mu\text{Ci/m}$	9.75E-05
CRJ			
Date Complete			
12/13/95	RELATIVE COUNTING ERROR	18.1%	
Analysis Date			
12/12/95			
Analysis Time			
12:15 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SAMPLE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) LIQUIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	150	199
3854	COUNT TIME in MINUTES (CT)	30	30
AT or IB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	4.400	6.033
Batch Number			
95004339	Blank Concentration in $\mu\text{Ci/L}$	8.33E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	1.14E-01	
0	Average Concentration in $\mu\text{Ci/L}$	9.8733E-02	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
S95T002984	ALPHA TOTAL $\mu\text{Ci/L}$ = $Rs * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
Instrument Code	ALPHA TOTAL $\mu\text{Ci/mL}$ = $ALPHA TOTAL \mu\text{Ci/L} / 1000\text{mL/L}$		
WB26872	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
Prepared By	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
MCB			
Chemist			
SLF			
Analyst	ν RESULTS ν		
CRJ	ALPHA TOTAL in $\mu\text{Ci/mL}$	9.87E-05	DETECTION LEVEL
Date Complete			
12/13/95	RELATIVE COUNTING ERROR	19.2%	1.42E-05 $\mu\text{Ci/mL}$
Analysis Date			
12/12/95			
Analysis Time			
12:15 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SAMPLE.WB1 Rev. 1.	508101ML	

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WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	31803	26232
3854	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004339	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9216E-02	3.9216E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/mL}$ (S+S)	2.01E-02	1.65E-02
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/mL}$ in SAMPLE	9.7471E-05	
N/A			
Sample #			
S95T002984			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB26872	SAMPLE + SPIKE $\mu\text{Ci/mL}$ = Rs * DF * DDF / (EFF * SS * 2220000dpm/ μCi)		
Prepared By	QC ACTUAL = SVal		
MCB	QC FOUND = (((S+S $\mu\text{Ci/mL}$ - SAMPLE $\mu\text{Ci/mL}$) * ((SDF/SVol)/(DF*DDF/SS))))		
Chemist	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
SLF			
Analyst			
CRJ			
Date Complete			
12/13/95			
Analysis Date			
12/12/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	1.82E-02	
12:15 PM	AVG. PERCENT SPIKE RECOVERY =	46.4%	
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SPIKE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SAM10

AT : LA-508-101 (D-2) LIQUIDS

Type	DETECTOR NUMBER	SAMPLE	REPLICATE
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	15	15
Work List	GROSS COUNTS (GC)	2	2
3854	COUNT TIME in MINUTES (CT)	7	6
AT or IB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.6	0.6
Test Code	DILUTION FACTOR (DF)	0.100	0.100
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	1	1
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.2380	0.2380
Batch Number		0.330	0.330
95004339	Blank Concentration in $\mu\text{Ci/L}$	< 6.25E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	< 6.25E-03	
0	Maximum Concentration in $\mu\text{Ci/L}$	< 6.2457E-03	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
S95T002986	ALPHA TOTAL $\mu\text{Ci/L}$ = $Rs * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
Instrument Code	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
WB26872	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
Prepared By	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
MCB			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/m}$	< 6.25E-06	DETECTION LEVEL
CRJ	LESS Than Value was Determined from Lc.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	1.42E-05 $\mu\text{Ci/mL}$
12/13/95			
Analysis Date			
12/12/95			
Analysis Time			
12:15 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SAMPLE.WB1 Rev. 1.	508101ML	

WORKBOOK PAGE: DUP11

AT : LA-508-101 (D-2) LIQUIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	9	10
3854	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.330	0.330
Batch Number			
95004339	Blank Concentration in $\mu\text{Ci/L}$	< 6.25E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	< 6.25E-03	
0	Maximum Concentration in $\mu\text{Ci/L}$	< 6.2457E-03	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = (TC / CT) - BKG		
S95T002986	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/ μCi)		
Instrument Code	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
WB26872	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
Prepared By	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
MCB			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/mL}$	< 6.25E-06	DETECTION LEVEL
CRJ	LESS Than Value was Determined from Lc.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	1.42E-05 $\mu\text{Ci/mL}$
12/13/95			
Analysis Date			
12/12/95			
Analysis Time			
12:15 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SAMPLE.WB1 Rev. 1.	508101ML	

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	15025	25101
3854	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004339	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9216E-02	3.9216E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/mL}$ (S+S)	9.47E-03	1.58E-02
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/mL}$ in SAMPLE	< 6.2457E-06	
N/A			
Sample #			
S95T002986			
Instrument Code			
WB26872			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
CRJ			
Date Complete	NOTE: Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.		
12/13/95			
Analysis Date			
12/12/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	1.26E-02	
12:15 PM	AVG. PERCENT SPIKE RECOVERY =	32.2%	
Sample Point			
B-204			

Analyst:	MCB	Date: 13-Dec-95
Signature of Chemist:	SLF	Date: 12/13/95
SPIKE.WB1 Rev. 1.0	508/01ML	

B204
LABCORE Data Entry Template for Worklist# 3855

Analyst: ADP Instrument: AB00 18 Book# 150B52

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T003336	0 F	@ALPHA01	SOLID	95000161	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
5 DUP	S95T003336	0 F	@ALPHA01	SOLID		
6 SPK	S95T003336	0 F	@ALPHA01	SOLID		

Final page for worklist # 3855

Anthony Perreault 11-29-95
Analyst Signature Date

SEPLOGAN 11/30/95
Analyst Signature Date

C.F. Opium 12/1/95

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 3855

Analyst: adp

Instrument: AB18

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD	0		@ALPHA01 ALPHA01	SOLID	1.28E-05	1.36E-5	106.250 % Recovery	
1 STD	0		@ALPHA01 ALPHA01E	SOLID	1.00	4.54E+00	4.540 % Ct. Error	
2 BLNK-PREP	0		@ALPHA01 ALPHA01	SOLID	1	<3.28E-3	uCi/g	
2 BLNK-PREP	0		@ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG	0		@ALPHA01 ALPHA01	SOLID	1.00E+00	8.02E-01	0.800 uCi/g	
4 SAMPLE	S95T003336	0 F	@ALPHA01 ALPHA01	SOLID	N/A	2.61E-01	5.200e-003 uCi/g	
4 SAMPLE	S95T003336	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	7.13E+00	0.000 % Ct. Error	
5 DUP	S95T003336	0 F	@ALPHA01 ALPHA01	SOLID	2.61E-1	2.82E-1	7.730 RPD	
5 DUP	S95T003336	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	7.31E+00	7.310 % Ct. Error	
6 SPK	S95T003336	0 F	@ALPHA01 ALPHA01	SOLID	3.92E-02	3.67E-02	93.620 % Recovery	

Final page for worklist# 3855

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	18
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	1884
3855	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.27
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2095
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	62.530
Batch Number	Standard Value in µCi/mL	1.28E-05
95004344	Concentration in µCi/L =	1.34E-02
Rerun	Replicate Concentration in µCi/L =	1.37E-02
0	AVERAGE CONCENTRATION in µCi/L =	1.3559E-02
Sample Prep		
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG	
Sample #	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)	
	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L	
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100	
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
SEH		
Chemist		
SLF	ALPHA TOTAL CONCENTRATION in µCi/mL	1.36E-05
Analyst		
ADP		
Date Complete		
11/30/95	RELATIVE COUNTING ERROR	4.5%
Analysis Date		
11/29/95		
Analysis Time		
08:00 AM		
Sample Point		
B-204		

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95

STANDARD.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	18	18
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2	11
3855	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.27	0.27
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.206	2.206
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	0.221	0.337
Batch Number			
95004344	Blank Concentration in $\mu\text{Ci/g}$	< 2.16E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 3.28E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 3.2850E-03	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/29/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95
BLANK.WBT Rev. 1.0	508101ML	

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	18	18
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	779	846
3855	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.27	0.27
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.206	2.206
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	25.697	27.930
Batch Number			
95004344	Blank Concentration in $\mu\text{Ci/g}$	2.50E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.72E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.6134E-01	
Sample Prep			
FUSION01			
Sample #			
S95T003336			
Instrument Code			
WB27809			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/29/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$	
RELATIVE COUNTING ERROR		7.1%
		5.20E-03 $\mu\text{Ci/g}$

Analyst:

SEH

Date: 30-Nov-95

Signature of Chemist:

SLF

Date: 12/4/95

SAMPLE.WB1 Rev. 1.0

508101ML

AT : LA-508-101 (D-2)

SOLIDS

Type	DETECTOR NUMBER	DUP	REPLICATE
DUP	DISH SIZE (1, 2, or 5) (MS)	18	18
Work List	GROSS COUNTS (GC)	2	2
3855	COUNT TIME in MINUTES (CT)	742	964
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.27	0.27
Test Code	DILUTION FACTOR (DF)	0.100	0.100
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	2.1464	2.1464
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	0.2095	0.2095
Batch Number		24.463	31.863
95004344	Blank Concentration in $\mu\text{Ci/g}$		
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.45E-01	
1	Average Concentration in $\mu\text{Ci/g}$	3.19E-01	
Sample Prep		2.8212E-01	
FUSION01	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003336	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
Instrument Code	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
WB27809			
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.82E-01	DETECTION LEVEL
ADP			
Date Complete			
11/30/95	RELATIVE COUNTING ERROR	7.3%	5.34E-03 $\mu\text{Ci/g}$
Analysis Date			
11/29/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	508101ML	

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	18	18
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	51799	52105
3855	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.27	0.27
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.206	2.206
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004344	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9219E-02	3.9219E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2095	0.2095
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.68E+01	1.69E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.6134E-01	
FUSION01			
Sample #			
S95T003336			
Instrument Code			
WB27809			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/29/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.67E-02	
08:00 AM	AVG. PERCENT SPIKE RECOVERY =	93.5%	
Sample Point			
B-204			

Rs (Sample Count Rate) = (TC / CT) - BKG
SAMPLE + SPIKE $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)
QC ACTUAL = SVal
QC FOUND = (((S+S $\mu\text{Ci/g}$ - SAMPLE $\mu\text{Ci/g}$) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))
PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SPIKE.WB1 Rev. 1.0	508101ML	

LABCORE Data Entry Template for Worklist# 3856

Analyst: ADD Instrument: AB00 16 Book# 150B52

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T003114	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
5 DUP	S95T003114	0 F	@ALPHA01	SOLID		
6 SPK	S95T003114	0 F	@ALPHA01	SOLID		
7 SAMPLE	S95T003115	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
8 DUP	S95T003115	0 F	@ALPHA01	SOLID		
9 SPK	S95T003115	0 F	@ALPHA01	SOLID		

Final page for worklist # 3856

[Signature] 11-28-95
Analyst Signature Date

[Signature] 11/30/95
Analyst Signature Date

C. J. Oprien 12/1/95

Data Entry Comments:

The Recur for 3114 shows a consistently high
RPD. No recur requested. [Signature] 12/4/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

Type	DETECTOR NUMBER	STANDARD	REPLICATE
STD	DISH SIZE (1, 2, or 5)	16	16
Work List	(MS)	2	2
3856	GROSS COUNTS (GC)	1957	1971
AT or TB ?	COUNT TIME in MINUTES (CT)	30	30
AT	BACKGROUND in cpm (BKG)	0.27	0.27
Test Code	SAMPLE SIZE in mL (SS)	10.000	10.000
@ALPHA01	DILUTION FACTOR (DF)	1	1
Matrix	STANDARD BOOK NUMBER (Std BN)	150B52	150B52
LIQUID	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
Batch Number	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	64.963	65.430
95004343	Standard Value in $\mu\text{Ci/mL}$	1.28E-05	
Rerun	Concentration in $\mu\text{Ci/L}$ =	1.39E-02	
0	Replicate Concentration in $\mu\text{Ci/L}$ =	1.40E-02	
Sample Prep	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.3958E-02	
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)		
Instrument Code	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
WB27806	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
Prepared By	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
SEH			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.40E-05	DETECTION LEVEL
Analyst			
ADP			
Date Complete			
11/30/95	RELATIVE COUNTING ERROR =	4.5%	1.14E-07 $\mu\text{Ci/mL}$
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:

SEH

Date: 30-Nov-95

Signature of Chemist:

SLF

Date: 12/4/95

STANDARD.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

Type	DETECTOR NUMBER	BLNK-PREP	REPLICATE
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	16	16
Work List	GROSS COUNTS (GC)	2	2
3856	COUNT TIME in MINUTES (CT)	3	10
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.27	0.27
Test Code	DILUTION FACTOR (DF)	0.100	0.100
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	1.874	1.874
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.2104	0.2104
Batch Number		0.221	0.297
95004343	Blank Concentration in $\mu\text{Ci/g}$	< 2.53E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 3.40E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 3.3968E-03	
Sample Prep			
N/A	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 3.40E-03	DETECTION LEVEL
ADP	LESS Than Value was Determined from Lc.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	6.09E-03 $\mu\text{Ci/g}$
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
BLANK.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	557	584
3856	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.27	0.27
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.874	1.874
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	18.297	19.197
Batch Number			
95004343	Blank Concentration in $\mu\text{Ci/g}$	2.09E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.19E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.1417E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003114			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	506101ML	

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1434	835
3856	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.27	0.27
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.862	1.862
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	47.530	27.563
Batch Number			
95004343	Blank Concentration in $\mu\text{Ci/g}$	5.46E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.17E-01	
1	Average Concentration in $\mu\text{Ci/g}$	4.3171E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003114			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	v RESULTS v		
Analyst	ALPHA TOTAL	in $\mu\text{Ci/g}$	4.32E-01
ADP			DETECTION LEVEL
Date Complete			6.13E-03
11/30/95	RELATIVE COUNTING ERROR	6.9%	$\mu\text{Ci/g}$
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

Type	DETECTOR NUMBER	SPIKE	REPLICATE
SPK	DISH SIZE 1, 2, or 5 (MS)	16	16
Work List	TOTAL COUNTS (TC)	2	2
3856	COUNT TIME in MINUTES (CT)	57950	57982
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.27	0.27
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	0.100	0.100
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	1.874	1.874
SOLID	SPIKE DILUTION FACTOR (SDF)	0.100	0.100
Batch Number	SPIKE BOOK NUMBER (Spk BN)	1	1
95004343	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	112B43	112B43
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	4.4761E-02	4.4761E-02
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	0.2104	0.2104
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.21E+01	2.21E+01
FUSION01		2.1417E-01	
Sample #			
S95T003114	Rs (Sample Count Rate) = (TC / CT) - BKG		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
WB27806	QC ACTUAL = SVal		
Prepared By	QC FOUND = (((S+S $\mu\text{Ci/g}$ - SAMPLE $\mu\text{Ci/g}$) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))		
SEH	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100		
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	4.10E-02	
08:00 AM	AVG. PERCENT SPIKE RECOVERY =	91.5%	
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SPIKE.WB1 Rev. 1.0 508101ML		

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1035	861
3856	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.27	0.27
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8664	1.8664
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	34.230	28.430
Batch Number			
95004343	Blank Concentration in $\mu\text{Ci/g}$	3.93E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.26E-01	
1	Average Concentration in $\mu\text{Ci/g}$	3.5938E-01	
Sample Prep			
FUSION01			
Sample #			
S95T003115			
Instrument Code			
WB27806			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$	
RELATIVE COUNTING ERROR		6.8%

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95

SAMPLE WB1 Rev. 1.0 508101ML

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WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	859	879
3856	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.27	0.27
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8948	1.8948
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	28.363	29.030
Batch Number			
95004343	Blank Concentration in $\mu\text{Ci/g}$	3.20E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.28E-01	
1	Average Concentration in $\mu\text{Ci/g}$	3.2424E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003115			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	3.24E-01	DETECTION LEVEL
ADP			
Date Complete	RELATIVE COUNTING ERROR	6.8%	6.03E-03 $\mu\text{Ci/g}$
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	308101ML	

983

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	61380	61548
3856	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.27	0.27
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8664	1.8664
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004343	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	2.35E+01	2.35E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	3.5938E-01	
FUSION01			
Sample #			
S95T003115			
Instrument Code			
WB27806			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	4.32E-02	
08:00 AM	AVG. PERCENT SPIKE RECOVERY =	96.5%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
 $SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / ((EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci}))$
 $QC \text{ ACTUAL} = SVal$
 $QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$
 $PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SPIKE.WB1 Rev. 1.0 508101ML		

B204

LABCORE Data Entry Template for Worklist# 3857

Analyst: 4NP Instrument: AB00 14 Book# 150B52

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T003110	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
5 DUP	S95T003110	0 F	@ALPHA01	SOLID		
6 SPK	S95T003110	0 F	@ALPHA01	SOLID		
7 SAMPLE	S95T003111	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
8 DUP	S95T003111	0 F	@ALPHA01	SOLID		
9 SPK	S95T003111	0 F	@ALPHA01	SOLID		

Final page for worklist # 3857

Anthony Rivera 11-28-95
Analyst Signature Date

22 Hogan 11/30/95
Analyst Signature Date

C.F. Quinn 12/1/95

Data Entry Comments:

RPD + SPK Recoveries are consistent with the
1st run and indicate a matrix problem (ie. high
dissolved solids) No further requested.

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

12/4/95

LABCORE Completed Worklist Report for Worklist# 3857

Analyst: adp

Instrument: AB14

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	0ALPHA01 ALPHA01	SOLID	1.28E-05	1.33E-5	103.910 % Recovery	
1 STD		0	0ALPHA01 ALPHA01E	SOLID	1.00	4.40E+00	4.400 % Ct. Error	
2 BLNK-PREP		0	0ALPHA01 ALPHA01	SOLID	1	<1.28E-3	uCi/g	
2 BLNK-PREP		0	0ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	0ALPHA01 ALPHA01	SOLID	1.00E+00	7.66E-01	0.770 uCi/g	
4 SAMPLE	S95T003110	0 F	0ALPHA01 ALPHA01	SOLID	N/A	2.53E-01	3.000e-003 uCi/g	
4 SAMPLE	S95T003110	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	5.10E+00	0.000 % Ct. Error	
5 DUP	S95T003110	0 F	0ALPHA01 ALPHA01	SOLID	2.53E-1	2.85E-1	11.900 RPD	
5 DUP	S95T003110	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	4.85E+00	4.850 % Ct. Error	
6 SPK	S95T003110	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	3.44E-02	76.790 % Recovery	
7 SAMPLE	S95T003111	0 F	0ALPHA01 ALPHA01	SOLID	N/A	2.30E-01	2.940e-003 uCi/g	
7 SAMPLE	S95T003111	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	5.24E+00	0.000 % Ct. Error	
8 DUP	S95T003111	0 F	0ALPHA01 ALPHA01	SOLID	2.30E-1	2.39E-1	3.840 RPD	
8 DUP	S95T003111	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	5.15E+00	5.150 % Ct. Error	
9 SPK	S95T003111	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	3.52E-02	78.570 % Recovery	

Final page for worklist# 3857

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

12/4/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	14	14
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2026	2016
3857	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.37	0.37
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOCK NUMBER (Std BN)	150B52	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	67.163	66.830
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05	
95004342	Concentration in $\mu\text{Ci/L}$ =	1.33E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.32E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.3271E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.33E-05	DETECTION LEVEL
Analyst			
ADP			
Date Complete	RELATIVE COUNTING ERROR =	4.4%	1.21E-07 $\mu\text{Ci/mL}$
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
STANDARD.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
INSTRUMENT	DETECTOR NUMBER	14	14
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
WORKSHEET	GROSS COUNTS (GC)	8	9
3857	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.37	0.37
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.024	4.024
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.259	0.259
Batch Number			
95004342	Blank Concentration in $\mu\text{Ci/g}$	< 1.28E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 1.28E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 1.2757E-03	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 1.28E-03	DETECTION LEVEL
ADP	LESS Than Value was Determined from Lc.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	3.00E-03 $\mu\text{Ci/g}$
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
BLANK.WB1 Rev. 1.0	508101ML	

300

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1592	1508
3857	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.37	0.37
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.024	4.024
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	52.697	49.897
Batch Number			
95004342	Blank Concentration in $\mu\text{Ci/g}$	2.59E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.46E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.5252E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003110			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$ 2.53E-01	
RELATIVE COUNTING ERROR	5.1%	3.00E-03 $\mu\text{Ci/g}$

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95

SAMPLE.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1667	1825
3857	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.37	0.37
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.02	4.02
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	55.197	60.463
Batch Number			
95004342	Blank Concentration in $\mu\text{Ci/g}$	2.72E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.98E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.8496E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003110			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL	2.85E-01	DETECTION LEVEL
Analyst			
ADP			
Date Complete			3.00E-03
11/30/95	RELATIVE COUNTING ERROR	4.8%	$\mu\text{Ci/g}$
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	508/01ML	

990

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	60282	47091
3857	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.37	0.37
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.024	4.024
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004342	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	9.89E+00	7.73E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.5252E-01	
FUSION01			
Sample #			
S95T003110			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB27807	SAMPLE + SPIKE $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Prepared By	QC ACTUAL = SVal		
SEH	QC FOUND = (((S+S $\mu\text{Ci/g}$ - SAMPLE $\mu\text{Ci/g}$) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))		
Chemist	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	3.44E-02	
08:00 AM	AVG. PERCENT SPIKE RECOVERY =	76.9%	
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SPIKE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1431	1442
3857	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.37	0.37
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.096	4.096
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	47.330	47.697
Batch Number			
95004342	Blank Concentration in $\mu\text{Ci/g}$	2.29E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.31E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.2978E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003111			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.30E-01	DETECTION LEVEL
ADP			
Date Complete			
11/30/95	RELATIVE COUNTING ERROR	5.2%	2.94E-03 $\mu\text{Ci/g}$
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	508101ML	

99%

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1497	1481
3857	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.37	0.37
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.076	4.076
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	49.530	48.997
Batch Number			
95004342	Blank Concentration in $\mu\text{Ci/g}$	2.41E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.38E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.3941E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003111			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.39E-01	DETECTION LEVEL
ADP			
Date Complete			
11/30/95	RELATIVE COUNTING ERROR	5.2%	2.96E-03 $\mu\text{Ci/g}$
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	57393	52214
3857	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.37	0.37
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.096	4.096
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004342	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	9.25E+00	8.42E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.2978E-01	
FUSION01			
Sample #			
S95T003111			
Instrument Code			
WB27807			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
 $SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
 $QC \text{ ACTUAL} = SVal$
 $QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$
 $PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

QC ACTUAL = 4.48E-02
QC FOUND = 3.52E-02
AVG. PERCENT SPIKE RECOVERY = 78.7%

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SPIKE.WB1 Rev. 1.0	508101ML	

LABCORE Data Entry Template for Worklist# 3858

Analyst: ADP Instrument: AB00 15 Book# 150B52

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T003112	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
5 DUP	S95T003112	0 F	@ALPHA01	SOLID		
6 SPK	S95T003112	0 F	@ALPHA01	SOLID		
7 SAMPLE	S95T003113	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
8 DUP	S95T003113	0 F	@ALPHA01	SOLID		
9 SPK	S95T003113	0 F	@ALPHA01	SOLID		

Final page for worklist # 3858

Anthony Perreault 11-28-95
Analyst Signature Date

SE Logan 11/30/95
Analyst Signature Date

C.f. Opium 12/1/95

Data Entry Comments:

The RPD + SPK recoveries are consistent with the
1st run and indicate a matrix problem (i.e. high
dissolved solids). No rerun requested. ADP
S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code. 12/4/95

LABCORE Completed Worklist Report for Worklist# 3858

Analyst: adp

Instrument: AB15

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	@ALPHA01 ALPHA01	SOLID	1.28E-05	1.27E-5	99.220 %	Recovery
1 STD		0	@ALPHA01 ALPHA01E	SOLID	1.00	4.46E+00	4.460 %	Ct. Error
2 BLNK-PREP		0	@ALPHA01 ALPHA01	SOLID	1	<3.48E-3		uCi/g
2 BLNK-PREP		0	@ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 %	Ct. Error
3 BLNK/BKG		0	@ALPHA01 ALPHA01	SOLID	1.00E+00	1.38E+00	1.380	uCi/g
4 SAMPLE	S95T003112	0 F	@ALPHA01 ALPHA01	SOLID	N/A	1.78E-01	4.710e-003	uCi/g
4 SAMPLE	S95T003112	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	8.40E+00	0.000 %	Ct. Error
5 DUP	S95T003112	0 F	@ALPHA01 ALPHA01	SOLID	1.78E-1	2.20E-1	21.110	RPD
5 DUP	S95T003112	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	7.50E+00	7.500 %	Ct. Error
6 SPK	S95T003112	0 F	@ALPHA01 ALPHA01	SOLID	4.48E-02	2.87E-02	64.060 %	Recovery
7 SAMPLE	S95T003113	0 F	@ALPHA01 ALPHA01	SOLID	N/A	2.87E-01	5.040e-003	uCi/g
7 SAMPLE	S95T003113	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	7.16E+00	0.000 %	Ct. Error
8 DUP	S95T003113	0 F	@ALPHA01 ALPHA01	SOLID	2.87E-1	2.14E-1	29.140	RPD
8 DUP	S95T003113	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	8.25E+00	8.250 %	Ct. Error
9 SPK	S95T003113	0 F	@ALPHA01 ALPHA01	SOLID	4.48E-02	3.38E-02	75.450 %	Recovery

Final page for worklist# 3858

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature

12/4/95
Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

WB26872

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	15	15
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1949	2086
3858	COUNT TIME in MINUTES (CT)	30	30
AT or TS ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	64.737	69.303
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05	
95004341	Concentration in $\mu\text{Ci/L}$ =	1.23E-02	
Run	Replicate Concentration in $\mu\text{Ci/L}$ =	1.31E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.2685E-02	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)		
	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.27E-05	DETECTION LEVEL
Analyst			
ADP			
Date Complete	RELATIVE COUNTING ERROR =	4.5%	9.45E-08 $\mu\text{Ci/mL}$
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
STANDARD.WB1 Rev. 1.0	508101ML	

997

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

		BLNK-PREP	REPLICATE
TYPE	DETECTOR NUMBER	15	15
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	11	8
3858	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.008	2.008
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.369	0.249
Batch Number			
95004341	Blank Concentration in $\mu\text{Ci/g}$	< 3.48E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.35E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 3.4814E-03	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s \times 1000\text{mL/L} \times \text{DF} / (\text{EFF} \times \text{SS} \times \text{Dg/L} \times 2220000\text{dpm}/\mu\text{Ci})$		
Instrument Code	Relative Counting Error = $[(\text{The Square Root of TC} + \text{BKG} \times \text{CT}) / (\text{TC} - \text{BKG} \times \text{CT})] \times 1.96 \times 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	v RESULTS v		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 3.48E-03	DETECTION LEVEL
ADP	LESS THAN Value was Determined from Rmax.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	4.71E-03 $\mu\text{Ci/g}$
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
BLANK.WB1 Rev. 1.0	08101ML	

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	585	565
3858	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.008	2.008
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	19.270	18.603

Batch Number	
95004341	Blank Concentration in $\mu\text{Ci/g}$ 1.82E-01
Rerun	Replicate Concentration in $\mu\text{Ci/g}$ 1.75E-01
1	Average Concentration in $\mu\text{Ci/g}$ 1.7849E-01

Sample Prep	
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$
Sample #	$ALPHA \text{ TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
S95T003112	
Instrument Code	Relative Counting Error = $[(The \text{ Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.
Prepared By	
SEH	
Chemist	

SLF	ALPHA TOTAL	in $\mu\text{Ci/g}$	1.78E-01	DETECTION LEVEL
Analyst				
ADP				
Date Complete				4.71E-03 $\mu\text{Ci/g}$
11/30/95	RELATIVE COUNTING ERROR		8.4%	
Analysis Date				
11/28/95				
Analysis Time				
08:00 AM				
Sample Point				
B-204				

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

	DUP	REPLICATE
Type	DETECTOR NUMBER	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	711
3858	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23
AT	SAMPLE SIZE in mL (SS)	0.100
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0072
Matrix	EFFICIENCY FACTOR (EFF)	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	23.470
Batch Number		23.237
95004341	Blank Concentration in $\mu\text{Ci/g}$	2.21E-01
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.19E-01
1	Average Concentration in $\mu\text{Ci/g}$	2.2021E-01
Sample Prep		
FUSION01	Rs (Sample Count Rate) = $(TC / CT) - BKG$	
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$	
S95T003112		
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
SEH		
Chemist		
SLF	v RESULTS v	
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.20E-01
ADP		
Date Complete		
11/30/95	RELATIVE COUNTING ERROR	7.5%
Analysis Date		
11/28/95		
Analysis Time		
08:00 AM		
Sample Point		
B-204		

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	508101ML	

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WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	36147	55831
3858	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.008	2.008
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004341	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.14E+01	1.75E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.7849E-01	
FUSION01			
Sample #			
S95T003112			
Instrument Code			
WB26872			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95	QC ACTUAL	=	4.48E-02
Analysis Time	QC FOUND	=	2.87E-02
08:00 AM	AVG. PERCENT SPIKE RECOVERY	=	64.0%
Sample Point			
B-204			

$$R_s (\text{Sample Count Rate}) = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SPIKE WB1 Rev. 1.0	508101ML	

1001

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	948	770
3858	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8748	1.8748
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	31.370	25.437
Batch Number			
95004341	Blank Concentration in $\mu\text{Ci/g}$	3.17E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.57E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.8674E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003113			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.87E-01	DETECTION LEVEL
ADP			
Date Complete			
11/30/95	RELATIVE COUNTING ERROR	7.2%	5.04E-03 $\mu\text{Ci/g}$
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1002

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	585	698
3858	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8708	1.8708
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	19.270	23.037
Batch Number			
95004341	Blank Concentration in $\mu\text{Ci/g}$	1.95E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.33E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.1400E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003113			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.14E-01	DETECTION LEVEL
ADP			
Date Complete			
11/30/95	RELATIVE COUNTING ERROR	8.2%	5.05E-03 $\mu\text{Ci/g}$
Analysis Date			
11/28/95			
Analysis Time			
08:00 AM			
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1003

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	52973	55994
3858	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8748	1.8748
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004341	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.78E+01	1.88E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.8674E-01	
FUSION01			
Sample #			
S95T003113			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB26872	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
Prepared By	QC ACTUAL = SVal		
SEH	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$		
Chemist	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	3.38E-02	
08:00 AM	AVG. PERCENT SPIKE RECOVERY =	75.6%	
Sample Point			
B-204			

Analyst:	SEH	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/4/95
SPIKE.WB1 Rev. 1.0	508101ML	

1004

LABCORE Data Entry Template for Worklist# 3859

Analyst: ADP Instrument: AB00 13 Book# 150352

Method: LA-508-101 Rev/Mod D-2 WB27810

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T003117	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
5 DUP	S95T003117	0 F	@ALPHA01	SOLID		
6 SPK	S95T003117	0 F	@ALPHA01	SOLID		
7 SAMPLE	S95T003118	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
8 DUP	S95T003118	0 F	@ALPHA01	SOLID		
9 SPK	S95T003118	0 F	@ALPHA01	SOLID		

Final page for worklist # 3859

Anthony Perreth 11-28-95
Analyst Signature Date

C. L. O'Brien 11/30/95
Analyst Signature Date

Data Entry Comments:

SPKE 112 B43 22 12/4/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

1005

LABCORE Completed Worklist Report for Worklist# 3859

Analyst: adp Instrument: AB13 Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use 0.1 mL sample; 0.1 mL spike. --LLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD	0		0ALPHA01 ALPHA01	SOLID	1.28E-05	1.33E-5	103.910 % Recovery	
1 STD	0		0ALPHA01 ALPHA01E	SOLID	1.00	4.25E+00	4.250 % Ct. Error	
2 BLNK-PREP	0		0ALPHA01 ALPHA01	SOLID	1	<2.42E-3	uCi/g	
2 BLNK-PREP	0		0ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG	0		0ALPHA01 ALPHA01	SOLID	1.00E+00	6.67E-01	0.670 uCi/g	
4 SAMPLE	S95T003117	0 F	0ALPHA01 ALPHA01	SOLID	N/A	2.84E-01	5.650e-003 uCi/g	
4 SAMPLE	S95T003117	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	6.45E+00	0.000 % Ct. Error	
5 DUP	S95T003117	0 F	0ALPHA01 ALPHA01	SOLID	2.84E-1	2.71E-1	4.680 RPD	
5 DUP	S95T003117	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	6.73E+00	6.730 % Ct. Error	
6 SPK	S95T003117	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	4.22E-02	94.200 % Recovery	
7 SAMPLE	S95T003118	0 F	0ALPHA01 ALPHA01	SOLID	N/A	2.58E-01	5.780e-003 uCi/g	
7 SAMPLE	S95T003118	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	6.96E+00	0.000 % Ct. Error	
8 DUP	S95T003118	0 F	0ALPHA01 ALPHA01	SOLID	2.58E-1	2.68E-1	3.800 RPD	
8 DUP	S95T003118	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	6.84E+00	6.840 % Ct. Error	
9 SPK	S95T003118	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	3.96E-02	88.390 % Recovery	

Final page for worklist# 3859

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____

Date 12/4/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	13	13
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2159	2269
3859	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	71.567	75.233
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05	
95004340	Concentration in $\mu\text{Ci/L}$ =	1.30E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.37E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.3348E-02	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = (TC / CT) - BKG		
	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)		
	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.33E-05	DETECTION LEVEL
Analyst			
ADP			
Date Complete			
11/30/95	RELATIVE COUNTING ERROR =	4.3%	1.14E-07 $\mu\text{Ci/mL}$
Analysis Date			
11/28/95			
Analysis Time			
12:00 PM			
Sample Point			
B-204			

Analyst:	CJO	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95
STANDARD.WB1 Rev. 1.0 508101ML		

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	13	13
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	5	11
3859	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0268	2.0268
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.269	0.269
Batch Number			
95004340	Blank Concentration in $\mu\text{Ci/g}$	< 2.42E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.42E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 2.4176E-03	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
S95T3117-BLNK	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
Instrument Code	Relative Counting Error = $\{ [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
12:00 PM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$ < 2.42E-03	
LESS Than Value was Determined from Lc.		5.65E-03 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	500.0%	

Analyst:	CJO	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
BLANK.WB1 Rev. 1.0 508101ML		

1000

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	961	959
3859	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0268	2.0268
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	31.633	31.567
Batch Number			
95004340	Blank Concentration in $\mu\text{Ci/g}$	2.84E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.83E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.8353E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003117			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.84E-01	DETECTION LEVEL
ADP			
Date Complete			5.65E-03 $\mu\text{Ci/g}$
11/30/95	RELATIVE COUNTING ERROR	6.4%	
Analysis Date			
11/28/95			
Analysis Time			
12:00 PM			
Sample Point			
B-204			

Analyst:	CJO	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1009

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	13	13
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	942	883
3859	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0144	2.0144
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	31.000	29.033
Batch Number			
95004340	Blank Concentration in $\mu\text{Ci/g}$	2.80E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.62E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.7098E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003117			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL	2.71E-01	DETECTION LEVEL
Analyst	in $\mu\text{Ci/g}$		
ADP			
Date Complete	RELATIVE COUNTING ERROR	6.7%	5.68E-03 $\mu\text{Ci/g}$
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
12:00 PM			
Sample Point			
B-204			

Analyst:	CJO	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1010

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	69766	71552
3859	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0268	2.0268
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004340	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2477	0.2477
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	2.09E+01	2.14E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.8353E-01	
FUSION01			
Sample #			
S95T003117			
Instrument Code			
WB27810			
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95	QC ACTUAL	=	4.48E-02
Analysis Time	QC FOUND	=	4.22E-02
12:00 PM	AVG. PERCENT SPIKE RECOVERY	=	94.4%
Sample Point			
B-204			

$$Rs \text{ (Sample Count Rate)} = (TC / CT) - BKG$$

$$SAMPLE + SPIKE \mu\text{Ci/g} = Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst	CJO	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95
SPIKE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	880	829
3859	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.9804	1.9804
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	28.933	27.233
Batch Number			
95004340	Blank Concentration in $\mu\text{Ci/g}$	2.66E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.50E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.5788E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003118			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.58E-01	DETECTION LEVEL
ADP			
Date Complete			5.78E-03 $\mu\text{Ci/g}$
11/30/95	RELATIVE COUNTING ERROR	7.0%	
Analysis Date			
11/28/95			
Analysis Time			
12:00 PM			
Sample Point			
B-204			

Analyst:	CJO	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95
SAMPLE WB1 Rev. 1.0	508101ML	

1012

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	13	13
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	856	919
3859	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.9812	1.9812
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	28.133	30.233
Batch Number			
95004340	Blank Concentration in $\mu\text{Ci/g}$	2.58E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.78E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.6787E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003118			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL	2.68E-01	DETECTION LEVEL
Analyst			
ADP			
Date Complete	RELATIVE COUNTING ERROR	6.8%	5.78E-03 $\mu\text{Ci/g}$
11/30/95			
Analysis Date			
11/28/95			
Analysis Time			
12:00 PM			
Sample Point			
B-204			

Analyst:	CJO	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95
SAMPLE WB1 Rev. 1.0	508101ML	

1013

AT : LA-508-101 (D-2)

SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	66856	65589
3859	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.9804	1.9804
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004340	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2477	0.2477
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	2.05E+01	2.01E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.5788E-01	
FUSION01			
Sample #			
S95T003118			
Instrument Code			
WB27810			
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
ADP			
Date Complete			
11/30/95			
Analysis Date			
11/28/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	3.96E-02	
12:00 PM	AVG. PERCENT SPIKE RECOVERY =	88.5%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
QC ACTUAL = SVal
QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)) / (DF/SS/Dg/L)))$
PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	CJO	Date: 30-Nov-95
Signature of Chemist:	SLF	Date: 12/1/95

SPIKE WB1 Rev. 1.0
508101ML

1014

13204

LABCORE Data Entry Template for Worklist# 3983

Analyst: SLH Instrument: AB00 13 Book# 11B56

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T003337	O F	@ALPHA01	SOLID	95000161	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
5 DUP	S95T003337	O F	@ALPHA01	SOLID		
6 SPK	S95T003337	O F	@ALPHA01	SOLID		

Final page for worklist # 3983

Spencer J. Hood Boatright
Analyst Signature Date 11-30-95

6783101 mm - 12/1/95
Analyst Signature Date
C.J. Opinen 12/5/95

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 3983

Analyst: slh

Instrument: AB13

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	SOLID	1.92E-05	1.90E-5	98.960 % Recovery	
1 STD		0	QALPHA01 ALPHA01E	SOLID	1.00	3.53E+00	3.530 % Ct. Error	
2 BLNK-PREP		0	QALPHA01 ALPHA01	SOLID	1	<2.96E-3	uCi/g	
2 BLNK-PREP		0	QALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	QALPHA01 ALPHA01	SOLID	1.00E+00	7.38E-01	0.740 uCi/g	
4 SAMPLE	S95T003337	0 F	QALPHA01 ALPHA01	SOLID	N/A	1.94E-01	6.680e-003 uCi/g	
4 SAMPLE	S95T003337	0 F	QALPHA01 ALPHA01E	SOLID	N/A	7.78E+00	0.000 % Ct. Error	
5 DUP	S95T003337	0 F	QALPHA01 ALPHA01	SOLID	1.94E-1	1.82E-1	6.380 RPD	
5 DUP	S95T003337	0 F	QALPHA01 ALPHA01E	SOLID	1.00	8.26E+00	8.260 % Ct. Error	
6 SPK	S95T003337	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.67E-02	93.620 % Recovery	

Final page for worklist# 3983

Analyst Signature

Date

Analyst Signature

Date

 Reviewer Signature

 12/15/95
 Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

AT : LA-508-101 (D-2)

STANDARD

Type	DETECTOR NUMBER	STANDARD	REPLICATE
STD		13	13
Work List	DISH SIZE (1, 2, or 5) (MS)	2	2
3983	GROSS COUNTS (GC)	3161	3153
AT or TB ?	COUNT TIME in MINUTES (CT)	30	30
AT	BACKGROUND in cpm (BKG)	0.7	0.7
Test Code	SAMPLE SIZE in mL (SS)	10.000	10.000
@ALPHA01	DILUTION FACTOR (DF)	1	1
Matrix	STANDARD BOOK NUMBER (Std BN)	11B56	11B56
LIQUID	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
Batch Number	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	104.667	104.400
95004474	Standard Value in $\mu\text{Ci/mL}$	1.92E-05	
Rerun	Concentration in $\mu\text{Ci/L}$ =	1.90E-02	
0	Replicate Concentration in $\mu\text{Ci/L}$ =	1.90E-02	
Sample Prep	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.9010E-02	
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)		
WRKLST#3983	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.90E-05	DETECTION LEVEL
Analyst			
SLH			1.46E-07 $\mu\text{Ci/mL}$
Date Complete	RELATIVE COUNTING ERROR =	3.5%	
12/01/95			
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

STANDARD.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

Type	DETECTOR NUMBER	BLNK-PREP	REPLICATE
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	13	13
Work List	GROSS COUNTS (GC)	2	2
3983	COUNT TIME in MINUTES (CT)	18	13
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.7	0.7
Test Code	DILUTION FACTOR (DF)	0.100	0.100
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	2.1876	2.1876
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.2477	0.2477
Batch Number		0.356	0.356
95004474	Blank Concentration in $\mu\text{Ci/g}$	< 2.96E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.96E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 2.9631E-03	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WRKLST#3983			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 2.96E-03	DETECTION LEVEL
SLH	LESS Than Value was Determined from Lc.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	6.68E-03 $\mu\text{Ci/g}$
12/01/95			
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
BLANK.WB1 Rev. 1.0	508101ML	

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	743	696
3983	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.7	0.7
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1876	2.1876
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	24.067	22.500
Batch Number			
95004474	Blank Concentration in $\mu\text{Ci/g}$	2.00E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.87E-01	
1	Average Concentration in $\mu\text{Ci/g}$	1.9355E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003337			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	1.94E-01	DETECTION LEVEL
SLH			
Date Complete			
12/01/95	RELATIVE COUNTING ERROR	7.8%	6.68E-03 $\mu\text{Ci/g}$
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist: <i>SLF</i>	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1019

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	13	13
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	700	624
3983	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.7	0.7
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1352	2.1352
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	22.633	20.100
Batch Number			
95004474	Blank Concentration in $\mu\text{Ci/g}$	1.93E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.71E-01	
1	Average Concentration in $\mu\text{Ci/g}$	1.8198E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003337			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	v RESULTS v		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	1.82E-01	DETECTION LEVEL
SLH			
Date Complete			
12/01/95	RELATIVE COUNTING ERROR	8.3%	6.84E-03 $\mu\text{Ci/g}$
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1020

LABCORE Data Entry Template for Worklist# 3984

Analyst: SLH Instrument: AB00[#] 14 Book# 11356

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T003338	0 F	@ALPHA01	SOLID	95000161	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
5 DUP	S95T003338	0 F	@ALPHA01	SOLID		
6 SPK	S95T003338	0 F	@ALPHA01	SOLID		
7 SAMPLE	S95T003339	0 F	@ALPHA01	SOLID	95000161	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
8 DUP	S95T003339	0 F	@ALPHA01	SOLID		
9 SPK	S95T003339	0 F	@ALPHA01	SOLID		

Final page for worklist # 3984

Sandra L. Hard Boatright
Analyst Signature Date 11-30-95

[Signature] 12/1/95
Analyst Signature Date
C. J. Quinn 12/5/95

Data Entry Comments:

The RPD for sample 3338 is acceptable due
to low sample alpha activity. [Signature] 12/5/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 3984

Analyst: slh

Instrument: AB14

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	@ALPHA01 ALPHA01	SOLID	1.92E-05	1.90E-5	98.960 % Recovery	
1 STD		0	@ALPHA01 ALPHA01E	SOLID	1.00	3.77E+00	3.770 % Ct. Error	
2 BLNK-PREP		0	@ALPHA01 ALPHA01	SOLID	1	<9.27E-3	uCi/g	
2 BLNK-PREP		0	@ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	@ALPHA01 ALPHA01	SOLID	1.00E+00	2.17E+00	2.170 uCi/g	
4 SAMPLE	S95T003338	0 F	@ALPHA01 ALPHA01	SOLID	N/A	2.22E-01	5.830e-003 uCi/g	
4 SAMPLE	S95T003338	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	7.67E+00	0.000 % Ct. Error	
5 DUP	S95T003338	0 F	@ALPHA01 ALPHA01	SOLID	2.22E-1	1.82E-1	19.800 RPD	
5 DUP	S95T003338	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	8.87E+00	8.870 % Ct. Error	
6 SPK	S95T003338	0 F	@ALPHA01 ALPHA01	SOLID	3.92E-02	3.51E-02	89.540 % Recovery	
7 SAMPLE	S95T003339	0 F	@ALPHA01 ALPHA01	SOLID	N/A	1.64E-01	5.770e-003 uCi/g	
7 SAMPLE	S95T003339	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	8.74E+00	0.000 % Ct. Error	
8 DUP	S95T003339	0 F	@ALPHA01 ALPHA01	SOLID	1.64E-1	1.74E-1	5.920 RPD	
8 DUP	S95T003339	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	8.98E+00	8.980 % Ct. Error	
9 SPK	S95T003339	0 F	@ALPHA01 ALPHA01	SOLID	3.92E-02	3.40E-02	86.730 % Recovery	

Final page for worklist# 3984

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

Type	DETECTOR NUMBER	STANDARD	REPLICATE
STD	DISH SIZE (1, 2, or 5) (MS)	14	14
Work List	GROSS COUNTS (GC)	2	2
3984	COUNT TIME in MINUTES (CT)	3043	2732
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.4	0.4
Test Code	DILUTION FACTOR (DF)	10.000	10.000
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	11B56	11B56
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.2274	0.2274
Batch Number	Standard Value in $\mu\text{Ci/mL}$	101.033	90.667
95004475	Concentration in $\mu\text{Ci/L}$ =	1.92E-05	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	2.00E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.80E-02	
Sample Prep	Rs (Sample Count Rate) = (TC / CT) - BKG		
N/A	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)		
Sample #	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
WRKLST#3984	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
Instrument Code	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
WB27807			
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.90E-05	DETECTION LEVEL
Analyst			
SLH			1.25E-07 $\mu\text{Ci/mL}$
Date Complete	RELATIVE COUNTING ERROR	3.8%	
12/01/95			
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
STANDARD.WB1 Rev. 1.0	508/01ML	

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

Type	DETECTOR NUMBER	BLNK-PREP	REPLICATE
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	14	14
Work List	GROSS COUNTS (GC)	2	2
3984	COUNT TIME in MINUTES (CT)	10	42
AT or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.4	0.4
Test Code	DILUTION FACTOR (DF)	0.100	0.100
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	2.1376	2.1376
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.2274	0.2274
Batch Number		0.269	1.000
95004475	Blank Concentration in $\mu\text{Ci/g}$	< 2.50E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	9.27E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 9.2668E-03	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
S95T3338	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 9.27E-03	DETECTION LEVEL
SLH	LESS Than Value was Determined from Lc.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	5.83E-03 $\mu\text{Ci/g}$
12/01/95			
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/15/95

BLANK.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	688	772
3984	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1376	2.1376
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	22.533	25.333
Batch Number			
95004475	Blank Concentration in $\mu\text{Ci/g}$	2.09E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.35E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.2179E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003338			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.22E-01	DETECTION LEVEL
SLH			
Date Complete			
12/01/95	RELATIVE COUNTING ERROR	7.7%	5.83E-03 $\mu\text{Ci/g}$
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

SAMPLE.WB1 Rev. 1. 508101ML

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	693	523
3984	COUNT TIME in MINUTES (CT)	30	30
At or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1612	2.1612
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	22.700	17.033
Batch Number			
95004475	Blank Concentration in $\mu\text{Ci/g}$	2.08E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.56E-01	
1	Average Concentration in $\mu\text{Ci/g}$	1.8209E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003338			
Instrument Code	Relative Counting Error = $[(The \text{ Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL	1.82E-01	DETECTION LEVEL
SLH	in $\mu\text{Ci/g}$		
Date Complete			
12/01/95	RELATIVE COUNTING ERROR	8.9%	5.77E-03 $\mu\text{Ci/g}$
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.	508101ML	

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	54442	53421
3984	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1376	2.1376
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004475	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.68E+01	1.65E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.2179E-01	
FUSION01			
Sample #			
S95T003338			
Instrument Code			
WB27807			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/01/95			
Analysis Date			
11/30/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.51E-02	
10:00 PM	AVG. PERCENT SPIKE RECOVERY =	89.6%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
 $SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / ((EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci}))$
 $QC \text{ ACTUAL} = SVal$
 $QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$
 $PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

SPIKE.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	557	538
3984	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.16	2.16
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	18.167	17.533
Batch Number			
95004475	Blank Concentration in $\mu\text{Ci/g}$	1.67E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.61E-01	
1	Average Concentration in $\mu\text{Ci/g}$	1.6370E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003339			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	1.64E-01	DETECTION LEVEL
Analyst			
SLH			
Date Complete			5.77E-03 $\mu\text{Ci/g}$
12/01/95	RELATIVE COUNTING ERROR	8.7%	
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1. 508101ML		

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	511	647
3984	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1576	2.1576
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	16.633	21.167
Batch Number			
95004475	Blank Concentration in $\mu\text{Ci/g}$	1.53E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.94E-01	
1	Average Concentration in $\mu\text{Ci/g}$	1.7352E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003339			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	v RESULTS v		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	1.74E-01	DETECTION LEVEL
SLH			
Date Complete			
12/01/95	RELATIVE COUNTING ERROR	9.0%	5.78E-03 $\mu\text{Ci/g}$
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1. 608101ML		

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WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	53843	50088
3984	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.16	2.16
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004475	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.65E+01	1.53E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.6370E-01	
FUSION01			
Sample #			
S95T003339			
Instrument Code			
WB27807			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/01/95			
Analysis Date			
11/30/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.40E-02	
10:00 PM	AVG. PERCENT SPIKE RECOVERY =	86.6%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / ((EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci}))$
QC ACTUAL = SVal
QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L)))$
PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

SPIKE.WB1 Rev. 1.0 / 508101ML

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B204

LABCORE Data Entry Template for Worklist# 3985

Analyst: SLH Instrument: AB00 #16 Book# 11856

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T003119	0 F	@ALPHA01	SOLID	95000158	B-204
Analytes Requested: ALPHA01 , ALPHA01E						
5 DUP	S95T003119	0 F	@ALPHA01	SOLID		
6 SPK	S95T003119	0 F	@ALPHA01	SOLID		
7 SAMPLE	S95T003120	0 F	@ALPHA01	SOLID	95000158	B-204
Analytes Requested: ALPHA01 , ALPHA01E						
8 DUP	S95T003120	0 F	@ALPHA01	SOLID		
9 SPK	S95T003120	0 F	@ALPHA01	SOLID		

Final page for worklist # 3985

Sandra L. Hood Baertzel
Analyst Signature Date
11-30-95

SE Hogan 12/1/95
Analyst Signature Date
C.J. Opinen 12/5/95

Data Entry Comments:

the RPD for 3/20 is acceptable due to
low sample alpha activity. SD 12/5/95

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 3985

Analyst: slh

Instrument: AB16

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0		QALPHA01 ALPHA01	SOLID	1.92E-05	2.04E-5	106.250 % Recovery	
1 STD		0		QALPHA01 ALPHA01E	SOLID	1.00	3.68E+00	3.680 % Ct. Error	
2 BLNK-PREP		0		QALPHA01 ALPHA01	SOLID	1	<4.27E-3	uCi/g	
2 BLNK-PREP		0		QALPHA01 ALPHA01E	SOLID	1.00	1.67E+02	167.000 % Ct. Error	
3 BLNK/BKG		0		QALPHA01 ALPHA01	SOLID	1.00E+00	1.81E+00	1.810 uCi/g	
4 SAMPLE	S95T003119	0	F	QALPHA01 ALPHA01	SOLID	N/A	2.51E-01	4.760e-003 uCi/g	
4 SAMPLE	S95T003119	0	F	QALPHA01 ALPHA01E	SOLID	N/A	7.30E+00	0.000 % Ct. Error	
5 DUP	S95T003119	0	F	QALPHA01 ALPHA01	SOLID	2.51E-1	2.45E-1	2.420 RPD	
5 DUP	S95T003119	0	F	QALPHA01 ALPHA01E	SOLID	1.00	6.99E+00	6.990 % Ct. Error	
6 SPK	S95T003119	0	F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.64E-02	92.860 % Recovery	
7 SAMPLE	S95T003120	0	F	QALPHA01 ALPHA01	SOLID	N/A	4.96E-01	4.980e-003 uCi/g	
7 SAMPLE	S95T003120	0	F	QALPHA01 ALPHA01E	SOLID	N/A	5.14E+00	0.000 % Ct. Error	
8 DUP	S95T003120	0	F	QALPHA01 ALPHA01	SOLID	4.96E-1	4.19E-1	16.830 RPD	
8 DUP	S95T003120	0	F	QALPHA01 ALPHA01E	SOLID	1.00	5.53E+00	5.530 % Ct. Error	
9 SPK	S95T003120	0	F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.40E-02	86.730 % Recovery	

Final page for worklist# 3985

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

12/5/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	16
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	2874
3985	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	11B56
Matrix	EFFICIENCY FACTOR (EFF)	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	95.570
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.92E-05
95004477	Concentration in $\mu\text{Ci/L}$ =	2.05E-02
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	2.03E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	2.0389E-02
Sample Prep		
N/A		
Sample #		
Instrument Code		
WB27806		
Prepared By		
SEH		
Chemist		
SLF		
Analyst		
SLH		
Date Complete		
12/01/95		
Analysis Date		
11/30/95		
Analysis Time		
10:00 PM		
Sample Point		
B-204		

$$R_s (\text{Sample Count Rate}) = (TC / CT) - BKG$$

$$\text{ALPHA TOTAL } \mu\text{Ci/L} = R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$$

$$\text{ALPHA TOTAL } \mu\text{Ci/mL} = \text{ALPHA TOTAL } \mu\text{Ci/L} / 1000\text{mL/L}$$

$$\text{Relative Counting Error} = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100$$

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$

2.04E-05

DETECTION
LEVEL1.07E-07
 $\mu\text{Ci/mL}$

RELATIVE COUNTING ERROR

=

3.7%

Analyst:

SEH

Date: 01-Dec-95

Signature of Chemist:

SLF

Date: 12/5/95

STANDARD.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	16	16
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	12	13
3985	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.248	2.248
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	0.409	0.449
Batch Number			
95004477	Blank Concentration in $\mu\text{Ci/g}$	< 3.90E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 4.27E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 4.2731E-03	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 4.27E-03	DETECTION LEVEL
SLH	LESS THAN Value was Determined from Rmax.		
Date Complete	RELATIVE COUNTING ERROR	167.1%	4.76E-03 $\mu\text{Ci/g}$
12/01/95			
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
BLANK.WB1 Rev. 1.0	508101ML	

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WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	853	742
3985	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.248	2.248
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	28.203	24.503
Batch Number			
95004477	Blank Concentration in $\mu\text{Ci/g}$	2.69E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.33E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.5098E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003119			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL	2.51E-01	DETECTION LEVEL
Analyst	in $\mu\text{Ci/g}$		
SLH			
Date Complete	RELATIVE COUNTING ERROR	7.3%	4.76E-03 $\mu\text{Ci/g}$
12/01/95			
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101 ML	

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WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	841	806
3985	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.3768	2.3768
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	27.803	26.637
Batch Number			
95004477	Blank Concentration in $\mu\text{Ci/g}$	2.50E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.40E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.4519E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003119			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL	2.45E-01	DETECTION LEVEL
Analyst			
SLH			
Date Complete			4.50E-03
12/01/95	RELATIVE COUNTING ERROR	7.0%	$\mu\text{Ci/g}$
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101 ML	

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WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	51910	51737
3985	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.248	2.248
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004477	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.65E+01	1.64E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.5098E-01	
FUSION01			
Sample #			
S95T003119			
Instrument Code			
WB27806			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/01/95			
Analysis Date			
11/30/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.64E-02	
10:00 PM	AVG. PERCENT SPIKE RECOVERY =	92.8%	
Sample Point			
B-204			

$$Rs (\text{Sample Count Rate}) = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = Rs * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst:	SEH	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

SPIKE.WB1 Rev. 1.0

508101ML

1038

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1517	1476
3985	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1444	2.1444
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	50.337	48.970

Batch Number	
95004477	Blank Concentration in $\mu\text{Ci/g}$ 5.03E-01
Rerun	Replicate Concentration in $\mu\text{Ci/g}$ 4.89E-01
1	Average Concentration in $\mu\text{Ci/g}$ 4.9573E-01

Sample Prep	
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
S95T003120	
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By			
SEH			
Chemist		v RESULTS v	
SLF	ALPHA TOTAL	in $\mu\text{Ci/g}$ 4.96E-01	DETECTION LEVEL
Analyst			
SLH			
Date Complete			4.98E-03
12/01/95	RELATIVE COUNTING ERROR	5.1%	$\mu\text{Ci/g}$
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

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WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1335	1277
3985	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.2112	2.2112
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	44.270	42.337
Batch Number			
95004477	Blank Concentration in $\mu\text{Ci/g}$	4.29E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	4.10E-01	
1	Average Concentration in $\mu\text{Ci/g}$	4.1927E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003120			
Instrument Code	Relative Counting Error = $[(The \text{ Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	4.19E-01	DETECTION LEVEL
SLH			
Date Complete			4.83E-03 $\mu\text{Ci/g}$
12/01/95	RELATIVE COUNTING ERROR	5.5%	
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/15/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1040

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	47194	51190
3985	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1444	2.1444
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004477	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.57E+01	1.70E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	4.9573E-01	
FUSION01			
Sample #			
S95T003120			
Instrument Code			
WB27806			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/01/95			
Analysis Date			
11/30/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.40E-02	
10:00 PM	AVG. PERCENT SPIKE RECOVERY =	86.8%	
Sample Point			
B-204			

$$Rs \text{ (Sample Count Rate)} = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst:	SEH	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SPIKE.WB1 Rev. 1.0 508101ML		

1041

B204

LABCORE Data Entry Template for Worklist# 3986

Analyst: SLH Instrument: AB00 15 Book# 11B56

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@ALPHA01	SOLID		
2 BLNK-PREP			@ALPHA01	SOLID		
3 BLNK/BKG			@ALPHA01	SOLID		
4 SAMPLE	S95T002987	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
5 DUP	S95T002987	0 F	@ALPHA01	SOLID		
6 SPK	S95T002987	0 F	@ALPHA01	SOLID		
7 SAMPLE	S95T003109	0 F	@ALPHA01	SOLID	95000158	B-204
	Analytes Requested: ALPHA01 , ALPHA01E					
8 DUP	S95T003109	0 F	@ALPHA01	SOLID		
9 SPK	S95T003109	0 F	@ALPHA01	SOLID		

Final page for worklist # 3986

Sandra H. Booth 12-1-95
Analyst Signature Date

Erin D. Lee 12-4-95
Analyst Signature Date
C.J. Opium 12/5/95

Data Entry Comments:

The low spk recoveries for these samples are consistent with the 1st run and indicate a sample matrix problem (ie. high dissolved solids content). No rerun requested.

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 3986

Analyst: slh

Instrument: AB15

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	SOLID	1.92E-05	1.72E-5	89.580 %	Recovery
1 STD		0	QALPHA01 ALPHA01E	SOLID	1.00	3.77E+00	3.770 %	Ct. Error
2 BLNK-PREP		0	QALPHA01 ALPHA01	SOLID	1	<1.30E-3		uCi/g
2 BLNK-PREP		0	QALPHA01 ALPHA01E	SOLID	1.00	1.67E+02	167.000 %	Ct. Error
3 BLNK/BKG		0	QALPHA01 ALPHA01	SOLID	1.00E+00	1.88E+00	1.880	uCi/g
4 SAMPLE	S95T002987	0 F	QALPHA01 ALPHA01	SOLID	N/A	2.46E-01	1.580e-003	uCi/g
4 SAMPLE	S95T002987	0 F	QALPHA01 ALPHA01E	SOLID	N/A	4.18E+00	0.000 %	Ct. Error
5 DUP	S95T002987	0 F	QALPHA01 ALPHA01	SOLID	2.46E-1	2.39E-1	2.890	RPD
5 DUP	S95T002987	0 F	QALPHA01 ALPHA01E	SOLID	1.00	4.13E+00	4.130 %	Ct. Error
6 SPK	S95T002987	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	2.71E-02	69.130 %	Recovery
7 SAMPLE	S95T003109	0 F	QALPHA01 ALPHA01	SOLID	N/A	2.99E-01	2.330e-003	uCi/g
7 SAMPLE	S95T003109	0 F	QALPHA01 ALPHA01E	SOLID	N/A	4.53E+00	0.000 %	Ct. Error
8 DUP	S95T003109	0 F	QALPHA01 ALPHA01	SOLID	2.99E-1	3.22E-1	7.410	RPD
8 DUP	S95T003109	0 F	QALPHA01 ALPHA01E	SOLID	1.00	4.50E+00	4.500 %	Ct. Error
9 SPK	S95T003109	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	2.82E-02	71.940 %	Recovery

Final page for worklist# 3986

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

12/5/95
Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	15
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	2724
3986	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	11B56
Matrix	EFFICIENCY FACTOR (EFF)	0.2380
LIQUID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	90.570
Batch Number	Standard Value in $\mu\text{Ci/mL}$	91.637
95004478	Concentration in $\mu\text{Ci/L}$ =	1.92E-05
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.71E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.73E-02
Sample Prep		1.7243E-02
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG	
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)	
WL3986	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L	
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100	
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
EMB		
Chemist		
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.72E-05
Analyst		DETECTION LEVEL
SLH		
Date Complete		9.45E-08
12/04/95	RELATIVE COUNTING ERROR	$\mu\text{Ci/mL}$
Analysis Date		
12/01/95		
Analysis Time		
01:30 AM		
Sample Point		
B-204		

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
STANDARD.WB1 Rev. 1.0	508101ML	

1044

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

Type	DETECTOR NUMBER	BLNK-PREP	REPLICATE
BLNK-PREP	DISH SIZE (1, 2, or 5)	15	15
Work List	GROSS COUNTS (MS)	2	2
3986	COUNT TIME in MINUTES (GC)	14	12
AT or TB ?	COUNT TIME in MINUTES (CT)	30	30
AT	BACKGROUND in cpm (BKG)	0.23	0.23
Test Code	SAMPLE SIZE in mL (SS)	0.100	0.100
@ALPHA01	DILUTION FACTOR (DF)	1	1
Matrix	DIGEST GRAMS of SOLIDS / L (Dg/L)	5.964	5.964
SOLID	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
Batch Number	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.237	0.409
95004478	Blank Concentration in $\mu\text{Ci/g}$	7.51E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 1.30E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 1.2983E-03	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WL3986			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/04/95			
Analysis Date			
12/01/95			
Analysis Time			
01:30 AM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$ < 1.30E-03	
LESS THAN Value was Determined from Rs.		1.58E-03 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	167.1%	

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

BLANK.WB1 Rev. 1.0 508101ML

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2451	2220
3986	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	5.964	5.964
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	81.470	73.770
Batch Number			
95004478	Blank Concentration in $\mu\text{Ci/g}$	2.59E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.34E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.4632E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002987			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/04/95			
Analysis Date			
12/01/95			
Analysis Time			
01:30 AM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$	
RELATIVE COUNTING ERROR		4.2%
		1.58E-03 $\mu\text{Ci/g}$

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/15/95

SAMPLE.WB1 Rev. 1. 508101ML

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

	DUP	REPLICATE
Type	DETECTOR NUMBER	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	2286
3986	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23
AT	SAMPLE SIZE in mL (SS)	0.100
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	6
Matrix	EFFICIENCY FACTOR (EFF)	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	75.970
Batch Number		
95004478	Blank Concentration in $\mu\text{Ci/g}$	2.40E-01
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.38E-01
1	Average Concentration in $\mu\text{Ci/g}$	2.3869E-01
Sample Prep		
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$	
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$	
S95T002987		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
EMB		
Chemist		
SLF	ALPHA TOTAL	2.39E-01
Analyst	in $\mu\text{Ci/g}$	
SLH		
Date Complete		
12/04/95	RELATIVE COUNTING ERROR	4.1%
Analysis Date		
12/01/95		
Analysis Time		
01:30 AM		
Sample Point		
B-204		

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.	508101ML	

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	49544	41078
3986	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	5.964	5.964
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004478	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	5.24E+00	4.34E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.4632E-01	
FUSION01			
Sample #			
S95T002987			
Instrument Code			
WB26872			
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/04/95			
Analysis Date			
12/01/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	2.71E-02	
01:30 AM	AVG. PERCENT SPIKE RECOVERY =	69.1%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
 $SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / ((EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci}))$
 $QC \text{ ACTUAL} = SVal$
 $QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$
 $PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SPIKE.WB1 Rev. 1.0 508101ML		

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1893	1961
3986	COUNT TIME in MINUTES (CT)	30	30
At or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.048	4.048
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	62.870	65.137
Batch Number			
95004478	Blank Concentration in $\mu\text{Ci/g}$	2.94E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.05E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.9925E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003109			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.99E-01	DETECTION LEVEL
SLH			
Date Complete			
12/04/95	RELATIVE COUNTING ERROR	4.5%	2.33E-03 $\mu\text{Ci/g}$
Analysis Date			
12/01/95			
Analysis Time			
01:30 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1. 508101ML		

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2214	1918
3986	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.036	4.036
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	73.570	63.703
Batch Number			
95004478	Blank Concentration in $\mu\text{Ci/g}$	3.45E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.99E-01	
1	Average Concentration in $\mu\text{Ci/g}$	3.2187E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003109			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	3.22E-01	DETECTION LEVEL
SLH			
Date Complete			
12/04/95	RELATIVE COUNTING ERROR	4.5%	2.34E-03 $\mu\text{Ci/g}$
Analysis Date			
12/01/95			
Analysis Time			
01:30 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1. 008101ML		

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	54714	38675
3986	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.048	4.048
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004478	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	8.53E+00	6.03E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.9925E-01	
FUSION01			
Sample #			
S95T003109			
Instrument Code			
WB26872			
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/04/95			
Analysis Date			
12/01/95			
Analysis Time			
01:30 AM			
Sample Point			
B-204			

Rs (Sample Count Rate) = (TC / CT) - BKG
SAMPLE + SPIKE $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
QC ACTUAL = SVal
QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$
PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100

QC ACTUAL	=	3.92E-02
QC FOUND	=	2.82E-02
AVG. PERCENT SPIKE RECOVERY	=	72.0%

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SPIKE.WB1 Rev. 1.0	508101ML	

LABCORE Data Entry Template for Worklist# 3987

Analyst: SLH Instrument: AB00 18 Book# 11B56

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	STD				@ALPHA01	SOLID		
2	BLNK-PREP				@ALPHA01	SOLID		
3	BLNK/BKG				@ALPHA01	SOLID		
4	SAMPLE	S95T003341	0	F	@ALPHA01	SOLID	95000161	B-204
		Analytes Requested: ALPHA01 , ALPHA01E						
5	DUP	S95T003341	0	F	@ALPHA01	SOLID		
6	SPK	S95T003341	0	F	@ALPHA01	SOLID		

Final page for worklist # 3987

Sandra L. Hord
Analyst Signature Date 11-30-95

[Signature]
Analyst Signature Date 12/1/95
Cf. Opinion 12/5/95

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 3987

Analyst: slh Instrument: AB18 Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use .100 mL sample. Use .100 mL A-SPK. Rerun #1 SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	0ALPHA01 ALPHA01	SOLID	1.92E-05	2.02E-5	105.210 % Recovery	
1 STD		0	0ALPHA01 ALPHA01E	SOLID	1.00	3.73E+00	3.730 % Ct. Error	
2 BLNK-PREP		0	0ALPHA01 ALPHA01	SOLID	1	<2.23E-3	uCi/g	
2 BLNK-PREP		0	0ALPHA01 ALPHA01E	SOLID	1.00	2.77E+02	277.000 % Ct. Error	
3 BLNK/BKG		0	0ALPHA01 ALPHA01	SOLID	1.00E+00	2.33E+00	2.330 uCi/g	
4 SAMPLE	S95T003341	0 F	0ALPHA01 ALPHA01	SOLID	N/A	2.17E-01	3.620e-003 uCi/g	
4 SAMPLE	S95T003341	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	9.15E+00	0.000 % Ct. Error	
5 DUP	S95T003341	0 F	0ALPHA01 ALPHA01	SOLID	2.17E-1	2.36E-1	8.390 RPD	
5 DUP	S95T003341	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	7.27E+00	7.270 % Ct. Error	
6 SPK	S95T003341	0 F	0ALPHA01 ALPHA01	SOLID	3.92E-02	3.35E-02	85.460 % Recovery	

Final page for worklist# 3987

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature

12/5/95
Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

WHC-SD-WM-DP-160, REV. 1

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

AT : LA-508-101 (D-2)		STANDARD		STANDARD	REPLICATE
Type	DETECTOR NUMBER			18	18
STD	DISH SIZE (1 , 2 , or 5) (MS)			2	2
Work List	GROSS COUNTS (GC)			2773	2883
3987	COUNT TIME in MINUTES (CT)			30	30
AT or TB ?	BACKGROUND in cpm (BKG)			0.1	0.1
AT	SAMPLE SIZE in mL (SS)			10.000	10.000
Test Code	DILUTION FACTOR (DF)			1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)			11B56	11B56
Matrix	EFFICIENCY FACTOR (EFF)			0.2095	0.2095
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE			92.333	96.000
Batch Number	Standard Value in µCi/mL			1.92E-05	
95004479	Concentration in µCi/L =			1.99E-02	
Rerun	Replicate Concentration in µCi/L =			2.06E-02	
0	AVERAGE CONCENTRATION in µCi/L =			2.0247E-02	
Sample Prep	<div>Rs (Sample Count Rate) = (TC / CT) - BKG</div> <div>ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)</div> <div>ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L</div> <div>Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 *</div> <div>Detection Levels and Less Than Values are determined from Procedure LA-508-002.</div>				
N/A					
Sample #					
WRKLS#3987					
Instrument Code					
WB27809					
Prepared By					
MCB					
Chemist					
SLF	ALPHA TOTAL CONCENTRATION in µCi/mL			2.02E-05	
Analyst					
SLH					
Date Complete					
12/01/95	RELATIVE COUNTING ERROR			=	3.7%
Analysis Date					
11/30/95					
Analysis Time					
10:00 PM					
Sample Point					
B-204					

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
STANDARD.WB1 Rev. 1.0	508101ML	

1054

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	18	18
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	9	5
3987	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.14	2.14
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.200	0.222
Batch Number			
95004479	Blank Concentration in $\mu\text{Ci/g}$	2.01E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.23E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 2.2328E-03	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T3341			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	v RESULTS v		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$ < 2.23E-03		DETECTION LEVEL
SLH	LESS THAN Value was Determined from R_s .		
Date Complete	RELATIVE COUNTING ERROR 277.2%		3.62E-03 $\mu\text{Ci/g}$
12/01/95			
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
BLANK.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	18	18
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	468	833
3987	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.14	2.14
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	15.500	27.667
Batch Number			
95004479	Blank Concentration in $\mu\text{Ci/g}$	1.56E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.78E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.1685E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003341			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	v RESULTS v		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.17E-01	DETECTION LEVEL
SLH			
Date Complete			
12/01/95	RELATIVE COUNTING ERROR	9.1%	3.62E-03 $\mu\text{Ci/g}$
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

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WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	18	18
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	768	735
3987	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.272	2.272
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	25.500	24.400
Batch Number			
95004479	Blank Concentration in $\mu\text{Ci/g}$	2.41E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.31E-01	
1	Average Concentration in $\mu\text{Ci/g}$	2.3612E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003341			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	2.36E-01	
Analyst			
SLH			
Date Complete			
12/01/95	RELATIVE COUNTING ERROR	7.3%	
Analysis Date			
11/30/95			
Analysis Time			
10:00 PM			
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/15/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1057

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	18	18
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	45082	49666
3987	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.14	2.14
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004479	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2095	0.2095
1	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.51E+01	1.66E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.1685E-01	
FUSION01			
Sample #			
S95T003341			
Instrument Code			
WB27809			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
SLH			
Date Complete			
12/01/95			
Analysis Date			
11/30/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.35E-02	
10:00 PM	AVG. PERCENT SPIKE RECOVERY =	85.4%	
Sample Point			
B-204			

Analyst:	MCB	Date: 01-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SPIKE.WB1 Rev. 1.0	508101ML	

LABCORE Data Entry Template for Worklist#

4005

Analyst: EAL Instrument: AB00 #16 Book # 11356
119B43spike

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .100 mL sample size. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	4 SAMPLE	S95T003116	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	4 SAMPLE	S95T003116	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T003116	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	5 DUP	S95T003116	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T003116	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	7 SAMPLE	S95T003334	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	7 SAMPLE	S95T003334	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	8 DUP	S95T003334	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	8 DUP	S95T003334	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	9 SPK	S95T003334	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

4005

Ann Lambert 12-02-95

Mr. Bruch 12-5-95
Cf. Opener 12/5/95

Data Entry Comments:

The RPD for 3334 is acceptable due to low
sample alpha activity. 12/5/95

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#

4005

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
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 Completed Worklist Report for Worklist# 4005

Analyst: eal Instrument: AB16 Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use .100 mL sample size. Use .100 mL A-SPK. SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	SOLID	1.92E-05	2.08E-5	108.330 % Recovery	
1 STD		0	QALPHA01 ALPHA01E	SOLID	1.00	3.68E+00	3.680 % Ct. Error	
2 BLNK-PREP		0	QALPHA01 ALPHA01	SOLID	1	<2.53E-3	uCi/g	
2 BLNK-PREP		0	QALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	QALPHA01 ALPHA01	SOLID	1.00E+00	1.33E+00	1.330 uCi/g	
4 SAMPLE	S95T003116	0 F	QALPHA01 ALPHA01	SOLID	N/A	2.61E-01	3.440e-003 uCi/g	
4 SAMPLE	S95T003116	0 F	QALPHA01 ALPHA01E	SOLID	N/A	6.97E+00	0.000 % Ct. Error	
5 DUP	S95T003116	0 F	QALPHA01 ALPHA01	SOLID	2.61E-1	2.79E-1	6.670 RPD	
5 DUP	S95T003116	0 F	QALPHA01 ALPHA01E	SOLID	1.00	6.78E+00	6.780 % Ct. Error	
6 SPK	S95T003116	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.72E-02	94.900 % Recovery	
7 SAMPLE	S95T003334	0 F	QALPHA01 ALPHA01	SOLID	N/A	3.72E-01	3.810e-003 uCi/g	
7 SAMPLE	S95T003334	0 F	QALPHA01 ALPHA01E	SOLID	N/A	6.07E+00	0.000 % Ct. Error	
8 DUP	S95T003334	0 F	QALPHA01 ALPHA01	SOLID	3.72E-1	3.23E-1	14.100 RPD	
8 DUP	S95T003334	0 F	QALPHA01 ALPHA01E	SOLID	1.00	6.32E+00	6.320 % Ct. Error	
9 SPK	S95T003334	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.76E-02	95.920 % Recovery	

Final page for worklist# 4005

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____

Date _____

Units shown for QC (BLK/BKG) may not reflect the actual units.

WHC-SD-WM-DP-160, REV. 1

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	16	16
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2849	2978
4005	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	11B56	11B56
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	94.867	99.167
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.92E-05	
95004497	Concentration in $\mu\text{Ci/L}$ =	2.03E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	2.12E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	2.0771E-02	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)		
WL4005	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	2.08E-05	
Analyst			
EAL			
Date Complete			
12/05/95	RELATIVE COUNTING ERROR	3.7%	
Analysis Date			
12/02/95			
Analysis Time			
10:50 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
STANDARD.WB1 Rev. 1.0	508101ML	

1062

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	16	16
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2	6
4005	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.2444	2.2444
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.135	0.265
Batch Number			
95004497	Blank Concentration in $\mu\text{Ci/g}$	< 1.29E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.53E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 2.5278E-03	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = (TC / CT) - BKG		
WL4005	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	< 2.53E-03	DETECTION LEVEL
Analyst	LESS Than Value was Determined from Lc.		
EAL			
Date Complete	RELATIVE COUNTING ERROR	500.0%	3.44E-03 $\mu\text{Ci/g}$
12/05/95			
Analysis Date			
12/02/95			
Analysis Time			
10:50 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
BLANK.WB1 Rev. 1.0 508101ML		

1063

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	799	847
4005	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.2444	2.2444
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	26.533	28.133
Batch Number			
95004497	Blank Concentration in $\mu\text{Ci/g}$	2.53E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.68E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.6073E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003116			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.61E-01	DETECTION LEVEL
EAL			
Date Complete			
12/05/95	RELATIVE COUNTING ERROR	7.0%	3.44E-03 $\mu\text{Ci/g}$
Analysis Date			
12/02/95			
Analysis Time			
10:50 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1. 508101ML		

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	900	844
4005	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.2264	2.2264
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	29.900	28.033
Batch Number			
95004497	Blank Concentration in $\mu\text{Ci/g}$	2.88E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.70E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.7855E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003116			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/02/95			
Analysis Time			
10:50 AM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	2.79E-01	DETECTION LEVEL
RELATIVE COUNTING ERROR		6.8%	3.46E-03 $\mu\text{Ci/g}$

Analyst:	EMB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/15/95
SAMPLE.WB1 Rev. 1.	508101ML	

1065

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	52996	52860
4005	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.2444	2.2444
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004497	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.68E+01	1.68E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.6073E-01	
FUSION01			
Sample #			
S95T003116			
Instrument Code			
WB27806			
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/02/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.72E-02	
10:50 AM	AVG. PERCENT SPIKE RECOVERY =	94.8%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
 $SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
 $QC \text{ ACTUAL} = SVal$
 $QC \text{ FOUND} = ((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$
 $PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	EMB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SPIKE.WB1 Rev. 1.0 08101ML		

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1067	1051
4005	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0236	2.0236
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	35.467	34.933
Batch Number			
95004497	Blank Concentration in $\mu\text{Ci/g}$	3.75E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.70E-01	
0	Average Concentration in $\mu\text{Ci/g}$	3.7241E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003334			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	3.72E-01	DETECTION LEVEL
EAL			
Date Complete			3.81E-03 $\mu\text{Ci/g}$
12/05/95	RELATIVE COUNTING ERROR	6.1%	
Analysis Date			
12/02/95			
Analysis Time			
10:50 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1. 508101ML		

1067

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	985	971
4005	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.154	2.154
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	32.733	32.267
Batch Number			
95004497	Blank Concentration in $\mu\text{Ci/g}$	3.25E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.21E-01	
0	Average Concentration in $\mu\text{Ci/g}$	3.2303E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003334			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	3.23E-01	DETECTION LEVEL
Analyst			
EAL			3.58E-03 $\mu\text{Ci/g}$
Date Complete	RELATIVE COUNTING ERROR 6.3%		
12/05/95			
Analysis Date			
12/02/95			
Analysis Time			
10:50 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.	508101ML	

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	53015	54382
4005	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0236	2.0236
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004497	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.87E+01	1.92E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	3.7241E-01	
FUSION01			
Sample #			
S95T003334			
Instrument Code			
WB27806			
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/02/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.76E-02	
10:50 AM	AVG. PERCENT SPIKE RECOVERY =	95.8%	
Sample Point			
B-204			

$$Rs \text{ (Sample Count Rate)} = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = Rs * 1000\text{mL/L} * DF / ((EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci}))$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst:	EMB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SPIKE.WB1 Rev. 1.0	508101ML	

1069

LABCORE Data Entry Template for Worklist#

4006

Analyst: EAL Instrument: AB00 #13 Book # 11B56
Method: LA-508-101 Rev/Mod D-2 119B43 spike

Worklist Comment: Use .100 mL sample size. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	4 SAMPLE	S95T003335	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	4 SAMPLE	S95T003335	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	5 DUP	S95T003335	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	5 DUP	S95T003335	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	6 SPK	S95T003335	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	7 SAMPLE	S95T003340	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	7 SAMPLE	S95T003340	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	8 DUP	S95T003340	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	8 DUP	S95T003340	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	9 SPK	S95T003340	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

4006

Ann Lambert 12.02.95

SE Hogan 12/5/95
SE Hogan 12/5/95

Data Entry Comments:

The RPD For 3340 is acceptable due to
low sample alpha activity. SE Hogan 12/12/95

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.

1070

LABCORE Data Entry Template for Worklist#

4006

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
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 Completed Worklist Report for Worklist# 4006

Analyst: eal

Instrument: AB13

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use .100 mL sample size. Use .100 mL A-SPK. SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	@ALPHA01 ALPHA01	SOLID	1.92E-05	1.98E-5	103.130 % Recovery	
1 STD		0	@ALPHA01 ALPHA01E	SOLID	1.00	3.49E+00	3.490 % Ct. Error	
2 BLNK-PREP		0	@ALPHA01 ALPHA01	SOLID	1	<3.70E-3	uCi/g	
2 BLNK-PREP		0	@ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	@ALPHA01 ALPHA01	SOLID	1.00E+00	1.11E+00	1.110 uCi/g	
4 SAMPLE	S95T003335	0 F	@ALPHA01 ALPHA01	SOLID	N/A	2.69E-01	4.840e-003 uCi/g	
4 SAMPLE	S95T003335	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	6.52E+00	0.000 % Ct. Error	
5 DUP	S95T003335	0 F	@ALPHA01 ALPHA01	SOLID	2.69E-1	2.80E-1	4.010 RPD	
5 DUP	S95T003335	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	6.40E+00	6.400 % Ct. Error	
6 SPK	S95T003335	0 F	@ALPHA01 ALPHA01	SOLID	3.92E-02	3.67E-02	93.620 % Recovery	
7 SAMPLE	S95T003340	0 F	@ALPHA01 ALPHA01	SOLID	N/A	2.04E-01	5.000e-003 uCi/g	
7 SAMPLE	S95T003340	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	7.71E+00	0.000 % Ct. Error	
8 DUP	S95T003340	0 F	@ALPHA01 ALPHA01	SOLID	2.04E-1	2.42E-1	17.040 RPD	
8 DUP	S95T003340	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	6.99E+00	6.990 % Ct. Error	
9 SPK	S95T003340	0 F	@ALPHA01 ALPHA01	SOLID	3.92E-02	3.87E-02	98.720 % Recovery	

Final page for worklist# 4006

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date 12/7/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	13
STD	DISH SIZE (1 , 2 , or 5) (MS)	2
Work List	GROSS COUNTS (GC)	3178
4006	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.33
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	11856
Matrix	EFFICIENCY FACTOR (EFF)	0.2477
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	105.603
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.92E-05
95004498	Concentration in $\mu\text{Ci/L}$ =	1.92E-02
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	2.03E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.9756E-02
Sample Prep		
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$	
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$	
WL4006	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L	
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
MCB		
Chemist		
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.98E-05
Analyst		DETECTION LEVEL
EAL		
Date Complete		1.05E-07
12/05/95	RELATIVE COUNTING ERROR =	3.5%
Analysis Date		
12/02/95		
Analysis Time		
10:55 AM		
Sample Point		
B-204		

Analyst:	MCB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/7/95
STANDARD.WB1 Rev. 1.0	508101ML	

1073

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	13	13
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	15	7
4006	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.33	0.33
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1816	2.1816
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.444	0.245
Batch Number			
95004498	Blank Concentration in $\mu\text{Ci/g}$	< 3.70E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.04E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 3.7048E-03	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WL#4006	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
Instrument Code	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
WB27810			
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 3.70E-03	DETECTION LEVEL
EAL	LESS THAN Value was Determined from Rmax.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	4.84E-03 $\mu\text{Ci/g}$
12/05/95			
Analysis Date			
12/02/95			
Analysis Time			
10:55 AM			
Sample Point			
B-204			

Analyst:	MCB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/7/95

BLANK.WB1 Rev. 1.0 508101ML

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1021	934
4006	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.33	0.33
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1816	2.1816
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	33.703	30.803
Batch Number			
95004498	Blank Concentration in $\mu\text{Ci/g}$	2.81E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.57E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.6886E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003335			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.69E-01	DETECTION LEVEL
EAL			
Date Complete			4.84E-03
12/05/95	RELATIVE COUNTING ERROR	6.5%	$\mu\text{Ci/g}$
Analysis Date			
12/02/95			
Analysis Time			
10:55 AM			
Sample Point			
B-204			

Analyst:	MCB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/7/95
SAMPLE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	13	13
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	967	1005
4006	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.33	0.33
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.114	2.114
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	31.903	33.170
Batch Number			
95004498	Blank Concentration in $\mu\text{Ci/g}$	2.74E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.85E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.7989E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003335			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.80E-01	DETECTION LEVEL
EAL			
Date Complete			4.99E-03
12/05/95	RELATIVE COUNTING ERROR	6.4%	$\mu\text{Ci/g}$
Analysis Date			
12/02/95			
Analysis Time			
10:55 AM			
Sample Point			
B-204			

Analyst:	MCB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/7/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1076

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	62633	60429
4006	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.33	0.33
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1816	2.1816
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004498	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2477	0.2477
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.74E+01	1.68E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.6886E-01	
FUSION01			
Sample #			
S95T003335	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	$SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WB27810	QC ACTUAL = SVal		
Prepared By	$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$		
MCB	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/02/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.67E-02	
10:55 AM	AVG. PERCENT SPIKE RECOVERY =	93.6%	
Sample Point			
B-204			

Analyst:	MCB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/7/95

SPIKE.WB1 Rev. 1.0

508101ML

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	676	762
4006	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.33	0.33
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.112	2.112
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	22.203	25.070
Batch Number			
95004498	Blank Concentration in $\mu\text{Ci/g}$	1.91E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.16E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.0352E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003340			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.04E-01	DETECTION LEVEL
EAL			
Date Complete			5.00E-03
12/05/95	RELATIVE COUNTING ERROR	7.7%	$\mu\text{Ci/g}$
Analysis Date			
12/02/95			
Analysis Time			
10:55 AM			
Sample Point			
B-204			

Analyst:	MCB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/7/95
SAMPLE.WB1 Rev. 1.0	50810/ML	

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	13	13
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	846	816
4006	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.33	0.33
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.06	2.06
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	27.870	26.870

Batch Number	
95004498	Blank Concentration in $\mu\text{Ci/g}$ 2.46E-01
Rerun	Replicate Concentration in $\mu\text{Ci/g}$ 2.37E-01
0	Average Concentration in $\mu\text{Ci/g}$ 2.4162E-01

Sample Prep	
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$
Sample #	$ALPHA \text{ TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
S95T003340	
Instrument Code	Relative Counting Error = $[(The \text{ Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By
MCB

Chemist

SLF

Analyst

EAL

Date Complete

12/05/95

Analysis Date

12/02/95

Analysis Time

10:55 AM

Sample Point

B-204

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$ 2.42E-01	DETECTION LEVEL
RELATIVE COUNTING ERROR	7.0%	5.12E-03 $\mu\text{Ci/g}$

Analyst:	MCB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/7/95
SAMPLE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	64525	64595
4006	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.33	0.33
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.112	2.112
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004498	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2477	0.2477
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.85E+01	1.85E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.0352E-01	
FUSION01			
Sample #			
S95T003340	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WB27810	QC ACTUAL = SVal		
Prepared By	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$		
MCB	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/02/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.87E-02	
10:55 AM	AVG. PERCENT SPIKE RECOVERY =	98.7%	
Sample Point			
B-204			

Analyst:	MCB	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/7/95
SPIKE.WB1 Rev. 1.0	508101ML	

1080

LABCORE Data Entry Template for Worklist#

4007

Analyst: EAL Instrument: AB00 #14 Book # 11856
119343

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Use .100 mL sample size. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000161	B-204	4 SAMPLE	S95T003342	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uci/g
95000161	B-204	4 SAMPLE	S95T003342	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	5 DUP	S95T003342	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000161	B-204	5 DUP	S95T003342	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	6 SPK	S95T003342	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000161	B-204	7 SAMPLE	S95T003343	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uci/g
95000161	B-204	7 SAMPLE	S95T003343	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	8 DUP	S95T003343	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000161	B-204	8 DUP	S95T003343	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	9 SPK	S95T003343	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g

Final page for worklist #

4007

Ann Lambel 12-02-95

Em Barila 12-4-95
C.J. Opinen 12-5-95

Data Entry Comments:

The RPD for samples 3342 + 3343 is acceptable
due to low sample alpha activity. AD 12/5/95

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#

4007

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

1082

LABCORE Completed Worklist Report for Worklist# 4007

Analyst: eal

Instrument: AB14

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Use .100 mL sample size. Use .100 mL A-SPK. SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	SOLID	1.92E-05	1.91E-5	99.480 % Recovery	
1 STD		0	QALPHA01 ALPHA01E	SOLID	1.00	3.69E+00	3.690 % Ct. Error	
2 BLNK-PREP		0	QALPHA01 ALPHA01	SOLID	1	1.97E-3	0.000 uCi/g	
2 BLNK-PREP		0	QALPHA01 ALPHA01E	SOLID	1.00	1.30E+02	130.000 % Ct. Error	
3 BLNK/BKG		0	QALPHA01 ALPHA01	SOLID	1.00E+00	3.33E+00	3.330 uCi/g	
4 SAMPLE	S95T003342	0 F	QALPHA01 ALPHA01	SOLID	N/A	2.62E-01	3.040e-003 uCi/g	
4 SAMPLE	S95T003342	0 F	QALPHA01 ALPHA01E	SOLID	N/A	6.54E+00	0.000 % Ct. Error	
5 DUP	S95T003342	0 F	QALPHA01 ALPHA01	SOLID	2.62E-1	2.98E-1	12.860 RPD	
5 DUP	S95T003342	0 F	QALPHA01 ALPHA01E	SOLID	1.00	6.12E+00	6.120 % Ct. Error	
6 SPK	S95T003342	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.58E-02	91.330 % Recovery	
7 SAMPLE	S95T003343	0 F	QALPHA01 ALPHA01	SOLID	N/A	2.15E-01	3.420e-003 uCi/g	
7 SAMPLE	S95T003343	0 F	QALPHA01 ALPHA01E	SOLID	N/A	7.62E+00	0.000 % Ct. Error	
8 DUP	S95T003343	0 F	QALPHA01 ALPHA01	SOLID	2.15E-1	2.47E-1	13.850 RPD	
8 DUP	S95T003343	0 F	QALPHA01 ALPHA01E	SOLID	1.00	6.92E+00	6.920 % Ct. Error	
9 SPK	S95T003343	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.50E-02	89.290 % Recovery	

Final page for worklist# 4007

Analyst Signature

Date

Analyst Signature

Date

 Reviewer Signature

 12/5/95
 Date

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	14	14
STD	DISH SIZE (1 , 2 , or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2823	2954
4007	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	11B56	11B56
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	94.000	98.367
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.92E-05	
95004499	Concentration in $\mu\text{Ci/L}$ =	1.86E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.95E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.9053E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
WL4007	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[\{ (\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT) \}] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.91E-05	DETECTION LEVEL
Analyst			
EAL			
Date Complete			7.13E-08
12/04/95	RELATIVE COUNTING ERROR	3.7%	$\mu\text{Ci/mL}$
Analysis Date			
12/02/95			
Analysis Time			
11:40 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
STANDARD.WB1 Rev. 1.0 508101ML		

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	14	14
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	8	12
4007	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.3492	2.3492
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.167	0.300
Batch Number			
95004499	Blank Concentration in $\mu\text{Ci/g}$	1.41E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.53E-03	
0	Average Concentration in $\mu\text{Ci/g}$	1.9675E-03	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = (TC / CT) - BKG		
WL4007	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/04/95			
Analysis Date			
12/02/95			
Analysis Time			
11:40 AM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	1.97E-03	DETECTION LEVEL
RELATIVE COUNTING ERROR		130.0%	3.04E-03 $\mu\text{Ci/g}$

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

BLANK.WB1 Rev. 1.0

508101ML

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AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	959	908
4007	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.3492	2.3492
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	31.867	30.167
Batch Number			
95004499	Blank Concentration in $\mu\text{Ci/g}$	2.69E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.54E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.6154E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003342			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.62E-01	DETECTION LEVEL
EAL			
Date Complete	RELATIVE COUNTING ERROR	6.5%	3.04E-03 $\mu\text{Ci/g}$
12/04/95			
Analysis Date			
12/02/95			
Analysis Time			
11:40 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.	508101ML	

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WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1 , 2 , or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1045	1036
4007	COUNT TIME in MINUTES (CT)	30	30
AT or IS ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.2988	2.2988
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	34.733	34.433
Batch Number			
95004499	Blank Concentration in $\mu\text{Ci/g}$	2.99E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.97E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.9800E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003342			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF	$\sqrt{\text{RESULTS}}$		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.98E-01	DETECTION LEVEL
EAL			
Date Complete			3.10E-03 $\mu\text{Ci/g}$
12/04/95	RELATIVE COUNTING ERROR	6.1%	
Analysis Date			
12/02/95			
Analysis Time			
11:40 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.	508101 ML	

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WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	57110	53228
4007	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.3492	2.3492
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004499	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.61E+01	1.50E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.6154E-01	
FUSION01			
Sample #			
S95T003342			
Instrument Code			
WB27807			
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/04/95			
Analysis Date			
12/02/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.58E-02	
11:40 AM	AVG. PERCENT SPIKE RECOVERY =	91.3%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
 $SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
 $QC \text{ ACTUAL} = SVal$
 $QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$
 $PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

SPIKE.WB1 Rev. 1.0 508101ML

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	698	670
4007	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.088	2.088
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	23.167	22.233
Batch Number			
95004499	Blank Concentration in $\mu\text{Ci/g}$	2.20E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.11E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.1535E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003343			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.15E-01	DETECTION LEVEL
EAL			
Date Complete			
12/04/95	RELATIVE COUNTING ERROR	7.6%	3.42E-03 $\mu\text{Ci/g}$
Analysis Date			
12/02/95			
Analysis Time			
11:40 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

SAMPLE.WB1 Rev. 1.

508101ML

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	812	853
4007	COUNT TIME in MINUTES (CT)	30	30
At or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.2164	2.2164
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	26.967	28.333
Batch Number			
95004499	Blank Concentration in $\mu\text{Ci/g}$	2.41E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.53E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.4712E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003343			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
EMB			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	2.47E-01	DETECTION LEVEL
Analyst			
EAL			
Date Complete	RELATIVE COUNTING ERROR	6.9%	3.22E-03 $\mu\text{Ci/g}$
12/04/95			
Analysis Date			
12/02/95			
Analysis Time			
11:40 AM			
Sample Point			
B-204			

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.	508101ML	

1090

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	56010	51325
4007	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.1	0.1
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.088	2.088
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004499	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.77E+01	1.62E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.1535E-01	
FUSION01			
Sample #			
S95T003343			
Instrument Code			
WB27807			
Prepared By			
EMB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/04/95			
Analysis Date			
12/02/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.50E-02	
11:40 AM	AVG. PERCENT SPIKE RECOVERY =	89.2%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
 $SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
 $QC \text{ ACTUAL} = SVal$
 $QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$
 $PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	EMB	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SPIKE.WB1 Rev. 1.0 1508101ML		

1091

LABCORE Data Entry Template for Worklist#

4008

Analyst: EALInstrument: AB00 #16Book # 11B56
119B43-spikeMethod: LA-508-101 Rev/Mod D-2

Worklist Comment: B-204 AT DETERMINE SAMPLE SIZE BY LUDLUM RCJ

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	4 SAMPLE	S95T003344	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	4 SAMPLE	S95T003344	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	5 DUP	S95T003344	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	5 DUP	S95T003344	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	6 SPK	S95T003344	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

4008

Anu Lambel 12-03-95
Analyst Signature Date

Se. Morgan 12/4/95
Analyst Signature Date

C.J. Opium 12/5/95

Data Entry Comments:

Prep Blank #1

sample @ .1 ml was 43 counts alpha & 385 counts Beta/Gamma. EAL

^{SF-105-10} Historical data for this project indicates high dissolved solids in samples. This would account for the high RPD & low SPK recovery. No rerun requested.

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.

1092

12/5/95

LABCORE Completed Worklist Report for Worklist# 4008

Analyst: eal

Instrument: AB16

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: B-204 AT DETERMINE SAMPLE SIZE BY LUDLUM RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	@ALPHA01 ALPHA01	SOLID	1.92E-05	2.16E-5	112.500 % Recovery	
1 STD		0	@ALPHA01 ALPHA01E	SOLID	1.00	3.61E+00	3.610 % Ct. Error	
2 BLNK-PREP		0	@ALPHA01 ALPHA01	SOLID	1	<8.55E-4	uCi/g	
2 BLNK-PREP		0	@ALPHA01 ALPHA01E	SOLID	1.00	2.11E+02	211.000 % Ct. Error	
3 BLNK/BKG		0	@ALPHA01 ALPHA01	SOLID	1.00E+00	1.42E+00	1.420 uCi/g	
4 SAMPLE	S95T003344	0 F	@ALPHA01 ALPHA01	SOLID	N/A	1.82E-01	1.160e-003 uCi/g	
4 SAMPLE	S95T003344	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	3.67E+00	0.000 % Ct. Error	
5 DUP	S95T003344	0 F	@ALPHA01 ALPHA01	SOLID	1.82E-1	2.43E-1	28.710 RPD	
5 DUP	S95T003344	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	3.25E+00	3.250 % Ct. Error	
6 SPK	S95T003344	0 F	@ALPHA01 ALPHA01	SOLID	3.92E-02	3.06E-02	78.060 % Recovery	

Final page for worklist# 4008

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

12/5/95

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	16
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	2981
4008	COUNT TIME In MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	11B56
Matrix	EFFICIENCY FACTOR (EFF)	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	98.967
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.92E-05
95004500	Concentration in $\mu\text{Ci/L}$ =	2.12E-02
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	2.21E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	2.1638E-02
Sample Prep		
N/A	Rs (Sample Count Rate) = $(TC / CT) - BKG$	
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$	
WL-4008	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L	
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
SEH		
Chemist		
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	2.16E-05
Analyst		
EAL		
Date Complete		
12/04/95	RELATIVE COUNTING ERROR =	3.6%
Analysis Date		
12/03/95		
Analysis Time		
01:12 PM		
Sample Point		
B204		

Analyst:	SEH	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
STANDARD.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	16	16
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	17	17
4008	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.3188	2.3188
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.463	0.463
Batch Number			
95004500	Blank Concentration in $\mu\text{Ci/g}$	< 8.55E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 8.55E-04	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 8.5469E-04	
Sample Prep			
N/A	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WL-4008			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/04/95			
Analysis Date			
12/03/95			
Analysis Time			
01:12 PM			
Sample Point			
B204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$ < 8.55E-04	
LESS THAN Value was Determined from Rmax.		1.16E-03 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	211.1%	

Analyst:	SEH	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
BLANK WB1 Rev. 1.0 508101ML		

1095

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2885	3061
4008	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.3188	2.3188
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	95.767	101.633
Batch Number			
95004500	Blank Concentration in $\mu\text{Ci/g}$	1.77E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.88E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.8226E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003344			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/04/95			
Analysis Date			
12/03/95			
Analysis Time			
01:12 PM			
Sample Point			
B204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$ 1.82E-01	
RELATIVE COUNTING ERROR	3.7%	1.16E-03 $\mu\text{Ci/g}$

Analyst:	SEH	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/15/95
SAMPLE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3829	3672
4008	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1956	2.1956
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	127.233	122.000
Batch Number			
95004500	Blank Concentration in $\mu\text{Ci/g}$	2.48E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.38E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.4303E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003344			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.43E-01	DETECTION LEVEL
EAL			
Date Complete			1.23E-03
12/04/95	RELATIVE COUNTING ERROR	3.3%	$\mu\text{Ci/g}$
Analysis Date			
12/03/95			
Analysis Time			
01:12 PM			
Sample Point			
B204			

Analyst:	SEH	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	45605	45976
4008	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.3188	2.3188
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004500	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	2.81E+00	2.83E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.8226E-01	
FUSION01			
Sample #			
S95T003344			
Instrument Code			
WB27806			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/04/95			
Analysis Date			
12/03/95	QC ACTUAL	=	3.92E-02
Analysis Time	QC FOUND	=	3.06E-02
01:12 PM	AVG. PERCENT SPIKE RECOVERY	=	77.9%
Sample Point			
B204			

$$R_s (\text{Sample Count Rate}) = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst:	SEH	Date: 04-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

SPIKE.WB1 Rev. 1.0

508101ML

LABCORE Data Entry Template for Worklist#

4009

Analyst: EAL

Instrument: AB00

#15

Book # 11B56

119043 spike

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: B-204 AT DETERMINE SAMPLE SIZE BY LUDLUM RCI

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	4 SAMPLE	S95T003345	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	4 SAMPLE	S95T003345	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	5 DUP	S95T003345	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	5 DUP	S95T003345	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	6 SPK	S95T003345	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	7 SAMPLE	S95T003346	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	7 SAMPLE	S95T003346	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	8 DUP	S95T003346	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	8 DUP	S95T003346	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	9 SPK	S95T003346	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

4009

Ann Lambert 12/03/95

SEB Logan 12/5/95
MGB Branson 12/5/95

Data Entry Comments:

* Prep Blank #2

Small sample size due to considerable solids in sample.

Historical data indicate that the low spk recoveries are due to high solids content in the sample. No reruns requested. 12/15/95

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.

1099

worklistrpt Version 2.1 05/15/95
12/03/95 03:17

Page: 2

LABCORE Data Entry Template for Worklist#**4009**

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
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 Completed Worklist Report for Worklist# 4009

Analyst: eal Instrument: AB15 Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: B-204 AT DETERMINE SAMPLE SIZE BY LUDLUM RCJ

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	SOLID	1.92E-05	1.86E-5	96.880 % Recovery	
1 STD		0	QALPHA01 ALPHA01E	SOLID	1.00	3.67E+00	3.670 % Ct. Error	
2 BLNK-PREP		0	QALPHA01 ALPHA01	SOLID	1	<3.35E-3	uCi/g	
2 BLNK-PREP		0	QALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	QALPHA01 ALPHA01	SOLID	1.00E+00	1.17E+00	1.170 uCi/g	
4 SAMPLE	S95T003345	0 F	QALPHA01 ALPHA01	SOLID	N/A	2.19E-01	5.460e-003 uCi/g	
4 SAMPLE	S95T003345	0 F	QALPHA01 ALPHA01E	SOLID	N/A	7.25E+00	0.000 % Ct. Error	
5 DUP	S95T003345	0 F	QALPHA01 ALPHA01	SOLID	2.19E-1	2.45E-1	11.210 RPD	
5 DUP	S95T003345	0 F	QALPHA01 ALPHA01E	SOLID	1.00	6.65E+00	6.650 % Ct. Error	
6 SPK	S95T003345	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.09E-02	78.830 % Recovery	
7 SAMPLE	S95T003346	0 F	QALPHA01 ALPHA01	SOLID	N/A	3.36E-01	5.530e-003 uCi/g	
7 SAMPLE	S95T003346	0 F	QALPHA01 ALPHA01E	SOLID	N/A	5.86E+00	0.000 % Ct. Error	
8 DUP	S95T003346	0 F	QALPHA01 ALPHA01	SOLID	3.36E-1	3.29E-1	2.110 RPD	
8 DUP	S95T003346	0 F	QALPHA01 ALPHA01E	SOLID	1.00	5.98E+00	5.980 % Ct. Error	
9 SPK	S95T003346	0 F	QALPHA01 ALPHA01	SOLID	3.92E-02	3.03E-02	77.300 % Recovery	

Final page for worklist# 4009

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____

Date _____

Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	15	15
STD	DISH SIZE (1 , 2 , or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2883	3024
4009	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	11B56	11B56
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	95.700	100.400
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.92E-05	
95004501	Concentration in $\mu\text{Ci/L}$ =	1.81E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.90E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.8557E-02	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)		
WL#4009	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.86E-05	DETECTION LEVEL
Analyst			
EAL			
Date Complete	RELATIVE COUNTING ERROR =	3.7%	1.19E-07 $\mu\text{Ci/mL}$
12/05/95			
Analysis Date			
12/03/95			
Analysis Time			
01:05 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95

STANDARD.WB1 Rev. 1.0

508101ML

1102

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2) SOLIDS

	BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	15
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	15
4009	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4
AT	SAMPLE SIZE in mL (SS)	0.100
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1816
Matrix	EFFICIENCY FACTOR (EFF)	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.386
Batch Number		
95004501	Blank Concentration in $\mu\text{Ci/g}$	< 3.35E-03
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.67E-03
0	Maximum Concentration in $\mu\text{Ci/g}$	< 3.3469E-03
Sample Prep		
N/A		
Sample #	Rs (Sample Count Rate) = $(TC / CT) - BKG$	
WL#4009	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$	
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
SEH		
Chemist		
SLF	v RESULTS v	
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 3.35E-03
EAL	LESS THAN Value was Determined from Rmax.	
Date Complete	RELATIVE COUNTING ERROR	500.0%
12/05/95		
Analysis Date		
12/03/95		
Analysis Time		
01:05 PM		
Sample Point		
B-204		

Analyst:	SEH	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
BLANK.WB1 Rev. 1.0	508101ML	

1103

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	767	772
4009	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1816	2.1816
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	25.167	25.333
Batch Number			
95004501	Blank Concentration in $\mu\text{Ci/g}$	2.18E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.20E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.1906E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003345			
Instrument Code	Relative Counting Error = $[\{ (\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT) \}] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.19E-01	DETECTION LEVEL
EAL			
Date Complete			5.46E-03
12/05/95	RELATIVE COUNTING ERROR	7.2%	$\mu\text{Ci/g}$
Analysis Date			
12/03/95			
Analysis Time			
01:05 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1104

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	970	904
4009	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.384	2.384
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	31.933	29.733
Batch Number			
95004501	Blank Concentration in $\mu\text{Ci/g}$	2.54E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.36E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.4478E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003345			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/03/95			
Analysis Time			
01:05 PM			
Sample Point			
B-204			

		v RESULTS v	
ALPHA TOTAL	in $\mu\text{Ci/g}$	2.45E-01	DETECTION LEVEL
RELATIVE COUNTING ERROR		6.7%	5.00E-03 $\mu\text{Ci/g}$

Analyst:	SEH	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	50000	49621
4009	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1816	2.1816
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004501	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.45E+01	1.43E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.1906E-01	
FUSION01			
Sample #			
S95T003345	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WB26872	QC ACTUAL = SVal		
Prepared By	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$		
SEH	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/03/95	QC ACTUAL =	3.92E-02	
Analysis Time	QC FOUND =	3.09E-02	
01:05 PM	AVG. PERCENT SPIKE RECOVERY =	78.9%	
Sample Point			
B-204			

Analyst:	SEH	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SPIKE.WB1 Rev. 1.0	58101ML	

WHC-SD-WM-DP-160, REV. 1

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1166	1155
4009	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.154	2.154
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	38.467	38.100
Batch Number			
95004501	Blank Concentration in $\mu\text{Ci/g}$	3.38E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.35E-01	
0	Average Concentration in $\mu\text{Ci/g}$	3.3638E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003346			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/03/95			
Analysis Time			
01:05 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

1107

WHC-SD-WM-DP-160, REV.1

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1111	1170
4009	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1644	2.1644
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	36.633	38.600
Batch Number			
95004501	Blank Concentration in $\mu\text{Ci/g}$	3.20E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.38E-01	
0	Average Concentration in $\mu\text{Ci/g}$	3.2894E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003346			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL	3.29E-01	DETECTION LEVEL
Analyst	in $\mu\text{Ci/g}$		
EAL			
Date Complete	RELATIVE COUNTING ERROR	6.0%	5.51E-03 $\mu\text{Ci/g}$
12/05/95			
Analysis Date			
12/03/95			
Analysis Time			
01:05 PM			
Sample Point			
B-204			

Analyst:	SEH	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/5/95
SAMPLE.WB1 Rev. 1.0	508101ML	

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	50025	48471
4009	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.154	2.154
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	119B43	119B43
95004501	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	3.9218E-02	3.9218E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.46E+01	1.42E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	3.3638E-01	
FUSION01			
Sample #			
S95T003346			
Instrument Code			
WB26872			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
12/05/95			
Analysis Date			
12/03/95	QC ACTUAL	=	3.92E-02
Analysis Time	QC FOUND	=	3.03E-02
01:05 PM	AVG. PERCENT SPIKE RECOVERY	=	77.4%
Sample Point			
B-204			

$$Rs (\text{Sample Count Rate}) = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = Rs * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst:	SEH	Date: 05-Dec-95
Signature of Chemist:	SLF	Date: 12/15/95
SPIKE.WB1 Rev. 1.0	508101ML	SLF

1109

WHC-SD-WM-DP-160, REV. 1

**THE FOLLOWING ANALYSES WERE
RERUN. THEY ARE INCLUDED IN THE
DATA PACKAGE BUT THE RESULTS
HAVE NOT BEEN REPORTED IN THE
FINAL SUMMARY REPORTS.**

LABCORE Data Entry Template for Worklist#

3724

Analyst: RK

Instrument: AB00 #16

Book # 150352

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

DATA
NOT USED
IN PACKAGE

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	4 SAMPLE	S95T002987	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	4 SAMPLE	S95T002987	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T002987	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	5 DUP	S95T002987	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T002987	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	7 SAMPLE	S95T003109	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	7 SAMPLE	S95T003109	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	8 DUP	S95T003109	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	8 DUP	S95T003109	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	9 SPK	S95T003109	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

3724

SE Bloggs 11/27/95

Data Entry Comments:

SRK recovery for 3109 is out of limits.
Sample will be re-run. AA = All 11/30/95

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.

1111

LABCORE Data Entry Template for Worklist#

3724

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

Not-King

11/24/95

DATA
NOT USED
IN PACKAGE

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.

1112

LABCORE Completed Worklist Report for Worklist# 3724

Analyst: rwk

Instrument: AB16

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	0ALPHA01 ALPHA01	SOLID	1.28E-05	1.28E-5	100.000 % Recovery	
1 STD		0	0ALPHA01 ALPHA01E	SOLID	1.00	4.79E+00	4.790 % Ct. Error	
2 BLNK-PREP		0	0ALPHA01 ALPHA01	SOLID	1	<5.47E-3	uCi/g	
2 BLNK-PREP		0	0ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	0ALPHA01 ALPHA01	SOLID	1.00E+00	6.25E-01	0.630 uCi/g	
4 SAMPLE	S95T002987	0 F	0ALPHA01 ALPHA01	SOLID	N/A	3.15E-01	1.220e-002 uCi/g	
4 SAMPLE	S95T002987	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	8.05E+00	0.000 % Ct. Error	
5 DUP	S95T002987	0 F	0ALPHA01 ALPHA01	SOLID	3.15E-1	3.20E-1	1.570 RPD	
5 DUP	S95T002987	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	8.05E+00	8.050 % Ct. Error	
6 SPK	S95T002987	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	4.08E-02	91.070 % Recovery	
7 SAMPLE	S95T003109	0 F	0ALPHA01 ALPHA01	SOLID	N/A	8.95E-02	4.510e-004 uCi/g	
7 SAMPLE	S95T003109	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	2.81E+00	0.000 % Ct. Error	
8 DUP	S95T003109	0 F	0ALPHA01 ALPHA01	SOLID	8.95E-2	8.82E-2	1.460 RPD	
8 DUP	S95T003109	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	2.83E+00	2.830 % Ct. Error	
9 SPK	S95T003109	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	1.21E-02	27.010 % Recovery	

Final page for worklist# 3724

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date 11/30/95

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

1113

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	16	16
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1879	1744
3724	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	61.833	57.333
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05	
95004183	Concentration in $\mu\text{Ci/L}$ =	1.32E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.23E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.2756E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.28E-05	
Analyst			
RWK			
Date Complete			
11/27/95	RELATIVE COUNTING ERROR	4.8%	
Analysis Date			
11/24/95			
Analysis Time			
02:00 PM			
Sample Point			
B-204			

DETECTION
LEVEL1.83E-07
 $\mu\text{Ci/mL}$

Analyst:

RWK

Date: 27-Nov-95

Signature of Chemist:

SLF

Date:

STANDARD.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1114

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	16	16
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	12	18
3724	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	0.025	0.025
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	5.964	5.964
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	0.381	0.381
Batch Number			
95004183	Blank Concentration in $\mu\text{Ci/g}$	< 5.47E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 5.47E-03	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 5.4715E-03	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	v RESULTS v		
Analyst	ALPHA TOTAL	in $\mu\text{Ci/g}$	< 5.47E-03
RWK	LESS Than Value was Determined from Lc.		DETECTION LEVEL
Date Complete	RELATIVE COUNTING ERROR		1.22E-02
11/27/95			$\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
02:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 27-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95

BLANK.WB1 Rev. 1.0

508101ML

DATA
NOT USED
in PACKAGE

1115

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	662	704
3724	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	0.025	0.025
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	5.964	5.964
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	21.267	22.667
Batch Number			
95004183	Blank Concentration in $\mu\text{Ci/g}$	3.05E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.25E-01	
0	Average Concentration in $\mu\text{Ci/g}$	3.1542E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T002987			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	3.15E-01	DETECTION LEVEL
Analyst			
RWK			
Date Complete			1.22E-02
11/27/95	RELATIVE COUNTING ERROR	8.0%	$\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
02:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 27-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1. 508101ML		

DATA
NOT USED
IN PACKAGE

1116

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	730	662
3724	COUNT TIME in MINUTES (CT)	30	30
AT or IB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	0.025	0.025
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	6	6
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	23.533	21.267
Batch Number			
95004183	Blank Concentration in $\mu\text{Ci/g}$	3.36E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	3.04E-01	
0	Average Concentration in $\mu\text{Ci/g}$	3.1971E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002987			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	3.20E-01	DETECTION LEVEL
RWK			
Date Complete			
11/27/95	RELATIVE COUNTING ERROR	8.0%	1.22E-02 $\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
02:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 27-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
IN PACKAGE

1117

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	57908	57670
3724	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.025	0.025
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	5.964	5.964
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004183	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	2.77E+01	2.76E+01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	3.1542E-01	
FUSION01			
Sample #			
S95T002987			
Instrument Code			
WB27806			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/27/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	4.08E-02	
02:00 PM	AVG. PERCENT SPIKE RECOVERY =	91.0%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
 $SAMPLE + SPIKE \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
 $QC \text{ ACTUAL} = SVal$
 $QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - SAMPLE \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$
 $PERCENT \text{ SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	RWK	Date: 27-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SPIKE.WB1 Rev. 1.0 508101ML		

DATA
NOT USED
IN PACKAGE

1118

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	5273	4923
3724	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.048	4.048
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	174.967	163.300
Batch Number			
95004183	Blank Concentration in $\mu\text{Ci/g}$	9.25E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	8.64E-02	
0	Average Concentration in $\mu\text{Ci/g}$	8.9452E-02	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003109			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	8.95E-02	DETECTION LEVEL
RWK			
Date Complete			4.51E-04 $\mu\text{Ci/g}$
11/27/95	RELATIVE COUNTING ERROR	2.8%	
Analysis Date			
11/24/95			
Analysis Time			
02:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 27-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
IN PACKAGE

1119

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1 , 2 , or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4854	5169
3724	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.036	4.036
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	161.000	171.500
Batch Number			
95004183	Blank Concentration in $\mu\text{Ci/g}$	8.54E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	9.10E-02	
0	Average Concentration in $\mu\text{Ci/g}$	8.8188E-02	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003109			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	v RESULTS v		
Analyst	ALPHA TOTAL	in $\mu\text{Ci/g}$	8.82E-02
RWK			DETECTION LEVEL
Date Complete			4.52E-04
11/27/95	RELATIVE COUNTING ERROR	2.8%	$\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
02:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 27-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1. 508101ML		

DATA
NOT USED
IN PACKAGE

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	21283	22752
3724	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.048	4.048
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004183	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	3.75E-01	4.01E-01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	8.9452E-02	
FUSION01			
Sample #			
S95T003109			
Instrument Code			
WB27806			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/27/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	1.21E-02	
02:00 PM	AVG. PERCENT SPIKE RECOVERY =	27.0%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / ((EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci}))$
QC ACTUAL = SVal
QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)) / (DF/SS/Dg/L)))$
PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	RWK	Date: 27-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SPIKE.WB1 Rev. 1.0 508101ML		

DATA
 NOT USED
 IN PACKAGE

1121

LABCORE Data Entry Template for Worklist#

3793

Analyst: EAL Instrument: AB00 #15 Book # 150BS2

Method: LA-508-101 Rev/Mod D-2 112B43

Worklist Comment: Determine sample size by Ludlum, use .1ml spike. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000161	B-204	4 SAMPLE	S95T003341	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uci/g
95000161	B-204	4 SAMPLE	S95T003341	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	5 DUP	S95T003341	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000161	B-204	5 DUP	S95T003341	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	6 SPK	S95T003341	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g

Final page for worklist #

3793

Analyst Signature

11-27-95
Date

Analyst Signature

11/28/95
Date

DATA
NOT USED
IN PACKAGE

Data Entry Comments:

(3)

The SPK recovery is out of control limits
sample will be rerun. 11/30/95

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.

1166

LABCORE Completed Worklist Report for Worklist# 3793

Analyst: eal

Instrument: AB15

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine sample size by Ludlum, use .1ml spike. dlh

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	@ALPHA01 ALPHA01	SOLID	1.28E-05	1.14E-5	89.060 % Recovery	
1 STD		0	@ALPHA01 ALPHA01E	SOLID	1.00	4.78E+00	4.780 % Ct. Error	
2 BLNK-PREP		0	@ALPHA01 ALPHA01	SOLID	1	<2.56E-4	uCi/g	
2 BLNK-PREP		0	@ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	@ALPHA01 ALPHA01	SOLID	1.00E+00	1.01E+00	1.010 uCi/g	
4 SAMPLE	S95T003341	0 F	@ALPHA01 ALPHA01	SOLID	N/A	1.05E-01	4.420e-004 uCi/g	
4 SAMPLE	S95T003341	0 F	@ALPHA01 ALPHA01E	SOLID	N/A	3.36E+00	0.000 % Ct. Error	
5 DUP	S95T003341	0 F	@ALPHA01 ALPHA01	SOLID	1.05E-1	9.38E-2	11.270 RPD	
5 DUP	S95T003341	0 F	@ALPHA01 ALPHA01E	SOLID	1.00	3.55E+00	3.550 % Ct. Error	
6 SPK	S95T003341	0 F	@ALPHA01 ALPHA01	SOLID	4.48E-02	1.79E-02	39.960 % Recovery	

Final page for worklist# 3793

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	15
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	1703
3793	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2380
LIQUID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	56.537
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05
95004281	Concentration in $\mu\text{Ci/L}$ =	1.07E-02
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.21E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.1394E-02
Sample Prep		
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$	
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$	
WORKLIST#3793-STD	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L	
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
CJO		
Chemist		
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.14E-05
Analyst		DETECTION LEVEL
EAL		
Date Complete		9.45E-08
11/28/95	RELATIVE COUNTING ERROR =	4.8%
Analysis Date		
11/27/95		
Analysis Time		
11:58 PM		
Sample Point		
B-204		

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95

STANDARD.WB1 Rev. 1.0

508101ML

DATA
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1144

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	15	15
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	5	9
3793	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.14	2.14
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.204	0.289
Batch Number			
95004281	Blank Concentration in $\mu\text{Ci/g}$	< 1.81E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.56E-04	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 2.5587E-04	
Sample Prep			
N/A	Rs (Sample Count Rate) = $(\text{TC} / \text{CT}) - \text{BKG}$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $\text{Rs} * 1000\text{mL/L} * \text{DF} / (\text{EFF} * \text{SS} * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$		
S95T3341-BLANK			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of TC} + \text{BKG} * \text{CT}) / (\text{TC} - \text{BKG} * \text{CT})] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

		v RESULTS v	DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$	< 2.56E-04	
LESS Than Value was Determined from Lc.			
RELATIVE COUNTING ERROR		500.0%	4.42E-04 $\mu\text{Ci/g}$

Analyst:

EAL

Date: 28-Nov-95

Signature of Chemist:

SLF

Date: 11/30/95

BLANK.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1125

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3732	3418
3793	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.14	2.14
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	124.170	113.703
Batch Number			
95004281	Blank Concentration in $\mu\text{Ci/g}$	1.10E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.01E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.0519E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003341			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL	1.05E-01	DETECTION LEVEL
Analyst			
EAL			
Date Complete			4.42E-04
11/28/95	RELATIVE COUNTING ERROR	3.4%	$\mu\text{Ci/g}$
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1126

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3063	3710
3793	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.272	2.272
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	101.870	123.437
Batch Number			
95004281	Blank Concentration in $\mu\text{Ci/g}$	8.49E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.03E-01	
0	Average Concentration in $\mu\text{Ci/g}$	9.3844E-02	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003341			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$	
RELATIVE COUNTING ERROR		3.6%

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1.0 508101ML		

DATA
NOT USED
IN PACKAGE

1127

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	30492	33518
3793	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.23	0.23
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.14	2.14
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004281	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	8.99E-01	9.88E-01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.0519E-01	
FUSION01			
Sample #			
S95T003341			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB26872	SAMPLE + SPIKE $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Prepared By	QC ACTUAL = SVal		
CJO	QC FOUND = (((S+S $\mu\text{Ci/g}$ - SAMPLE $\mu\text{Ci/g}$) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))		
Chemist	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	1.79E-02	
11:58 PM	AVG. PERCENT SPIKE RECOVERY =	40.1%	
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SPIKE.WB1 Rev. 1.0 508101ML		

DATA
NOT USED
IN PACKAGE

1128

LABCORE Data Entry Template for Worklist#

3792

Analyst: SAL Instrument: AB00 #14 Book # 150352
112B43

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine Sample size by Ludlum, use .1ml spike. dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000161	B-204	4 SAMPLE	S95T003336	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uci/g
95000161	B-204	4 SAMPLE	S95T003336	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	5 DUP	S95T003336	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000161	B-204	5 DUP	S95T003336	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	6 SPK	S95T003336	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g

Final page for worklist #

3792

[Signature] 11/27/95
Analyst Signature Date

[Signature] 11/28/95
Analyst Signature Date

DATA
NOT USED
IN PACKAGE

Data Entry Comments:

(2)

SPK recoveries are out of control limits
batch will be rerun. [Signature] 11/28/95

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 Completed Worklist Report for Worklist# 3792

Analyst: eal

Instrument: AB00

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine Sample size by Ludlum, use .1ml spike. dlh

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD	0		0ALPHA01 ALPHA01	SOLID	1.28E-05	1.27E-5	99.220 % Recovery	
1 STD	0		0ALPHA01 ALPHA01E	SOLID	1.00	4.51E+00	4.510 % Ct. Error	
2 BLNK-PREP	0		0ALPHA01 ALPHA01	SOLID	1	<2.62E-4	uCi/g	
2 BLNK-PREP	0		0ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG	0		0ALPHA01 ALPHA01	SOLID	1.00E+00	9.57E-01	0.960 uCi/g	
4 SAMPLE	S95T003336	0 F	0ALPHA01 ALPHA01	SOLID	N/A	1.31E-01	6.060e-004 uCi/g	
4 SAMPLE	S95T003336	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	3.05E+00	0.000 % Ct. Error	
5 DUP	S95T003336	0 F	0ALPHA01 ALPHA01	SOLID	1.31E-1	1.49E-1	12.860 RPD	
5 DUP	S95T003336	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	2.86E+00	2.860 % Ct. Error	
6 SPK	S95T003336	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	1.88E-02	41.960 % Recovery	

Final page for worklist# 3792

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

11/29/95
Date

DATA
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Units shown for QC (BLK/BKG) may not reflect the actual units.

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	14
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	1954
3792	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2274
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	64.663
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05
95004280	Concentration in $\mu\text{Ci/L}$ =	1.28E-02
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.27E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.2730E-02
Sample Prep		
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$	
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$	
WORKLIST#3792	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L	
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
CJO		
Chemist		
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.27E-05
Analyst		
EAL		
Date Complete		
11/28/95	RELATIVE COUNTING ERROR =	4.5%
Analysis Date		
11/27/95		
Analysis Time		
11:58 PM		
Sample Point		
B-204		

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist: <i>SLF</i>	<i>for</i> SLF	Date: NOV 28 1995

STANDARD.WB1 Rev. 1.0

508101ML

DATA
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1131

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	14	14
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	13	14
3792	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.206	2.206
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.292	0.292
Batch Number			
95004280	Blank Concentration in $\mu\text{Ci/g}$	< 2.62E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.62E-04	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 2.6226E-04	
Sample Prep			
N/A	Rs (Sample Count Rate) = $(\text{TC} / \text{CT}) - \text{BKG}$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $\text{Rs} * 1000\text{mL/L} * \text{DF} / (\text{EFF} * \text{SS} * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$		
S95T3336-BLNK			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of TC} + \text{BKG} * \text{CT}) / (\text{TC} - \text{BKG} * \text{CT})] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	< 2.62E-04	DETECTION LEVEL
LESS Than Value was Determined from Lc.			
RELATIVE COUNTING ERROR		500.0%	6.06E-04 $\mu\text{Ci/g}$

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist: <i>McCarty</i>	SLF	Date: NOV 28 1995

BLANK.WB1 Rev. 1.0

508101ML

DATA
NOT USED
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1136

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4173	4639
3792	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.206	2.206
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	138.630	154.163
Batch Number			
95004280	Blank Concentration in $\mu\text{Ci/g}$	1.24E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.38E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.3146E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003336			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	1.31E-01	DETECTION LEVEL
EAL			
Date Complete			6.06E-04 $\mu\text{Ci/g}$
11/28/95	RELATIVE COUNTING ERROR	3.0%	
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist: <i>SLF</i>	SLF	Date: NOV 28 1995
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1133

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	5003	4728
3792	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1464	2.1464
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	166.297	157.130
Batch Number			
95004280	Blank Concentration in $\mu\text{Ci/g}$	1.53E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.45E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.4924E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003336			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$	
RELATIVE COUNTING ERROR		2.9%
		6.23E-04 $\mu\text{Ci/g}$

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: NOV 28 1995
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1134

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	34754	31007
3792	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.206	2.206
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004280	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.04E+00	9.28E-01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.3146E-01	
FUSION01			
Sample #			
S95T003336			
Instrument Code			
WB27807			
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95	QC ACTUAL	=	4.48E-02
Analysis Time	QC FOUND	=	1.88E-02
11:58 PM	AVG. PERCENT SPIKE RECOVERY	=	42.0%
Sample Point			
B-204			

$$Rs (\text{Sample Count Rate}) = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = Rs * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: NOV 28 1995
SPIKE WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1135

WHC-SD-WM-DP-160, REV. 1
LABCORE Data Entry Template for Worklist#

3791

Analyst: EAL Instrument: AB00 #16 Book # 151B52
112B43

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size by Ludlum, use .1ml spike dlh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	4 SAMPLE	S95T003119	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	4 SAMPLE	S95T003119	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T003119	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	5 DUP	S95T003119	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T003119	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	7 SAMPLE	S95T003120	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	7 SAMPLE	S95T003120	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	8 DUP	S95T003120	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	8 DUP	S95T003120	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	9 SPK	S95T003120	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

3791

Alan Lambel 11-27-95 DATA NOT USED IN PACKAGE Se Hogan 11/28/95

Data Entry Comments:

①

The spk recoveries are out of control

limits. Batch will be resaw. 11/30/95

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#

3791

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

DATA
NOT USED
IN PACKAGE

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.

1137

LABCORE Completed Worklist Report for Worklist# 3791

Analyst: eal

Instrument: AB16

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine sample size by Ludlum, use .1ml spike dlh

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD	0		0ALPHA01 ALPHA01	SOLID	1.28E-05	1.34E-5	104.620 % Recovery	
1 STD	0		0ALPHA01 ALPHA01E	SOLID	1.00	4.61E+00	4.610 % Ct. Error	
2 BLNK-PREP	0		0ALPHA01 ALPHA01	SOLID	1	<5.66E-4	uCi/g	
2 BLNK-PREP	0		0ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG	0		0ALPHA01 ALPHA01	SOLID	1.00E+00	1.17E+00	1.170 uCi/g	
4 SAMPLE	S95T003119	0 F	0ALPHA01 ALPHA01	SOLID	N/A	1.11E-01	6.430e-004 uCi/g	
4 SAMPLE	S95T003119	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	3.35E+00	0.000 % Ct. Error	
5 DUP	S95T003119	0 F	0ALPHA01 ALPHA01	SOLID	1.11E-1	1.11E-1	0.000 RPD	
5 DUP	S95T003119	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	3.27E+00	3.270 % Ct. Error	
6 SPK	S95T003119	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	2.16E-02	48.210 % Recovery	
7 SAMPLE	S95T003120	0 F	0ALPHA01 ALPHA01	SOLID	N/A	2.42E-01	6.740e-004 uCi/g	
7 SAMPLE	S95T003120	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	2.31E+00	0.000 % Ct. Error	
8 DUP	S95T003120	0 F	0ALPHA01 ALPHA01	SOLID	2.42E-1	2.17E-1	10.890 RPD	
8 DUP	S95T003120	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	2.44E+00	2.440 % Ct. Error	
9 SPK	S95T003120	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	2.43E-02	54.240 % Recovery	

Final page for worklist# 3791

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

11/30/95

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

WHC-SD-WM-DP-160, REV. 1
STANDARD

AT : LA-508-101 (D-2)

Type	DETECTOR NUMBER	STANDARD	REPLICATE
STD	DISH SIZE (1, 2, or 5) (MS)	16	16
Work List	GROSS COUNTS (GC)	2	2
3791	COUNT TIME in MINUTES (CT)	1851	1930
At or TB ?	BACKGROUND in cpm (BKG)	30	30
AT	SAMPLE SIZE in mL (SS)	0.47	0.47
Test Code	DILUTION FACTOR (DF)	10.000	10.000
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	150B52	150B52
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.2104	0.2104
Batch Number	Standard Value in $\mu\text{Ci/mL}$	61.230	63.863
95004279	Concentration in $\mu\text{Ci/L}$ =	1.28E-05	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.31E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.37E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.34E-05	DETECTION LEVEL
Analyst			
EAL			
Date Complete	RELATIVE COUNTING ERROR	4.6%	1.44E-07 $\mu\text{Ci/mL}$
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
STANDARD.WB1 Rev. 1.0 508101ML		

DATA
NOT USED
IN PACKAGE

1139

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	16	16
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	11	22
3791	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.248	2.248
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	0.292	0.594
Batch Number			
95004279	Blank Concentration in $\mu\text{Ci/g}$	< 2.78E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 5.66E-04	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 5.6551E-04	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	< 5.66E-04	DETECTION LEVEL
Analyst	LESS Than Value was Determined from Lc.		
EAL			6.43E-04
Date Complete	RELATIVE COUNTING ERROR	500.0%	$\mu\text{Ci/g}$
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95

BLANK.WB1 Rev. 1.0

508-Q1ML

DATA
NOT USED
IN PACKAGE

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3466	3556
3791	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.248	2.248
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	115.063	118.063
Batch Number			
95004279	Blank Concentration in $\mu\text{Ci/g}$	1.10E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.12E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.1101E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003119			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
IN PACKAGE

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3831	3624
3791	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.3768	2.3768
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	127.230	120.330
Batch Number			
95004279	Blank Concentration in $\mu\text{Ci/g}$	1.15E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.08E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.1150E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003119			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	1.11E-01	DETECTION LEVEL
RELATIVE COUNTING ERROR	3.3%		6.08E-04 $\mu\text{Ci/g}$

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1.	808101ML	

DATA
NOT USED
PACKAGE

11-86

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	32646	35018
3791	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.248	2.248
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004279	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.04E+00	1.11E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.1101E-01	
FUSION01			
Sample #			
S95T003119			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB27806	SAMPLE + SPIKE $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Prepared By	QC ACTUAL = SVal		
SEH	QC FOUND = (((S+S $\mu\text{Ci/g}$ - SAMPLE $\mu\text{Ci/g}$) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))		
Chemist	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	2.16E-02	
11:58 PM	AVG. PERCENT SPIKE RECOVERY =	48.3%	
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95

SPIKE.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1143

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	7249	7314
3791	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1444	2.1444
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	241.163	243.330
Batch Number			
95004279	Blank Concentration in $\mu\text{Ci/g}$	2.41E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.43E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.4185E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003120			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95			
Analysis Time			
11:58 PM			
Sample Point			
B-204			

v RESULTS v		DETECTION LEVEL
ALPHA TOTAL	in $\mu\text{Ci/g}$ 2.42E-01	
RELATIVE COUNTING ERROR	2.3%	6.74E-04 $\mu\text{Ci/g}$

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95

SAMPLE.WB1 Rev. 1.

508101ML

DATA
NOT USED
IN PACKAGE

1144

AT : LA-508-101 (D-2)

SOLIDS

	DUP	REPLICATE
Type	DETECTOR NUMBER	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	6966
3791	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.47
AT	SAMPLE SIZE in mL (SS)	1.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.2112
Matrix	EFFICIENCY FACTOR (EFF)	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	231.730
Batch Number		215.997
95004279	Blank Concentration in $\mu\text{Ci/g}$	2.24E-01
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.09E-01
0	Average Concentration in $\mu\text{Ci/g}$	2.1675E-01
Sample Prep		
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG	
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)	
S95T003120		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100	
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
SEH		
Chemist		
SLF		
Analyst		
EAL		
Date Complete		
11/28/95		
Analysis Date		
11/27/95		
Analysis Time		
11:58 PM		
Sample Point		
B-204		

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
PACKAGE

1145

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	41039	41754
3791	COUNT TIME in MINUTES (CT)	30	30
At or TB?	BACKGROUND in cpm (BKG)	0.47	0.47
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1444	2.1444
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004279	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.37E+00	1.39E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.4185E-01	
FUSION01			
Sample #			
S95T003120			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB27806	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$		
Prepared By	QC ACTUAL = SVal		
SEH	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L)))$		
Chemist	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/27/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	2.43E-02	
11:58 PM	AVG. PERCENT SPIKE RECOVERY =	54.4%	
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/30/95

SPIKE.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1146

LABCORE Data Entry Template for Worklist#

3754

Analyst: KK Instrument: AB00 13 Book # 150852

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: B-204 Determine sample size by Ludlum use .1 ml spike. rcj

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	4 SAMPLE	S95T003337	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	4 SAMPLE	S95T003337	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	5 DUP	S95T003337	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	5 DUP	S95T003337	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	6 SPK	S95T003337	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	7 SAMPLE	S95T003338	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	7 SAMPLE	S95T003338	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	8 DUP	S95T003338	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	8 DUP	S95T003338	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000161	B-204	9 SPK	S95T003338	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000161	B-204	10 SAMPLE	S95T003339	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000161	B-204	10 SAMPLE	S95T003339	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000161	B-204	11 DUP	S95T003339	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Data Entry Comments:

SPK recoveries are out of control limits

Batch will be rerun. *[Signature]* 11/30/95

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.

DATA
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LABCORE Data Entry Template for Worklist#

3754

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000161	B-204	11 DUP	S95T003339	0 F	@ALPHA01 ALPHA01E	SOLID	_____	_____	N/A	% Ct. Error
95000161	B-204	12 SPK	S95T003339	0 F	@ALPHA01 ALPHA01	SOLID	_____	_____	N/A	uCi/g

Final page for worklist #

3754

Nob King 11/24/95
Analyst Signature Date

Set Herpin 11/27/95
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.

**DATA
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IN PACKAGE**

LABCORE Completed Worklist Report for Worklist# 3754

Analyst: rwk

Instrument: AB13

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: B-204 Determine sample size by Ludlum use .1 ml spike. rcj

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	SOLID	1.28E-05	1.26E-5	98.440 % Recovery	
1 STD		0	QALPHA01 ALPHA01E	SOLID	1.00	4.36E+00	4.360 % Ct. Error	
2 BLNK-PREP		0	QALPHA01 ALPHA01	SOLID	1	<2.50E-4	uCi/g	
2 BLNK-PREP		0	QALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	QALPHA01 ALPHA01	SOLID	1.00E+00	5.67E-01	0.570 uCi/g	
4 SAMPLE	S95T003337	0 F	QALPHA01 ALPHA01	SOLID	N/A	1.17E-01	5.760e-004 uCi/g	
4 SAMPLE	S95T003337	0 F	QALPHA01 ALPHA01E	SOLID	N/A	3.06E+00	0.000 % Ct. Error	
5 DUP	S95T003337	0 F	QALPHA01 ALPHA01	SOLID	1.17E-1	9.60E-2	19.720 RPD	
5 DUP	S95T003337	0 F	QALPHA01 ALPHA01E	SOLID	1.00	3.41E+00	3.410 % Ct. Error	
6 SPK	S95T003337	0 F	QALPHA01 ALPHA01	SOLID	4.48E-02	1.96E-02	43.750 % Recovery	
7 SAMPLE	S95T003338	0 F	QALPHA01 ALPHA01	SOLID	N/A	1.23E-01	5.900e-004 uCi/g	
7 SAMPLE	S95T003338	0 F	QALPHA01 ALPHA01E	SOLID	N/A	3.00E+00	0.000 % Ct. Error	
8 DUP	S95T003338	0 F	QALPHA01 ALPHA01	SOLID	1.23E-1	9.53E-2	25.380 RPD	
8 DUP	S95T003338	0 F	QALPHA01 ALPHA01E	SOLID	1.00	3.40E+00	3.400 % Ct. Error	
9 SPK	S95T003338	0 F	QALPHA01 ALPHA01	SOLID	4.48E-02	2.49E-02	55.580 % Recovery	
10 SAMPLE	S95T003339	0 F	QALPHA01 ALPHA01	SOLID	N/A	9.57E-02	5.840e-004 uCi/g	
10 SAMPLE	S95T003339	0 F	QALPHA01 ALPHA01E	SOLID	N/A	3.68E+00	0.000 % Ct. Error	
11 DUP	S95T003339	0 F	QALPHA01 ALPHA01	SOLID	9.57E-2	1.18E-1	20.870 RPD	
11 DUP	S95T003339	0 F	QALPHA01 ALPHA01E	SOLID	1.00	3.05E+00	3.050 % Ct. Error	
12 SPK	S95T003339	0 F	QALPHA01 ALPHA01	SOLID	4.48E-02	1.03E-02	22.990 % Recovery	

Final page for worklist# 3754

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

11/30/95

DATA
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Units shown for QC (BLK/BKG) may not reflect the actual units.

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	13	13
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2120	2068
3754	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	70.167	68.433
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05	
95004209	Concentration in $\mu\text{Ci/L}$ =	1.28E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.24E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.2602E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.26E-05	
Analyst			DETECTION LEVEL
RWK			
Date Complete			1.26E-07 $\mu\text{Ci/mL}$
11/28/95	RELATIVE COUNTING ERROR	4.4%	
Analysis Date			
11/24/95			
Analysis Time			
05:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
STANDARD.WB1 Rev. 1.0 508101ML		

DATA
NOT USED
IN PACKAGE

1150

AT : LA-508-101 (D-2) SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	13	13
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	7	10
3754	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1876	2.1876
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs.(SAMPLE RATE) as APPROPRIATE	0.301	0.301
Batch Number			
95004209	Blank Concentration in $\mu\text{Ci/g}$	< 2.50E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 2.50E-04	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 2.5042E-04	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = (TC / CT) - BKG		
	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	< 2.50E-04	DETECTION LEVEL
RWK	LESS Than Value was Determined from Lc.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	5.76E-04 $\mu\text{Ci/g}$
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
05:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95

BLANK.WB1 Rev. 1.0

508701ML

DATA
NOT USED
IN PACKAGE

1151

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4135	4342
3754	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1876	2.1876
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	137.333	144.233
Batch Number			
95004209	Blank Concentration in $\mu\text{Ci/g}$	1.14E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.20E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.1703E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003337			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst	ALPHA TOTAL	1.17E-01	DETECTION LEVEL
RWK	in $\mu\text{Ci/g}$		
Date Complete			
11/28/95	RELATIVE COUNTING ERROR	3.1%	5.76E-04 $\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
05:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
PACKAGE

1152

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	13	13
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3343	3450
3754	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1352	2.1352
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	110.933	114.500
Batch Number			
95004209	Blank Concentration in $\mu\text{Ci/g}$	9.45E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	9.75E-02	
0	Average Concentration in $\mu\text{Ci/g}$	9.6000E-02	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003337			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	9.60E-02	DETECTION LEVEL
Analyst			
RWK			
Date Complete	RELATIVE COUNTING ERROR	3.4%	5.90E-04 $\mu\text{Ci/g}$
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
05:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1. 508101ML		

DATA
NOT USED
PACKAGE

1153

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	30588	42684
3754	COUNT TIME in MINUTES (CT)	30	30
AT or TR?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1876	2.1876
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004209	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2477	0.2477
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	8.47E-01	1.18E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.1703E-01	
FUSION01			
Sample #			
S95T003337	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WB27810	QC ACTUAL = SVal		
Prepared By	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))$		
SEH	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	1.96E-02	
05:00 PM	AVG. PERCENT SPIKE RECOVERY =	43.9%	
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/21/95

SPIKE.WB1 Rev. 1.0

508101ML

DATA
NOT USED
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1154

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4397	4320
3754	COUNT TIME in MINUTES (CT)	30	30
AT or TBT?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1376	2.1376
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	146.067	143.500
Batch Number			
95004209	Blank Concentration in $\mu\text{Ci/g}$	1.24E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.22E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.2317E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003338			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
05:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
IN PACKAGE

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	13	13
DUP	DISH SIZE (1 , 2 , or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3377	3447
3754	COUNT TIME in MINUTES (CT)	30	30
ALPHA 137	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1612	2.1612
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	112.067	114.400
Batch Number			
95004209	Blank Concentration in $\mu\text{Ci/g}$	9.43E-02	
Replic	Replicate Concentration in $\mu\text{Ci/g}$	9.63E-02	
0	Average Concentration in $\mu\text{Ci/g}$	9.5280E-02	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003338			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
05:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
IN PACKAGE

1156

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work Unit	TOTAL COUNTS (TC)	43985	46961
3754	COUNT TIME in MINUTES (CT)	30	30
At or B?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1376	2.1376
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004209	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2477	0.2477
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.25E+00	1.33E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.2317E-01	
FUSION01			
Sample #			
S95T003338			
Instrument Code			
WB27810			
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
05:00 PM			
Sample Point			
B-204			

$$R_s (\text{Sample Count Rate}) = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

QC ACTUAL	=	4.48E-02
QC FOUND	=	2.49E-02
AVG. PERCENT SPIKE RECOVERY	=	55.7%

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95

SPIKE.WB1 Rev. 1.0

508101ML

DATA
RECEIVED
PACKAGE

1157

WORKBOOK PAGE: SAM10

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	13	13
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2882	3968
3754	COUNT TIME in MINUTES (CT)	30	30
AT of TB?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.16	2.16
Matrix	EFFICIENCY FACTOR (EFF)	0.2477	0.2477
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	95.567	131.767
Batch Number			
95004209	Blank Concentration in $\mu\text{Ci/g}$	8.05E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.11E-01	
0	Average Concentration in $\mu\text{Ci/g}$	9.5697E-02	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003339			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27810	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
SEH			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
05:00 PM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	9.57E-02	DETECTION LEVEL
RELATIVE COUNTING ERROR		3.7%	5.84E-04 $\mu\text{Ci/g}$

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
PACKAGE

1158

WORKBOOK PAGE: DUP11

AT : LA-508-101 (D-2)

SOLIDS

	DUP	REPLICATE
DETECTOR NUMBER	13	13
DISH SIZE (1, 2, or 5) (MS)	2	2
GROSS COUNTS (GC)	4173	4271
COUNT TIME in MINUTES (CT)	30	30
BACKGROUND in cpm (BKG)	0.5	0.5
SAMPLE SIZE in mL (SS)	1.000	1.000
DILUTION FACTOR (DF)	1	1
DIGEST GRAMS of SOLIDS / L (Dg/L)	2.1576	2.1576
EFFICIENCY FACTOR (EFF)	0.2477	0.2477
Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	138.600	141.867
Blank Concentration in $\mu\text{Ci/g}$	1.17E-01	
Replicate Concentration in $\mu\text{Ci/g}$	1.20E-01	
Average Concentration in $\mu\text{Ci/g}$	1.1820E-01	
Rs (Sample Count Rate) = (TC / CT) - BKG		
ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
RESULTS		
ALPHA TOTAL in $\mu\text{Ci/g}$	1.18E-01	DETECTION LEVEL 5.84E-04 $\mu\text{Ci/g}$
RELATIVE COUNTING ERROR	3.1%	

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1. 508101ML		

DATA
NOT USED
IN PACKAGE

1159

WORKBOOK PAGE: SPIKE12

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	13	13
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	20721	20026
3754	COUNT TIME in MINUTES (CT)	30	30
Alpha/Beta	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.16	2.16
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Spk/Bk Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004209	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2477	0.2477
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	5.81E-01	5.62E-01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	9.5697E-02	
FUSION01			
Sample #			
S95T003339	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WB27810	QC ACTUAL = SVal		
Prepared By	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L)))$		
SEH	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	1.03E-02	
05:00 PM	AVG. PERCENT SPIKE RECOVERY =	23.0%	
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95

SPIKE.WB1 Rev. 1.0

50810TML

DATA
NOT USED
PACKAGE

1160

LABCORE Data Entry Template for Worklist#

3728

Analyst:

EAL

Instrument:

AB00 #16

Book #

EAL 150BS2

Method: LA-508-101 Rev/Mod

D-1 D-2 gms
12/4/95

112B43

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	4 SAMPLE	S95T003117	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	4 SAMPLE	S95T003117	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T003117	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	5 DUP	S95T003117	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T003117	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	7 SAMPLE	S95T003118	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	7 SAMPLE	S95T003118	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	8 DUP	S95T003118	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	8 DUP	S95T003118	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	9 SPK	S95T003118	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

DATA
NOT 3728
IN PACKAGE

EAL 11/24/95

C.J. Opium 11/28/95

Data Entry Comments:

SPK recoveries are out of control limits

samples will be rerun. EAL 11/29/95

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.

1161

LABCORE Data Entry Template for Worklist#

3728

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

DATA
NOT USED
IN PACKAGE

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.

1162

LABCORE Completed Worklist Report for Worklist# 3728

Analyst: eal

Instrument: AB00

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	SOLID	1.28E-05	1.17E-5	91.410 % Recovery	
1 STD		0	QALPHA01 ALPHA01E	SOLID	1.00	5.03E+00	5.030 % Ct. Error	
2 BLNK-PREP		0	QALPHA01 ALPHA01	SOLID	1	<4.03E-4	uCi/g	
2 BLNK-PREP		0	QALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	QALPHA01 ALPHA01	SOLID	1.00E+00	1.88E-01	0.190 uCi/g	
4 SAMPLE	S95T003117	0 F	QALPHA01 ALPHA01	SOLID	N/A	1.43E-01	9.010e-004 uCi/g	
4 SAMPLE	S95T003117	0 F	QALPHA01 ALPHA01E	SOLID	N/A	3.22E+00	0.000 % Ct. Error	
5 DUP	S95T003117	0 F	QALPHA01 ALPHA01	SOLID	1.43E-1	1.58E-1	9.970 RPD	
5 DUP	S95T003117	0 F	QALPHA01 ALPHA01E	SOLID	1.00	2.98E+00	2.980 % Ct. Error	
6 SPK	S95T003117	0 F	QALPHA01 ALPHA01	SOLID	4.48E-02	2.69E-02	60.040 % Recovery	
7 SAMPLE	S95T003118	0 F	QALPHA01 ALPHA01	SOLID	N/A	1.56E-01	9.220e-004 uCi/g	
7 SAMPLE	S95T003118	0 F	QALPHA01 ALPHA01E	SOLID	N/A	3.00E+00	0.000 % Ct. Error	
8 DUP	S95T003118	0 F	QALPHA01 ALPHA01	SOLID	1.56E-1	1.14E-1	31.110 RPD	
8 DUP	S95T003118	0 F	QALPHA01 ALPHA01E	SOLID	1.00	3.53E+00	3.530 % Ct. Error	
9 SPK	S95T003118	0 F	QALPHA01 ALPHA01	SOLID	4.48E-02	2.74E-02	61.160 % Recovery	

Final page for worklist# 3728

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	16	16
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1588	1738
3728	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	52.133	57.133
Batch Number	Standard Value in µCi/mL	1.28E-05	
95004187	Concentration in µCi/L =	1.12E-02	
Rerun	Replicate Concentration in µCi/L =	1.22E-02	
0	AVERAGE CONCENTRATION in µCi/L =	1.1697E-02	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL µCi/L = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/µCi)		
WORKLIST#3728-STD	ALPHA TOTAL µCi/mL = ALPHA TOTAL µCi/L / 1000mL/L		
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in µCi/mL	1.17E-05	DETECTION LEVEL
Analyst			
EAL			
Date Complete			
11/28/95	RELATIVE COUNTING ERROR =	5.0%	1.83E-07 µCi/mL
Analysis Date			
11/24/95			
Analysis Time			
10:05 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95

STANDARD.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1164

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	16	16
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1	8
3728	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0268	2.0268
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.381	0.381
Batch Number			
95004187	Blank Concentration in $\mu\text{Ci/g}$	< 4.03E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 4.03E-04	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 4.0251E-04	
Sample Prep			
N/A	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T3117-BLANK			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
10:05 PM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL

in $\mu\text{Ci/g}$

< 4.03E-04

DETECTION
LEVEL

LESS Than Value was Determined from Lc.

9.01E-04
 $\mu\text{Ci/g}$

RELATIVE COUNTING ERROR

500.0%

Analyst:

EAL

Date: 28-Nov-95

Signature of Chemist:

SLF

Date: 11/28/95

BLANK.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1165

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
TYPE	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4423	3766
3728	COUNT TIME in MINUTES (CT)	30	30
AT 011B7	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0268	2.0268
Method	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	146.633	124.733
Batch Number			
95004187	Blank Concentration in $\mu\text{Ci/g}$	1.55E-01	
Rept	Replicate Concentration in $\mu\text{Ci/g}$	1.32E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.4332E-01	
Sample / Rep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003117			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
10:05 PM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	1.43E-01	DETECTION LEVEL
RELATIVE COUNTING ERROR	3.2%		9.01E-04 $\mu\text{Ci/g}$

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
IN PACKAGE

1166

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4566	4402
3728	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0144	2.0144
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	151.400	145.933
Batch Number			
95004187	Blank Concentration in $\mu\text{Ci/g}$	1.61E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.55E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.5800E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003117			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	1.58E-01	
Analyst			
EAL			
Date Complete			
11/28/95	RELATIVE COUNTING ERROR	3.0%	
Analysis Date			
11/24/95			
Analysis Time			
10:05 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.0	508701ML	

DATA
USED
PACKAGE

1167

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	39479	44021
3728	COUNT TIME in MINUTES (CT)	30	30
Alpha B?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0268	2.0268
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004187	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
ReRun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.39E+00	1.55E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.4332E-01	
FUSION01			
Sample #			
S95T003117			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB27806	SAMPLE + SPIKE $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
Prepared By	QC ACTUAL = SVal		
CJO	QC FOUND = (((S+S $\mu\text{Ci/g}$ - SAMPLE $\mu\text{Ci/g}$) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))		
Chemist	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
SLF			
Analyst			
EAL			
Date complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	2.69E-02	
10:05 PM	AVG. PERCENT SPIKE RECOVERY =	60.0%	
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95

SPIKE.WB1 Rev. 1.0

608101ML

USED
PACKAGE

1168

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	16	16
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4358	4341
3728	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.9804	1.9804
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	144.467	143.900
Batch Number			
95004187	Blank Concentration in $\mu\text{Ci/g}$	1.56E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.56E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.5587E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003118			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL	1.56E-01	
Analyst			
EAL			
Date Complete			
11/28/95	RELATIVE COUNTING ERROR	3.0%	
Analysis Date			
11/24/95			
Analysis Time			
10:05 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1169

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	16	16
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3224	3151
3728	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.9812	1.9812
Matrix	EFFICIENCY FACTOR (EFF)	0.2104	0.2104
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	106.667	104.233
Batch Number			
95004187	Blank Concentration in $\mu\text{Ci/g}$	1.15E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.13E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.1395E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = $(\text{TC} / \text{CT}) - \text{BKG}$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $\text{Rs} * 1000\text{mL/L} * \text{DF} / (\text{EFF} * \text{SS} * \text{Dg/L} * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003118			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of TC} + \text{BKG} * \text{CT}) / (\text{TC} - \text{BKG} * \text{CT})] * 1.96 * 100$		
WB27806	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL	1.14E-01	
Analyst			
EAL			
Date Complete			
11/28/95	RELATIVE COUNTING ERROR	3.5%	
Analysis Date			
11/24/95			
Analysis Time			
10:05 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.0 508101/ML		

NOT USED
IN PACKAGE

1170

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	16	16
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	43569	42031
3728	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.8	0.8
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.9804	1.9804
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004187	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2104	0.2104
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.57E+00	1.51E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.5587E-01	
FUSION01			
Sample #			
S95T003118			
Instrument Code			
WB27806			
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL	=	4.48E-02
Analysis Time	QC FOUND	=	2.74E-02
10:05 PM	AVG. PERCENT SPIKE RECOVERY	=	61.3%
Sample Point			
B-204			

Rs (Sample Count Rate) = (TC / CT) - BKG
SAMPLE + SPIKE $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)
QC ACTUAL = SVal
QC FOUND = (((S+S $\mu\text{Ci/g}$ - SAMPLE $\mu\text{Ci/g}$) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L)))
PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) *100

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95

SPIKE WB1 Rev. 1.0 508101ML

NOT USED
IN PACKAGE

11/21

LABCORE Data Entry Template for Worklist#

3727

Analyst: SAH

Instrument: AB00 #18

Book # 150 852 SLF 11/24/95
112B43-Aspiks

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000158	B-204	4 SAMPLE	S95T003112	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uci/g
95000158	B-204	4 SAMPLE	S95T003112	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T003112	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000158	B-204	5 DUP	S95T003112	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T003112	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000158	B-204	7 SAMPLE	S95T003113	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uci/g
95000158	B-204	7 SAMPLE	S95T003113	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	8 DUP	S95T003113	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g
95000158	B-204	8 DUP	S95T003113	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	9 SPK	S95T003113	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uci/g

Final page for worklist #

3727

DATA
NOT USED
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Data Entry Comments:

SPK recoveries are out of control limits

Batch will be rerun 11/28/95

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.

1172

LABCORE Data Entry Template for Worklist#

3727

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

DATA
NOT USED
IN PACKAGE

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.

1173

LABCORE Completed Worklist Report for Worklist# 3727

Analyst: eal

Instrument: AB00

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	QALPHA01 ALPHA01	SOLID	1.28E-05	1.37E-5	107.030 % Recovery	
1 STD		0	QALPHA01 ALPHA01E	SOLID	1.00	4.64E+00	4.640 % Ct. Error	
2 BLNK-PREP		0	QALPHA01 ALPHA01	SOLID	1	<7.50E-4	uCi/g	
2 BLNK-PREP		0	QALPHA01 ALPHA01E	SOLID	1.00	1.96E+02	196.000 % Ct. Error	
3 BLNK/BKG		0	QALPHA01 ALPHA01	SOLID	1.00E+00	3.08E+00	3.080 uCi/g	
4 SAMPLE	S95T003112	0 F	QALPHA01 ALPHA01	SOLID	N/A	5.87E-02	5.050e-004 uCi/g	
4 SAMPLE	S95T003112	0 F	QALPHA01 ALPHA01E	SOLID	N/A	4.93E+00	0.000 % Ct. Error	
5 DUP	S95T003112	0 F	QALPHA01 ALPHA01	SOLID	5.87E-2	8.84E-2	40.380 RPD	
5 DUP	S95T003112	0 F	QALPHA01 ALPHA01E	SOLID	1.00	3.95E+00	3.950 % Ct. Error	
6 SPK	S95T003112	0 F	QALPHA01 ALPHA01	SOLID	4.48E-02	1.67E-02	37.280 % Recovery	
7 SAMPLE	S95T003113	0 F	QALPHA01 ALPHA01	SOLID	N/A	2.09E-01	5.410e-004 uCi/g	
7 SAMPLE	S95T003113	0 F	QALPHA01 ALPHA01E	SOLID	N/A	2.69E+00	0.000 % Ct. Error	
8 DUP	S95T003113	0 F	QALPHA01 ALPHA01	SOLID	2.09E-1	1.78E-1	16.020 RPD	
8 DUP	S95T003113	0 F	QALPHA01 ALPHA01E	SOLID	1.00	2.92E+00	2.920 % Ct. Error	
9 SPK	S95T003113	0 F	QALPHA01 ALPHA01	SOLID	4.48E-02	3.10E-02	69.200 % Recovery	

Final page for worklist# 3727

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

Date

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

11/4

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	18
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	2019
3727	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.2
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2095
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	67.100
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05
95004186	Concentration in $\mu\text{Ci/L}$ =	1.44E-02
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.29E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.3657E-02

Sample Prep

N/A

Rs (Sample Count Rate) = (TC / CT) - BKG

Sample

ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF / (EFF * SS * 2220000dpm/ μCi)

WORKLIST#3727-STD

ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L

Instrument Code

WB27809

Relative Counting Error = [|(The Square Root of TC + BKG * CT) / (TC - BKG * CT)|] * 1.96 * 100

Detection Levels and Less Than Values are determined from Procedure LA-508-002.

Prepared By

CJO

Chemist

SLF

ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$

1.37E-05

DETECTION
LEVEL

Analyst

EAL

1.01E-07
 $\mu\text{Ci/mL}$

Date Complete

11/28/95

RELATIVE COUNTING ERROR

=

4.6%

Analysis Date

11/24/95

Analysis Time

09:50 PM

Sample Point

B-204

Analyst:

EAL

Date: 28-Nov-95

Signature of Chemist:

SLF

Date: 11/28/95

STANDARD.WB1 Rev. 1.0

508101 ML

DATA
NOT USED
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WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	18	18
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	10	27
3727	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.2	0.2
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.008	2.008
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.353	0.700
Batch Number			
95004186	Blank Concentration in $\mu\text{Ci/g}$	< 3.78E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	7.50E-04	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 7.4954E-04	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T3112-BLANK			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	< 7.50E-04	DETECTION LEVEL
Analyst	LESS THAN Value was Determined from Rmax.		
EAL			
Date Complete	RELATIVE COUNTING ERROR	196.0%	5.05E-04 $\mu\text{Ci/g}$
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
09:50 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
BLANK.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

11/0

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	18	18
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1599	1704
3727	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.2	0.2
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.008	2.008
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	53.100	56.600
Batch Number			
95004186	Blank Concentration in $\mu\text{Ci/g}$	5.69E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	6.06E-02	
0	Average Concentration in $\mu\text{Ci/g}$	5.8732E-02	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003112			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL	5.87E-02	DETECTION LEVEL
Analyst			
EAL			
Date Complete			5.05E-04
11/28/95	RELATIVE COUNTING ERROR	4.9%	$\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
09:50 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

11/77

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	18	18
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	2475	2491
3727	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.2	0.2
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.0072	2.0072
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	82.300	82.833
Batch Number			
95004186	Blank Concentration in $\mu\text{Ci/g}$	8.82E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	8.87E-02	
0	Average Concentration in $\mu\text{Ci/g}$	8.8446E-02	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003112			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL	8.84E-02	DETECTION LEVEL
Analyst			
EAL			
Date Complete			5.05E-04
11/28/95	RELATIVE COUNTING ERROR	4.0%	$\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
09:50 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

11/8

WORKBOOK PAGE: SPIKE6

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	18	18
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	32845	16989
3727	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.2	0.2
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	2.008	2.008
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004186	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2095	0.2095
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.17E+00	6.06E-01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	5.8732E-02	
FUSION01			
Sample #			
S95T003112			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB27809	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
Prepared By	QC ACTUAL = SVal		
CJO	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$		
Chemist	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	1.67E-02	
09:50 PM	AVG. PERCENT SPIKE RECOVERY =	37.3%	
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95

SPIKE.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

11/29

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	18	18
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	5653	5315
3727	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.2	0.2
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8748	1.8748
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	188.233	176.967
Batch Number			
95004186	Blank Concentration in $\mu\text{Ci/g}$	2.16E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	2.03E-01	
0	Average Concentration in $\mu\text{Ci/g}$	2.0942E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003113			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	2.09E-01	DETECTION LEVEL
EAL			
Date Complete			5.41E-04 $\mu\text{Ci/g}$
11/28/95	RELATIVE COUNTING ERROR	2.7%	
Analysis Date			
11/24/95			
Analysis Time			
09:50 PM			
Sample Point			
B-204			

Analyst:

EAL

Date: 28-Nov-95

Signature of Chemist:

SLF

Date: 11/28/95

SAMPLE.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1180

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	18	18
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4778	4534
3727	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.2	0.2
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8708	1.8708
Matrix	EFFICIENCY FACTOR (EFF)	0.2095	0.2095
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	159.067	150.933
Batch Number			
95004186	Blank Concentration in $\mu\text{Ci/g}$	1.83E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.73E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.7814E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003113			
Instrument Code	Relative Counting Error = $[(The \text{ Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27809	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	1.78E-01	DETECTION LEVEL
EAL			
Date Complete			5.42E-04 $\mu\text{Ci/g}$
11/28/95	RELATIVE COUNTING ERROR	2.9%	
Analysis Date			
11/24/95			
Analysis Time			
09:50 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1181

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	18	18
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	50257	47091
3727	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.2	0.2
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8748	1.8748
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004186	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2095	0.2095
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.92E+00	1.80E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	2.0942E-01	
FUSION01			
Sample #			
S95T003113	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WB27809	QC ACTUAL = SVal		
Prepared By	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$		
CJO	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	3.10E-02	
09:50 PM	AVG. PERCENT SPIKE RECOVERY =	69.2%	
Sample Point			
B-204			

Analyst:	EAL	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SPIKE.WB1 Rev. 1.0	508101 ML	

DATA
NOT USED
IN PACKAGE

1182

LABCORE Data Entry Template for Worklist#

3726

Analyst:

RK

Instrument:

AB00 #15

Book #

150352

Method: LA-508-101 Rev/Mod

D-2

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	4 SAMPLE	S95T003114	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	4 SAMPLE	S95T003114	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T003114	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	5 DUP	S95T003114	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T003114	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	7 SAMPLE	S95T003115	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	7 SAMPLE	S95T003115	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	8 DUP	S95T003115	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	8 DUP	S95T003115	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	9 SPK	S95T003115	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

3726

DATA
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Data Entry Comments:

SPK recoveries are out of control limits

Batch will be rerun 11/28/95

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#

3726

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date		Analyst Signature		Date		
Rob King		11/24/95		M. Chilton		11/28/95		

DATA
NOT USED
IN PACKAGE

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 Completed Worklist Report for Worklist# 3726

Analyst: rwk

Instrument: AB00

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	ALPHA01 ALPHA01	SOLID	1.28E-05	1.11E-5	86.720 % Recovery	
1 STD		0	ALPHA01 ALPHA01E	SOLID	1.00	4.73E+00	4.730 % Ct. Error	
2 BLNK-PREP		0	ALPHA01 ALPHA01	SOLID	1	<3.04E-4	uCi/g	
2 BLNK-PREP		0	ALPHA01 ALPHA01E	SOLID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	ALPHA01 ALPHA01	SOLID	1.00E+00	9.00E-01	0.900 uCi/g	
4 SAMPLE	S95T003114	0 F	ALPHA01 ALPHA01	SOLID	N/A	1.18E-01	7.000e-004 uCi/g	
4 SAMPLE	S95T003114	0 F	ALPHA01 ALPHA01E	SOLID	N/A	3.36E+00	0.000 % Ct. Error	
5 DUP	S95T003114	0 F	ALPHA01 ALPHA01	SOLID	1.18E-1	1.93E-1	48.230 RPD	
5 DUP	S95T003114	0 F	ALPHA01 ALPHA01E	SOLID	1.00	2.63E+00	2.630 % Ct. Error	
6 SPK	S95T003114	0 F	ALPHA01 ALPHA01	SOLID	4.48E-02	2.13E-02	47.540 % Recovery	
7 SAMPLE	S95T003115	0 F	ALPHA01 ALPHA01	SOLID	N/A	1.04E-01	7.030e-004 uCi/g	
7 SAMPLE	S95T003115	0 F	ALPHA01 ALPHA01E	SOLID	N/A	3.56E+00	0.000 % Ct. Error	
8 DUP	S95T003115	0 F	ALPHA01 ALPHA01	SOLID	1.04E-1	1.76E-1	51.430 RPD	
8 DUP	S95T003115	0 F	ALPHA01 ALPHA01E	SOLID	1.00	2.72E+00	2.720 % Ct. Error	
9 SPK	S95T003115	0 F	ALPHA01 ALPHA01	SOLID	4.48E-02	1.59E-02	35.490 % Recovery	

Final page for worklist# 3726

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date 11/29/95

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

AT : LA-508-101 (D-2)

STANDARD

		STANDARD	REPLICATE
Type	DETECTOR NUMBER	15	15
STD	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	1782	1761
3726	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	10.000	10.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	58.900	58.200
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05	
95004185	Concentration in $\mu\text{Ci/L}$ =	1.11E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.10E-02	
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.1081E-02	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
WRKLST3726	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.11E-05	DETECTION LEVEL
Analyst			
RWK			
Date Complete	RELATIVE COUNTING ERROR	4.7%	1.31E-07 $\mu\text{Ci/mL}$
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
STANDARD.WB1 Rev. 1.0 508101ML		

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AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	15	15
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	12	15
3726	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.874	1.874
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.301	0.301
Batch Number			
95004185	Blank Concentration in $\mu\text{Ci/g}$	< 3.04E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	< 3.04E-04	
0	Maximum Concentration in $\mu\text{Ci/g}$	< 3.0425E-04	
Sample Prep			
N/A	R_s (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T3114			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	< 3.04E-04	DETECTION LEVEL
Analyst			
RWK	LESS Than Value was Determined from Lc.		
Date Complete	RELATIVE COUNTING ERROR	500.0%	7.00E-04 $\mu\text{Ci/g}$
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
BLANK.WB1 Rev. 1.0	508101ML	

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1107

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Accession #: D196043896

Document #: SD-WM-DP-160

Title/Desc:

FINAL REPORT FOR TANK 241B204 PUSH MODE CORES 112
& 114 [SEC 3 OF 3 PAGE 1188 THRU THE END]

Pages: 488

This document was too large to scan as a whole document,
therefore it required breaking into smaller sections.

Document number: SD-WM-DP-1160

Section 3 of 3

Title: Final Report for Jank, 241BA04 Push mode Core
112 & 114

Project: Hume

Date: 03/01/96 Revision: R001

Originator: Asahi LM

Co: WAC

Recipient: _____

Co: _____

References: ECN-625385

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3446	3572
3726	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.874	1.874
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	114.367	118.567
Batch Number			
95004185	Blank Concentration in $\mu\text{Ci/g}$	1.16E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.20E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.1763E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003114			
Instrument Code	Relative Counting Error = $[(\text{The Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL	in $\mu\text{Ci/g}$	1.18E-01	DETECTION LEVEL
RELATIVE COUNTING ERROR		3.4%	7.00E-04 $\mu\text{Ci/g}$

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.	508101ML	

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1100

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	5804	5617
3726	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.862	1.862
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	192.967	186.733
Batch Number			
95004185	Blank Concentration in $\mu\text{Ci/g}$	1.96E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.90E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.9297E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003114			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	1.93E-01	DETECTION LEVEL
RWK			
Date Complete			7.05E-04 $\mu\text{Ci/g}$
11/28/95	RELATIVE COUNTING ERROR	2.6%	
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
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1189

AT : LA-508-101 (D-2)

SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	37554	36905
3726	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.874	1.874
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004185	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.26E+00	1.24E+00
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.1763E-01	
FUSION01			
Sample #			
S95T003114			
Instrument Code			
WB26872			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	2.13E-02	
03:00 PM	AVG. PERCENT SPIKE RECOVERY =	47.5%	
Sample Point			
B-204			

$$Rs \text{ (Sample Count Rate)} = (TC / CT) - BKG$$

$$\text{SAMPLE} + \text{SPIKE } \mu\text{Ci/g} = Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$$

$$QC \text{ ACTUAL} = SVal$$

$$QC \text{ FOUND} = (((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000)))/(DF/SS/Dg/L))))$$

$$\text{PERCENT SPIKE RECOVERY} = (QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$$

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95

SPIKE.WB1 Rev. 1.0 508101ML

DATA
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1150

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	3075	3123
3726	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8664	1.8664
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	102.000	103.600
Batch Number			
95004185	Blank Concentration in $\mu\text{Ci/g}$	1.03E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.05E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.0425E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003115			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	1.04E-01	DETECTION LEVEL
RWK			
Date Complete			
11/28/95	RELATIVE COUNTING ERROR	3.6%	7.03E-04 $\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
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1191

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: DUP8

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	5368	5243
3726	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8948	1.8948
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	178.433	174.267
Batch Number			
95004185	Blank Concentration in $\mu\text{Ci/g}$	1.78E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.74E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.7615E-01	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = Rs * 1000mL/L * DF / (EFF * SS * Dg/L * 2220000dpm/ μCi)		
S95T003115			
Instrument Code	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/g}$	1.76E-01	DETECTION LEVEL
Analyst			
RWK			
Date Complete			6.92E-04 $\mu\text{Ci/g}$
11/28/95	RELATIVE COUNTING ERROR	2.7%	
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1. 508101ML		

DATA
NOT USED
IN PACKAGE

1192

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	32300	24239
3726	COUNT TIME in MINUTES (CT)	30	30
AT or TB?	BACKGROUND in cpm (BKG)	0.5	0.5
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	1.8664	1.8664
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004185	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	1.09E+00	8.19E-01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.0425E-01	
FUSION01			
Sample #			
S95T003115			
Instrument Code			
WB26872			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL	=	4.48E-02
Analysis Time	QC FOUND	=	1.59E-02
03:00 PM	AVG. PERCENT SPIKE RECOVERY	=	35.5%
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$
QC ACTUAL = SVal
QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$
PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95

SPIKE.WB1 Rev. 1.0

508101ML

**DATA
NOT USED
IN PACKAGE**

1193

WHC-SD-WM-DP-160, REV. 1
LABCORE Data Entry Template for Worklist#

3725

Analyst: RK Instrument: AB00 14 Book # 150852

Method: LA-508-101 Rev/Mod DT D-2 ^{1/18}_{12/4/95}

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		1 STD			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		2 BLNK-PREP			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
		2 BLNK-PREP			@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	4 SAMPLE	S95T003110	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	4 SAMPLE	S95T003110	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T003110	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	5 DUP	S95T003110	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T003110	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	7 SAMPLE	S95T003111	0 F	@ALPHA01 ALPHA01	SOLID	N/A			uCi/g
95000158	B-204	7 SAMPLE	S95T003111	0 F	@ALPHA01 ALPHA01E	SOLID	N/A			% Ct. Error
95000158	B-204	8 DUP	S95T003111	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g
95000158	B-204	8 DUP	S95T003111	0 F	@ALPHA01 ALPHA01E	SOLID			N/A	% Ct. Error
95000158	B-204	9 SPK	S95T003111	0 F	@ALPHA01 ALPHA01	SOLID			N/A	uCi/g

Final page for worklist #

3725

**DATA
NOT USED
IN PACKAGE**

Data Entry Comments:

SPK recoveries are out of control limits, Batch will
be rean. 11/28/95

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#

3725

GROUP	PROJECT	S TYPE	SAMPLE#	R A -----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date		Analyst Signature		Date			
Not King		11/24/95		Cf Opium		11/20/95			

DATA
NOT USED
IN PACKAGE

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 Completed Worklist Report for Worklist# 3725

Analyst: rwk

Instrument: AB00 14

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: AT/ Determine sample size by ludlam. Use 0.1ml spike. gjh

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	0ALPHA01 ALPHA01	SOLID	1.28E-05	1.27E-5	99.220 % Recovery	
1 STD		0	0ALPHA01 ALPHA01E	SOLID	1.00	4.61E+00	4.610 % Ct. Error	
2 BLNK-PREP		0	0ALPHA01 ALPHA01	SOLID	1	1.89E-4	0.000 uCi/g	
2 BLNK-PREP		0	0ALPHA01 ALPHA01E	SOLID	1.00	1.22E+02	122.000 % Ct. Error	
3 BLNK/BKG		0	0ALPHA01 ALPHA01	SOLID	1.00E+00	1.64E+00	1.640 uCi/g	
4 SAMPLE	S95T003110	0 F	0ALPHA01 ALPHA01	SOLID	N/A	1.09E-01	3.700e-004 uCi/g	
4 SAMPLE	S95T003110	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	2.44E+00	0.000 % Ct. Error	
5 DUP	S95T003110	0 F	0ALPHA01 ALPHA01	SOLID	1.09E-1	8.04E-2	30.200 RPD	
5 DUP	S95T003110	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	2.82E+00	2.820 % Ct. Error	
6 SPK	S95T003110	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	9.83E-03	21.940 % Recovery	
7 SAMPLE	S95T003111	0 F	0ALPHA01 ALPHA01	SOLID	N/A	1.04E-01	3.630e-004 uCi/g	
7 SAMPLE	S95T003111	0 F	0ALPHA01 ALPHA01E	SOLID	N/A	2.46E+00	0.000 % Ct. Error	
8 DUP	S95T003111	0 F	0ALPHA01 ALPHA01	SOLID	1.04E-1	1.12E-1	7.410 RPD	
8 DUP	S95T003111	0 F	0ALPHA01 ALPHA01E	SOLID	1.00	2.38E+00	2.380 % Ct. Error	
9 SPK	S95T003111	0 F	0ALPHA01 ALPHA01	SOLID	4.48E-02	1.29E-02	28.790 % Recovery	

Final page for worklist# 3725

Analyst Signature

Date

Analyst Signature

Date

Reviewer Signature

11/29/95
Date

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

1136

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	14
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	2013
3725	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2274
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	66.500
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05
95004184	Concentration in $\mu\text{Ci/L}$ =	1.32E-02
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.22E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.2664E-02
Sample Prep		
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$	
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$	
WORKLIST#3725-STD	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$	
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
CJO		
Chemist		
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.27E-05
Analyst		
RWK		
Date Complete		
11/28/95	RELATIVE COUNTING ERROR =	4.6%
Analysis Date		
11/24/95		
Analysis Time		
03:00 PM		
Sample Point		
B-204		

DETECTION
LEVEL1.49E-07
 $\mu\text{Ci/mL}$

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95

STANDARD.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1197

WORKBOOK PAGE: BLANK2

AT : LA-508-101 (D-2)

SOLIDS

		BLNK-PREP	REPLICATE
Type	DETECTOR NUMBER	14	14
BLNK-PREP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	29	30
3725	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.024	4.024
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.367	0.400
Batch Number			
95004184	Blank Concentration in $\mu\text{Ci/g}$	1.80E-04	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.97E-04	
0	Average Concentration in $\mu\text{Ci/g}$	1.8870E-04	
Sample Prep			
N/A	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T3110-BLANK			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL	in $\mu\text{Ci/g}$	1.89E-04
Analyst			DETECTION LEVEL
RWK			
Date Complete			3.70E-04
11/28/95	RELATIVE COUNTING ERROR	122.2%	$\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
BLANK WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1195

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2)

SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	6522	6817
3725	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.024	4.024
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	216.800	226.633
Batch Number			
95004184	Blank Concentration in $\mu\text{Ci/g}$	1.07E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.12E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.0914E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	$\text{ALPHA TOTAL } \mu\text{Ci/g} = R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003110			
Instrument Code	Relative Counting Error = $[(The \text{ Square Root of } TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/g}$	1.09E-01	DETECTION LEVEL
RWK			
Date Complete			3.70E-04
11/28/95	RELATIVE COUNTING ERROR	2.4%	$\mu\text{Ci/g}$
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
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1195

WHC-SD-WM-DP-160, REV. I

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	4890	4938
3725	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.02	4.02
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	162.400	164.000
Batch Number			
95004184	Blank Concentration in $\mu\text{Ci/g}$	8.00E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	8.08E-02	
0	Average Concentration in $\mu\text{Ci/g}$	8.0418E-02	
Sample Prep			
FUSION01	Rs (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003110			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1200

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	21681	21423
3725	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.024	4.024
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004184	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	3.55E-01	3.51E-01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.0914E-01	
FUSION01			
Sample #			
S95T003110			
Instrument Code	Rs (Sample Count Rate) = (TC / CT) - BKG		
WB27807	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $Rs * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
Prepared By	QC ACTUAL = SVal		
CJO	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$		
Chemist	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	9.83E-03	
03:00 PM	AVG. PERCENT SPIKE RECOVERY =	22.0%	
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SPIKE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1201

WORKBOOK PAGE: SAM7

AT : LA-508-101 (D-2) SOLIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	14	14
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	6382	6546
3725	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.096	4.096
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	212.133	217.600
Batch Number			
95004184	Blank Concentration in $\mu\text{Ci/g}$	1.03E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.05E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.0391E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003111			
Instrument Code	Relative Counting Error = $[(The\ Square\ Root\ of\ TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF	ALPHA TOTAL	1.04E-01	
Analyst			
RWK			
Date Complete			
11/28/95	RELATIVE COUNTING ERROR	2.5%	
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95
SAMPLE.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1202

AT : LA-508-101 (D-2)

SOLIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	14	14
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	6826	7062
3725	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE SIZE in mL (SS)	1.000	1.000
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.076	4.076
Matrix	EFFICIENCY FACTOR (EFF)	0.2274	0.2274
SOLID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	226.933	234.800
Batch Number			
95004184	Blank Concentration in $\mu\text{Ci/g}$	1.10E-01	
Rerun	Replicate Concentration in $\mu\text{Ci/g}$	1.14E-01	
0	Average Concentration in $\mu\text{Ci/g}$	1.1220E-01	
Sample Prep			
FUSION01	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
S95T003111			
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB27807	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
CJO			
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95			
Analysis Time			
03:00 PM			
Sample Point			
B-204			

v RESULTS v

ALPHA TOTAL

in $\mu\text{Ci/g}$

1.12E-01

DETECTION
LEVEL3.65E-04
 $\mu\text{Ci/g}$

RELATIVE COUNTING ERROR

2.4%

Analyst:

RWK

Date: 28-Nov-95

Signature of Chemist:

SLF

Date: 11/28/95

SAMPLE.WB1 Rev. 1.0

508101ML

DATA
NOT USED
IN PACKAGE

1203

WORKBOOK PAGE: SPIKE9

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	14	14
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	25287	26717
3725	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.6	0.6
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	1.000	1.000
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST GRAMS of SOLIDS / L (Dg/L)	4.096	4.096
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
SOLID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95004184	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4761E-02	4.4761E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.2274	0.2274
0	SAMPLE + SPIKE $\mu\text{Ci/g}$ (S+S)	4.07E-01	4.30E-01
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/g}$ in SAMPLE	1.0391E-01	
FUSION01			
Sample #			
S95T003111	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/g}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * Dg/L * 2220000\text{dpm}/\mu\text{Ci})$		
WB27807	QC ACTUAL = SVal		
Prepared By	QC FOUND = $((S+S \mu\text{Ci/g} - \text{SAMPLE } \mu\text{Ci/g}) * ((SDF/(SVol*1000))/(DF/SS/Dg/L))))$		
CJO	PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$		
Chemist			
SLF			
Analyst			
RWK			
Date Complete			
11/28/95			
Analysis Date			
11/24/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	1.29E-02	
03:00 PM	AVG. PERCENT SPIKE RECOVERY =	28.8%	
Sample Point			
B-204			

Analyst:	RWK	Date: 28-Nov-95
Signature of Chemist:	SLF	Date: 11/28/95

SPIKE.WB1 Rev. 1.0 508101ML

DATA
NOT USED
IN PACKAGE

1204

LABCORE Data Entry Template for Worklist#

3475

Analyst: GA Instrument: AB00 15 Book # 150/BS2
112B43 SPK

Method: LA-508-101 Rev/Mod D-2

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
		1 STD			@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
		2 BLNK			@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
		2 BLNK			@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
		3 BLNK/BKG			@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	4 SAMPLE	S95T002976	0	@ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000158	B-204	4 SAMPLE	S95T002976	0	@ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000158	B-204	5 DUP	S95T002976	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	5 DUP	S95T002976	0	@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000158	B-204	6 SPK	S95T002976	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	7 SAMPLE	S95T002984	0	@ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000158	B-204	7 SAMPLE	S95T002984	0	@ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000158	B-204	8 DUP	S95T002984	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	8 DUP	S95T002984	0	@ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000158	B-204	9 SPK	S95T002984	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL
95000158	B-204	10 SAMPLE	S95T002986	0	@ALPHA01 ALPHA01	LIQUID	N/A			uCi/mL
95000158	B-204	10 SAMPLE	S95T002986	0	@ALPHA01 ALPHA01E	LIQUID	N/A			% Ct. Error
95000158	B-204	11 DUP	S95T002986	0	@ALPHA01 ALPHA01	LIQUID			N/A	uCi/mL

Data Entry Comments:

SPK recoveries are out of control limits,
batch will be rerun. GA still 11/28/95

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#

3475

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
95000158	B-204	11 DUP	S95T002986	0	2ALPHA01 ALPHA01E	LIQUID			N/A	% Ct. Error
95000158	B-204	12 SPK	S95T002986	0	2ALPHA01 ALPHA01	LIQUID			N/A	uci/mL

Final page for worklist #

3475

LA Lambel
Analyst Signature

11-19-95
Date

M. G. Brown
Analyst Signature

11/21/95
Date

DATA
NOT USED
IN PACKAGE

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 Completed Worklist Report for Worklist# 3475

Analyst: eal

Instrument: AB00

Book# _____

Method: _____ Rev/Mod _____

Worklist Comment: Determine sample size using Ludlum. Use .100 mL A-SPK. SLF

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0	ALPHA01 ALPHA01	LIQUID	1.28E-05	1.21E-5	94.530 % Recovery	
1 STD		0	ALPHA01 ALPHA01E	LIQUID	1.00	4.59E+00	4.590 % Ct. Error	
2 BLNK		0	ALPHA01 ALPHA01	LIQUID	1	<1.02E-6	uCi/mL	
2 BLNK		0	ALPHA01 ALPHA01E	LIQUID	1.00	5.00E+02	500.000 % Ct. Error	
3 BLNK/BKG		0	ALPHA01 ALPHA01	LIQUID	1.00E+00	4.58E-01	0.460 uCi/mL	
4 SAMPLE	S95T002976	0	ALPHA01 ALPHA01	LIQUID	N/A	6.42E-05	2.380e-006 uCi/mL	
4 SAMPLE	S95T002976	0	ALPHA01 ALPHA01E	LIQUID	N/A	8.98E+00	0.000 % Ct. Error	
5 DUP	S95T002976	0	ALPHA01 ALPHA01	LIQUID	6.42E-5	6.88E-5	6.920 RPD	
5 DUP	S95T002976	0	ALPHA01 ALPHA01E	LIQUID	1.00	8.79E+00	8.790 % Ct. Error	
6 SPK	S95T002976	0	ALPHA01 ALPHA01	LIQUID	4.48E-02	2.65E-02	59.150 % Recovery	
7 SAMPLE	S95T002984	0	ALPHA01 ALPHA01	LIQUID	N/A	8.14E-05	1.190e-005 uCi/mL	
7 SAMPLE	S95T002984	0	ALPHA01 ALPHA01E	LIQUID	N/A	1.97E+01	0.000 % Ct. Error	
8 DUP	S95T002984	0	ALPHA01 ALPHA01	LIQUID	8.14E-5	1.89E-4	79.590 RPD	
8 DUP	S95T002984	0	ALPHA01 ALPHA01E	LIQUID	1.00	1.30E+01	13.000 % Ct. Error	
9 SPK	S95T002984	0	ALPHA01 ALPHA01	LIQUID	4.48E-02	2.15E-02	47.990 % Recovery	
10 SAMPLE	S95T002986	0	ALPHA01 ALPHA01	LIQUID	N/A	5.10E-06	1.190e-005 uCi/mL	
10 SAMPLE	S95T002986	0	ALPHA01 ALPHA01E	LIQUID	N/A	5.00E+02	0.000 % Ct. Error	
11 DUP	S95T002986	0	ALPHA01 ALPHA01	LIQUID	<5.10E-6	<5.10E-6	RPD	
11 DUP	S95T002986	0	ALPHA01 ALPHA01E	LIQUID	1.00	5.00E+02	500.000 % Ct. Error	
12 SPK	S95T002986	0	ALPHA01 ALPHA01	LIQUID	4.48E-02	2.21E-02	49.330 % Recovery	

Final page for worklist# 3475

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

Reviewer Signature _____ Date 11/29/95

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

1207

WORKBOOK PAGE: STD1

AT : LA-508-101 (D-2)

STANDARD

	STANDARD	REPLICATE
Type	DETECTOR NUMBER	15
STD	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	1993
3475	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4
AT	SAMPLE SIZE in mL (SS)	10.000
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	STANDARD BOOK NUMBER (Std BN)	150B52
Matrix	EFFICIENCY FACTOR (EFF)	0.2380
LIQUID	Lc, Rmax, or Rs,(SAMPLE RATE) as APPROPRIATE	66.033
Batch Number	Standard Value in $\mu\text{Ci/mL}$	1.28E-05
95003897	Concentration in $\mu\text{Ci/L}$ =	1.25E-02
Rerun	Replicate Concentration in $\mu\text{Ci/L}$ =	1.16E-02
0	AVERAGE CONCENTRATION in $\mu\text{Ci/L}$ =	1.2069E-02
Sample Prep		
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$	
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$	
WRKLST#3475	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$	
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
Prepared By		
MCB		
Chemist		
SLF	ALPHA TOTAL CONCENTRATION in $\mu\text{Ci/mL}$	1.21E-05
Analyst		
EAL		
Date Complete		
11/21/95	RELATIVE COUNTING ERROR	4.6%
Analysis Date		
11/19/95		
Analysis Time		
01:04 PM		
Sample Point		
B-204		

DETECTION
LEVEL1.19E-07
 $\mu\text{Ci/mL}$

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
STANDARD.WB1 Rev. 1.0	508101ML	

DATA
NOT USED
IN PACKAGE

1208

AT : LA-508-101 (D-2) LIQUIDS

	BLNK	REPLICATE
Type	DETECTOR NUMBER	15
BLNK	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	8
3475	COUNT TIME in MINUTES (CT)	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4
AT	SAMPLE SIZE in mL (SS)	0.500
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.269
Batch Number		
95003897	Blank Concentration in $\mu\text{Ci/L}$	< 1.02E-03
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	< 1.02E-03
0	Maximum Concentration in $\mu\text{Ci/L}$	< 1.0199E-03
Sample Prep		
N/A		
Sample #	Rs (Sample Count Rate) = $(TC / CT) - BKG$	
WRKLST#3475	ALPHA TOTAL $\mu\text{Ci/L}$ = $Rs * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$	
Instrument Code	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$	
WB26872	Relative Counting Error = $\{ [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] \} * 1.96 * 100$	
Prepared By	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
MCB		
Chemist		
SLF	ν RESULTS ν	
Analyst	ALPHA TOTAL in $\mu\text{Ci/m}$	< 1.02E-06
EAL	LESS Than Value was Determined from Lc.	
Date Complete	RELATIVE COUNTING ERROR	500.0%
11/21/95		
Analysis Date		
11/19/95		
Analysis Time		
01:04 PM		
Sample Point		
B-204		

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95

BLANK.WB1 Rev. 1.0 508101ML

DATA
NOT USED
IN PACKAGE

1209

WORKBOOK PAGE: SAM4

AT : LA-508-101 (D-2) LIQUIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	531	511
3475	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	17.300	16.633
Batch Number			
95003897	Blank Concentration in $\mu\text{Ci/L}$	6.55E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	6.30E-02	
0	Average Concentration in $\mu\text{Ci/L}$	6.4224E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002976	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF	ν RESULTS ν		
Analyst	ALPHA TOTAL in $\mu\text{Ci/m}$	6.42E-05	DETECTION LEVEL
EAL			
Date Complete			2.38E-06
11/21/95	RELATIVE COUNTING ERROR	9.0%	$\mu\text{Ci/mL}$
Analysis Date			
11/19/95			
Analysis Time			
01:04 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
IN PACKAGE

1210

WORKBOOK PAGE: DUP5

AT : LA-508-101 (D-2) LIQUIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	582	532
3475	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.500	0.500
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	19.000	17.333
Batch Number			
95003897	Blank Concentration in $\mu\text{Ci/L}$	7.19E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	6.56E-02	
0	Average Concentration in $\mu\text{Ci/L}$	6.8766E-02	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002976	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/21/95			
Analysis Date			
11/19/95			
Analysis Time			
01:04 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE:WB1 Rev. 1. 508101ML		

NOT USED
IN PACKAGE

1211

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	42891	42037
3475	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.500	0.500
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95003897	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4762E-02	4.4762E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/mL}$ (S+S)	5.41E-03	5.30E-03
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/mL}$ in SAMPLE	6.4224E-05	
N/A			
Sample #			
S95T002976			
Instrument Code			
WB26872			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/21/95			
Analysis Date			
11/19/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	2.65E-02	
01:04 PM	AVG. PERCENT SPIKE RECOVERY =	59.1%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
SAMPLE + SPIKE $\mu\text{Ci/mL}$ = $R_s * DF * DDF / (EFF * SS * 2220000 \text{dpm}/\mu\text{Ci})$
QC ACTUAL = SVal
QC FOUND = $((S+S \mu\text{Ci/mL} - \text{SAMPLE } \mu\text{Ci/mL}) * ((SDF/SVol)/(DF*DDF/SS)))$
PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95

SPIKE.WB1 Rev. 1.0

508101ML

USEL
PACKAGE

1212

AT : LA-508-101 (D-2) LIQUIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	131	151
3475	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs (SAMPLE RATE) as APPROPRIATE	3.967	4.633
Batch Number			
95003897	Blank Concentration in $\mu\text{Ci/L}$	7.51E-02	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	8.77E-02	
0	Average Concentration in $\mu\text{Ci/L}$	8.1384E-02	
Sample Prep			
N/A	Rs (Sample Count Rate) = (TC / CT) - BKG		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002984	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist	v RESULTS v		
SLF	ALPHA TOTAL in $\mu\text{Ci/mL}$	8.14E-05	DETECTION LEVEL
Analyst			
EAL			
Date Complete			1.19E-05 $\mu\text{Ci/mL}$
11/21/95	RELATIVE COUNTING ERROR	19.7%	
Analysis Date			
11/19/95			
Analysis Time			
01:04 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE:WB1 Rev. 1. 508101ML		

DATA
NOT USED
IN PACKAGE

1213

AT : LA-508-101 (D-2) LIQUIDS

	DUP	REPLICATE
Type	DETECTOR NUMBER	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2
Work List	GROSS COUNTS (GC)	260
3475	COUNT TIME in MINUTES (CT)	30
AT or IB ?	BACKGROUND in cpm (BKG)	0.4
AT	SAMPLE SIZE in mL (SS)	0.100
Test Code	DILUTION FACTOR (DF)	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	8.267
Batch Number		
95003897	Blank Concentration in $\mu\text{Ci/L}$	1.56E-01
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	2.22E-01
0	Average Concentration in $\mu\text{Ci/L}$	1.8926E-01
Sample Prep		
N/A		
Sample #	Rs (Sample Count Rate) = $(TC / CT) - BKG$	
S95T002984	ALPHA TOTAL $\mu\text{Ci/L}$ = $Rs * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$	
Instrument Code	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$	
WB26872	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$	
Prepared By	Detection Levels and Less Than Values are determined from Procedure LA-508-002.	
MCB		
Chemist		
SLF	ν RESULTS ν	
Analyst	ALPHA TOTAL in $\mu\text{Ci/m}$	1.89E-04
EAL		
Date Complete		
11/21/95	RELATIVE COUNTING ERROR	13.0%
Analysis Date		
11/19/95		
Analysis Time		
01:04 PM		
Sample Point		
B-204		

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95

SAMPLE.WB1 Rev. 1. 608101ML

NOT USED
IN PACKAGE

1214

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	44609	23967
3475	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95003897	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4762E-02	4.4762E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/mL}$ (S+S)	2.81E-02	1.51E-02
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/mL}$ in SAMPLE	8.1384E-05	
N/A			
Sample #			
S95T002984			
Instrument Code			
WB26872			
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/21/95			
Analysis Date			
11/19/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	2.15E-02	
01:04 PM	AVG. PERCENT SPIKE RECOVERY =	48.1%	
Sample Point			
B-204			

R_s (Sample Count Rate) = $(TC / CT) - BKG$
SAMPLE + SPIKE $\mu\text{Ci/mL}$ = $R_s * DF * DDF / (EFF * SS * 2220000 \text{dpm}/\mu\text{Ci})$
QC ACTUAL = SVal
QC FOUND = $((S+S \mu\text{Ci/mL} - \text{SAMPLE } \mu\text{Ci/mL}) * ((SDF/SVol)/(DF*DDF/SS)))$
PERCENT SPIKE RECOVERY = $(QC \text{ FOUND} / QC \text{ ACTUAL}) * 100$

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95

SPIKE.WB1 Rev. 1.0

508101ML

NOT USED
IN PACKAGE

1215

WORKBOOK PAGE: SAM10

AT : LA-508-101 (D-2) LIQUIDS

		SAMPLE	REPLICATE
Type	DETECTOR NUMBER	15	15
SAMPLE	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	8	8
3475	COUNT TIME in MINUTES (CT)	30	30
AT or IS ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.269	0.269
Batch Number			
95003897	Blank Concentration in $\mu\text{Ci/L}$	< 5.10E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	< 5.10E-03	
0	Maximum Concentration in $\mu\text{Ci/L}$	< 5.0996E-03	
Sample Prep			
N/A	R_s (Sample Count Rate) = $(TC / CT) - BKG$		
Sample #	ALPHA TOTAL $\mu\text{Ci/L}$ = $R_s * 1000\text{mL/L} * DF * DDF / (EFF * SS * 2220000\text{dpm}/\mu\text{Ci})$		
S95T002986	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L} / 1000\text{mL/L}$		
Instrument Code	Relative Counting Error = $[(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100$		
WB26872	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
Prepared By			
MCB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/21/95			
Analysis Date			
11/19/95			
Analysis Time			
01:04 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1.	508101ML	

DATA
NOT USED
IN PACKAGE

1216

WORKBOOK PAGE: DUP11

AT : LA-508-101 (D-2) LIQUIDS

		DUP	REPLICATE
Type	DETECTOR NUMBER	15	15
DUP	DISH SIZE (1, 2, or 5) (MS)	2	2
Work List	GROSS COUNTS (GC)	10	5
3475	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE SIZE in mL (SS)	0.100	0.100
Test Code	DILUTION FACTOR (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	EFFICIENCY FACTOR (EFF)	0.2380	0.2380
LIQUID	Lc, Rmax, or Rs, (SAMPLE RATE) as APPROPRIATE	0.269	0.269
Batch Number			
95003897	Blank Concentration in $\mu\text{Ci/L}$	< 5.10E-03	
Rerun	Replicate Concentration in $\mu\text{Ci/L}$	< 5.10E-03	
0	Maximum Concentration in $\mu\text{Ci/L}$	< 5.0996E-03	
Sample Prep			
N/A			
Sample #	Rs (Sample Count Rate) = (TC / CT) - BKG		
S95T002986	ALPHA TOTAL $\mu\text{Ci/L}$ = Rs * 1000mL/L * DF * DDF / (EFF * SS * 2220000dpm/ μCi)		
Instrument Code	ALPHA TOTAL $\mu\text{Ci/mL}$ = ALPHA TOTAL $\mu\text{Ci/L}$ / 1000mL/L		
WB26872	Relative Counting Error = [(The Square Root of TC + BKG * CT) / (TC - BKG * CT)] * 1.96 * 100		
Prepared By	Detection Levels and Less Than Values are determined from Procedure LA-508-002.		
MCB			
Chemist			
SLF			
Analyst			
EAL			
Date Complete			
11/21/95			
Analysis Date			
11/19/95			
Analysis Time			
01:04 PM			
Sample Point			
B-204			

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SAMPLE.WB1 Rev. 1.	508101ML	

NOT USED
IN PACKAGE

1217

AT : LA-508-101 (D-2) SPIKED SAMPLE

		SPIKE	REPLICATE
Type	DETECTOR NUMBER	15	15
SPK	DISH SIZE 1, 2, or 5 (MS)	2	2
Work List	TOTAL COUNTS (TC)	39560	30610
3475	COUNT TIME in MINUTES (CT)	30	30
AT or TB ?	BACKGROUND in cpm (BKG)	0.4	0.4
AT	SAMPLE VOLUME in mL (Spiked Vial) (SS)	0.100	0.100
Test Code	SAMPLE DILUTION FACTOR (Spiked Vial) (DF)	1	1
@ALPHA01	DIGEST DILUTION FACTOR (DDF)	1	1
Matrix	SPIKE VOLUME in mL (SVol)	0.100	0.100
LIQUID	SPIKE DILUTION FACTOR (SDF)	1	1
Batch Number	SPIKE BOOK NUMBER (Spk BN)	112B43	112B43
95003897	SPIKE VALUE in $\mu\text{Ci/mL}$ (SVal)	4.4762E-02	4.4762E-02
Rerun	INSTRUMENT EFFICIENCY FACTOR (EFF)	0.238	0.238
0	SAMPLE + SPIKE $\mu\text{Ci/mL}$ (S+S)	2.50E-02	1.93E-02
Sample Prep	AVERAGE or MAXIMUM $\mu\text{Ci/mL}$ in SAMPLE	< 5.0996E-06	
N/A			
Sample #			
S95T002986	Rs (Sample Count Rate) = (TC / CT) - BKG		
Instrument Code	SAMPLE + SPIKE $\mu\text{Ci/mL}$ = Rs * DF * DDF / (EFF * SS * 2220000dpm/ μCi)		
WB26872	QC ACTUAL = SVal		
Prepared By	QC FOUND = (((S+S $\mu\text{Ci/mL}$ - SAMPLE $\mu\text{Ci/mL}$) * ((SDF/SVol)/(DF*DDF/SS))))		
MCB	PERCENT SPIKE RECOVERY = (QC FOUND / QC ACTUAL) * 100		
Chemist			
SLF			
Analyst			
EAL			
Date Complete	NOTE: Original Sample result was a LESS THAN value. Zero (0) was subtracted from the spiked value for QC found calculation.		
11/21/95			
Analysis Date			
11/19/95	QC ACTUAL =	4.48E-02	
Analysis Time	QC FOUND =	2.21E-02	
01:04 PM	AVG. PERCENT SPIKE RECOVERY =	49.4%	
Sample Point			
B-204			

Analyst:	EAL	Date: 21-Nov-95
Signature of Chemist:	SLF	Date: 11/29/95
SPIKE.WB1 Rev. 1.0 508101ML		

NOT USED
IN PACKAGE

1218

LABCORE Completed Worklist Report for Worklist# 5677

Analyst: smf

Instrument: GEA02

Book# 12B56

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: Re-run #1 (high STD). Use 1 ml sample. -PPB

Seq Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD	0	@GEA-02	CO60-02	SOLID	0.0262	2.54e-02	96.950 % Recovery	
1 STD	0	@GEA-02	CO60-02E	SOLID	1	4.30	4.300 % Ct. Error	
1 STD	0	@GEA-02	CS13702	SOLID	0.0272	2.60e-02	95.590 % Recovery	
1 STD	0	@GEA-02	CS13702E	SOLID	1	5.87	5.870 % Ct. Error	
2 BLNK-PREP	0	@GEA-02	CO60-02	SOLID	1	<1.18e-2	uCi/g	
2 BLNK-PREP	0	@GEA-02	CS13702	SOLID	1	<3.37e-2	uCi/g	
2 BLNK-PREP	0	@GEA-02	EU15402	SOLID	1	<4.68e-2	uCi/g	
2 BLNK-PREP	0	@GEA-02	EU15502	SOLID	1	<3.62e-2	uCi/g	
2 BLNK-PREP	0	@GEA-02	AM24102	SOLID	1	<7.81e-2	uCi/g	
3 SAMPLE	S95T003120	0 F	@GEA-02	CO60-02	N/A	1.492e-02	1.492e-002	uCi/g
3 SAMPLE	S95T003120	0 F	@GEA-02	CO60-02E	N/A	n/a	0.000 % Ct. Error	
3 SAMPLE	S95T003120	0 F	@GEA-02	CS13702	N/A	3.154e-02	3.154e-002	uCi/g
3 SAMPLE	S95T003120	0 F	@GEA-02	CS13702E	N/A	n/a	0.000 % Ct. Error	
3 SAMPLE	S95T003120	0 F	@GEA-02	EU15402	N/A	3.802e-02	3.802e-002	uCi/g
3 SAMPLE	S95T003120	0 F	@GEA-02	EU15402E	N/A	n/a	0.000 % Ct. Error	
3 SAMPLE	S95T003120	0 F	@GEA-02	EU15502	N/A	3.883e-02	3.883e-002	uCi/g
3 SAMPLE	S95T003120	0 F	@GEA-02	EU15502E	N/A	n/a	0.000 % Ct. Error	
3 SAMPLE	S95T003120	0 F	@GEA-02	AM24102	N/A	8.154e-02	8.154e-002	uCi/g
3 SAMPLE	S95T003120	0 F	@GEA-02	AM24102E	N/A	n/a	0.000 % Ct. Error	
4 DUP	S95T003120	0 F	@GEA-02	CO60-02	<1.49e-2	<1.12e-2	RPD	
4 DUP	S95T003120	0 F	@GEA-02	CO60-02E	1	n/a	% Ct. Error	
4 DUP	S95T003120	0 F	@GEA-02	CS13702	<3.15e-2	<3.13e-2	RPD	
4 DUP	S95T003120	0 F	@GEA-02	CS13702E	1	n/a	% Ct. Error	
4 DUP	S95T003120	0 F	@GEA-02	EU15402	<3.80e-2	<3.34e-2	RPD	
4 DUP	S95T003120	0 F	@GEA-02	EU15402E	1	n/a	% Ct. Error	
4 DUP	S95T003120	0 F	@GEA-02	EU15502	<3.88e-2	<3.71e-2	RPD	
4 DUP	S95T003120	0 F	@GEA-02	EU15502E	1	n/a	% Ct. Error	
4 DUP	S95T003120	0 F	@GEA-02	AM24102	<8.15e-2	<8.51e-2	RPD	
4 DUP	S95T003120	0 F	@GEA-02	AM24102E	1	n/a	% Ct. Error	

Comments Section:

Comments for sample# S95T003120 and test @GEA-02 .
High STD recovery - re-run requested.
R(1) no analytes detected.

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 5677

Seq	Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
-----	------	---------	-----	------	--------	--------	-------	-------------	------

Final page for worklist# 5677

Analyst Signature _____ Date _____

Analyst Signature _____ Date _____

2/20/96
Reviewer Signature _____ Date _____

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 5677

Analyst: SMF Instrument: GEA00 2 Book# 12B56
Method: LA-548-121 Rev/Mod D-1 WHC-SD-WM-DP-160, REV. 1

Worklist Comment: Re-run #1 (high STD). Use 1 ml sample. -PPB

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@GEA-02	SOLID		
2 BLNK-PREP			@GEA-02	SOLID		
3 SAMPLE	S95T003120 0 F		@GEA-02	SOLID	95000158 B-204	
Analytes Requested: AM24102 , AM24102E, CO60-02 , CO60-02E, CS13702 , CS13702E, EU15402 , EU15402E, EU15502 , EU15502E						
4 DUP	S95T003120 0 F		@GEA-02	SOLID		

Final page for worklist # 5677

Susan M. Dalton 2-15-96
Analyst Signature Date
0300

MJB 2/20/96
Analyst Signature Date

Data Entry Comments:

STD #12B56 .100 ml Samp Size.?
Prep Blk, Sam, & Dup 1.0 ml Samp Size.

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

```

*****
* 222-S Laboratory Counting Room 15-FEB-1996 07:49:17.62
*****
>>>>>>>> SAMPLE INFORMATION <<<<<<<<<
Worklist #: 5677 WHC-SD-WM-DP-160, REV. 1
Sample ID: WL5677-STD Removed by:
Sample Size: 1.00000E-03 L
Dilution Factor: 1.00000E+01
                2-15-96

>>>>>>>> COUNT INFORMATION <<<<<<<<<
Detector ID: GEA2 Verified by:
File Number: dka300:[spec.GEA2]2g2785.cnf
Geometry: 42
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:01.28 sec
Dead Time: 0.0%

>>>>>>>> ANALYSIS INFORMATION <<<<<<<<<
Sample Count Time: 15-FEB-1996 06:58:35.82
Decayed to: 15-FEB-1996 06:58:35.82
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>>> CALIBRATION INFORMATION <<<<<<<<<
Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61
*****

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Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/L
0	511.64*	65	2.01	1023.36	1018	13	71.0			
0	661.70*	1876	1.60	1323.42	1316	16	5.9		CS-137	26.0
0	1173.37	1266	1.61	2346.79	2338	16	6.2		CO-60	24.9
0	1332.61	1195	1.73	2665.37	2656	19	6.0		CO-60	26.0

Total number of lines in spectrum 4 WHC-SD-WM-DP-160, REV. I
Number of unidentified lines 0
Number of lines tentatively identified by NID 4 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/L	Wtd Mean Decay Corr uCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	2.543E+01	2.543E+01	0.109E+01	4.30	
CS-137	30.00Y	1.000	2.604E+01	2.604E+01	0.153E+01	5.87	
Total Activity :			5.146E+01	5.146E+01			

Grand Total Activity : 5.146E+01 5.146E+01

Flags: "K" = Keyline not found
"E" = Manually edited

"M" = Manually accepted
"A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
BE-7	141.	477.59	4.8223E+00
NA-22	17.	1274.53	4.0448E-01
NA-24	9.	1368.55	3.0721E-01
K-40	130.	1460.75	1.1615E+01
CR-51	140.	320.08	3.5846E+00
MN-54	81.	834.83	6.0123E-01
CO-56	81.	846.76	6.1037E-01
CO-57	198.	122.06	3.1437E-01
CO-58	75.	810.78	5.6987E-01
FE-59	75.	1099.25	1.3182E+00
SE-75	191.	264.66	6.3070E-01
SR-85	115.	514.01	4.9902E-01
Y-88	3.	1836.06	2.2817E-01
NB-94	100.	871.09	6.9565E-01
ZRNB-95	53.	724.18	9.9180E-01
RU-103	102.	497.08	4.8349E-01
RURH-106	87.	621.93	9.8218E+00
AG-108m	56.	722.94	4.8999E-01
CD-109	171.	88.03	1.0045E+01
AG-110M	142.	657.76	6.8991E-01
SN-113	146.	391.69	6.6393E-01
TE-123m	196.	159.00	3.1343E-01
SB-124	72.	602.73	4.4062E-01
SB-125	141.	427.89	1.5355E+00
TE-125m	195.	109.27	1.0357E+02
I-131	140.	364.48	4.8835E-01
CS-134	82.	604.70	4.7431E-01
BA-140	76.	537.31	1.6553E+00
LA-140	8.	1596.21	3.4892E-01
CEPR-144	234.	133.51	5.1078E+00
EU-152	6.	1408.01	1.2472E+00
EU-154	17.	1274.51	1.1779E+00
EU-155	173.	105.31	1.3077E+00
HG-203	174.	279.20	4.4885E-01
TL-208	181.	277.36	5.8750E+00
BI-212	56.	727.18	6.6829E+00
PB-212	236.	238.63	8.7670E-01
BI-214	109.	609.31	1.1979E+00
PB-214	195.	351.92	2.2669E+00
RA-224	211.	240.99	9.1949E+00
RA-226	220.	186.10	8.6491E+00
AC-228	116.	911.21	2.9208E+00
TH-228	177.	84.37	3.1404E+01
TH-229	176.	88.47	1.4784E+00
PA-233	171.	312.17	1.0155E+00
UTH-233	220.	245.34	3.5195E+02
PA-234M	83.	1001.03	1.2180E+00
TH-234	165.	63.29	1.7621E+01
U-235	221.	185.71	5.2657E-01
NP-237	166.	86.48	2.9666E+00
NP-239	177.	106.12	1.2570E+00

WHC-SD-WM-DP-160, REV. 1

Sample ID : WL5677-STD

Acquisition date : 15-FEB-1996 06:58:35

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
PU-239	206.	129.30	4.1871E+03
AM-241	147.	59.54	2.6516E+00
AM-243	186.	74.67	8.7388E-01

WHC-SD-WM-DP-160, REV. 1

* 222-S Laboratory Counting Room 15-FEB-1996 09:57:45.70 *

>>>>>>> SAMPLE INFORMATION <<<<<<<<<

Worklist #: 5677
Sample ID: WL5677-BLK
Sample Size: 1.00000E-03 L
Dilution Factor: 1.00000E+00

WHC-SD-WM-DP-160, REV.1

Removed by:

M8 Brown 2/15/96

>>>>>>> COUNT INFORMATION <<<<<<<<<

Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2786.cnf
Geometry: 42
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:00.45 sec
Dead Time: 0.0%

Verified by:

RH Jones

>>>>>>> ANALYSIS INFORMATION <<<<<<<<<

Sample Count Time: 15-FEB-1996 09:07:05.58
Decayed to: 15-FEB-1996 09:07:05.58
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>> CALIBRATION INFORMATION <<<<<<<<<

Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw %Err	Fit	Nuclides	Activity uCi/L
0	1461.00*	18	1.85	2922.27	2912	20128.9		K-40	0.390

Total number of lines in spectrum 1 WHC-SD-WM-DP-160, REV. I
Number of unidentified lines 0
Number of lines tentatively identified by NID 1 100.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/L	Wtd Mean Decay Corr uCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.000	3.900E-01	3.900E-01	5.028E-01	128.93	> 50%
Total Activity :			3.900E-01	3.900E-01			

Grand Total Activity : 3.900E-01 3.900E-01

Flags: "K" = Keyline not found
"E" = Manually edited

"M" = Manually accepted
"A" = Nuclide specific abn. limit

1226.1

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
BE-7	40.	477.59	2.5773E-01
NA-22	13.	1274.53	3.4667E-02
NA-24	5.	1368.55	2.3557E-02
CR-51	46.	320.08	2.0552E-01
MN-54	9.	834.83	2.0363E-02
CO-56	23.	846.76	3.2529E-02
CO-57	64.	122.06	1.7916E-02
CO-58	17.	810.78	2.6981E-02
FE-59	14.	1099.25	5.7565E-02
CO-60	6.	1332.50	2.4979E-02
SE-75	55.	264.66	3.3834E-02
SR-85	26.	514.01	2.3921E-02
Y-88	2.	1836.06	1.8630E-02
NB-94	13.	871.09	2.4683E-02
ZRNB-95	16.	724.18	5.3754E-02
RU-103	28.	497.08	2.5106E-02
RURH-106	21.	621.93	4.8112E-01
AG-108m	14.	722.94	2.4209E-02
CD-109	84.	88.03	7.0510E-01
AG-110M	36.	657.76	3.4643E-02
SN-113	39.	391.69	3.4178E-02
TE-123m	67.	159.00	1.8339E-02
SB-124	20.	602.73	2.3208E-02
SB-125	36.	427.89	7.7756E-02
TE-125m	75.	109.27	6.4335E+00
I-131	36.	364.48	2.4599E-02
CS-134	23.	604.70	2.4989E-02
CS-137	125.	661.66	7.2181E-02
BA-140	23.	537.31	9.2062E-02
LA-140	9.	1596.21	3.6396E-02
CEPR-144	52.	133.51	2.4079E-01
EU-152	10.	1408.01	1.6018E-01
EU-154	13.	1274.51	1.0040E-01
EU-155	61.	105.31	7.7519E-02
HG-203	48.	279.20	2.3615E-02
TL-208	60.	277.36	3.3891E-01
BI-212	24.	727.18	4.4120E-01
PB-212	67.	238.63	4.6669E-02
BI-214	51.	609.31	8.2307E-02
PB-214	80.	351.92	1.4544E-01
RA-224	70.	240.99	5.2862E-01
RA-226	75.	186.10	5.0594E-01
AC-228	28.	911.21	1.4464E-01
TH-228	78.	84.37	2.0882E+00
TH-229	83.	88.47	1.0156E-01
PA-233	36.	312.17	4.6486E-02
UTH-233	52.	245.34	1.7029E+01
PA-234M	17.	1001.03	5.5526E-02
TH-234	72.	63.29	1.1633E+00
U-235	75.	185.71	3.0769E-02
NP-237	70.	86.48	1.9322E-01

WHC-SD-WM-DP-160, REV.1

Minimum Detectable Activity Report (continued)

Page : 4

Sample ID : WL5677-BLK

Acquisition date : 15-FEB-1996 09:07:05

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
NP-239	74.	106.12	8.1402E-02
PU-239	71.	129.30	2.4539E+02
AM-241	59.	59.54	1.6755E-01
AM-243	76.	74.67	5.5951E-02

WHC-SD-WM-DP-160, REV. 1

```

*****
* 222-S Laboratory Counting Room 15-FEB-1996 11:50:29.86
*****
>>>>>>> SAMPLE INFORMATION <<<<<<<<<
Worklist #: 5677
Sample ID: S95T003120-SAM
Sample Size: 1.00000E-03 L
Dilution Factor: 1.00000E+00
Removed by:
          ALJ 2-15-96

>>>>>>> COUNT INFORMATION <<<<<<<<<
Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2787.cnf
Geometry: 42
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:00.45 sec
Dead Time: 0.0%
Verified by:
          RA Jones

>>>>>>> ANALYSIS INFORMATION <<<<<<<<<
Sample Count Time: 15-FEB-1996 10:59:52.44
Decayed to: 15-FEB-1996 10:59:52.44
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>> CALIBRATION INFORMATION <<<<<<<<<
Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61
*****

```

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw %Err	Fit	Nuclides	Activity uCi/L
0	708.09	26	1.57	1416.18	1411	11 46.7			
0	1460.99*	19	2.00	2922.25	2913	17 129.6		K-40	0.422

Total number of lines in spectrum 2 WHC-SD-WM-DP-160, REV. 1
Number of unidentified lines 1
Number of lines tentatively identified by NID 1 50.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/L	Wtd Mean Decay Corr uCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
K-40	1.28E+09Y	1.000	4.221E-01	4.221E-01	5.470E-01	129.59	>50%
Total Activity :			4.221E-01	4.221E-01			

Grand Total Activity : 4.221E-01 4.221E-01

Flags: "K" = Keyline not found
"E" = Manually edited

"M" = Manually accepted
"A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
BE-7	30.	477.59	2.2122E-01
NA-22	8.	1274.53	2.8134E-02
NA-24	9.	1368.55	3.1605E-02
CR-51	44.	320.08	2.0002E-01
MN-54	12.	834.83	2.3436E-02
CO-56	14.	846.76	2.5377E-02
CO-57	82.	122.06	2.0210E-02
CO-58	18.	810.78	2.7730E-02
FE-59	14.	1099.25	5.7635E-02
CO-60	10.	1332.50	3.1996E-02
SE-75	69.	264.66	3.7860E-02
SR-85	41.	514.01	2.9650E-02
Y-88	4.	1836.06	2.6346E-02
NB-94	22.	871.09	3.2670E-02
ZRNB-95	18.	724.18	5.7326E-02
RU-103	17.	497.08	1.9445E-02
RURH-106	19.	621.93	4.5487E-01
AG-108m	22.	722.94	3.0736E-02
CD-109	79.	88.03	6.8222E-01
AG-110M	26.	657.76	2.9249E-02
SN-113	37.	391.69	3.3597E-02
TE-123m	78.	159.00	1.9734E-02
SB-124	19.	602.73	2.2956E-02
SB-125	32.	427.89	7.2653E-02
TE-125m	56.	109.27	5.5235E+00
I-131	45.	364.48	2.7506E-02
CS-134	26.	604.70	2.6843E-02
CS-137	110.	661.66	6.7632E-02
BA-140	25.	537.31	9.5225E-02
LA-140	3.	1596.21	2.1367E-02
CEPR-144	67.	133.51	2.7327E-01
EU-152	7.	1408.01	1.3401E-01
EU-154	8.	1274.51	8.1539E-02
EU-155	70.	105.31	8.3264E-02
HG-203	57.	279.20	2.5562E-02
TL-208	59.	277.36	3.3631E-01
BI-212	20.	727.18	3.9859E-01
PB-212	80.	238.63	5.1180E-02
BI-214	46.	609.31	7.7505E-02
PB-214	62.	351.92	1.2817E-01
RA-224	78.	240.99	5.5800E-01
RA-226	90.	186.10	5.5236E-01
AC-228	28.	911.21	1.4262E-01
TH-228	63.	84.37	1.8689E+00
TH-229	72.	88.47	9.4413E-02
PA-233	42.	312.17	5.0237E-02
UTH-233	62.	245.34	1.8681E+01
PA-234M	12.	1001.03	4.5876E-02
TH-234	67.	63.29	1.1262E+00
U-235	87.	185.71	3.3011E-02
NP-237	71.	86.48	1.9419E-01

WHC-SD-WM-DP-160, REV. I

Sample ID : S95T003120-SAM

Acquisition date : 15-FEB-1996 10:59:52

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)	WHC-SD-WM-DP-160, REV. I
NP-239	71.	106.12	7.9719E-02	
PU-239	68.	129.30	2.4022E+02	
AM-241	64.	59.54	1.7485E-01	
AM-243	78.	74.67	5.6421E-02	

* 222-S Laboratory Counting Room 15-FEB-1996 12:51:09.23 *

>>>>>>> SAMPLE INFORMATION <<<<<<<<< WHC-SD-WM-DP-160, REV. 1
Worklist #: 5677
Sample ID: S95T003120-DUP
Sample Size: 1.00000E-03 L
Dilution Factor: 1.00000E+00

Removed by:

ALJ 2-15-96

>>>>>>> COUNT INFORMATION <<<<<<<<<
Detector ID: GEA2
File Number: dka300:[spec.GEA2]2g2789.cnf
Geometry: 42
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:00.45 sec
Dead Time: 0.0%

Verified by:

RAJ

>>>>>>> ANALYSIS INFORMATION <<<<<<<<<
Sample Count Time: 15-FEB-1996 12:00:30.69
Decayed to: 15-FEB-1996 12:00:30.69
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: ALJ
Background Subtract: DKA300:[SPEC.GEA2]2GBACK

>>>>>>> CALIBRATION INFORMATION <<<<<<<<<
Date of last energy calibration: 21-MAR-1994 09:31:55.15
Date of last efficiency calibration: 21-MAR-1994 09:43:42.61

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/L
0	609.02*	24	1.46	1218.07	1211	12	96.3			

Summary of Nuclide Activity
Sample ID : S95T003120-DUP

Page : 2
Acquisition date : 15-FEB-1996 12:00:30

Total number of lines in spectrum	1	WHC-SD-WM-DP-160, REV. 1
Number of unidentified lines	0	
Number of lines tentatively identified by NID	1	100.00%

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
 "E" = Manually edited "A" = Nuclide specific abn. limit

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
BE-7	26.	477.59	2.0678E-01
NA-22	7.	1274.53	2.5584E-02
NA-24	7.	1368.55	2.6933E-02
K-40	99.	1460.75	1.0169E+00
CR-51	54.	320.08	2.2273E-01
MN-54	15.	834.83	2.6017E-02
CO-56	15.	846.76	2.6271E-02
CO-57	72.	122.06	1.8930E-02
CO-58	10.	810.78	2.0658E-02
FE-59	11.	1099.25	4.9925E-02
CO-60	6.	1332.50	2.4784E-02
SE-75	53.	264.66	3.3279E-02
SR-85	41.	514.01	2.9950E-02
Y-88	0.	1836.06	0.0000E+00
NB-94	16.	871.09	2.7530E-02
ZRNB-95	24.	724.18	6.5986E-02
RU-103	30.	497.08	2.6020E-02
RURH-106	24.	621.93	5.1456E-01
AG-108m	21.	722.94	2.9859E-02
CD-109	81.	88.03	6.9080E-01
AG-110M	12.	657.76	2.0093E-02
SN-113	34.	391.69	3.1856E-02
TE-123m	71.	159.00	1.8833E-02
SB-124	20.	602.73	2.3540E-02
SB-125	44.	427.89	8.5654E-02
TE-125m	84.	109.27	6.7972E+00
I-131	36.	364.48	2.4639E-02
CS-134	17.	604.70	2.1546E-02
CS-137	115.	661.66	6.9224E-02
BA-140	32.	537.31	1.0711E-01
LA-140	8.	1596.21	3.5773E-02
CEPR-144	69.	133.51	2.7849E-01
EU-152	7.	1408.01	1.3462E-01
EU-154	7.	1274.51	7.3894E-02
EU-155	68.	105.31	8.2059E-02
HG-203	64.	279.20	2.7296E-02
TL-208	52.	277.36	3.1419E-01
BI-212	22.	727.18	4.1846E-01
PB-212	84.	238.63	5.2210E-02
BI-214	60.	609.31	8.8971E-02
PB-214	67.	351.92	1.3298E-01
RA-224	79.	240.99	5.6158E-01
RA-226	76.	186.10	5.0717E-01
AC-228	25.	911.21	1.3623E-01
TH-228	68.	84.37	1.9380E+00
TH-229	80.	88.47	9.9261E-02
PA-233	41.	312.17	4.9578E-02
UTH-233	60.	245.34	1.8380E+01
PA-234M	18.	1001.03	5.6617E-02
TH-234	70.	63.29	1.1502E+00
U-235	74.	185.71	3.0519E-02

WHC-SD-WM-DP-160, REV. I

Minimum Detectable Activity Report (continued)

Page : 4

Sample ID : S95T003120-DUP

Acquisition date : 15-FEB-1996 12:00:30

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
NP-237	75.	86.48	1.9900E-01
NP-239	68.	106.12	7.8107E-02
PU-239	79.	129.30	2.5873E+02
AM-241	74.	59.54	1.8810E-01
AM-243	67.	74.67	5.2451E-02

WHC-SD-WM-DP-160, REV. I

THE FOLLOWING ANALYSES WERE RERUN. THEY ARE INCLUDED IN THE DATA PACKAGE BUT THE RESULTS HAVE NOT BEEN REPORTED IN THE FINAL SUMMARY REPORTS.

LABCORE Data Entry Template for Worklist# 5660

Analyst: CRG Instrument: GEA00 1

Book# 12856 ~~144852~~ ^{2/13/96}

Method: LA-548-121 Rev/Mod D-1

RUSH

Worklist Comment: B-204, S95T003120, FUSION PREP, SAMPLE SIZE = 1.0ML. new

S Type	Sample#	R A	Test	Matrix	Group#	Project
1 STD			@GEA-02	SOLID		
2 BLNK-PREP			@GEA-02	SOLID		
3 SAMPLE	S95T003120 0 F		@GEA-02	SOLID	95000158 B-204	
Analytes Requested: AM24102 , AM24102E, CO60-02 , CO60-02E, CS13702 , CS13702E, EU15402 , EU15402E, EU15502 , EU15502E						
4 DUP	S95T003120 0 F		@GEA-02	SOLID		

Final page for worklist # 5660

CRG 2/13/96
Analyst Signature Date

[Signature] 2/14/96
Analyst Signature Date

**DATA
NOT USED
IN PACKAGE**

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 5660

Analyst: crj

Instrument: GEA01

Book# 12856

Method: LA-548-121 Rev/Mod D-1

Worklist Comment: B-204, S95T003120, FUSION PREP, SAMPLE SIZE = 1.0ML. new

Seq Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1 STD		0		@GEA-02	CO60-02	SOLID	0.0263	3.11e-02	118.250 % Recovery
1 STD		0		@GEA-02	CO60-02E	SOLID	1	1.30	1.300 % Ct. Error
1 STD		0		@GEA-02	CS13702	SOLID	0.0272	3.22e-02	118.380 % Recovery
1 STD		0		@GEA-02	CS13702E	SOLID	1	1.52	1.520 % Ct. Error
2 BLNK-PREP		0		@GEA-02	CO60-02	SOLID	1	<2.17e-2	uCi/g
2 BLNK-PREP		0		@GEA-02	CS13702	SOLID	1	<2.89e-2	uCi/g
2 BLNK-PREP		0		@GEA-02	EU15402	SOLID	1	<7.19e-2	uCi/g
2 BLNK-PREP		0		@GEA-02	EU15502	SOLID	1	<7.44e-2	uCi/g
2 BLNK-PREP		0		@GEA-02	AM24102	SOLID	1	<3.64e-2	uCi/g
3 SAMPLE	S95T003120	0	F	@GEA-02	CO60-02	SOLID	N/A	2.437e-02	2.437e-002 uCi/g
3 SAMPLE	S95T003120	0	F	@GEA-02	CO60-02E	SOLID	N/A	n/a	0.000 % Ct. Error
3 SAMPLE	S95T003120	0	F	@GEA-02	CS13702	SOLID	N/A	2.925e-02	2.925e-002 uCi/g
3 SAMPLE	S95T003120	0	F	@GEA-02	CS13702E	SOLID	N/A	n/a	0.000 % Ct. Error
3 SAMPLE	S95T003120	0	F	@GEA-02	EU15402	SOLID	N/A	8.562e-02	8.562e-002 uCi/g
3 SAMPLE	S95T003120	0	F	@GEA-02	EU15402E	SOLID	N/A	n/a	0.000 % Ct. Error
3 SAMPLE	S95T003120	0	F	@GEA-02	EU15502	SOLID	N/A	7.203e-02	7.203e-002 uCi/g
3 SAMPLE	S95T003120	0	F	@GEA-02	EU15502E	SOLID	N/A	n/a	0.000 % Ct. Error
3 SAMPLE	S95T003120	0	F	@GEA-02	AM24102	SOLID	N/A	3.767e-02	3.767e-002 uCi/g
3 SAMPLE	S95T003120	0	F	@GEA-02	AM24102E	SOLID	N/A	n/a	0.000 % Ct. Error
4 DUP	S95T003120	0	F	@GEA-02	CO60-02	SOLID	<2.44e-2	<1.99e-2	RPD
4 DUP	S95T003120	0	F	@GEA-02	CO60-02E	SOLID	1	n/a	% Ct. Error
4 DUP	S95T003120	0	F	@GEA-02	CS13702	SOLID	<2.93e-2	<2.75e-2	RPD
4 DUP	S95T003120	0	F	@GEA-02	CS13702E	SOLID	1	n/a	% Ct. Error
4 DUP	S95T003120	0	F	@GEA-02	EU15402	SOLID	<8.56e-2	<7.25e-2	RPD
4 DUP	S95T003120	0	F	@GEA-02	EU15402E	SOLID	1	n/a	% Ct. Error
4 DUP	S95T003120	0	F	@GEA-02	EU15502	SOLID	<7.20e-2	<6.70e-2	RPD
4 DUP	S95T003120	0	F	@GEA-02	EU15502E	SOLID	1	n/a	% Ct. Error
4 DUP	S95T003120	0	F	@GEA-02	AM24102	SOLID	<3.77e-2	<3.73e-2	RPD
4 DUP	S95T003120	0	F	@GEA-02	AM24102E	SOLID	1	n/a	% Ct. Error

Comments Section:

Comments for sample# S95T003120 and test @GEA-02.
High STD recovery - re-run requested.

DATA
NOT USED
IN PACKAGE

Final page for worklist# 5660

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 5660

Seq	Type	Sample#	R A	Test	Matrix	Actual	Found	DL or Yield	Unit
Analyst Signature		Date		Analyst Signature		Date			
				Reviewer Signature		Date			
				2/12/96					

DATA
NOT USED
IN PACKAGE

Units shown for QC (BLK/BKG) may not reflect the actual units.

 * 222-S Laboratory Counting Room 13-FEB-1996 11:53:19.02 *

>>>>>>> SAMPLE INFORMATION <<<<<<<<<

Worklist #: 5660
 Sample ID: W/L5660-STD
 Sample Size: 1.00000E-03 L
 Dilution Factor: 1.00000E+00

Removed by:

AP 2-13-96

>>>>>>> COUNT INFORMATION <<<<<<<<<

Detector ID: GEAL
 File Number: dka300:[spec.GEAL]lg1394.cnf
 Geometry: 41
 Count Time: 0 00:50:00.00 sec
 Real Time: 0 00:50:20.18 sec
 Dead Time: 0.7%

Verified by:

Bachelor 2/13/96

>>>>>>> ANALYSIS INFORMATION <<<<<<<<<

Sample Count Time: 13-FEB-1996 11:02:18.05
 Decayed to: 13-FEB-1996 11:02:18.05
 Standard Deviations: 2
 Analysis Library: ENVGEA
 Analyst: ALJ
 Background Subtract: DKA300:[SPEC.GEAL]1GBACK

>>>>>>> CALIBRATION INFORMATION <<<<<<<<<

Date of last energy calibration: 13-DEC-1995 10:25:45.49
 Date of last efficiency calibration: 13-DEC-1995 10:49:51.10

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw	%Err	Fit	Nuclides	Activity uCi/L
0	31.74	3904	1.03	63.84	59	9	5.7			
0	36.37	1052	0.94	73.10	69	9	16.7			
0	661.55*	22340	1.47	1323.06	1315	16	1.5		CS-137	32.2
0	1172.89	15243	1.80	2345.72	2338	17	1.8		CO-60	31.4
0	1332.08	13472	1.96	2664.15	2654	20	1.8		CO-60	30.8

WHC-SD-WM-DP-160, REV. I

**DATA
NOT USED
IN PACKAGE**

Total number of lines in spectrum 5
Number of unidentified lines 2
Number of lines tentatively identified by NID 3 60.00%

Nuclide Type :

Nuclide	Hlife	Decay	Wtd Mean Uncorrected uCi/L	Wtd Mean Decay Corr uCi/L	Decay Corr 2-Sigma Error	2-Sigma %Error	Flags
CO-60	5.27Y	1.000	3.113E+01	3.113E+01	0.040E+01	1.30	
CS-137	30.00Y	1.000	3.224E+01	3.224E+01	0.049E+01	1.52	
Total Activity :			6.337E+01	6.337E+01			

Grand Total Activity : 6.337E+01 6.337E+01

Flags: "K" = Keyline not found
"E" = Manually edited

"M" = Manually accepted
"A" = Nuclide specific abn. limit

WHC-SD-WM-DP-160, REV. 1

DATA
NOT USED
IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
BE-7	1292.	477.59	1.4704E+00
NA-22	97.	1274.53	1.0121E-01
NA-24	32.	1368.55	6.2559E-02
K-40	598.	1460.75	2.6251E+00
CR-51	1332.	320.08	1.0823E+00
MN-54	739.	834.83	1.9267E-01
CO-56	776.	846.76	2.0006E-01
CO-57	1452.	122.06	7.4083E-02
CO-58	765.	810.78	1.9190E-01
FE-59	826.	1099.25	4.6069E-01
SE-75	1400.	264.66	1.6445E-01
SR-85	966.	514.01	1.4660E-01
Y-88	17.	1836.06	5.5729E-02
NB-94	855.	871.09	2.1559E-01
ZRNB-95	634.	724.18	3.5828E-01
RU-103	980.	497.08	1.5102E-01
RURH-106	686.	621.93	2.8500E+00
AG-108m	631.	722.94	1.7176E-01
CD-109	1242.	88.03	1.5327E+00
AG-110M	1311.	657.76	2.1768E-01
SN-113	1255.	391.69	1.9631E-01
TE-123m	1506.	159.00	8.5987E-02
SB-124	704.	602.73	1.4231E-01
SB-125	1335.	427.89	4.7636E-01
TE-125m	1316.	109.27	2.0842E+01
I-131	1238.	364.48	1.4457E-01
CS-134	722.	604.70	1.4480E-01
BA-140	791.	537.31	5.4409E-01
LA-140	30.	1596.21	7.1325E-02
CEPR-144	1445.	133.51	1.1804E+00
EU-152	49.	1408.01	3.7200E-01
EU-154	97.	1274.51	2.9385E-01
EU-155	1296.	105.31	2.6538E-01
HG-203	1308.	279.20	1.1893E-01
TL-208	1326.	277.36	1.5379E+00
BI-212	709.	727.18	2.4996E+00
PB-212	1616.	238.63	2.1977E-01
BI-214	864.	609.31	3.4740E-01
PB-214	1341.	351.92	5.9154E-01
RA-224	1568.	240.99	2.4018E+00
RA-226	1682.	186.10	2.3751E+00
AC-228	1075.	911.21	9.4557E-01
TH-228	1382.	84.37	4.6045E+00
TH-229	1213.	88.47	2.2148E-01
PA-233	1269.	312.17	2.7022E-01
UTH-233	1413.	245.34	8.5418E+01
PA-234M	808.	1001.03	4.0198E-01
TH-234	1083.	63.29	1.1868E+00
U-235	1687.	185.71	1.4463E-01
NP-237	1333.	86.48	4.6198E-01
NP-239	1252.	106.12	2.4996E-01

WHC-SD-WM-DP-160, REV. 1

DATA
NOT USED
IN PACKAGE

Minimum Detectable Activity Report (continued)

Page : 4

Sample ID : W/L5660-STD

Acquisition date : 13-FEB-1996 11:02:18

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
PU-239	1589.	129.30	1.0590E+03
AM-241	1068.	59.54	1.5040E-01
AM-243	1398.	74.67	9.8184E-02

WHC-SD-WM-DP-160, REV. 1

DATA
NOT USED
IN PACKAGE

 * 222-S Laboratory Counting Room 13-FEB-1996 12:46:59.29 *

>>>>>>> SAMPLE INFORMATION <<<<<<<<< WHC-SD-WM-DP-160, REV. I

Worklist #: 5660
 Sample ID: W/L5660-BLK
 Sample Size: 1.00000E-03 L
 Dilution Factor: 1.00000E+00

Removed by:

C. J. Oprien

>>>>>>> COUNT INFORMATION <<<<<<<<<

Detector ID: GEAL
 File Number: dka300:[spec.GEAL]lg1395.cnf
 Geometry: 41
 Count Time: 0 00:50:00.00 sec
 Real Time: 0 00:50:03.80 sec
 Dead Time: 0.1%

Verified by:

B. Bachelder 2/13/96

>>>>>>> ANALYSIS INFORMATION <<<<<<<<<

Sample Count Time: 13-FEB-1996 11:56:15.65
 Decayed to: 13-FEB-1996 11:56:15.65
 Standard Deviations: 2
 Analysis Library: ENVGEA
 Analyst: ALJ
 Background Subtract: DKA300:[SPEC.GEAL]1GBACK

>>>>>>> CALIBRATION INFORMATION <<<<<<<<<

Date of last energy calibration: 13-DEC-1995 10:25:45.49
 Date of last efficiency calibration: 13-DEC-1995 10:49:51.10

Post-NID Peak Search Report

It	Energy	Area	FWHM	Channel	Left	Pw %Err	Fit	Nuclides	Activity uCi/L
0	609.14*	44	1.65	1218.24	1213	11103.2			

DATA
 NOT USED
 IN PACKAGE

Summary of Nuclide Activity
Sample ID : W/L5660-BLK

Page : 2
Acquisition date : 13-FEB-1996 11:56:15

Total number of lines in spectrum	1	WHC-SD-WM-DP-160, REV./
Number of unidentified lines	0	
Number of lines tentatively identified by NID	1	

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found "M" = Manually accepted
 "E" = Manually edited "A" = Nuclide specific abn. limit

DATA
NOT USED
IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
BE-7	102.	477.59	4.1398E-01
NA-22	27.	1274.53	5.3186E-02
NA-24	21.	1368.55	5.0385E-02
K-40	593.	1460.75	2.6143E+00
CR-51	227.	320.08	4.4689E-01
MN-54	57.	834.83	5.3568E-02
CO-56	53.	846.76	5.2423E-02
CO-57	457.	122.06	4.1551E-02
CO-58	37.	810.78	4.2450E-02
FE-59	38.	1099.25	9.8911E-02
CO-60	19.	1332.50	4.6573E-02
SE-75	246.	264.66	6.8989E-02
SR-85	121.	514.01	5.1790E-02
Y-88	13.	1836.06	4.9452E-02
NB-94	43.	871.09	4.8555E-02
ZRNB-95	42.	724.18	9.2734E-02
RU-103	90.	497.08	4.5780E-02
RURH-106	83.	621.93	9.8948E-01
AG-108m	44.	722.94	4.5382E-02
CD-109	391.	88.03	8.6010E-01
AG-110M	64.	657.76	4.7993E-02
SN-113	162.	391.69	7.0576E-02
TE-123m	442.	159.00	4.6563E-02
SB-124	72.	602.73	4.5592E-02
SB-125	114.	427.89	1.3943E-01
TE-125m	436.	109.27	1.1989E+01
I-131	165.	364.48	5.2806E-02
CS-134	80.	604.70	4.8248E-02
CS-137	85.	661.66	6.1953E-02
BA-140	87.	537.31	1.8013E-01
LA-140	19.	1596.21	5.6863E-02
CEPR-144	508.	133.51	6.9988E-01
EU-152	18.	1408.01	2.2785E-01
EU-154	27.	1274.51	1.5418E-01
EU-155	468.	105.31	1.5955E-01
HG-203	253.	279.20	5.2267E-02
TL-208	273.	277.36	6.9797E-01
BI-212	81.	727.18	8.4455E-01
PB-212	408.	238.63	1.1048E-01
BI-214	240.	609.31	1.8322E-01
PB-214	281.	351.92	2.6994E-01
RA-224	331.	240.99	1.1032E+00
RA-226	446.	186.10	1.2230E+00
AC-228	118.	911.21	3.1312E-01
TH-228	459.	84.37	2.6544E+00
TH-229	391.	88.47	1.2569E-01
PA-233	213.	312.17	1.1066E-01
UTH-233	304.	245.34	3.9595E+01
PA-234M	44.	1001.03	9.4316E-02
TH-234	320.	63.29	6.4510E-01
U-235	460.	185.71	7.5545E-02

WHC-SD-WM-DP-160, REV.1

DATA
NOT USED
in PACKAGE

Minimum Detectable Activity Report (continued)

Page : 4

Sample ID : W/L5660-BLK

Acquisition date : 13-FEB-1996 11:56:15

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
NP-237	405.	86.48	2.5465E-01
NP-239	441.	106.12	1.4828E-01
PU-239	454.	129.30	5.6632E+02
AM-241	285.	59.54	7.7749E-02
AM-243	470.	74.67	5.6956E-02

WHC-SD-WM-DP-160, REV. 1

DATA
NOT USED
IN PACKAGE

1248

* 222-S Laboratory Counting Room 13-FEB-1996 13:46:40.11 *

>>>>>>> SAMPLE INFORMATION <<<<<<<<<

Worklist #: 5660
Sample ID: S95T3120-SAM
Sample Size: 1.00000E-03 L
Dilution Factor: 1.00000E+00

WHC-SD-WM-DP-160, REV. 1

Removed by:

SE Hogan

>>>>>>> COUNT INFORMATION <<<<<<<<<

Detector ID: GEAL
File Number: dka300:[spec.GEAL]lg1396.cnf
Geometry: 41
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:03.58 sec
Dead Time: 0.1%

Verified by:

DB Bachelor 2/13/96

>>>>>>> ANALYSIS INFORMATION <<<<<<<<<

Sample Count Time: 13-FEB-1996 12:55:58.14
Decayed to: 13-FEB-1996 12:55:58.14
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: CJO
Background Subtract: DKA300:[SPEC.GEAL]1GBACK

>>>>>>> CALIBRATION INFORMATION <<<<<<<<<

Date of last energy calibration: 13-DEC-1995 10:25:45.49
Date of last efficiency calibration: 13-DEC-1995 10:49:51.10

Post-NID Peak Search Report
***** No peaks found *****

DATA
NOT USED
IN PACKAGE

Summary of Nuclide Activity
Sample ID : S95T3120-SAM

Page : 2
Acquisition date : 13-FEB-1996 12:55:58

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found
"E" = Manually edited

"M" = Manually accepted
"A" = Nuclide specific abn. limit

WHC-SD-WM-DP-160, REV.1

DATA
NOT USED
IN PACKAGE

1250

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
BE-7	103.	477.59	4.1526E-01
NA-22	38.	1274.53	6.3262E-02
NA-24	14.	1368.55	4.2211E-02
K-40	567.	1460.75	2.5545E+00
CR-51	203.	320.08	4.2271E-01
MN-54	56.	834.83	5.3076E-02
CO-56	69.	846.76	5.9722E-02
CO-57	440.	122.06	4.0779E-02
CO-58	39.	810.78	4.3434E-02
FE-59	35.	1099.25	9.4561E-02
CO-60	24.	1332.50	5.2258E-02
SE-75	292.	264.66	7.5169E-02
SR-85	99.	514.01	4.7003E-02
Y-88	5.	1836.06	3.1519E-02
NB-94	59.	871.09	5.6856E-02
ZRNB-95	57.	724.18	1.0710E-01
RU-103	99.	497.08	4.8037E-02
RURH-106	76.	621.93	9.4882E-01
AG-108m	48.	722.94	4.7389E-02
CD-109	400.	88.03	8.6983E-01
AG-110M	57.	657.76	4.5465E-02
SN-113	145.	391.69	6.6641E-02
TE-123m	435.	159.00	4.6202E-02
SB-124	71.	602.73	4.5207E-02
SB-125	113.	427.89	1.3888E-01
TE-125m	480.	109.27	1.2583E+01
I-131	175.	364.48	5.4295E-02
CS-134	89.	604.70	5.0780E-02
CS-137	87.	661.66	6.2728E-02
BA-140	93.	537.31	1.8614E-01
LA-140	7.	1596.21	3.3794E-02
CEPR-144	460.	133.51	6.6589E-01
EU-152	26.	1408.01	2.7322E-01
EU-154	38.	1274.51	1.8360E-01
EU-155	439.	105.31	1.5447E-01
HG-203	244.	279.20	5.1374E-02
TL-208	278.	277.36	7.0452E-01
BI-212	78.	727.18	8.2906E-01
PB-212	390.	238.63	1.0794E-01
BI-214	215.	609.31	1.7339E-01
PB-214	291.	351.92	2.7459E-01
RA-224	328.	240.99	1.0980E+00
RA-226	426.	186.10	1.1949E+00
AC-228	111.	911.21	3.0418E-01
TH-228	461.	84.37	2.6604E+00
TH-229	386.	88.47	1.2499E-01
PA-233	227.	312.17	1.1438E-01
UTH-233	290.	245.34	3.8684E+01
PA-234M	45.	1001.03	9.5203E-02
TH-234	283.	63.29	6.0671E-01
U-235	431.	185.71	7.3076E-02

WHC-SD-WM-DP-160, REV. 1

DATA
NOT USED
IN PACKAGE

Minimum Detectable Activity Report (continued)

Page : 4

Sample ID : S95T3120-SAM

Acquisition date : 13-FEB-1996 12:55:58

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
NP-237	426.	86.48	2.6121E-01
NP-239	437.	106.12	1.4774E-01
PU-239	466.	129.30	5.7369E+02
AM-241	308.	59.54	8.0782E-02
AM-243	515.	74.67	5.9592E-02

WHC-SD-WM-DP-160, REV. J

DATA
NOT USED
IN PACKAGE

* 222-S Laboratory Counting Room 13-FEB-1996 15:02:01.76 *

>>>>>>> SAMPLE INFORMATION <<<<<<<<<

Worklist #: 5660
Sample ID: S95T1003120-DUP
Sample Size: 1.00000E-03 L
Dilution Factor: 1.00000E+00

WHC-SD-WM-DP-160, REV. I

Removed by:

ALJ 2-13-96

>>>>>>> COUNT INFORMATION <<<<<<<<<

Detector ID: GEAL
File Number: dka300:[spec.GEAL]lg1397.cnf
Geometry: 41
Count Time: 0 00:50:00.00 sec
Real Time: 0 00:50:03.88 sec
Dead Time: 0.1%

Verified by:

Drachlor 2/13/96

>>>>>>> ANALYSIS INFORMATION <<<<<<<<<

Sample Count Time: 13-FEB-1996 14:11:17.66
Decayed to: 13-FEB-1996 14:11:17.66
Standard Deviations: 2
Analysis Library: ENVGEA
Analyst: SEH
Background Subtract: DKA300:[SPEC.GEAL]1GBACK

>>>>>>> CALIBRATION INFORMATION <<<<<<<<<

Date of last energy calibration: 13-DEC-1995 10:25:45.49
Date of last efficiency calibration: 13-DEC-1995 10:49:51.10

Post-NID Peak Search Report

***** No peaks found *****

DATA
NOT USED
IN PACKAGE

Summary of Nuclide Activity
Sample ID : S95T1003120-DUP

Page : 2
Acquisition date : 13-FEB-1996 14:11:17

**** There are no nuclides meeting summary criteria ****

Flags: "K" = Keyline not found
"E" = Manually edited

"M" = Manually accepted
"A" = Nuclide specific abn. limit

WHC-SD-WM-DP-160, REV. 1

DATA
NOT USED
IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
BE-7	112.	477.59	4.3361E-01
NA-22	29.	1274.53	5.5254E-02
NA-24	20.	1368.55	4.9524E-02
K-40	575.	1460.75	2.5735E+00
CR-51	220.	320.08	4.3989E-01
MN-54	67.	834.83	5.7874E-02
CO-56	43.	846.76	4.6883E-02
CO-57	517.	122.06	4.4221E-02
CO-58	80.	810.78	6.2087E-02
FE-59	45.	1099.25	1.0744E-01
CO-60	17.	1332.50	4.3972E-02
SE-75	280.	264.66	7.3505E-02
SR-85	99.	514.01	4.6998E-02
Y-88	6.	1836.06	3.4350E-02
NB-94	49.	871.09	5.1751E-02
ZRNB-95	81.	724.18	1.2802E-01
RU-103	115.	497.08	5.1767E-02
RURH-106	77.	621.93	9.5504E-01
AG-108m	65.	722.94	5.5202E-02
CD-109	405.	88.03	8.7532E-01
AG-110M	69.	657.76	5.0094E-02
SN-113	150.	391.69	6.7830E-02
TE-123m	421.	159.00	4.5478E-02
SB-124	59.	602.73	4.1094E-02
SB-125	131.	427.89	1.4934E-01
TE-125m	438.	109.27	1.2025E+01
I-131	135.	364.48	4.7734E-02
CS-134	63.	604.70	4.2672E-02
CS-137	82.	661.66	6.0770E-02
BA-140	88.	537.31	1.8137E-01
LA-140	11.	1596.21	4.2412E-02
CEPR-144	500.	133.51	6.9452E-01
EU-152	24.	1408.01	2.5853E-01
EU-154	29.	1274.51	1.6031E-01
EU-155	404.	105.31	1.4808E-01
HG-203	237.	279.20	5.0618E-02
TL-208	273.	277.36	6.9771E-01
BI-212	81.	727.18	8.4536E-01
PB-212	364.	238.63	1.0436E-01
BI-214	262.	609.31	1.9118E-01
PB-214	294.	351.92	2.7613E-01
RA-224	352.	240.99	1.1383E+00
RA-226	428.	186.10	1.1980E+00
AC-228	131.	911.21	3.3054E-01
TH-228	455.	84.37	2.6423E+00
TH-229	401.	88.47	1.2739E-01
PA-233	209.	312.17	1.0978E-01
UTH-233	289.	245.34	3.8637E+01
PA-234M	60.	1001.03	1.0935E-01
TH-234	303.	63.29	6.2799E-01
U-235	434.	185.71	7.3347E-02

WHC-SD-WM-DP-160, REV. 1

DATA
NOT USED
IN PACKAGE

Nuclide	Bckgnd Sum	Energy (keV)	MDA (uCi/L)
NP-237	400.	86.48	2.5304E-01
NP-239	422.	106.12	1.4518E-01
PU-239	456.	129.30	5.6746E+02
AM-241	321.	59.54	8.2500E-02
AM-243	496.	74.67	5.8463E-02

WHC-SD-WM-DP-160, REV. 1

DATA
NOT USED
IN PACKAGE

Westinghouse
Hanford Company

WHC-SD-WM-DP-160, REV. 1

P.O. Box 1970 Richland, WA 99352

PART II

WHC-SD-WM-DP-160, REV. 0

ANALYTICAL SERVICES

45-DAY SAFETY SCREENING RESULTS FOR TANK 241-B-204, PUSH MODE CORES 112 AND 114

Project Coordinator: LEELA M. SASAKI

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

by

Westinghouse Hanford Company
Box 1970
Richland, Washington

2-1

WHC-SD-WM-DP-160, REV. J

WHC-SD-WM-DP-160, REV. O Table of Contents

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This Document consists of pages 1 through 396, plus page 227.1.

WHC-SD-WM-DP-160, REV. 1

WHC-SD-WM-DP-160, REV. 0

NARRATIVE

2-3

SUMMARY

Two fourteen-segment push-mode core samples from tank 241-B-204, a field blank, and hydrostatic head fluid blank were received at the 222-S Laboratory. Core 112 was obtained from riser 2 and core 114 was obtained from riser 7. Hydrostatic head fluid, consisting of water with a lithium bromide tracer was used during the sampling of these cores. These samples underwent safety screening analyses - differential scanning calorimetry (DSC), thermogravimetric analysis (TGA), total alpha analysis, and bulk density measurements - in accordance with the sampling and analysis plan (Sasaki 1995). Bromide analysis by ion chromatography (IC) and lithium analysis by inductively coupled plasma atomic emission spectroscopy (ICP) are being performed to determine the amount of hydrostatic head fluid contamination in the samples; all lithium and bromide results currently available are also presented in this report.

No safety screening notification limits were exceeded on any of the B-204 samples. No exotherms were observed and the one-sided 95-percent confidence intervals for total alpha results were well below the notification limit. Tank vapor flammability was measured at 0 percent of the lower flammability limit (LFL).

SCOPE

This document serves as the 45-day report deliverable for the tank 241-B-204 core samples collected between October 11 and October 19, 1995. Each sample was received, extruded, and analyzed by the 222-S Laboratory in accordance with the referenced sampling and analysis plan (SAP) (Sasaki 1995). Any exceptions to the plan are discussed in the following sections.

This report includes the primary safety screening results (tank headspace flammability, DSC, TGA, total alpha, and bulk density or specific gravity) and copies of all DSC and TGA raw data scans as requested per the SAP. Although not required for the this 45-day report, all bromide and lithium results that have been completed to date are also included in this report. Photographs of the extruded segments were taken and, although not included in this report, are available.

SAMPLE RECEIPT AND EXTRUSION

Information on the receipt and extrusion of the core samples (sampling date, sample receipt date, extrusion date, amount of sample, sample description, and laboratory sample numbers) is provided in Table 1. The top two segments of core 112 and the top segment of core 114 contained drainable liquid; all remaining segments of the cores were full of smooth, soft, black sludge. No separable organic liquid was observed in any of the segments. One field blank and hydrostatic head fluid blank were delivered to the 222-S Laboratory with core 114. Each solid segment was divided into an upper and lower half for analysis.

WHC-SD-WM-DP-160, REV. 0-A

Table 1. Sample Receipt and Extrusion for Tank 241-B-204 Core Samples

Sample	Date Sampled	Date Received at Lab	Date Extruded	Sample Recovered	Sample Description	Sample Numbers
Core 112, Segment 1	10/11/95	10/12/95	10/16/95	Drainable Liquid: 150.1 g Liner Liquid: < 5 mL	The drainable liquid was clear and yellow in color. No solids were present. Estimated volume of the sample collected was 150 mL.	Drainable Liquid: S95T002976
Core 112, Segment 2	10/11/95	10/12/95	10/16/95	Solid: 40.2 g Drainable Liquid: 125.6 g Liner Liquid: 122.5 g	Drainable liquid was opaque and dark gray/black in color. Extruded approximately 3 to 4 inches of solids. Solids were wet and black in color. Solids were a sludge which did not retain its shape. No facies present in the solids.	Solid: S95T002977, S95T002979 S95T002980, S95T002981, S95T002987 Drainable Liquid: S95T002984 Liner Liquid: S95T002986
Core 112, Segment 3	10/12/95	10/12/95	10/16/95	Upper Half Solid: 167.2 g Lower Half Solid: 179.9 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. The top inch of the upper half contained a slurry. No facies present. No drainable liquid.	Upper Half Solid: S95T002988, S95T003037, S95T003061, S95T003085 Lower Half Solid: S95T002989, S95T003038, S95T003062, S95T003109
Core 112, Segment 4	10/12/95	10/12/95	10/16/95	Upper Half Solid: 183.3 g Lower Half Solid: 186.1 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T002991, S95T003039, S95T003063, S95T003087 Lower Half Solid: S95T002992, S95T003040, S95T003064, S95T003088, S95T003110
Core 112, Segment 5	10/12/95	10/12/95	10/16/95	Upper Half Solid: 176.5 g Lower Half Solid: 185.4 g Liner Liquid: none	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T002993, S95T003041, S95T003065, S95T003066, S95T003089 Lower Half Solid: S95T002994, S95T003042, S95T003090, S95T003111
Core 112, Segment 6	10/12/95	10/12/95	10/16/95	Upper Half Solid: 180.3 g Lower Half Solid: 175.0 g Liner Liquid: none	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T002995, S95T003043, S95T003067, S95T003091 Lower Half Solid: S95T002996, S95T003044, S95T003068, S95T003092, S95T003112
Core 112, Segment 7	10/12/95	10/13/95	10/18/95	Upper Half Solid: 179.6 g Lower Half Solid: 177.4 g Liner Liquid: none	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T002997, S95T003045, S95T003069, S95T003093 Lower Half Solid: S95T002998, S95T003046, S95T003070, S95T003094, S95T003113

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Sample	Date Sampled	Date Received at Lab	Date Extruded	Sample Recovered	Sample Description	Sample Numbers
Core 112, Segment 8	10/12/95	10/13/95	10/18/95	Upper Half Solid: 182.8 g Lower Half Solid: 184.0 g Liner Liquid: 7.4 g	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T002999, S95T003047, S95T003071, S95T003095 Lower Half Solid: S95T003000, S95T003048, S95T003072, S95T003096, S95T003114
Core 112, Segment 9	10/12/95	10/13/95	10/18/95	Upper Half Solid: 190.2 g Lower Half Solid: 176.9 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003001, S95T003049, S95T003073, S95T003097 Lower Half Solid: S95T003002, S95T003050, S95T003074, S95T003098, S95T003115
Core 112, Segment 10	10/12/95	10/13/95	10/18/95	Upper Half Solid: 206.4 g Lower Half Solid: 161.8 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003003, S95T003051, S95T003075, S95T003099 Lower Half Solid: S95T003004, S95T003052, S95T003076, S95T003100, S95T003116
Core 112, Segment 11	10/12/95	10/13/95	10/19/95	Upper Half Solid: 194.5 g Lower Half Solid: 183.6 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003005, S95T003053, S95T003077, S95T003101 Lower Half Solid: S95T003006, S95T003054, S95T003078, S95T003102, S95T003117
Core 112, Segment 12	10/13/95	10/13/95	10/19/95	Upper Half Solid: 192.0 g Lower Half Solid: 180.7 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003007, S95T003055, S95T003079, S95T003103 Lower Half Solid: S95T003088, S95T003056, S95T003080, S95T003104, S95T003118
Core 112, Segment 13	10/13/95	10/13/95	10/19/95	Upper Half Solid: 184.0 g Lower Half Solid: 191.7 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003009, S95T003057, S95T003081, S95T003105 Lower Half Solid: S95T003010, S95T003058, S95T003082, S95T003106, S95T003119
Core 112, Segment 14	10/13/95	10/13/95	10/18/95	Upper Half Solid: 197.4 g Lower Half Solid: 169.1 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003011, S95T003059, S95T003083, S95T003107 Lower Half Solid: S95T003012, S95T003060, S95T003084, S95T003108, S95T003120

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Sample	Date Sampled	Date Received at Lab	Date Extruded	Sample Recovered	Sample Description	Sample Numbers
Core 114, Segment 1	10/13/95	10/16/95	10/19/95	Drainable Liquid: 125.5 g Liner Liquid: < 20 mL	Drainable liquid was opaque and brownish gray in color. No solids were present. Estimated volume of the sample collected was 130 mL.	Drainable Liquid: S95T003255
Core 114, Segment 2	10/17/95	10/17/95	10/19/95	Upper Half Solid: 143.8 g Lower Half Solid: 178.7 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge. The bottom 15 inches pretty much maintained its shape but slumped slightly. The top 4 inches was very soft and did not keep its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003202, S95T003256, S95T003282, S95T003308 Lower Half Solid: S95T003203, S95T003257, S95T003283, S95T003309, S95T003334
Core 114, Segment 3	10/17/95	10/17/95	10/23/95	Upper Half Solid: 163.3 g Lower Half Solid: 162.0 g Liner Liquid: < 10 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003204, S95T003258, S95T003284, S95T003310 Lower Half Solid: S95T003205, S95T003259, S95T003284, S95T003311, S95T003335
Core 114, Segment 4	10/17/95	10/17/95	10/23/95	Upper Half Solid: 171.9 g Lower Half Solid: 172.8 g Liner Liquid: none	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003206, S95T003260, S95T003286, S95T003312 Lower Half Solid: S95T003207, S95T003261, S95T003287, S95T003313, S95T003336
Core 114, Segment 5	10/17/95	10/18/95	10/23/95	Upper Half Solid: 178.5 g Lower Half Solid: 165.3 g Liner Liquid: < 10 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003208, S95T003262, S95T003288, S95T003314 Lower Half Solid: S95T003209, S95T003263, S95T003289, S95T003315, S95T003337
Core 114, Segment 6	10/17/95	10/18/95	10/23/95	Upper Half Solid: 163.5 g Lower Half Solid: 176.0 g Liner Liquid: < 10 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape for most of the segment. The top 2 to 3 inches were softer and did not maintain its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003210, S95T003264, S95T003290, S95T003316 Lower Half Solid: S95T003211, S95T003265, S95T003291, S95T003317, S95T003338
Core 114, Segment 7	10/17/95	10/20/95	10/24/95	Upper Half Solid: 189.3 g Lower Half Solid: 167.0 g Liner Liquid: < 20 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003212, S95T003266, S95T003292, S95T003318 Lower Half Solid: S95T003213, S95T003267, S95T003293, S95T003319, S95T003339

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Sample	Date Sampled	Date Received at Lab	Date Extruded	Sample Recovered	Sample Description	Sample Numbers
Core 114, Segment 8	10/18/95	10/19/95	10/24/95	Upper Half Solid: 175.5 g Lower Half Solid: 183.5 g Liner Liquid: < 20 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003214, S95T003268, S95T003294, S95T003320 Lower Half Solid: S95T003215, S95T003269, S95T003295, S95T003321, S95T003340
Core 114, Segment 9	10/18/95	10/19/95	10/24/95	Upper Half Solid: 172.0 g Lower Half Solid: 191.1 g Liner Liquid: < 20 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003216, S95T003270, S95T003296, S95T003322 Lower Half Solid: S95T003217, S95T003271, S95T003297, S95T003323, S95T003341
Core 114, Segment 10	10/18/95	10/19/95	10/25/95	Upper Half Solid: 179.1 g Lower Half Solid: 186.5 g Liner Liquid: < 20 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003218, S95T003272, S95T003298, S95T003324 Lower Half Solid: S95T003219, S95T003273, S95T003299, S95T003325, S95T003342
Core 114, Segment 11	10/18/95	10/20/95	10/25/95	Upper Half Solid: 188.9 g Lower Half Solid: 176.0 g Liner Liquid: < 20 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003200, S95T003274, S95T003300, S95T003326 Lower Half Solid: S95T003221, S95T003275, S95T003301, S95T003327, S95T003343
Core 114, Segment 12	10/18/95	10/20/95	10/25/95	Upper Half Solid: 165.6 g Lower Half Solid: 198.6 g Liner Liquid: < 20 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003222, S95T003276, S95T003302, S95T003328 Lower Half Solid: S95T003223, S95T003277, S95T003303, S95T003329, S95T003344
Core 114, Segment 13	10/19/95	10/20/95	10/26/95	Upper Half Solid: 171.3 g Lower Half Solid: 198.2 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003224, S95T003278, S95T003304, S95T003330 Lower Half Solid: S95T003225, S95T003279, S95T003305, S95T003331, S95T003345
Core 114, Segment 14	10/19/95	10/20/95	10/26/95	Upper Half Solid: 195.5 g Lower Half Solid: 176.3 g Liner Liquid: < 5 mL	Extruded approximately 19 inches of solids. Solids were damp and black in color. Solids were a very soft sludge which retained its shape. No facies present. No drainable liquid.	Upper Half Solid: S95T003226, S95T003280, S95T003306, S95T003332 Lower Half Solid: S95T003227, S95T003281, S95T003307, S95T003333, S95T003346

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Sample	Date Sampled	Date Received at Lab	Date Extruded	Sample Recovered	Sample Description	Sample Numbers
Field Blank	N/A	10/18/95	10/23/95	Field Blank: 213.6 g Liner Liquid: none	The field blank was a clear liquid; no solids observed or collected.	Field Blank: S95T003349, S95T003770
Hydrostatic Head Fluid Blank	N/A	10/19/95	N/A	N/A	N/A	Liquid: S95T002952

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TANK HEADSPACE FLAMMABILITY

Prior to core sampling, the flammability of the tank headspace was measured to address the vapor flammability issue of the safety screening data quality objective (Dukelow, et al. 1995). The tank vapor space was sampled on October 11, 1995 in accordance with work package ES-95-00555 to determine the flammability of the vapor space gasses. Sampling was done through riser 2 at approximately 1 meter (3.3 feet) above the waste surface (4 meters (13 feet) below the top of the riser). The combustible gas meter reading was 0 percent of the LFL, indicating no flammability concerns with this tank. Other measurements made were oxygen (20.7 percent), total organic vapors (1.4 parts per million (ppm)), and ammonia (2 ppm).

ANALYTICAL RESULTS

Analytical results appear in the Sample Data Summary and a discussion of the results is presented below. Any deviations from the requirements of the SAP are noted in the following sections.

TGA (Moisture)

The weight percent water by TGA was performed under a nitrogen purge using either procedure LA-560-112, Rev B-1 on a Mettler TG 50 instrument or procedure LA-514-114, Rev. C-1 on a Perkin Elmer TGA 7 instrument.

Results ranged from 45.87 to 82.26 weight percent water for the solids with most results in the mid- to upper- 70 percent range. Drainable liquids ranged from 89.22 to 89.33 weight percent water. The one liner liquid sample that was analyzed had an average result of 98.14 weight percent water. All standards run with the samples fell within the required range of 90 to 110 percent. Relative percent differences (RPDs) between sample and duplicate analyses were below 10 percent for all but three samples. The RPDs for the three samples ranged from 11.4 to 33.5 percent; reruns were not requested as there were no exotherms observed in any of the DSC runs. However, because of the relatively low TGA result of 45.87 percent for sample S95T003278, a triplicate sample was run. The triplicate result was 74.58 percent, in better agreement with the other segments. The differences between the sample, duplicate, and triplicate are attributed to moisture quickly evaporating from the sample before the DSC scans begin.

Lithium bromide solution was used as a hydrostatic head fluid during sampling and may have contaminated the samples. Bromide and lithium results to date, indicate some contamination of the sample with the hydrostatic head fluid. When all lithium and bromide analyses are completed, sample moisture contents will be corrected for the hydrostatic head fluid intrusion and results will be presented in a revision to this report.

DSC

Differential scanning calorimetry analyses were performed using either procedure LA-514-113, Rev. C-1 under a nitrogen purge on a Mettler DSC 20 instrument or procedure LA-514-114, Rev. C-1 under a nitrogen purge on a Perkin Elmer DSC 7 instrument. The DSC scans from these two instruments show exotherms differently; exotherms on the Perkin Elmer are shown as downward peaks while the Mettler shows them as upward peaks. Using the average percent water by TGA for each sample, dry weight basis results were calculated from the wet weight basis results. Both wet and dry results are given in the Sample Data Summary.

No exotherms were observed in any of the waste samples. All standards run with the samples fell within the required range of 90 to 110 percent.

Total Alpha

The total alpha analyses were performed using procedure LA-508-101, Rev. D-2. Solid samples were prepared by fusion prior to the total alpha analysis; the fusion was performed using procedure LA-549-141, Rev. D-0.

Results ranged from 0.168 $\mu\text{Ci/g}$ to 0.458 $\mu\text{Ci/g}$ in the solids and 9.10E-05 to 1.19E-05 $\mu\text{Ci/mL}$ in the drainable liquids. Twenty of the 31 samples were rerun because of low spike recoveries or high RPDs. However, reruns generally provided results similar to the initial runs. The low sample activities and high dissolved solids in the samples resulted in high RPDs and low spike recoveries for the tank 241-B-204 samples. Standards ranged from 77.6 to 112.5 percent, with 6 standards outside the required ± 10 percent. Despite reruns, spike recoveries ranged from 28.6 to 96.43 percent with 19 samples outside the ± 10 percent limit and RPDs ranged from 1.10 to 67.5 percent with 14 RPDs above the 10 percent criterion.

The one-sided 95-percent upper confidence interval was calculated for samples where the total alpha results were above the detection limit. Results are presented in Table 2. The upper confidence intervals ranged from 9.42E-05 $\mu\text{Ci/mL}$ to 1.01 $\mu\text{Ci/g}$, all well below the notification limit of 41 $\mu\text{Ci/g}$.

Bulk Density and Specific Gravity

Bulk density measurements were performed on the solid samples using procedure LO-160-103, rev. A-7 and specific gravity measurements were performed on the liquid samples using procedure LA-510-112, Rev. C-3.

Bulk densities of the solids ranged from 1.14 to 1.38 g/mL, with most of the RPDs within the 10% required by the SAP; only one sample exceeded the 10 percent criterion with a RPD of 10.17 percent. No rerun was requested on this sample. A density of 1.5 g/mL is assumed in converting the total alpha notification limit from g/L of plutonium to $\mu\text{Ci/g}$. Since the density was well

Table 2. One-Sided 95-Percent Confidence Intervals for Total Alpha Results

Core, Segment, and Sample Portion	Sample Number	Sample	Duplicate	Mean	SD(mean)	UL(95%)
		($\mu\text{Ci/mL}$)	($\mu\text{Ci/mL}$)	($\mu\text{Ci/mL}$)	($\mu\text{Ci/mL}$)	($\mu\text{Ci/mL}$)
Core 112, Seg. 1, Drainable Liquid	S95T002976	1.36E-04	1.02e-04	1.19e-04	1.70e-05	2.26e-04
Core 112, Seg. 2, Drainable Liquid	S95T002984	9.75E-05	9.87e-05	9.81e-05	6.00e-07	1.02e-04
Core 114, Seg. 1, Drainable Liquid	S95T003255	9.05E-05	9.15e-05	9.10e-05	5.00e-07	9.42e-05
		($\mu\text{Ci/g}$)	($\mu\text{Ci/g}$)	($\mu\text{Ci/g}$)	($\mu\text{Ci/g}$)	($\mu\text{Ci/g}$)
Core 112, Seg. 2, Whole Segment	S95T002987	2.46E-01	2.39E-01	2.43E-01	3.50E-03	2.65E-01
Core 112, Seg. 3, Lower Half Solids	S95T003109	2.99E-01	3.22E-01	3.11E-01	1.15E-02	3.83E-01
Core 112, Seg. 4, Lower Half Solids	S95T003110	2.53E-01	2.85E-01	2.69E-01	1.60E-02	3.70E-01
Core 112, Seg. 5, Lower Half Solids	S95T003111	2.30E-01	2.39E-01	2.35E-01	4.50E-03	2.63E-01
Core 112, Seg. 6, Lower Half Solids	S95T003112	1.78E-01	2.20E-01	1.99E-01	2.10E-02	3.32E-01
Core 112, Seg. 7, Lower Half Solids	S95T003113	2.87E-01	2.14E-01	2.51E-01	3.65E-02	4.81E-01
Core 112, Seg. 8, Lower Half Solids	S95T003114	2.14E-01	4.32E-01	3.23E-01	1.09E-01	1.00E+00
Core 112, Seg. 9, Lower Half Solids	S95T003115	3.59E-01	3.24E-01	3.42E-01	1.75E-02	4.52E-01
Core 112, Seg. 10, Lower Half Solids	S95T003116	2.61E-01	2.79E-01	2.70E-01	9.00E-03	3.27E-01
Core 112, Seg. 11, Lower Half Solids	S95T003117	2.84E-01	2.71E-01	2.78E-01	6.50E-03	3.19E-01
Core 112, Seg. 12, Lower Half Solids	S95T003118	2.58E-01	2.68E-01	2.63E-01	5.00E-03	2.95E-01
Core 112, Seg. 13, Lower Half Solids	S95T003119	2.51E-01	2.45E-01	2.48E-01	3.00E-03	2.67E-01
Core 112, Seg. 14, Lower Half Solids	S95T003120	4.96E-01	4.19E-01	4.58E-01	3.85E-02	7.01E-01
Core 114, Seg. 2, Lower Half Solids	S95T003334	3.72E-01	3.23E-01	3.48E-01	2.45E-02	5.02E-01
Core 114, Seg. 3, Lower Half Solids	S95T003335	2.69E-01	2.80E-01	2.75E-01	5.50E-03	3.09E-01
Core 114, Seg. 4, Lower Half Solids	S95T003336	2.61E-01	2.82E-01	2.72E-01	1.05E-02	3.38E-01
Core 114, Seg. 5, Lower Half Solids	S95T003337	1.94E-01	1.82E-01	1.88E-01	6.00E-03	2.26E-01
Core 114, Seg. 6, Lower Half Solids	S95T003338	2.22E-01	1.82E-01	2.02E-01	2.00E-02	3.28E-01
Core 114, Seg. 7, Lower Half Solids	S95T003339	1.64E-01	1.74E-01	1.69E-01	5.00E-03	2.01E-01
Core 114, Seg. 8, Lower Half Solids	S95T003340	2.04E-01	2.42E-01	2.23E-01	1.90E-02	3.43E-01
Core 114, Seg. 9, Lower Half Solids	S95T003341	2.17E-01	2.36E-01	2.27E-01	9.50E-03	2.86E-01
Core 114, Seg. 10, Lower Half Solids	S95T003342	2.62E-01	2.98E-01	2.80E-01	1.80E-02	3.94E-01
Core 114, Seg. 11, Lower Half Solids	S95T003343	2.15E-01	2.47E-01	2.31E-01	1.60E-02	3.32E-01
Core 114, Seg. 12, Lower Half Solids	S95T003344	1.82E-01	2.43E-01	2.13E-01	3.05E-02	4.05E-01
Core 114, Seg. 13, Lower Half Solids	S95T003345	2.19E-01	2.45E-01	2.32E-01	1.30E-02	3.14E-01
Core 114, Seg. 14, Lower Half Solids	S95T003346	3.36E-01	3.29E-01	3.33E-01	3.50E-03	3.55E-01

below the 1.5 g/mL conservative density number used in the calculation, no rerun was requested. The specific gravities of the liquids ranged from 1.045 to 1.055 g/mL, with all RPDs ranging from 0.95 to 2.87 percent (below 20 percent required by the SAP). The standard recovery for the specific gravity measurement was 98.10 percent.

Bromide

Bromide analyses were performed by IC using procedure LA-533-105, Rev. D-1. Solid samples were prepared by a water digestion prior to the IC analysis; the water digestion was performed using procedure LA-504-101, Rev. D-0. Only 10 of 57 bromide analyses have been completed to date. Results indicate that the liner liquid sample for core 112, segment 2 (sample number S95T002986) is almost entirely hydrostatic head fluid. Other results range from $<267 \mu\text{g/mL}$ to $2,840 \mu\text{g/g}$, indicating some contamination of the samples by the hydrostatic head fluid. For these 10 samples, all RPDs, spike recoveries, and standards are within the requirements of the SAP. Complete results will be provided in a revision of this data package.

Lithium

Lithium analyses were performed by ICP using procedure LA-505-151, Rev. D-3 or LA-505-161, Rev. B-0. Only 6 of 57 lithium analyses have been completed to date. Results indicate that the liner liquid sample for core 112, segment 2 (sample number S95T002986) is almost entirely hydrostatic head fluid. Other results range from $<2.01 \mu\text{g/mL}$ to $125 \mu\text{g/g}$, indicating some contamination of the samples by the hydrostatic head fluid. For samples S95T002986 and S95T002952, the spike recoveries are poor (calculated values are negative) because the lithium concentration in the sample is about two orders of magnitude greater than the spike. When the sample concentration is greater than 4 times the spike, the error introduced in calculating the spike recovery becomes large. Spike recoveries for the other 4 samples are all within ± 10 percent. Standards are all within ± 10 percent and RPDs are all below 10 percent. Complete results will be provided in a revision of this data package.

Project Coordinator: Leela Sasaki

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SAMPLE DATA SUMMARY

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
D-204

CORE NUMBER: 112
SEGMENT #: 1

SEGMENT PORTION: Drainable Liquid

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002976		% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	89.33	89.12	89.22	0.24	n/a	n/a	n/a
S951002976		Specific Gravity	Sp.G.	None	None	99.10	n/a	1.060	1.050	1.055	0.95	n/a	1.00e-01	n/a
S951002976		DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+00	-480.0	100.4	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951002976		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	-780.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951002976		D Lithium-ICP-Acid Dil.	ug/ml	None	None	100.6	-2.00e-04	<2.01e+00	<2.01e0	n/a	n/a	97.50	2.010	n/a
S951002976		Bromide by Ion Chromatograph	ug/ml	None	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-04	n/a
S951002976		Alpha in Liquid Samples	ucf/ml	-1.0e+00	-41.00	77.60	<6.25e-06	1.36e-04	1.02e-04	1.19e-04	28.6	47.45	1.42e-05	1.47E+01

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 1
WHC-SD-WM-DP-160, REV. 0

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 2

SEGMENT PORTION: W Whole Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002977		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.170	1.160	1.165	0.86	n/a	5.00e-01	n/a
S95T002979		% Water by IGA using Mettler	%	None	None	101.0	n/a	79.15	79.05	79.10	0.13	n/a	n/a	n/a
S95T002979		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	230.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002979		DSC Exotherm using Mettler	Joules/g	-1.0e+00	230.0	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002980	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	n/a	0.00e+00	n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T002981	F	Bromide by Ion Chromatograph	ug/g	None	None	103.0	<1.26e-01	1.51e+03	1.73e+03	1.62e+03	13.6	101.3	296.3	n/a
S95T002987	F	Alpha of Digested Solid	uCi/g	-1.0e+00	6.1e+00	89.50	<1.30e-03	2.46e-01	2.39e-01	2.42e-01	2.89	69.13	1.58e-03	6.18E+00

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 1
WHC-SD-WM-DP-160, REV. 0

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 2

SEGMENT PORTION: Liner Liquid

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002986		% Water by TGA using Mettler	%	Lower: None Upper: None	101.5	n/a	98.19	98.10	98.14	0.09	n/a	n/a	n/a
S95T002986		Specific Gravity	Sp.G.	None	99.10	n/a	1.000	1.000	1.000	0.00	n/a	1.00e-02	n/a
S95T002986		DSC Exotherm Dry	Joules/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002986		DSC Exotherm using Mettler	Joules/g	-1.0e+00	107.2	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002986		D Lithium-ICP-Acid Dil.	ug/mL	None	99.80	2.00e-04	1.89e+03	1.81e+03	1.85e+03	4.32	-1.62e+02	2.10e-01	n/a
S95T002986		Bromide by Ion Chromatograph	ug/mL	None	99.13	<1.26e-01	2.33e+04	2.33e+04	2.33e+04	0.00	n/a	267.2	n/a
S95T002986		Alpha in Liquid Samples	uCi/mL	-1.0e+00	77.60	<6.25e-06	<6.25e-06	<6.25e-06	n/a	n/a	32.14	1.42e-05	5.00E+02

Drainable Liquid: Drainable Liquid

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002984		% Water by TGA on Perkin Elmer	%	Lower: None Upper: None	101.1	n/a	89.24	89.33	89.28	0.10	n/a	n/a	n/a
S95T002984		Specific Gravity	Sp.G.	None	99.10	n/a	1.050	1.060	1.055	0.95	n/a	1.00e-02	n/a
S95T002984		DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+00	100.4	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002984		DSC Exotherm Dry	Joules/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T002984		D Lithium-ICP-Acid Dil.	ug/mL	None	100.6	-2.00e-04	126.0	124.0	125.0	1.60	93.40	2.010	n/a
S95T002984		Bromide by Ion Chromatograph	ug/mL	None	99.13	<1.26e-01	1.68e+03	1.71e+03	1.69e+03	1.77	100.9	267.2	n/a
S95T002984		Alpha in Liquid Samples	uCi/mL	-1.0e+00	77.60	<6.25e-06	9.75e-05	9.87e-05	9.81e-05	1.22	46.43	1.42e-05	1.81E+01

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R/A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002988		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.190	1.210	1.200	1.67	n/a	5.00e-01	n/a
S951003037		% Water by TGA using Mettler	%	None	None	101.0	n/a	79.54	81.37	80.46	2.27	n/a	n/a	n/a
S951003037		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003037		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003061	A	Lithium - ICP-Acid Digest	ug/g	None	None	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003085	W	Bromide by Ion Chromatograph	ug/g	None	None	103.0	<1.26e-01	2.78e+03	2.90e+03	2.84e+03	4.23	n/a	1.00e-02	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R/A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002989		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.220	1.200	1.210	1.65	n/a	5.00e-01	n/a
S951003038		% Water by TGA using Mettler	%	None	None	100.4	n/a	77.62	78.23	77.93	0.78	n/a	n/a	n/a
S951003038		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003038		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003062	A	Lithium - ICP-Acid Digest	ug/g	None	None	103.3	n/a	359.9	n/a	n/a	n/a	n/a	1.00e-02	n/a
S951003086	W	Bromide by Ion Chromatograph	ug/g	None	None	103.3	<1.26e-01	2.99e-01	3.77e-01	3.68e-01	4.61	103.8	191.9	n/a
S951003109	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	89.58	<1.30e-03	2.99e-01	3.72e-01	3.10e-01	7.41	71.94	2.33e-03	4.53e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 4

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002991			Bulk Density of Sample	g/ml	Lower	Upper	n/a	n/a	1.200	1.200	1.200	0.00	n/a	5.00e-01	n/a
S951003039			% Water by IGA using Mettler	%	None	None	100.4	n/a	78.72	78.41	78.56	0.39	n/a	n/a	n/a
S951003039			DSC Exotherm Dry Calculated	Joules/g Dry	None	None	100.4	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003039			DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003063	A		Lithium - ICP-Acid Digest	ug/g	-1.0e+00	480.0	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003087	W		Bromide by Ion Chromatograph	ug/g	None	None	103.3	<1.26e-01	275.9	316.0	295.9	13.5	n/a	1.00e-02	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R	A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002992			Bulk Density of Sample	g/ml	Lower	Upper	n/a	n/a	1.150	1.160	1.155	0.87	n/a	5.00e-01	n/a
S951003040			% Water by IGA using Mettler	%	None	None	100.4	n/a	76.62	76.78	76.70	0.21	n/a	n/a	n/a
S951003040			DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003040			DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003064	A		Lithium - ICP-Acid Digest	ug/g	None	None	107.1	<1.26e-01	443.0	n/a	n/a	n/a	n/a	1.00e-02	n/a
S951003088	W		Bromide by Ion Chromatograph	ug/g	None	None	103.9	<1.28e-03	2.53e-01	442.0	442.5	0.23	99.36	158.3	n/a
S951003110	F		Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	103.9	<1.28e-03	2.53e-01	2.85e-01	2.69e-01	11.9	76.79	3.00e-03	5.10e+00

=> Limit Violated
=> Selected Limit

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WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 5

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S951002993		Bulk Density of Sample	g/ml	None	None	n/a	n/a	1.180	1.160	1.170	1.71	n/a	5.00e-01	n/a	n/a
S951003041		% Water by TGA using Mettler	%	None	None	100.4	n/a	71.32	76.70	74.01	7.27	n/a	n/a	n/a	n/a
S951003041		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	400.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S951003041		DSC Exotherm using Mettler	Joules/g	-1.0e+00	400.0	99.47	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S951003065	A	Lithium - ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a	n/a
S951003089	W	Bromide by Ion Chromatograph	ug/g	None	None	107.1	<1.26e-01	751.3	766.0	757.6	1.72	n/a	161.1	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S951002994		Bulk Density of Sample	g/ml	None	None	n/a	n/a	1.140	1.170	1.155	2.60	n/a	5.00e-01	n/a	n/a
S951003042		% Water by TGA using Mettler	%	None	None	100.4	n/a	79.35	79.80	79.57	0.57	n/a	n/a	n/a	n/a
S951003042		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	400.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S951003042		DSC Exotherm using Mettler	Joules/g	-1.0e+00	400.0	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S951003066	A	Lithium - ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a	n/a
S951003090	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-06	n/a	n/a
S951003111	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	103.9	<1.28e-03	2.30e-01	2.39e-01	2.34e-01	3.84	78.57	2.94e-03	5.24E+00	n/a

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 6

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T002995		Bulk Density of Sample	g/mL	Lower	Upper			1.240	1.220	1.230	1.63	n/a	5.00e-01	n/a	n/a
S95T003043		% Water by IGA using Mettler	%	None	None	100.4	n/a	72.54	77.90	75.22	7.13	n/a	n/a	n/a	n/a
S95T003043		DSC Exotherm Dry Calculated	Joules/g DRY	None	None		n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003043		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	90.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003067	A	Lithium -ICP-Acid Digest	ug/g	None	None		n/a						1.00e-02	n/a	n/a
S95T003091	U	Bromide by Ion Chromatograph	ug/g	None	None		n/a						1.00e-04	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T002996		Bulk Density of Sample	g/mL	Lower	Upper			1.220	1.190	1.205	2.49	n/a	5.00e-01	n/a	n/a
S95T003044		% Water by IGA using Mettler	%	None	None	100.4	n/a	78.42	78.24	78.33	0.23	n/a	n/a	n/a	n/a
S95T003044		DSC Exotherm Dry Calculated	Joules/g DRY	None	None		n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003044		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003068	A	Lithium -ICP-Acid Digest	ug/g	None	None		n/a						1.00e-02	n/a	n/a
S95T003092	U	Bromide by Ion Chromatograph	ug/g	None	None		n/a						1.00e-04	n/a	n/a
S95T003112	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	99.22	<3.48e-03	1.78e-01	2.20e-01	1.99e-01	21.1	64.06	4.71e-03	8.40E+00	n/a

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 1

WHC-SD-WM-DP-160, REV. 0

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INTERIM

45-Day Safety Screening Results for Cores 112 and 114
0-204

CORE NUMBER: 112
SEGMENT #: 7

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002997		Bulk Density of Sample	g/mL	Lower	Upper	n/a	1.220	1.250	1.235	2.43	n/a	5.00e-01	n/a
S951003045		% Water by TGA using Mettler	%	None	None	n/a	79.13	78.25	78.69	1.12	n/a	n/a	n/a
S951003045		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003045		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003069	A	Lithium - ICP-Acid Digest	ug/g	None	None	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S951003093	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a			n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S951002998		Bulk Density of Sample	g/mL	Lower	Upper	n/a	1.200	1.200	1.200	0.00	n/a	5.00e-01	n/a
S951003046		% Water by TGA on Perkin Elmer	%	None	None	n/a	75.26	75.45	75.36	0.25	n/a	n/a	n/a
S951003046		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003046		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S951003070	A	Lithium - ICP-Acid Digest	ug/g	None	None	n/a			n/a	n/a	n/a	1.00e-02	n/a
S951003094	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a			n/a	n/a	n/a	1.00e-04	n/a
S951003113	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	<3.48e-03	2.87e-01	2.14e-01	2.51e-01	29.1	75.45	5.04e-03	7.16E+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 8

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002999		Bulk Density of Sample	g/mL	Lower	Upper									
S95T003047		% Water by TGA on Perkin Elmer	%	None	None	n/a	n/a	1.230	1.250	1.240	1.61	n/a	5.00e-01	n/a
S95T003047		DSC Exotherm Dry Calculated	Joules/g	None	None	101.1	n/a	77.48	78.95	78.22	1.88	n/a	n/a	n/a
S95T003047		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003071	A	Lithium -ICP-Acid Digest	ug/g	-1.0e+00	480.0	98.07	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003095	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
				None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003000		Bulk Density of Sample	g/mL	Lower	Upper									
S95T003048		% Water by TGA on Perkin Elmer	%	None	None	n/a	n/a	1.160	1.200	1.180	3.39	n/a	5.00e-01	n/a
S95T003048		DSC Exotherm on Perkin Elmer	Joules/g	None	None	101.2	n/a	67.37	78.38	72.88	15.1	n/a	n/a	n/a
S95T003048		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	480.0	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003072	A	Lithium -ICP-Acid Digest	ug/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003096	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003114	F	Alpha of Digested Solid	UCi/g	-1.0e+00	480.0	109.24	<3.40e-03	2.14e-01	4.32e-01	3.23e-01	67.5	91.52	6.09e-03	8.49e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 9

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003001		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.190	1.190	1.190	0.00	n/a	5.00e-01	n/a
S95T003049		% Water by TGA on Perkin Elmer	%	None	None	101.2	n/a	76.86	74.70	75.78	2.85	n/a	n/a	n/a
S95T003049		DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+00	480.0	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003049		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003073	A	Lithium - ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003097	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003002		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.200	1.200	1.200	0.00	n/a	5.00e-01	n/a
S95T003050		% Water by TGA on Perkin Elmer	%	None	None	101.2	n/a	78.64	77.93	78.28	0.91	n/a	n/a	n/a
S95T003050		DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+00	480.0	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003050		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003074	A	Lithium - ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003098	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003115	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	109.6	<3.40e-03	3.59e-01	3.24e-01	3.42e-01	10.2	96.43	6.12e-03	6.77E+00

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 10

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003003		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.270	1.280	1.275	0.78	n/a	5.00e-01	n/a
S95T003051		% Water by IGA using Mettler	%	None	100.4	n/a	76.06	77.66	76.86	2.08	n/a	n/a	n/a
S95T003051		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003051		DSC Exotherm using Mettler	Joules/g	-1.0e+00	107.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003075	A	Lithium -ICP-Acid Digest	ug/g	None	n/a	n/a			n/a	n/a	n/a	1.00e-02	n/a
S95T003099	V	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a			n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003004		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.210	1.210	1.210	0.00	n/a	5.00e-01	n/a
S95T003052		% Water by IGA using Mettler	%	None	102.4	n/a	79.02	76.85	77.94	2.78	n/a	n/a	n/a
S95T003052		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003052		DSC Exotherm using Mettler	Joules/g	-1.0e+00	107.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003076	A	Lithium -ICP-Acid Digest	ug/g	None	n/a	n/a			n/a	n/a	n/a	1.00e-02	n/a
S95T003100	V	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a			n/a	n/a	n/a	1.00e-04	n/a
S95T003116	F	Alpha of Digested Solid	uCi/g	-1.0e+00	108.3	<2.53e-03	2.61e-01	2.79e-01	2.70e-01	6.67	94.90	3.44e-03	6.97E+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 1

WHC-SD-WM-DP-160, REV. 0

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 11

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003005		Bulk Density of Sample	g/ml	Lower	Upper		n/a	1.250	1.200	1.225	4.08	n/a	5.00e-01	n/a
S95T003053		% Water by TGA on Perkin Elmer	%	None	None		n/a	78.22	76.60	77.41	2.09	n/a	n/a	n/a
S95T003053		DSC Exotherm on Perkin Elmer	Joules/g	None	None	101.1	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003053		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	480.0	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003077	A	Lithium - ICP-Acid Digest	ug/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003101	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-06	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003006		Bulk Density of Sample	g/ml	Lower	Upper		n/a	1.140	1.140	1.140	0.00	n/a	5.00e-01	n/a
S95T003054		% Water by TGA on Perkin Elmer	%	None	None		n/a	78.56	76.57	77.56	2.57	n/a	n/a	n/a
S95T003054		DSC Exotherm on Perkin Elmer	Joules/g	None	None	101.1	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003054		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	480.0	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003078	A	Lithium - ICP-Acid Digest	ug/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003102	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-06	n/a
S95T003117	F	Alpha of Digested Solid	uc/g	-1.0e+00	41.00	103.9	<2.42e-03	2.84e-01	2.71e-01	2.77e-01	4.68	94.20	5.65e+00	6.45E+00

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 12

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T003007		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.360	1.320	1.340	2.99	n/a	5.00e-01	n/a	n/a
S95T003055		% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	78.59	76.96	77.78	2.10	n/a	n/a	n/a	n/a
S95T003055		DSC Exotherm on Perkin Elmer	Joules/g	None	None	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003055		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003079	A	Lithium - ICP-Acid Digest	ug/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003103	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a	n/a
				None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-06	n/a	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count	Err%
S95T003008		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.230	1.250	1.240	1.61	n/a	5.00e-01	n/a	n/a
S95T003056		% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	76.53	75.85	76.19	0.89	n/a	n/a	n/a	n/a
S95T003056		DSC Exotherm on Perkin Elmer	Joules/g	None	None	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003056		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003080	A	Lithium - ICP-Acid Digest	ug/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a	n/a
S95T003104	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a	n/a
S95T003118	F	Alpha of Digested Solid	uCi/g	-1.0e+00	44.00	103.9	<2.42e-03	2.50e-01	2.60e-01	2.63e-01	3.80	88.39	5.78e-06	6.96e+00	n/a

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 13

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003009		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.270	1.260	1.265	0.79	n/a	5.00e-01	n/a
S95T003057		% Water by TGA on Perkin Elmer	%	None	101.1	n/a	78.39	78.31	78.35	0.10	n/a	n/a	n/a
S95T003057		DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+00	101.6	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003057		DSC Exotherm DRY Calculated	Joules/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003081	A	Lithium -ICP-Acid Digest	ug/g	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003105	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003010		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.260	1.260	1.270	1.57	n/a	5.00e-01	n/a
S95T003058		% Water by TGA on Perkin Elmer	%	None	101.2	n/a	78.17	78.78	78.47	0.78	n/a	n/a	n/a
S95T003058		DSC Exotherm on Perkin Elmer	Joules/g	-1.0e+00	97.02	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003058		DSC Exotherm DRY Calculated	Joules/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003082	A	Lithium -ICP-Acid Digest	ug/g	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003106	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003119	F	Alpha of Digested Solid	UCI/g	-1.0e+00	106.2	<6.27e-03	2.51e-01	2.45e-01	2.48e-01	2.42	92.86	4.76e-03	7.30e+00

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 112
SEGMENT #: 14

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003011		Bulk Density of Sample	g/mL	None	n/a	n/a	1.190	1.180	1.185	0.84	n/a	5.00e-01	n/a
S95T003059		% Water by IGA on Perkin Elmer	%	None	101.2	n/a	71.02	76.12	73.57	6.93	n/a	n/a	n/a
S95T003059		DSC Exotherm on Perkin Elmer	Joules/g	None	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003059		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003083		Lithium -ICP-Acid Digest	ug/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003107		Bromide by Ion Chromatograph	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003012		Bulk Density of Sample	g/mL	None	n/a	n/a	1.380	1.380	1.380	0.00	n/a	5.00e-01	n/a
S95T003060		% Water by IGA on Perkin Elmer	%	None	101.2	n/a	76.17	77.86	77.02	2.19	n/a	n/a	n/a
S95T003060		DSC Exotherm on Perkin Elmer	Joules/g	None	97.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003060		DSC Exotherm Dry Calculated	Joules/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003084		Lithium -ICP-Acid Digest	ug/g	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003108		Bromide by Ion Chromatograph	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003120		Alpha of Digested Solid	uci/g	-1.0e+00	106.2	<4.27e-03	4.96e-01	4.19e-01	4.58e-01	16.8	86.73	4.98e-03	5.14e+00

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 1

SEGMENT PORTION: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003255			% Water by TGA using Mettler	%	Lower	Upper	101.0	n/a	89.20	88.56	88.88	0.72	n/a	n/a	n/a
S95T003255			Specific Gravity		None	None	99.10	n/a	1.030	1.060	1.045	2.87	n/a	1.00e-02	n/a
S95T003255			DSC Exotherm Dry Calculated	Sp.G.	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003255			DSC Exotherm using Mettler	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003255			DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	102.3	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003255			D Lithium-TCP-Acid Dil.	ug/mL	None	None	100.2	6.50e-04	4.160	4.020	4.090	3.42	94.80	1.010	n/a
S95T003255			Bromide by Ion Chromatograph	ug/mL	None	None	96.52	<1.26e-01	<2.672e+0	<2.67e2	n/a	n/a	97.28	267.2	n/a
S95T003255			Alpha in Liquid Samples	uCi/mL	-1.0e+00	41.00	107.8	<7.65e-07	9.05e-05	9.15e-05	9.10e-05	1.10	76.79	1.02e-06	8.06E+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003202		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.200	1.170	1.185	2.53	n/a	5.00e-01	n/a
S95T003256		% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	78.00	80.86	79.43	3.60	n/a	n/a	n/a
S95T003256		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003256		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	98.77	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003282	A	Lithium - ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003308	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003203		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.150	1.170	1.160	1.72	n/a	5.00e-01	n/a
S95T003257		% Water by TGA on Perkin Elmer	%	None	None	101.1	n/a	80.93	81.14	81.03	0.26	n/a	n/a	n/a
S95T003257		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003257		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	98.77	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003283	A	Lithium - ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003309	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003334	F	Alpha of Digested Solid	uc/g	-1.0e+00	41.00	108.3	<2.53e-03	3.72e-01	3.23e-01	3.48e-01	14.1	95.92	3.81e-03	6.07e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 3

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003204		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.150	1.190	1.170	3.42	n/a	5.00e-01	n/a
S95T003258		% Water by TGA using Mettler	%	None	None	102.4	n/a	80.99	81.59	81.29	0.74	n/a	n/a	n/a
S95T003258		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003258		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003284	A	Lithium -ICP-Acid Digest	ug/g	-1.0e+00	480.0	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003310	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003205		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.160	1.160	1.160	0.00	n/a	5.00e-01	n/a
S95T003259		% Water by TGA using Mettler	%	None	None	102.4	n/a	81.36	80.30	80.83	1.31	n/a	n/a	n/a
S95T003259		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003259		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003285	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003311	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003335	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	103.1	<3.70e-03	2.69e-01	2.80e-01	2.75e-01	4.01	93.62	4.84e-03	6.52e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 4

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003206		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.150	1.150	1.150	0.00	n/a	5.00e-01	n/a
S95T003260	1	% Water by IGA on Perkin Elmer	%	None	100.6	n/a	78.64	76.94	77.79	2.19	n/a	n/a	n/a
S95T003260		% Water by IGA on Perkin Elmer	%	None	101.1	n/a	76.22	54.36	65.29	33.5	n/a	n/a	n/a
S95T003260		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003260		DSC Exotherm using Mettler	Joules/g	-1.0e+00	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003286	A	Lithium - ICP-Acid Digest	ug/g	None	n/a	n/a			n/a	n/a	n/a	1.00e-02	n/a
S95T003312	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a			n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003207		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.150	1.190	1.170	3.42	n/a	5.00e-01	n/a
S95T003261		% Water by IGA using Mettler	%	None	100.5	n/a	80.24	79.88	80.06	0.45	n/a	n/a	n/a
S95T003261		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003261		DSC Exotherm using Mettler	Joules/g	-1.0e+00	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003287	A	Lithium - ICP-Acid Digest	ug/g	None	n/a	n/a			n/a	n/a	n/a	1.00e-02	n/a
S95T003313	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a			n/a	n/a	n/a	1.00e-04	n/a
S95T003336	F	Alpha of Digested Solid	UC/g	-1.0e+00	106.2	<3.28e-03	2.61e-01	2.82e-01	2.71e-01	7.73	93.62	5.20e-03	7.13e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 5

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003208		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.200	1.120	1.160	6.90	n/a	5.00e-01	n/a
S95T003262		% Water by IGA using Mettler	%	None	None	100.5	n/a	81.55	81.50	81.53	0.06	n/a	n/a	n/a
S95T003262		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003262		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003288	A	Lithium - ICP-Acid Digest	ug/g	-1.0e+00	480.0	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003314		Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003209		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.200	1.160	1.180	3.39	n/a	5.00e-01	n/a
S95T003263		% Water by IGA using Mettler	%	None	None	100.5	n/a	72.88	81.70	77.29	11.4	n/a	n/a	n/a
S95T003263		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003263		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003289	A	Lithium - ICP-Acid Digest	ug/g	None	None	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003315		Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003337	F	Alpha of Digested Solid	ug/g	-1.0e+00	41.00	98.96	<2.96e-03	1.94e-01	1.82e-01	1.88e-01	6.38	93.62	6.68e-03	7.78e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 6

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003210		Bulk Density of Sample	g/ml	None	n/a	n/a	1.190	1.100	1.145	7.86	n/a	5.00e-01	n/a
S95T003264		% Water by TGA using Mettler	%	None	100.5	n/a	78.08	74.93	76.50	4.12	n/a	n/a	n/a
S95T003264		DSC Exotherm DRY Calculated	Joules/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003264		DSC Exotherm using Mettler	Joules/g	-1.0e+00	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003290	A	Lithium - ICP-Acid Digest	ug/g	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003316	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003211		Bulk Density of Sample	g/ml	None	n/a	n/a	1.120	1.240	1.180	10.2	n/a	5.00e-01	n/a
S95T003265		% Water by TGA using Mettler	%	None	100.5	n/a	82.78	81.74	82.26	1.26	n/a	n/a	n/a
S95T003265		DSC Exotherm DRY Calculated	Joules/g	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003265		DSC Exotherm using Mettler	Joules/g	-1.0e+00	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003291	A	Lithium - ICP-Acid Digest	ug/g	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003317	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003338	F	Alpha of Digested Solid	uCi/g	-1.0e+00	98.96	<9.27e-03	2.22e-01	1.82e-01	2.02e-01	19.8	89.54	5.83e-03	7.67E+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
8-204

CORE NUMBER: 114
SEGMENT #: 7

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003212		Bulk Density of Sample	g/ml	Lower: None Upper: None	n/a	n/a	1.170	1.160	1.165	0.86	n/a	5.00e-01	n/a
S95T003266		% Water by IGA using Mettler	%	None	100.5	n/a	79.93	76.45	78.19	4.45	n/a	n/a	n/a
S95T003266		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003266		DSC Exotherm using Mettler	Joules/g	-1.0e+00	92.44	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003292	A	Lithium - ICP-Acid Digest	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003318	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003213		Bulk Density of Sample	g/ml	Lower: None Upper: None	n/a	n/a	1.180	1.150	1.165	2.58	n/a	5.00e-01	n/a
S95T003267		% Water by IGA using Mettler	%	None	100.4	n/a	81.30	81.18	81.24	0.15	n/a	n/a	n/a
S95T003267		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003267		DSC Exotherm using Mettler	Joules/g	-1.0e+00	92.09	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003293	A	Lithium - ICP-Acid Digest	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003319	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003339	F	Alpha of Digested Solid	uc/g	-1.0e+00	98.96	<9.27e-03	1.64e-01	1.74e-01	1.69e-01	5.92	86.73	5.77e-03	8.74e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. I

WHC-SD-WM-DP-160, REV. 0

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 8

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003214		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.190	1.160	1.175	2.55	n/a	5.00e-01	n/a
S95T003268		% Water by TGA using Mettler	%	None	None	100.3	n/a	80.15	79.76	79.96	0.49	n/a	n/a	n/a
S95T003268		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003268		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	99.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003294	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003320	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003215		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.180	1.170	1.175	0.85	n/a	5.00e-01	n/a
S95T003269		% Water by TGA using Mettler	%	None	None	100.3	n/a	79.78	79.12	79.45	0.83	n/a	n/a	n/a
S95T003269		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003269		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	99.82	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003295	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003321	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003340	F	Alpha of Digested Solid	uci/g	-1.0e+00	48.00	103.1	<3.70e-03	2.04e-01	2.42e-01	2.23e-01	17.0	98.72	5.00e-03	7.71E+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 9

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003216		Bulk Density of Sample	g/ml	Lower	Upper	n/a	1.180	1.160	1.170	1.71	n/a	5.00e-01	n/a
S95T003270		% Water by TGA using Mettler	%	None	None	n/a	80.08	78.54	79.31	1.94	n/a	n/a	n/a
S95T003270		DSC Exotherm DRY Calculated	Joules/g Dry	None	None	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003270		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003296	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003322	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003217		Bulk Density of Sample	g/ml	Lower	Upper	n/a	1.180	1.150	1.165	2.58	n/a	5.00e-01	n/a
S95T003271		% Water by TGA using Mettler	%	None	None	n/a	78.59	78.93	78.76	0.43	n/a	n/a	n/a
S95T003271		DSC Exotherm DRY Calculated	Joules/g Dry	None	None	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003271		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003297	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003323	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003341	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	<2.23e-03	2.17e-01	2.36e-01	2.26e-01	8.39	85.46	3.62e-03	9.15E+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 10

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003218		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.150	1.160	1.155	0.87	n/a	5.00e-01	n/a
S95T003272		% Water by IGA using Mettler	%	None	None	102.4	n/a	79.70	80.46	80.08	0.95	n/a	n/a	n/a
S95T003272		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003272		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003298	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003324	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003219		Bulk Density of Sample	g/mL	None	None	n/a	n/a	1.180	1.160	1.170	1.71	n/a	5.00e-01	n/a
S95T003273		% Water by IGA on Perkin Elmer	%	None	None	101.1	n/a	78.97	79.13	79.05	0.20	n/a	n/a	n/a
S95T003273		DSC Exotherm Dry Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003273		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	106.9	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003299	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003325	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003342	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	99.48	1.97e-03	2.62e-01	2.98e-01	2.80e-01	12.9	91.33	3.04e-03	6.54e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

2-40

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 11

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003220		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.140	1.180	1.160	3.45	n/a	5.00e-01	n/a
S95T003276		% Water by IGA using Mettler	%	None	101.3	n/a	75.76	77.96	76.86	2.86	n/a	n/a	n/a
S95T003274		DSC Exotherm Dry Calculated	Joules/g Dry	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003276		DSC Exotherm using Mettler	Joules/g	-1.0e+00 -1.0e+00	107.2	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003300	A	Lithium -ICP-Acid Digest	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003326	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003221		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.170	1.170	1.170	0.00	n/a	5.00e-01	n/a
S95T003275		% Water by IGA using Mettler	%	None	101.3	n/a	79.30	79.11	79.20	0.24	n/a	n/a	n/a
S95T003275		DSC Exotherm Dry Calculated	Joules/g Dry	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003275		DSC Exotherm using Mettler	Joules/g	-1.0e+00 -1.0e+00	107.2	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003301	A	Lithium -ICP-Acid Digest	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003327	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003343	F	Alpha of Digested Solid	uCi/g	-1.0e+00 -1.0e+00	99.48	1.97e-03	2.15e-01	2.47e-01	2.31e-01	13.9	89.29	3.42e-03	7.62e+00

=> Limit Violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 12

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003222		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.190	1.190	1.190	0.00	n/a	5.00e-01	n/a
S95T003276		% Water by TGA using Mettler	%	None	None	101.3	n/a	79.60	79.46	79.53	0.18	n/a	n/a	n/a
S95T003276		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003276		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	103.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003302	A	Lithium -ICP-Acid Digest	ug/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003328	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003223		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.160	1.150	1.155	0.87	n/a	5.00e-01	n/a
S95T003277		% Water by TGA using Mettler	%	None	None	101.3	n/a	77.87	78.56	78.22	0.88	n/a	n/a	n/a
S95T003277		DSC Exotherm Dry Calculated	Joules/g Dry	None	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003277		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	103.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003303	A	Lithium -ICP-Acid Digest	ug/g	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	1.00e-02	n/a
S95T003329	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003344	F	Alpha of Digested Solid	ucit/g	-1.0e+00	41.00	112.5	<8.55e-04	1.82e-01	2.43e-01	2.12e-01	28.7	78.06	1.16e-03	3.67e+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 13

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003224		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.190	1.130	1.160	5.17	n/a	5.00e-01	n/a
S95T003278		% Water by TGA using Mettler	%	None	101.6	n/a	50.78	40.95	45.87	21.4	n/a	n/a	n/a
S95T003278		DSC Exotherm Dry Calculated	Joules/g Dry	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003278		DSC Exotherm using Mettler	Joules/g	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003304	A	Lithium -ICP-Acid Digest	ug/g	-1.0e+00	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003330	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003330				None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-04	n/a

L Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003225		Bulk Density of Sample	g/mL	Lower: None Upper: None	n/a	n/a	1.190	1.240	1.215	4.12	n/a	5.00e-01	n/a
S95T003279		% Water by TGA using Mettler	%	None	101.6	n/a	77.56	78.29	77.93	0.94	n/a	n/a	n/a
S95T003279		DSC Exotherm Dry Calculated	Joules/g Dry	None	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003279		DSC Exotherm using Mettler	Joules/g	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003305	A	Lithium -ICP-Acid Digest	ug/g	-1.0e+00	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003331	W	Bromide by Ion Chromatograph	ug/g	None	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003345	F	Alpha of Digested Solid	ug/g	-1.0e+00	96.88	<3.35e-03	2.19e-01	2.45e-01	2.32e-01	11.2	78.83	5.46e-03	7.25E+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

Note: A triplicate TGA run was performed on sample S95T003278. Result was 74.48%.
Average of three results is 55.44% and standard deviation is 17.29%.

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: 14

SEGMENT PORTION: U Upper Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003226		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.190	1.200	1.195	0.84	n/a	5.00e-01	n/a
S95T003280		% Water by TGA using Mettler	%	None	None	101.6	n/a	77.00	78.05	77.53	1.35	n/a	n/a	n/a
S95T003280		DSC Exotherm DRY Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003280		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003306	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003332	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a

Lower Half of Segment: L Lower Half of Segment

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003227		Bulk Density of Sample	g/mL	Lower	Upper	n/a	n/a	1.180	1.220	1.200	3.33	n/a	5.00e-01	n/a
S95T003281		% Water by TGA using Mettler	%	None	None	101.6	n/a	77.15	76.67	76.91	0.62	n/a	n/a	n/a
S95T003281		DSC Exotherm DRY Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003281		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003307	A	Lithium -ICP-Acid Digest	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-02	n/a
S95T003333	W	Bromide by Ion Chromatograph	ug/g	None	None	n/a	n/a		n/a	n/a	n/a	n/a	1.00e-04	n/a
S95T003346	F	Alpha of Digested Solid	uCi/g	-1.0e+00	41.00	96.89	<3.35e-03	3.36e-01	3.29e-01	3.33e-01	2.11	77.30	5.53e-03	5.86E+00

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204

CORE NUMBER: 114
SEGMENT #: HHF blank

SEGMENT PORTION: Hydrostatic Head Fluid

Sample#	R	AI#	Analyte	Unit	Action Limits			Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T002952	D		Lithium-Icp-Acid Dil.	ug/mL	None	None	None	103.6	-2.36e-03	1.97e+03	1.98e+03	1.98e+03	0.51	-1.48e+02	1.10e-01	n/a
S95T002952			Bromide by Ion Chromatograph	ug/mL	None	None	None	n/a	n/a			n/a	n/a	n/a	1.00e-04	n/a

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INTERIM

45-Day Safety Screening Results for Cores 112 and 114
B-204CORE NUMBER: 114
SEGMENT #: field blank

SEGMENT PORTION: Field Blank

Sample#	R A#	Analyte	Unit	Action Limits		Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T003349		% Water by TGA on Perkin Elmer	%	None	None	97.39	n/a	99.73	99.57	99.65	0.16	n/a	n/a	n/a
S95T003349		Specific Gravity	Sp.G.	None	None	99.10	n/a	1.000	1.000	1.000	0.00	n/a	1.00e-02	n/a
S95T003349		DSC Exotherm DRY Calculated	Joules/g Dry	-1.0e+00	480.0	n/a	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003349		DSC Exotherm using Mettler	Joules/g	-1.0e+00	480.0	102.3	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S95T003349		Bromide by Ion Chromatograph	ug/ml	None	None	96.52	<1.26e-01	<1.30e+0	<1.39e0	n/a	n/a	n/a	1.386	n/a
S95T003349		Alpha in Liquid Samples	uCi/ml	-1.0e+00	41.00	107.8	<7.65e-07	<7.65e-07	1.51e-06	n/a	n/a	112.3	1.02e-06	1.84E+02
S95T003770	D	Lithium-ICP-Acid Dil.	ug/ml	None	None	96.80	<1.00e-02	<1.00e-02	<1.00e-2	n/a	n/a	100.8	1.00e-02	n/a

=> Limit violated
=> Selected Limit

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

WHC-SD-WM-DP-160, REV. 0

WHC-SD-WM-DP-160, REV. 1

INORGANIC ANALYSES

LABCORE Data Entry Template for Worklist#

3085

Analyst: PJM Instrument: DSC0 1 Book # 12N14B

Method: LA-514-113 Rev/Mod C-1 WHC-SD-WM-DP-160, REV. 1

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>28.9</u>	<u>N/A</u>	Joules/g
95000158	B-204	2 SAMPLE	S95T002979	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	3 DUP	S95T002979	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000158	B-204	4 SAMPLE	S95T003037	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	5 DUP	S95T003037	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
		6 STD			DSC-01	SOLID	<u>28.45</u>	<u>30.1</u>	<u>N/A</u>	Joules/g
95000158	B-204	7 SAMPLE	S95T003038	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	8 DUP	S95T003038	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000158	B-204	9 SAMPLE	S95T003039	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	10 DUP	S95T003039	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000158	B-204	11 SAMPLE	S95T003040	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
		12 STD			DSC-01	SOLID	<u>28.45</u>	<u>28.3</u>	<u>N/A</u>	Joules/g
95000158	B-204	13 DUP	S95T003040	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000158	B-204	14 SAMPLE	S95T003041	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	15 DUP	S95T003041	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist #

3085

See attached for signatures
Verified by *Blandina Valenzuela*
Data Entry Comments: *12/1/95*

RLH *11/30/95*

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#

3085

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date					Analyst Signature		Date	

S95T002979 produced an endotherm at 97.3°C with a delta H of 817.7 J/g.

S95T003037 produced an endotherm at 103.3°C with a delta H of 1708.6 J/g

S95T003038 produced an endotherm at 100.0°C with a delta H of 1478.3 J/g

S95T003039 produced an endotherm at 103.3°C with a delta H of 1032.2 J/g.

S95T003040 produced an endotherm at 95.3°C with a delta H of 1396.6 J/g

S95T003041 produced an endotherm at 103.3°C with a delta H of 1344.7 J/g.

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#

3085

Analyst: Blue SM Instrument: DSC0 _____ Book # 12N14A

Method: LA-514-113 Rev/Mod _____

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	_____	_____	N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T002979	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000158	B-204	3 DUP	S95T002979	0	DSC-01	SOLID	_____	_____	N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T003037	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000158	B-204	5 DUP	S95T003037	0	DSC-01	SOLID	_____	_____	N/A	Joules/g
95000158	B-204	6 SAMPLE	S95T003038	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000158	B-204	7 DUP	S95T003038	0	DSC-01	SOLID	_____	_____	N/A	Joules/g
95000158	B-204	8 SAMPLE	S95T003039	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000158	B-204	9 DUP	S95T003039	0	DSC-01	SOLID	_____	_____	N/A	Joules/g
95000158	B-204	10 SAMPLE	S95T003040	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000158	B-204	11 DUP	S95T003040	0	DSC-01	SOLID	_____	_____	N/A	Joules/g
95000158	B-204	12 SAMPLE	S95T003041	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000158	B-204	13 DUP	S95T003041	0	DSC-01	SOLID	_____	_____	N/A	Joules/g

Final page for worklist #

3085

Lusie M. Deaton 11-28-95
Analyst Signature Date
B McCown

RL Deaton 11/29/95
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.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 251 TO 266

RJM 12/6/95

DSC STD 12N14A N2

6.860 mg

Rate: 10.0 °C/min

File: 00091.001

DSC METTLER

26-Nov-95

Ident: 0.0

222-S Laboratory

exov

Blandina Valenzuela for
RJM 12/6/95

120.

140.

160.

180. °C

WHC-SD-WM-DP-160, REV. 1

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Rm

S95T002979 SAM N2
43.122 mg
Rate: 10.0 °C/min
File: 00092.001 DSC METTLER 27-Nov-95
Ident: 0.0 222-S Laboratory

Rpm

S95T002979 DUP N2
18.125 mg
Rate: 10.0 °C/min
File: 00094.001
Ident: 0.0
DSC METTLER
222-S Laboratory

BAM

S95T003037 SAM N2
10.231 mg
Rate: 10.0 °C/min
File: 00096.001 DSC METTLER 27-Nov-95
Ident: 0.0 222-S Laboratory

Run

S95T003037 DUP N2
 35.095 mg
 Rate: 10.0 °C/min
 File: 00098.001 DSC METTLER 27-NOV-95
 Ident: 0.0 222-S Laboratory

DSC STD 12N14A
 6.860 mg
 Rate: 10.0 °C/min
 File: 00100.001
 Ident: 0.0
 DSC METTLER
 222-S Laboratory
 27-NOV-95

EXO >

10. mW

Integration
 Delta H 207 mJ
 30.1 J/g
 Peak 157.3°C
 -16.8 mW

120.

140.

160.

180. °C

June M. Fulton 11/27/95

S95T003038 N2
9.347 mg

File: 00001.001 DSC METTLER 27-Nov-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

S95T003038 DUP N2
 20.201 mg
 Rate: 10.0 °C/min
 File: 00003.001 DSC METTLER 27-NOV-95
 Ident: 0.0 222-S Laboratory

S95T003039 N2
19.526 mg

Rate: 10.0 °C/min

File: 00005.001 DSC METTLER 27-NOV-95
Ident: 0.0 222-S Laboratory

S95T003039 DUP N2
 20.134 mg
 Rate: 10.0 °C/min
 File: 00007.001 DSC METTLER 27-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003040 N2
 26.001 mg
 Rate: 10.0 °C/min
 File: 00009.001 DSC METTLER 27-Nov-95
 Ident: 0.0 222-S Laboratory

DMC

File: 00011.001 DSC MEITLER 28-NOV-95
 Ident: 0.0 222-S Laboratory

DSC STD 12N14A N2
 6.860 mg Rate: 10.0 °C/min

exo >

Integration
 Delta H 194 mJ
 28.3 J/g
 Peak 157.7°C
 -16.7 mW

160. *June M. Fulton* 180. °C
 120. 140.

S95T003040 DUP N2
 21.224 mg
 Rate: 10.0 °C/min
 File: 00013.001 DSC METTLER 28-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003041 N2
19.254 mg

Rate: 10.0 °C/min

File: 00015.001 DSC METTLER 28-NOV-95
Ident: 0.0 222-S Laboratory

S95T003041 DUP N2
 35.345 mg
 Rate: 10.0 °C/min
 File: 00017.001 DSC METTLER 28-Nov-95
 Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3086

Analyst: PJM Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>27.9</u>	<u>N/A</u>	Joules/g
95000158	B-204	2 SAMPLE	S95T003042	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	3 DUP	S95T003042	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
		4 STD			DSC-01	SOLID	<u>28.45</u>	<u>29.4</u>	<u>N/A</u>	Joules/g
95000158	B-204	5 SAMPLE	S95T003043	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	6 DUP	S95T003043	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000158	B-204	7 SAMPLE	S95T003044	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	8 DUP	S95T003044	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
		9 STD			DSC-01	SOLID	<u>28.45</u>	<u>28.6</u>	<u>N/A</u>	Joules/g
95000158	B-204	10 SAMPLE	S95T003045	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	11 DUP	S95T003045	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000158	B-204	12 SAMPLE	S95T003046	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	13 DUP	S95T003046	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000158	B-204	14 SAMPLE	S95T003047	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	15 DUP	S95T003047	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist # 3086

See attached for signatures

Verified by Blandina Valenzuela 11/27/95
Data Entry Comments: 12/1/95

Dany Hernandez 11-23-95

LABCORE Data Entry Template for Worklist#

3086

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

S95T003042 produced an endotherm at 101.3°C with a delta H of 1375.7 J/g.

S95T003043 produced an endotherm at 101.3°C with a delta H of 1107.1 J/g.

S95T003044 produced an endotherm at 97.3°C with a delta H of 1172.1 J/g.

S95T003045 produced an endotherm at 103.3°C with a delta H of 1310.7 J/g.

S95T003046 produced an endotherm at 99.3°C with a delta H of 905.2 J/g.

S95T003047 produced an endotherm at 147.4°C with a delta H of 573.0 J/g.

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#

3086

Analyst: Bm AAP Instrument: DSC0 Book # 12014A

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T003042	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	3 DUP	S95T003042	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T003043	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	5 DUP	S95T003043	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	6 SAMPLE	S95T003044	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	7 DUP	S95T003044	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	8 SAMPLE	S95T003045	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	9 DUP	S95T003045	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	10 SAMPLE	S95T003046	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	11 DUP	S95T003046	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	12 SAMPLE	S95T003047	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	13 DUP	S95T003047	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist #

3086

Bm Meloun
Analyst Signature

11-26-95
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.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-70 TO 2-84

RJA

DSC STD 12N14A N2

11.600 mg

Rate: 10.0 °C/min

File: 0005L.001

DSC METTLER

12/6/95
24-10V-95

Ident: 0.0

222-S Laboratory

exo

20. mW

Integration

Delta H 324 mJ

27.9 J/g

Peak 158.6 °C

-20.9 mW

Blandino Valenzuela for PJM 12/6/95

120.

140.

160.

180. °C

RSC

S95T003042 SAM N2
27.475 mg
Rate: 10.0 °C/min
File: 00060.001 DSC METTLER 25-Nov-95
Ident: 0.0 222-S Laboratory

exo >

50. mW

Integration
Delta H37798 mJ
1375.7 J/g
Peak 101.3°C
-88.8 mW

100. 200. 300. 400. °C

Run

DSC STD 12N14A N2

8.020 mg

Rate: 10.0 °C/min

File: 00064.001 DSC METTLER 25-Nov-95

Ident: 0.0 222-S Laboratory

EXO >

10. mW

Integration

Delta H 236 mJ

29.4 J/g

Peak

158.1 °C

-16.3 mW

120.

140.

160.

180. °C

John

S95T003043 SAM N2
 31.261 mg
 Rate: 10.0 °C/min
 File: 00066.001 DSC METTLER 25-Nov-95
 Ident: 0.0 222-S Laboratory

Run

S95T003043 DUP N2

30.785 mg

Rate: 10.0 °C/min

File: 00068.001 DSC METTLER 26-Nov-95

Ident: 0.0 222-S Laboratory

exo

Integration
Delta H33512 mJ
1088.6 J/g
Peak 101.3°C
-81.9 mW

°C

400.

300.

200.

100.

50 mW

Ref

S95T003044 SAM N2

30.841 mg

Rate: 10.0 °C/min

File: 00070.001 DSC METTLER 26-Nov-95

Ident: 0.0 222-S Laboratory

exo

Blm

S95T003044 DUP N2
48.951 mg
Rate: 10.0 °C/min
File: 00072.001 DSC METTLER 26-Nov-95
Ident: 0.0 222-S Laboratory

ENDO

50 mW

Integration
Delta H51384 mJ
1049.7 J/g
Peak 97.3°C
-83.1 mW

100. 200. 300. 400. °C

DSC STD 12N14A N2

6.860 mg

Rate: 10.0 °C/min

File: 00074.001 DSC METTLER 26-Nov-95

Ident: 0.0 222-S Laboratory

ENDO

50. mW

Integration
Delta H 196 mJ
28.6 J/g
Peak 156.9°C
-17.6 mW

Anthony P. Puntis 11-26-95

S95T003045 SAM N2

17.802 mg

Rate: 10.0 °C/min

File: 00076.001 DSC METTLER 26-Nov-95

Ident: 0.0 222-S Laboratory

exo >

50. mW

Integration
Delta H23333 mJ
1310.7 J/g
Peak 103.3°C
-87.0 mW

100.

200.

300.

400.

°C

S95T003045 DUP N2

29.120 mg

Rate: 10.0 °C/min

File: 00078.001 DSC METTLER 26-Nov-95

Ident: 0.0 222-S Laboratory

exo

50. mW

Integration
Delta H30546 mJ
1049.0 J/g
Peak 99.3°C
--85.9 mW

100.

200.

300.

400.

°C

S95T003046 SAM N2
 28.790 mg
 Rate: 10.0 °C/min
 File: 00080.001 DSC METTLER 26-Nov-95
 Ident: 0.0 222-S Laboratory

EXO

50 mW

Integration
 Delta H26060 mJ
 905.2 J/g
 Peak 99.3°C
 -83.6 mW

100. 200. 300. 400. °C

S95T003046 DUP N2
 35.459 mg
 Rate: 10.0 °C/min
 File: 00082.001 DSC METTLER 26-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003047 SAM N2

55.866 mg

Rate: 10.0 °C/min

File: 00084.001 DSC METTLER 26-Nov-95

Ident: 0.0 222-S Laboratory

exo

50. mW

Integration
Delta H32009 mJ
573.0 J/g
Peak 147.4 °C
-72.3 mW

100. 200. 300. 400. °C

S95T003047 DUP N2
 37.320 mg
 Rate: 10.0 °C/min
 File: 00086.001 DSC METTLER 26-Nov-95
 Ident: 0.0 222-S Laboratory

exo

50 mW

Integration
 Delta H29185 mJ
 Peak 105.3°C
 -82.4 mW

100. 200. 300. 400. °C

LABCORE Data Entry Template for Worklist#

3141

Analyst: SMF Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>26.3</u>	<u>N/A</u>	Joules/g
95000161	B-204	2 SAMPLE	S95T003261	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	3 DUP	S95T003261	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000161	B-204	4 SAMPLE	S95T003262	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	5 DUP	S95T003262	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
		6 STD			DSC-01	SOLID	<u>28.45</u>	<u>30.6</u>	<u>N/A</u>	Joules/g
95000161	B-204	7 SAMPLE	S95T003263	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	8 DUP	S95T003263	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000161	B-204	9 SAMPLE	S95T003264	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	10 DUP	S95T003264	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000161	B-204	11 SAMPLE	S95T003265	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
		12 STD			DSC-01	SOLID	<u>28.45</u>	<u>30.1</u>	<u>N/A</u>	Joules/g
95000161	B-204	13 DUP	S95T003265	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000161	B-204	14 SAMPLE	S95T003266	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	15 DUP	S95T003266	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist #

3141

See attached for signatures

Verified by Blandina Valenzuela 11/28/95 BDV
Data Entry Comments: 12/1/95

Sharon L. Uddell 11-28-95

LABCORE Data Entry Template for Worklist#

3141

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

S95T003261 produced an endotherm at 103.6°C with a delta H of 1477.0 J/g
S95T003262 produced an endotherm at 105.3°C with a delta H of 1325.5 J/g
S95T003263 produced an endotherm at 82.2°C with a delta H of 1465.9 J/g
S95T003264 produced an endotherm at 101.4°C with a delta H of 1649.1 J/g
S95T003265 produced an endotherm at 98.0°C with a delta H of 1634.5 J/g
S95T003266 produced an endotherm at 103.3°C with a delta H of 1985.4 J/g

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#

3141

Analyst: SMP Instrument: DSC0 Book # 12N14A

Method: LA-514-113 Rev/Mod _____

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
95000161	B-204	2 SAMPLE	S95T003261	0	DSC-01	SOLID	N/A			Joules/g
95000161	B-204	3 DUP	S95T003261	0	DSC-01	SOLID			N/A	Joules/g
95000161	B-204	4 SAMPLE	S95T003262	0	DSC-01	SOLID	N/A			Joules/g
95000161	B-204	5 DUP	S95T003262	0	DSC-01	SOLID			N/A	Joules/g
95000161	B-204	6 SAMPLE	S95T003263	0	DSC-01	SOLID	N/A			Joules/g
95000161	B-204	7 DUP	S95T003263	0	DSC-01	SOLID			N/A	Joules/g
95000161	B-204	8 SAMPLE	S95T003264	0	DSC-01	SOLID	N/A			Joules/g
95000161	B-204	9 DUP	S95T003264	0	DSC-01	SOLID			N/A	Joules/g
95000161	B-204	10 SAMPLE	S95T003265	0	DSC-01	SOLID	N/A			Joules/g
95000161	B-204	11 DUP	S95T003265	0	DSC-01	SOLID			N/A	Joules/g
95000161	B-204	12 SAMPLE	S95T003266	0	DSC-01	SOLID	N/A			Joules/g
95000161	B-204	13 DUP	S95T003266	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist #

3141

Lusie M. Fator 11-22-95
Analyst Signature Date
David R. Beasley 11/23/95

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.

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SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGE'S 2-88 TO 2-102

DSC STD 12N14A

8.020 mg

Rate: 10.0 °C/min

File: 00018.001

DSC METTLER

21-Nov-95

Ident: 0.0

202-3 Laboratory

XOXO

Blandina Valenzuela for SVF

12/6/95

180. °C

160.

140.

120.

S95T003251 N2

11.745 mg

File: 00028.001 DSC METTLER 22-Nov-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

exo

Integration
Delta H17348 mJ
1477.0 J/g
Peak 103.6°C
-88.1 mW

100.

200.

300.

400.

°C

S95T003261 DUP N2
16.001 mg
Rate: 10.0 °C/min
File: 00030.001 DSC METTLER 22-Nov-95
Ident: 0.0 222-S Laboratory

S95T003252 N2

15.978 mg

Rate: 10.0 °C/min

File: 00032.001 DSC METTLER 22-Nov-95

Ident: 0.0 222-S Laboratory

exo

100.

200.

300.

400.

°C

S95T003262DUP N2
13.140 mg

Rate: 10.0 °C/min

File: 00034.001 DSC METTLER 22-Nov-95
Ident: 0.0 222-S Laboratory

DSC STD 12N14A N2
 9.020 mg
 Rate: 10.0 °C/min
 File: 00035.001
 Ident: 0.0
 DSC METTLER
 222-S Laboratory

exo

10. mW

Integration
 Delta H 245 mJ
 30.6 J/g
 Peak 157.9°C
 -17.2 mW

David P. Bromley 11/22/95

BEST AVAILABLE COPY

S95T003263 SAM N2

3.630 g

rate: 10.0 °C/min

File 0003263.DSC Heat Flow Re-Process
 Date: 01/08/2003 13:40:00

S95T003263 DUP N2

11.978 mg

Rate: 10.0 °C/min

File: 00040.001 DSC METTLER 23-Nov-95

Ident: 0.0 222-S Laboratory

exo

50. mW

Integration
Delta H21116 mJ
Peak 105.3°C
-91.2 mW

°C

400.

300.

200.

100.

S95T003264 SAM N2

12.452 mg

Rate: 10.0 °C/min

File: 00042.001 DSC METTLER 23-Nov-95

Ident: 0.0 222-S Laboratory

exo

50. mW

50. mW

Integration
Delta H20535 mJ
1649.1 J/g
Peak 101.4°C
-91.5 mW

100. 200. 300. 400. °C

S95T003264 DUP N2
 24.747 mg
 Rate: 10.0 °C/min
 File: 00044.001 DSC METTLER 23-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003265 SAM N2
 12.352 mg
 Rate: 10.0 °C/min
 File: 00046.001 DSC METTLER 23-Nov-95
 Ident: 0.0 222-S Laboratory

Integration
 Delta H20190 mJ
 Peak 98.0 °C
 -76.4 mW

DSC STD 12N14A
6.860 mg
Rate: 10.0 °C/min
File: 00048.001
Ident: 0.0
DSC METTLER
222-S Laboratory
23-Nov-95

exo >

10. mW

Integration
Delta H 207 mJ
Peak 30.1 J/g
158.0 °C
-14.8 mW

120. 140. 160. 180. °C

Done M. Dulcori 11-23-95

S95T003265 DUP N2

17.987 mg

Rate: 10.0 °C/min

File: 00050.001 DSC METTLER 23-Nov-95
Ident: 0.0 222-S Laboratory

exo >

50. mW

Integration
Delta H27032 mJ
Peak 1502.9 J/g
107.3°C
-92.8 mW

100.

200.

300.

400.

°C

LABCORE Data Entry Template for Worklist#

3142

Analyst: SMF Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>30.8</u>	<u>N/A</u>	Joules/g
95000161	B-204	2 SAMPLE	S95T003267	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	3 DUP	S95T003267	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
		4 STD			DSC-01	SOLID	<u>28.45</u>	<u>26.2</u>	<u>N/A</u>	Joules/g
95000161	B-204	5 SAMPLE	S95T003270	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	6 DUP	S95T003270	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000161	B-204	7 SAMPLE	S95T003271	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	8 DUP	S95T003271	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist #

3142

See attached for signatures

Analyst Signature Date 11/28/95

 11/28/95
Analyst Signature Date

Verified by Blandina Valentin 12/1/95

S95T003267 produced an endotherm at 103.3°C with a delta H of 1302.3 J/g

S95T003270 produced an endotherm at 103.3°C with a delta H of 1579.4 J/g

S95T003271 produced an endotherm at 103.3°C with a delta H of 1209.5 J/g

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#

3142

Analyst: SMF Instrument: DSC0 Book # 12N14A

Method: LA-514-113 Rev/Mod _____

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	_____	_____	N/A	Joules/g
95000161	B-204	2 SAMPLE	S95T003267	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000161	B-204	3 DUP	S95T003267	0	DSC-01	SOLID	_____	_____	N/A	Joules/g
95000161	B-204	4 SAMPLE	S95T003270	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000161	B-204	5 DUP	S95T003270	0	DSC-01	SOLID	_____	_____	N/A	Joules/g
95000161	B-204	6 SAMPLE	S95T003271	0	DSC-01	SOLID	N/A	_____	_____	Joules/g
95000161	B-204	7 DUP	S95T003271	0	DSC-01	SOLID	_____	_____	N/A	Joules/g

Final page for worklist #

3142

Analyst Signature Date

Lucie M. Fulton 11-21-95
2330

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.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-105 TO 2-112

DSC STD 12N14A

8.020 mg

Rate: 10.0 °C/min

File: 00007.001 LSC METTLER 20-Nov-95

Ident: 0.0 222-S Laboratory

Brendina Valenzuela for SMF

12/6/95

S95T003267 N2
16.510 mg

Rate: 10.0 °C/min

File: 00009.001 DSC METTLER 20-Nov-95
Ident: 0.0 222-S Laboratory

S95T003267 DUP N2

19.900 mg

Rate: 10.0 °C/min

File: 00011.001 DSC METTLER 20-Nov-95

Ident: 0.0 222-S Laboratory

DSC STD 12N14A

8.020 mg

Rate: 10.0 °C/min

File: 00015.001 DSC METTLER 21-Nov-95

Ident: 0.0 222-S Laboratory

EXOV

10. mW

S95T003270

13.934 mg

Rate: 10.0 °C/min

File: 00016.001 DSC METTLER 21-Nov-95

Ident: 0.0 222-S Laboratory

S95T003270DUP

11.900 mg

Rate: 10.0 °C/min

File: 00018.001 DSC METTLER 21-Nov-95

Ident: 0.0 222-S Laboratory

exo

50. mW

Integration
Delta H18029 mJ
1515.0 J/g
Peak 103.3°C
-95.6 mW

100. 200. 300. 400. °C

S95T003271 DUP N2
 25.181 mg
 Rate: 10.0 °C/min
 File: 00026.001 DSC METTLER 21-Nov-95
 Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3316

Analyst: ADP Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: Please run DSCs under N2. bdv B204

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID	<u>28.45</u>	<u>29.7</u>	<u>N/A</u>	Joules/g
95000028	C-105	2 SAMPLE	S95T002853	0	DSC-01	LIQUID	<u>N/A</u>	<u>246.1</u>		Joules/g
95000028	C-105	3 DUP	S95T002853	0	DSC-01	LIQUID	<u>246.1</u>	<u>258.7</u>	<u>N/A</u>	Joules/g
95000028	C-105	4 SAMPLE	S95T002855	0	DSC-01	LIQUID	<u>N/A</u>	<u>44.8</u>		Joules/g
95000028	C-105	5 DUP	S95T002855	0	DSC-01	LIQUID	<u>44.8</u>	<u>45.9</u>	<u>N/A</u>	Joules/g
		6 STD			DSC-01	LIQUID	<u>28.45</u>	<u>29.1</u>	<u>N/A</u>	Joules/g
95000040	C-105	7 SAMPLE	S95T002860	0	DSC-01	LIQUID	<u>N/A</u>	<u>22.8</u>		Joules/g
95000040	C-105	8 DUP	S95T002860	0	DSC-01	LIQUID	<u>22.8</u>	<u>25.3</u>	<u>N/A</u>	Joules/g
95000040	C-105	9 SAMPLE	S95T002863	0	DSC-01	LIQUID	<u>N/A</u>	<u>26.7</u>		Joules/g
95000040	C-105	10 DUP	S95T002863	0	DSC-01	LIQUID	<u>26.7</u>	<u>31.8</u>	<u>N/A</u>	Joules/g
95000161	B-204	11 SAMPLE	S95T003255	0	DSC-01	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g
		12 STD			DSC-01	LIQUID	<u>28.45</u>	<u>31.2</u>	<u>N/A</u>	Joules/g
95000161	B-204	13 DUP	S95T003255	0	DSC-01	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000161	B-204	14 SAMPLE	S95T003349	0	DSC-01	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	15 DUP	S95T003349	0	DSC-01	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist #

3316

See attached for signatures

R Jones

11-17-95

Verified by Blandina 11/15/95

Data Entry Comments: Valenzuela 11/28/95

LABCORE Data Entry Template for Worklist#

3316

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
Analyst Signature		Date				Analyst Signature		Date		

S95T002853 produced two endotherms one at 111.3°C with a delta H of 511.3 J/g and second at 250.9°C with a delta H of 18.4 J/g

S95T002855 produced two endotherms one at 97.9°C with a delta H of 1140.5 J/g and second at 249.7°C with a delta H of 7.8 J/g.

S95T002855^{11/21/95} 60 produced two endotherms one at 113.3°C with a delta H of 1056.4 J/g and second at 253.2°C with a delta H of 25.9 J/g.

S95T002863 produced two endotherms one at 111.3°C with a delta H of 839.3 J/g and second at 255.0°C with a delta H of 32.2 J/g

S95T003255 produced an endotherm at 101.3°C with a delta H of 695.3 J/g.

S95T003349 produced an endotherm at 101.3°C with a delta H of 766.4 J/g.

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

3316

Analyst: ADP Instrument: DSC0 Book # 121514A

Method: LA-514-113 Rev/Mod CO

Worklist Comment: Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID			N/A	Joules/g
95000028	C-105	2 SAMPLE	S95T002853	0	DSC-01	LIQUID	N/A			Joules/g
95000028	C-105	3 DUP	S95T002853	0	DSC-01	LIQUID			N/A	Joules/g
95000028	C-105	4 SAMPLE	S95T002855	0	DSC-01	LIQUID	N/A			Joules/g
95000028	C-105	5 DUP	S95T002855	0	DSC-01	LIQUID			N/A	Joules/g
95000040	C-105	6 SAMPLE	S95T002860	0	DSC-01	LIQUID	N/A			Joules/g
95000040	C-105	7 DUP	S95T002860	0	DSC-01	LIQUID			N/A	Joules/g
95000040	C-105	8 SAMPLE	S95T002863	0	DSC-01	LIQUID	N/A			Joules/g
95000040	C-105	9 DUP	S95T002863	0	DSC-01	LIQUID			N/A	Joules/g
95000161	B-204	10 SAMPLE	S95T003255	0	DSC-01	LIQUID	N/A			Joules/g
95000161	B-204	11 DUP	S95T003255	0	DSC-01	LIQUID			N/A	Joules/g
95000161	B-204	12 SAMPLE	S95T003349	0	DSC-01	LIQUID	N/A			Joules/g
95000161	B-204	13 DUP	S95T003349	0	DSC-01	LIQUID			N/A	Joules/g

Final page for worklist #

3316

Analyst Signature

Date

11-13-95

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.

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SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-116 TO 2-130

DSC STD 12N14A

8.020 mg

Rate: 10.0 °C/min

File: 00038.001

DSC METTLER

11-Nov-95

Ident: 0.0

222-S Laboratory

ENDO

Blandina Valenzuela for ADP

120.

140.

150.

17/06/95

180.

°C

S95T002853 SAM N2
 59.718 mg
 Rate: 10.0 °C/min
 File: 00045.001 DSC METTLER 11-Nov-95
 Ident: 0.0 222-S Laboratory

exo

S95T002853 DUP N2
 34.353 mg
 Rate: 10.0 °C/min
 File: 00047.001 DSC METTLER 11-Nov-95
 Ident: 0.0 222-S Laboratory

exo

50 mW

Integration
 Delta H 8888 mJ
 Peak 258.7 J/g
 383.1 °C
 15.2 mW

Integration
 Delta H 793 mJ
 Peak 23.1 J/g
 255.3 °C
 -5.5 mW

Integration
 Delta H 26616 mJ
 Peak 774.8 J/g
 113.3 °C
 -83.0 mW

100. 200. 300. 400. °C

S95T002855 SAM N2
 7.199 mg
 Rate: 10.0 °C/min
 File: 00049.001 DSC METTLER 11-Nov-95
 Ident: 0.0 222-S Laboratory

S95T002855 DUP N2
 35.070 mg
 Rate: 10.0 °C/min
 File: 00051.001 DSC METTLER 11-Nov-95
 Ident: 0.0 222-S Laboratory

DSC STD 12N14-A
8.020 mg
Rate: 10.0 °C/min
File: 00053.001
Ident: 0.0
DSC METTLER
222-S Laboratory
12-Nov-95

exo >

10. mW

Integration
Delta H 233 mJ
29.1 J/g
Peak 157.9°C
-18.0 mW

Daniel P. Barmby 11/12/95

120. 140. 160. 180. °C

S95T002860 SAM

14.901 mg

File: 00057.001 DSC METTLER 12-Nov-95
 Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

100.

200.

300.

400.

°C

S95T002860 DUP

13.999 mg

File: 00059.001 DSC METTLER 12-Nov-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

S95T002863 DUP N2
 50.757 mg
 Rate: 10.0 °C/min
 File: 00063.001 DSC METTLER 12-Nov-95
 Ident: 0.0 222-S Laboratory

exo

50 mW

100. 200. 300. 400. °C

S95T003255 SAM N2
 40.570 mg
 Rate: 10.0 °C/min
 File: 00065.001 DSC METTLER 12-Nov-95
 Ident: 0.0 222-S Laboratory

DSC STD 12N14A
8.020 mg
Rate: 10.0 °C/min
File: 00066.001
DSC METTLER
Ident: 0.0
222-S Laboratory
13-Nov-95

S95T003255 DUP N2
 37.650 mg
 Rate: 10.0 °C/min
 File: 00068.001 DSC METTLER 13-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003349 SAM N2
32.874 mg

Rate: 10.0 °C/min

File: 00069.001 DSC METTLER 13-Nov-95
Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3318

Analyst: PJM Instrument: DSC0 3 Book # 12N14B

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

Worklist Comment: Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	28.45	28.91	N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T003053	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	3 DUP	S95T003053	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T003054	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	5 DUP	S95T003054	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
		6 STD			DSC-03	SOLID	28.45	29.19	N/A	Joules/g
95000158	B-204	7 SAMPLE	S95T003055	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	8 DUP	S95T003055	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000158	B-204	9 SAMPLE	S95T003056	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	10 DUP	S95T003056	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000158	B-204	11 SAMPLE	S95T003057	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	12 DUP	S95T003057	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist #

3318

See attached for signatures

Analyst Signature

Date

Verified by Blandina Valenzuela 12/1/95

Analyst Signature

Date

S95T003053 produced an endotherm at 128.1°C with a delta H of 1636.4 J/g.

S95T003054 produced an endotherm at 124.6°C with a delta H of 1715.2 J/g.

S95T003055 produced an endotherm at 118.0°C with a delta H of 1531.5 J/g.

Data Entry Comments:

S95T003056 produced an endotherm at 132.4°C with a delta H of 1350.8 J/g.

S95T003057 produced an endotherm at 119.9°C with a delta H of 1493.4 J/g.

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#

3318

Analyst: Bm ASP

Instrument: DSC0

Book # 12014A

Method: LA-514-113 Rev/Mod

Worklist Comment: Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T003053	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	3 DUP	S95T003053	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T003054	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	5 DUP	S95T003054	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	6 SAMPLE	S95T003055	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	7 DUP	S95T003055	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	8 SAMPLE	S95T003056	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	9 DUP	S95T003056	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	10 SAMPLE	S95T003057	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	11 DUP	S95T003057	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist #

3318

Anthony P. Puro
Analyst Signature
R. McCown

11-26-95
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.

Curve 1: DSC

File Info: IND112501 Sat Nov 25 19:47:40 1995

Sample Weight: 6.860 mg

12N14A Indium at 10C/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2/33 TO 2/44

Blandina Valenzuela for PJM 12/6/95

N2, EXOTHERM DOWN

TEMP: 190.0 °C TIME: 0.0 min RATE: 10.0 C/min

Temperature (°C)

PJ MCCOMB

PERKIN-ELMER

7 Series Thermal Analysis System

Sat Nov 25 19:51:28 1995

Curve 1: DSC

File Info: SAM112504 Sat Nov 25 22:58:48 1995

Sample Weight: 30.220 mg

S95T003053 SAM

exotherm down, N2 purge gas

TEMP: 50.0 °C TIME: 0.0 min RATE: 10.0 °C/min

PJ MCCOWN
PERKIN-ELMER
7 Series Thermal Analysis System
Sat Nov 25 23:17:49 1995

Curve 1: DSC

File Info: SAM112505 Sun Nov 26 00:23:50 1995

Sample Weight: 35.360 mg

650E001565 DNP

exotherm down, N2 purge gas

TEMP:	35.0	0	TIME:	0.0	min	RATE:	50.0	C/min
TEMP:	500.0	0						

Temperature (°C)

PJ MCCOWN

PEAKIN-ELMER

7 Series Thermal Analysis System
Sun Nov 26 01:36:27 1995

Curve 1: DSC

File info: SAM112601 Sun Nov 26 02:54:29 1995

Sample Weight: 37.160 mg

S95T003054 SAM

2-136

exotherm down, N2 purge gas

TEMP: 30.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Temperature (°C)

PJ MCCOMB
PERKIN-ELMER

7 Series Thermal Analysis System
Sun Nov 26 03:07:08 1995

Curve 1: DSC
 File info: SAM112602 Sun Nov 26 04:15:29 1995
 Sample Weight: 27.750 mg
 S95T003054 DUP

PJ MCCOMB
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 04:20:21 1995

exotherm down, N2 purge gas
 Temp: 36.0 °C
 Rate: 10.0 °C/min
 Time: 0.0 min

Curve 1: DSC

File Info: IND112601 Sun Nov 26 07:14:54 1995

Sample Weight: 15.000 mg

12N14A Indium at 10C/min

AD Purinton
11-26-95

N2, EXOTHERM DOWN

TEMP: 150.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Temperature (°C)

AD PURINTON
PERKIN-ELMER

7 Series Thermal Analysis System
Sun Nov 26 07:17:29 1995

Curve 1: DSC
 File Info: SAM112603 Sun Nov 26 08:17:06 1995
 Sample Weight: 22.570 mg
 S95T003055 SAM

exotherm down, N2 purge gas
 TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 08:21:06 1995

Curve 1: DSC

File info: SAM112604 Sun Nov 26 09: 11: 46 1995

Sample Weight: 38.650 mg

S95T003055 DUP

2-140

exotherm down, N2 purge gas
TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Nov 26 09: 18: 33 1995

Curve 1: DSC
File info: SAM112605 Sun Nov 26 10:11:07 1995
Sample Weight: 24.690 mg
S95T003055-BUP
11-26-95
3056 SAM

2-141

exotherm down, N2 purge gas
TEMP: 35.0 °C
TIME: 000.0 s
AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Nov 26 10:17:16 1995

Curve 1: DSC
 File info: SAM112606 Sun Nov 26 11:09:55 1995
 Sample Weight: 22.870 mg
 S95T003056 DUP

2-142

exotherm down, N2 purge gas
 TEMPERATURE 35.0 °C
 RATE 100.0 °C/min
 TIME 0.0 min RATE: 10.0 °C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 11:13:47 1995

Curve 1: DSC
 File info: SAM112607 Sun Nov 26 12:10:12 1995
 Sample Weight: 23.150 mg
 S95T003057 SAM

exotherm down, N2 purge gas
 TEMPS: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 12:10:47 1995

Curve 1: DSC
 File Info: SAM112608 Sun Nov 26 13:01:17 1995
 Sample Weight: 27.870 mg
 S95T003057 DUP

exotherm down, N2 purge gas
 Temp: 35.0 °C Time: 0.0 min Rate: 10.0 °C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 13:23:31 1995

LABCORE Data Entry Template for Worklist#

3332

Analyst: SMF Instrument: DSC0 3 Book # 12N14B

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

Worklist Comment: Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	SOLID	28.45	28.43	N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T003048	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	3 DUP	S95T003048	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T003049	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	5 DUP	S95T003049	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
		6 STD			DSC-03	SOLID	28.45	27.83	N/A	Joules/g
95000158	B-204	7 SAMPLE	S95T003050	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	8 DUP	S95T003050	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000158	B-204	9 SAMPLE	S95T003058	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	10 DUP	S95T003058	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000158	B-204	11 SAMPLE	S95T003059	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	12 DUP	S95T003059	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000158	B-204	13 SAMPLE	S95T003060	0	DSC-03	SOLID	N/A	Ø		Joules/g
95000158	B-204	14 DUP	S95T003060	0	DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist #

3332

See attached for signatures

Analyst Signature

Date

Sharon L. Uchida 12-1-95

Analyst Signature

Date

Verified by Blandina Valenzuela

Data Entry Comments:

S95T003048 produced an endotherm at 115.5°C with a delta H of 1756.78 J/g

S95T003049 produced an endotherm at 117.4°C with a delta H of 1711.22 J/g

S95T003050 produced an endotherm at 132.2°C with a delta H of 1619.21 J/g

S95T003058 produced an endotherm at 124.4°C with a delta H of 1758.72 J/g

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.

S95T003059 produced an endotherm at 121.61°C with a delta H of 1685.10 J/g

LABCORE Data Entry Template for Worklist#

3332

Analyst: SMP Instrument: DSC0 Book # 12N14A
Method: LA-514-¹¹⁴~~113~~ Rev/Mod C-1
Worklist Comment: SMP 11-22-95 Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T003048	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	3 DUP	S95T003048	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T003049	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	5 DUP	S95T003049	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	6 SAMPLE	S95T003050	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	7 DUP	S95T003050	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	8 SAMPLE	S95T003058	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	9 DUP	S95T003058	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	10 SAMPLE	S95T003059	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	11 DUP	S95T003059	0	DSC-01	SOLID			N/A	Joules/g
95000158	B-204	12 SAMPLE	S95T003060	0	DSC-01	SOLID	N/A			Joules/g
95000158	B-204	13 DUP	S95T003060	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist #

3332

Lusie M. Dutton 11-22-95
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.

Curve 1: DSC
 File info: IND112201 Wed Nov 22 03:46:31 1995
 Sample Weight: 6.860 mg
 12N14A Indium at 10C/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2417 TO 2460

N2, EXOTHERM DOWN
 TEMPERATURE 150.0 °C
 TIME 0.0 min RATE 10.0 C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 22 04:00:08 1995

Curve 1: DSC
 File info: SAM112204 Wed Nov 22 21:28:14 1995
 Sample Weight: 13.610 mg
 5957003708-DUP SMF 11-22-95
 5957003048

exotherm down, N2 purge gas
 TEMPERATURE 35.0 °C
 RATE 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 22 21:41:41 1995

Curve 1: DSC
 File Info: SAM112205 Wed Nov 22 22:50:39 1995
 Sample Weight: 18.380 mg
 S95T003048 DUP

SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 00:29:43 1995

exotherm down, N2 purge gas
 Temp: 36.0 °C
 Time: 0.0 min
 Rate: 10.0 °C/min

Curve 1: DSC
 File info: SAM112206 Thu Nov 23 01:24:10 1995
 Sample Weight: 19.850 mg
 S95T003049

2-150

exotherm down, N2 purge gas
 TEMPERATURE 35.0 °C
 TIME 00:08
 RATE 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 01:25:19 1995

Curve 1: DSC
 File Info: SAM112207 Thu Nov 23 02:44:38 1995
 Sample Weight: 14.010 mg
 S95T003049 DUP

exotherm down, N2 purge gas
 Temp: 35.0 °C
 Time: 00.0 s
 Rate: 0.0 min RATE: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 04:09:51 1995

Curve 1: DSC
 File info: IND112301 Thu Nov 23 04:27:35 1995
 Sample Weight: 6.860 mg
 12N14A Indium at 10C/min

N2, EXOTHERM DOWN
 TEMPERATURE 150.0 °C
 TEMPERATURE 170.0 °C
 RATE: 0.0 min RATE: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 17:33:00 1995

Curve 1: DSC

File info: SAM112301 Thu Nov 23 18:30:22 1995

Sample Weight: 18.530 mg

S95T003050

exotherm down, N2 purge gas

TEMP1: 35.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min

Temperature (°C)

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Nov 23 21:49:45 1995

Curve 1: DSC
 File info: SAM112302 Thu Nov 23 19:47:28 1995
 Sample Weight: 16.770 mg
 S95T003050 DUP

exotherm down, N2 purge gas
 TEMPA: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 21:56:27 1995

Curve 1: DSC
 File info: SAM112303 Thu Nov 23 21:14:36 1995
 Sample Weight: 29.390 mg
 S95T003058

exotherm down, N2 purge gas
 TEMPI: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 22:21:13 1995

Curve 1: DSC

File info: SAM112304 Thu Nov 23 22: 24: 17 1995

Sample Weight: 20.580 mg

S95T003058 DUP

exotherm down, N2 purge gas

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

SM FULTON

PERKIN-ELMER

7 Series Thermal Analysis System

Thu Nov 23 22: 32: 44 1995

Curve 1: DSC
 File Info: SAM112305 Thu Nov 23 23:22:58 1995
 Sample Weight: 22.350 mg
 595T003059

SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Nov 24 01:10:47 1995

exotherm down, N2 purge gas
 TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Curve 1: DSC
 File info: SAM112306 Fri Nov 24 01:47:32 1995
 Sample Weight: 27.780 mg
 S95T003059 DUP

2-158

exotherm down, N2 purge gas
 TEMPI: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Nov 24 02:05:21 1995

Curve 1: DSC

File info: SAM112307 Fri Nov 24 02:55:37 1995

Sample Weight: 26.910 mg

S95T003060

exotherm down, N2 purge gas

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

SM FULTON
PERKIN-ELMER

7 Series Thermal Analysis System
Fri Nov 24 03:26:03 1995

Curve 1: DSC
 File info: SAM112308 Fri Nov 24 04:20:14 1995
 Sample Weight: 26.430 mg
 S95T003060 DUP

exotherm down, N2 purge gas
 TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Nov 24 04:35:04 1995

LABCORE Data Entry Template for Worklist#

3421

Analyst: ^{BDV}
^{11/28/95}
~~ADP~~ JDS Instrument: DSC0 3 Book # 12N14D

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

Worklist Comment: Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-03	LIQUID	<u>28.45</u>	<u>28.71</u>	<u>N/A</u>	Joules/g
95000158	B-204	2 SAMPLE	S95T002976	0	DSC-03	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	3 DUP	S95T002976	0	DSC-03	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
		4 STD			DSC-03	LIQUID	<u>28.45</u>	<u>28.56</u>	<u>N/A</u>	Joules/g
95000158	B-204	5 SAMPLE	S95T002984	0	DSC-03	LIQUID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000158	B-204	6 DUP	S95T002984	0	DSC-03	LIQUID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist #

3421

See attached for signatures
Analyst Signature [Signature] Date 11/28/95

[Signature] 11-28-95
Analyst Signature Date

Verified by Blandina Valenzuela
12/1/95

Data Entry Comments: S95T002976 produced an endotherm at 111.9°C with a delta H
of 2057.5 J/g.

S95T002984 produced an endotherm at 102.7°C with a delta H of 1985.9 J/g.

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#

3421

Analyst: ADP Instrument: DSC0 Book # _____

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

Worklist Comment: Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID	_____	_____	N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T002976	0	DSC-01	LIQUID	N/A	_____	_____	Joules/g
95000158	B-204	3 DUP	S95T002976	0	DSC-01	LIQUID	_____	_____	N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T002984	0	DSC-01	LIQUID	N/A	_____	_____	Joules/g
95000158	B-204	5 DUP	S95T002984	0	DSC-01	LIQUID	_____	_____	N/A	Joules/g
95000189	TX-244 GRAB	6 SAMPLE	S95T003708	0	DSC-01	LIQUID	N/A	_____	_____	Joules/g
95000189	TX-244 GRAB	7 DUP	S95T003708	0	DSC-01	LIQUID	_____	_____	N/A	Joules/g
95000189	TX-244 GRAB	8 SAMPLE	S95T003709	0	DSC-01	LIQUID	N/A	_____	_____	Joules/g
95000189	TX-244 GRAB	9 DUP	S95T003709	0	DSC-01	LIQUID	_____	_____	N/A	Joules/g
95000180	BY104 ROTARY	10 SAMPLE	S95T003713	0	DSC-01	LIQUID	N/A	_____	_____	Joules/g
95000180	BY104 ROTARY	11 DUP	S95T003713	0	DSC-01	LIQUID	_____	_____	N/A	Joules/g

Final page for worklist #

3421

Analyst Signature Date

Lusie M. Julton 11-21-95
B. McCown 11/25/95
Anthony Purnell 11-22-95

Analyst Signature Date

Data Entry Comments:

Worklist needed to be broken up to accomodate
the different tanks.

11/28/95 BDW

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.

Curve 1: DSC

File Info: IND112001 Mon Nov 20 07:32:58 1995

Sample Weight: 6.860 mg

12N14A-Indium at 10C/min

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 7-163 TO 22/68

X1	157.433 °C
X2	163.166 °C
Peak	159.409 °C
Area	196.921 mJ
ΔH	28.706 J/g
Height	20.184 mW
Onset	157.927 °C

Heat Flow (mW)

2-163

N2, EXOTHERM DOWN

TEMP: 190.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Temperature (°C)

JD SPELLMAN
PERKIN-ELMER

7 Series Thermal Analysis System
Mon Nov 20 10:32:27 1995

Curve 1: DSC
 File info: SAM112001 Mon Nov 20 12:10:25 1995
 Sample Weight: 10.560 mg
 S95T002976

exotherm down, N2 purge gas
 TEMPERATURE 50.0 °C
 TIME 0.0 min RATE 10.0 °C/min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Mon Nov 20 12:26:21 1995

Curve 1: DSC
 File info: SAM112002 Mon Nov 20 13:30:39 1995
 Sample Weight: 17.880 mg
 S95T002976DUP

exotherm down, N2 purge gas
 Temp: 25.0 °C Time: 0.0 min Rate: 10.0 °C/min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Mon Nov 20 14:19:19 1995

Curve 1: DSC
 File Info: IND112101 Tue Nov 21 07:55:04 1995
 Sample Weight: 6.860 mg
 12N14A Indium at 10C/min

2-166

N2, EXOTHERM DOWN
 TEMPERATURE 198.8 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Nov 21 08:30:13 1995

Curve 1: DSC
 File Info: SAM112101 Tue Nov 21 09:32:16 1995
 Sample Weight: 10.390 mg
 S95T002984

exotherm down, N2 purge gas
 Temp: 35.0 °C Time: 0.0 min Rate: 10.0 °C/min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Nov 21 11:01:36 1995

Curve 1: DSC
 File info: SAM112102 Tue Nov 21 11:52:15 1995
 Sample Weight: 16.620 mg
 S95T002984DUP

2-168

exotherm down, N2 purge gas
 Temp: 35.0 °C
 Rate: 10.0 °C/min
 Time: 0.0 min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Tue Nov 21 12:48:16 1995

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 8-169 TO 8-169

DSC STD 12N14A

6.860 mg

Rate: 10.0 °C/min

File: 00028.001 DSC METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

exo v

10. mW

Integration

Delta H 211 mJ

30.7 J/g

Peak

157.6°C

-18.1 mW

WHC-SD-WM-DP-160, REV. 1

120.

140.

160.

°C

Antifilm 11-29-95

LABCORE Data Entry Template for Worklist#

3830

Analyst: SUF Instrument: DSC0 1 Book # 12 N14A

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	28.45	30.7	N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T003051	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000158	B-204	3 DUP	S95T003051	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T003052	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000158	B-204	5 DUP	S95T003052	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist #

3830

Amfulton 11-29-95
Analyst Signature Date

RJ 12-4-95
Analyst Signature Date

Verified by Blandina Valenzuela
12-6-95

Data Entry Comments: S95T003051 produced one endotherm at 103.3°C with a delta H of 1514.7 J/g. S95T003052 produced one endotherm at 99.3°C with a delta H of 1119.9 J/g

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.

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-171 TO 2-175

DSC STD 12N14A File: 00028.001 DSC METTLER 29-NOV-95
6.860 mg Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory

exo >

10. mW

Integration
Delta H 211 mJ
Peak 30.7 J/g
157.6°C
-18.1 mW

120.

140.

160.

Amalton 11-29-95

BEST AVAILABLE COPY

S95T003051 N2

13.949 mg

File: 00030.001 DSC METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

exo

Integration
Delta H21128 mJ
1514.7 J/g
Peak 103.3°C
-95.0 mW

50. mW

100.

200.

300.

400.

°C

BEST AVAILABLE COPY

S95T003051 DUP N2
23.268 mg
Rate: 10.0 °C/min
File: 00032.001 DSC METTLER 29-Nov-95
Ident: 0.0 222-S Laboratory

BEST AVAILABLE COPY

S95T003052 SAM N2

23.447 mg

Rate: 10.0 °C/min

File: 00034.001 DSC METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

exo

Integration
Delta H26259 mJ
Peak 1119.9 J/g
99.3 °C
-88.3 mW

50 mW

100.

200.

300.

400.

°C

BEST AVAILABLE COPY

S95T003052 DUP N2

22.355 mg

File: 00036.001 DSC METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

LABCORE Data Entry Template for Worklist#

3831

Analyst: SJF

Instrument: DSC0 1

Book # 12N14 ^{11/29/95 BDN} AB

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>28.4</u>	<u>N/A</u>	Joules/g
95000161	B-204	2 SAMPLE	S95T003268	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	3 DUP	S95T003268	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000161	B-204	4 SAMPLE	S95T003269	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	5 DUP	S95T003269	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist #

3831

Luis M. Dultra 11-28-95
Analyst Signature Date

AC Wright 11/29/95
Analyst Signature Date

Verified by Blandina Valenzuela
12/1/95

Data Entry Comments:

S95T003268 produced an endotherm at 101.3°C with a
delta H of 1275.0 J/g.

S95T003269 produced an endotherm at 101.3°C with a delta H of 693.5 J/g

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 2-172 TO 2-181

DSC STD 12N14A N2
6.850 mg
Rate: 10.0 °C/min
File: 00011.001
Ident: 0.0
DSC METTLER
222-S Laboratory
28-Nov-95

EXO

10. mW

Integration
Delta H 195 mJ
28.4 J/g
Peak 157.7 °C
-16.7 mW

120.

140.

160

180

Susie M. Fulton 11/28/95

S95T003268 N2
21.825 mg
Rate: 10.0 °C/min
File: 00020.001 DSC METTLER 28-Nov-95
Ident: 0.0 222-S Laboratory

S95T003268 DUP N2
21.080 mg
Rate: 10.0 °C/min
File: 00022.001 DSC METTLER 28-NOV-95
Ident: 0.0 222-S Laboratory

S95T003269 SAM N2
 47.955 mg
 Rate: 10.0 °C/min
 File: 00024.001 DSC METTLER 29-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003269 DUP N2
 24.471 mg
 Rate: 10.0 °C/min
 File: 00026.001 DSC METTLER 29-Nov-95
 Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3832

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

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	28.45	31.3	N/A	Joules/g
95000161	B-204	2 SAMPLE	S95T003272	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	3 DUP	S95T003272	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000161	B-204	4 SAMPLE	S95T003278	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	5 DUP	S95T003278	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist #

3832

Rae Ann Green 12-1-95
Analyst Signature Date

[Signature] 12-4-95
Analyst Signature Date

[Signature] 12-1-95

Verified by Blandina Valenzuela
12/6/95

Data Entry Comments: S95T003278 produced an endotherm at 111.3°C with a
delta H of 1464.2 J/g.

S95T003278 produced an endotherm at 105.3°C with a delta H of
1154.3 J/g.

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

← oops! Blondie 2-182

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DSC STD 12N14-B N2
 8.020 mg
 Rate: 10.0 °C/min
 File: 00076.001 DSC METTLER 01-Dec-95
 Ident: 0.0 222-S Laboratory

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S95T003272 SAM N2
17.950 mg
Rate: 10.0 °C/min
File: 00083.001 DSC METTLER 01-Dec-95
Ident: 0.0 222-S Laboratory

BEST AVAILABLE COPY

S95T003272 DUP N2
27.924 mg
Rate: 10.0 °C/min
File: 00084.001 DSC METTLER 01-Dec-95
Ident: 0.0 222-S Laboratory

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S95T003278 SAM N2
 21.180 mg
 Rate: 10.0 °C/min
 File: 00080.001 DSC METTLER 01-Dec-95
 Ident: 0.0 222-S Laboratory

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S95T003278 DUP N2
 7.690 mg
 Rate: 10.0 °C/min
 File: 00082.001 DSC METTLER 01-Dec-95
 Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3878

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

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	28.45	28.1	N/A	Joules/g
95000161	B-204	2 SAMPLE	S95T003256	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	3 DUP	S95T003256	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000161	B-204	4 SAMPLE	S95T003257	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	5 DUP	S95T003257	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 3878

Rae Ann Green 12-6-95
Analyst Signature Date

RJG 12/6/95
Analyst Signature Date

S95T003256 produced an endotherm at 106.5°C with a delta H of 1580.6 J/g

Data Entry Comments: S95T003257 produced an endotherm at 108.3°C with a delta H of 1616.4 J/g

DSC STD 12N14B N2
 8.020 mg
 Rate: 10.0 °C/min
 File: 00051.001
 Ident: 0.0
 DSC METTLER
 222-S Laboratory
 05-Dec-95

S95T003256 SAM N2
 18.675 mg
 Rate: 10.0 °C/min
 File: 00053.001 DSC METTLER 05-Dec-95
 Ident: 0.0 222-S Laboratory

S95T003256 DUP N2
 24.379 mg
 Rate: 10.0 °C/min
 File: 00054.001 DSC METTLER 06-Dec-95
 Ident: 0.0 222-S Laboratory

Rae Ann Green
 12-6-95

S95T003257 SAM N2
 12.172 mg
 Rate: 10.0 °C/min
 File: 00055.001 DSC METTLER 06-Dec-95
 Ident: 0.0 222-S Laboratory

Rae Ann Green
 12-6-95

S95T003257 DUP N2
 10.403 mg
 Rate: 10.0 °C/min
 File: 00056.001 DSC METTLER 06-Dec-95
 Ident: 0.0 222-S Laboratory

Rae Ann Green
 12-6-95

LABCORE Data Entry Template for Worklist#

3879

Analyst: Jim Instrument: DSC0 1 Book # 1214B

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	28.45	30.4 2-12/4/95	N/A	Joules/g
95000161	B-204	2 SAMPLE	S95T003258	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	3 DUP	S95T003258	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000161	B-204	4 SAMPLE	S95T003259	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	5 DUP	S95T003259	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist #

3879

Jim 12/4/95
Analyst Signature Date

Jim 12-4-95
Analyst Signature Date

Verified by Blandina Valenzuela
12/6/95

Data Entry Comments: S95T003258 produced an endotherm at 91.8°C with a delta H of 1895.7 J/g.

S95T003259 produced an endotherm at 103.3°C with a delta H of 1830.5 J/g.

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.

BEST AVAILABLE COPY

DSC STD 12N14B
8.020 mg
Rate: 10.0 °C/min
File: 00008.001 DSC METTLER 03-Dec-95
Ident: 0.0 222-S Laboratory

R. D. Dwyer 12/4/95

BEST AVAILABLE COPY

S95T003258 SAM N2

8.530 mg

Rate: 10.0 °C/min

File: 00019.001 DSC METTLER 03-Dec-95

Ident: 0.0 222-S Laboratory

F. D. W. W. W. 12/4/95

BEST AVAILABLE COPY

S95T003258 DUP N2

10.453 mg

Rate: 10.0 °C/min

File: 00020.001 DSC METTLER 03-Dec-95

Ident: 0.0 222-S Laboratory

Signature 12/9/95

BEST AVAILABLE COPY

S95T003259 SAM N2
9.050 mg
Rate: 10.0 °C/min
File: 00021.001 DSC METTLER 03-Dec-95
Ident: 0.0 222-S Laboratory

PPM 12/9/95

BEST AVAILABLE COPY

S95T003259 DUP N2

10.200 mg

Rate: 10.0 °C/min

File: 00022.001 DSC METTLER 04-Dec-95

Ident: 0.0 222-S Laboratory

exo >

50. mW

Integration
 Delta H17207 mJ
 1687.0 J/g
 Peak 101.3°C
 -97.9 mW

100.

200.

300.

400.

°C

12/4/95

LABCORE Data Entry Template for Worklist#

3880

Analyst:

PM

Instrument: DSC0 1

Book # 12NH3

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u>	<u>30.4</u>	<u>N/A</u>	Joules/g
95000161	B-204	2 SAMPLE	S95T003260	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	3 DUP	S95T003260	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
95000161	B-204	4 SAMPLE	S95T003273	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	5 DUP	S95T003273	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist #

3880

PM

Analyst Signature

12/4/95

Date

PM

Analyst Signature

12/6/95

Date

Data Entry Comments:

S95T003260 produced an endotherm at 99.3°C at ^{12/6/95 PM} ~~1172.1~~
with a delta H of 1172.1 J/g.

S95T003273 produced an endotherm at 103.3°C with a delta H of
998.0 J/g

Units shown for Ø (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 220/221 TO 220/222

Signature 12/14/95

Revised 12/4/95

S95T003260 DUP N2
 18.400 mg
 Rate: 10.0 °C/min
 File: 00024.001 DSC METTLER 04-Dec-95
 Ident: 0.0 222-S Laboratory

S95T003273 SAM N2
 26.310 mg
 Rate: 10.0 °C/min
 File: 00032.001 DSC METTLER 05-Dec-95
 Ident: 0.0 222-S Laboratory

S95T003273 DUP N2
 26.680 mg
 Rate: 10.0 °C/min
 File: 00033.001 DSC METTLER 05-Dec-95
 Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3882

Analyst: RAG Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	<u>28.45</u> <u>30.5</u>	<u>30.5</u>	<u>N/A</u>	Joules/g
95000161	B-204	2 SAMPLE	S95T003274	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	3 DUP	S95T003274	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g
		4 STD			DSC-01	SOLID	<u>28.45</u>	<u>30.5</u>	<u>N/A</u>	Joules/g
95000161	B-204	5 SAMPLE	S95T003275	0	DSC-01	SOLID	<u>N/A</u>	<u>Ø</u>		Joules/g
95000161	B-204	6 DUP	S95T003275	0	DSC-01	SOLID	<u>Ø</u>	<u>Ø</u>	<u>N/A</u>	Joules/g

Final page for worklist #

3882

See attached for signatures
Analyst Signature 12/5/95

Sh. Kich 12-6-95
Analyst Signature Date

Verified by Blandina Valenzuela
10/6/95 12/6/95
12/6/95

Data Entry Comments: S95T003274 produced an endotherm at 105.3°C with
a delta H of 1554.4 J/g.
S95T003275 produced an endotherm at 99.3°C with a delta H of 915.6 J/g

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#

3882

Analyst: RJ Instrument: DSC0 Book # 12 N14-B

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID			N/A	Joules/g
95000161	B-204	2 SAMPLE	S95T003274	0	DSC-01	SOLID	N/A			Joules/g
95000161	B-204	3 DUP	S95T003274	0	DSC-01	SOLID			N/A	Joules/g
95000161	B-204	4 SAMPLE	S95T003275	0	DSC-01	SOLID	N/A			Joules/g
95000161	B-204	5 DUP	S95T003275	0	DSC-01	SOLID			N/A	Joules/g

Final page for worklist #

3882

Rae Ann Green 12-3-95
Analyst Signature Date

Ik Spell 12-5-95

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.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 208 TO 213

DSC STD 12N14B
8.020 mg

File: 00008.001 DSC METTLER 03-Dec-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

EXD Y

120.

140.

160.

180. °C

Rae Eun Green
12-3-95

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095T003274 SAN 12
 15.835 mg
 Rate: 10.0 °C/min
 File: 00015.001 NSC
 10000: 0.0 222.0 Laboratory
 03-DEC-95

Integration
 Data: 15.835 min
 Peak: 15.835 min
 Area: 15.835 min

Rae Ann Green
 12-3-95

BEST AVAILABLE COPY

S95T003274 DUP N2

17.922 mg

Rate: 10.0 °C/min

File: 00018.001 DSC METTLER 03-Dec-95

Ident: 0.0 222-S Laboratory

exo

Integration
Delta H 22684 mJ
Peak 103.3 °C
-96.3 mW

50 mW

100.

200.

300.

400.

°C

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DSC STD 12N14B
8.550 mg
File: 00027.001 DSC METTLER 04-Dec-95
Rate: 10.0 °C/min
Ident: 0.0 222-S Laboratory

Integration
Delta H 261 mJ
30.5 J/g
Peak 158.1 °C
-20.1 mW

180. °C
12.5 g

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S95T003275 N2

40.264 mg

File: 00028.001 DSC METTLER 04-Dec-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

exo >

50 mW

Integration
Delta H36867 mJ
915.6 J/g
Peak 99.3 °C
-88.5 mW

100.

200.

300.

400.

°C

2-212

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S95T003275 DUP N2
18.840 mg
Rate: 10.0 °C/min
File: 00029.001 DSC METTLER 04-Dec-95
Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3884

Analyst: Ym Instrument: DSC0 1 Book # 12114B

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	88.45	29.3	N/A	Joules/g
95000161	B-204	2 SAMPLE	S95T003276	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	3 DUP	S95T003276	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000161	B-204	4 SAMPLE	S95T003277	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	5 DUP	S95T003277	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist #

3884

R. Green 12/3/95
Analyst Signature Date

R. Green 12-4-95
Analyst Signature Date

R. Green 12/3/95

Verified by Blandina Valenzuela
12/6/95

Data Entry Comments:

S95T003276 produced an endotherm at 103.3°C with a delta H of 965.3 J/g.

S95T003277 produced an endotherm at 105.3°C with a delta H of 1434.4 J/g.

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 225 TO 229 BEST AVAILABLE COPY

DSC STD 12N14A N2
6.860 mg
Rate: 10.0 °C/min
File: 00093.001
Ident: 0.0
DSC METTLER
222-S Laboratory
02-Dec-95

EXOV

WHC-SD-WM-DP-160, REV. 1

WHC-SD-WM-DP-160, REV. 1

Integration
Delta H 201 mJ
29.3 J/g
Peak 157.4 °C
-17.0 mW

10. mW

120. 140. 160. 180. °C

Blandina Valenzuela for RDM
12/20/95

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S95T003276SAM N2

34.795 mg

Rate: 10.0 °C/min

File: 00007.001 DSC METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

exo

Integration

Delta H33588 mJ

965.3 J/g

Peak 103.3°C

-90.0 mW

50. mW

100.

200.

300.

400.

°C

600mg 12/3/95

BEST AVAILABLE COPY

S95T003276DUP N2

8.670 mg

Rate: 10.0 °C/min

File: 00009.001 DSC METTLER 03-Dec-95

Ident: 0.0 222-S Laboratory

exo

50. mW

100.

200.

300.

400.

°C

R. D. W. 12/13/95

BEST AVAILABLE COPY

S95T003277 SAM N2

22.140 mg

Rate: 10.0 °C/min

File: 00010.001 DSC METTLER 03-Dec-95

Ident: 0.0 222-S Laboratory

exo

Integration
Delta H31758 mJ
1434.4 J/g
Peak 105.3°C
-94.9 mW

Rae Ann Green
12-3-95

100. 200. 300. 400. °C

BEST AVAILABLE COPY

WHS-CD-WM-DP-160, REV. 1

S95T003277 DUP N2
20.842 mg
Rate: 10.0 °C/min
File: 00011.001 DSC METTLER 03-Dec-95
Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3891

Analyst: JDS Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID	28.45	*30.5	N/A	Joules/g
95000158	B-204	2 SAMPLE	S95T002986	0	DSC-01	LIQUID	N/A	Ø		Joules/g
95000158	B-204	3 DUP	S95T002986	0	DSC-01	LIQUID	Ø	Ø	N/A	Joules/g

Final page for worklist #

3891

See attached for signatures

Analyst Signature

Date

12/5/95

Analyst Signature

Date

12-6-95

Verified by Blandina Valenzuela
12/6/95

Data Entry Comments:

Sample produced an endotherm at 99.3°C
with a delta H of 1418.7 J/g

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#

3891

Analyst: _____ Instrument: DSC0 _____ Book # _____

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

Worklist Comment: Please run DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	LIQUID			N/A	Joules/g
95000198	AP-101 GRAB	2 SAMPLE	S95T003730	0	DSC-01	LIQUID	N/A			Joules/g
95000198	AP-101 GRAB	3 DUP	S95T003730	0	DSC-01	LIQUID			N/A	Joules/g
95000158	B-204	4 SAMPLE	S95T002986	0	DSC-01	LIQUID	N/A			Joules/g
95000158	B-204	5 DUP	S95T002986	0	DSC-01	LIQUID			N/A	Joules/g

Final page for worklist #

3891

Ida Spk 12-5-95
Analyst Signature Date

Analyst Signature Date

Worklist had to be
split due to
different projects on
one batch.
12/5/95

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.

2-221

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES ~~222~~ 224 TO 224.

BEST AVAILABLE COPY

DSC STD 12N14B

8.550 mg

Rate: 10.0 °C/min

File: 00027.001 DSC METTLER 04-Dec-95

Ident: 0.0 222-S Laboratory

2-222

BEST AVAILABLE COPY

S95T002986 N2
18.770 mg
Rate: 10.0 °C/min
File: 00030.001 DSC METTLER 05-Dec-95
Ident: 0.0 222-S Laboratory

Integration
Delta H26629 mJ
1418.7 J/g
Peak 99.3°C
-94.2 mW

BEST AVAILABLE COPY

S95T002986 DUP N2
19.100 mg
Rate: 10.0 °C/min
File: 00031.001 DSC METTLER 05-Dec-95
Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

4001

Analyst: JS Instrument: DSC0 1 Book # 12N14B

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

Worklist Comment: Please run B-204 DSCs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			DSC-01	SOLID	28.45	*31.3	N/A	Joules/g
95000161	B-204	2 SAMPLE	S95T003279	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	3 DUP	S95T003279	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000161	B-204	4 SAMPLE	S95T003280	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	5 DUP	S95T003280	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g
95000161	B-204	6 SAMPLE	S95T003281	0	DSC-01	SOLID	N/A	Ø		Joules/g
95000161	B-204	7 DUP	S95T003281	0	DSC-01	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist #

4001

JS 12-1-95
Analyst Signature Date

R. Jones 12-4-95
Analyst Signature Date

Verified by Blandina Valenzuela

Data Entry Comments: S95T003279 produced an endotherm at 103.3°C with a
delta H of 1054.0 J/g.

S95T003280 produced an endotherm at 99.3°C with a delta H of 1138.6 J/g
S95T003281 produced an endotherm at 99.3°C with a delta H of 1384.7 J/g.
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 ~~226~~ ²²⁷ TO ~~227~~ ²²⁸

BEST AVAILABLE COPY

DSC STD 12N14-B N2

8.020 mg

Rate: 10.0 °C/min

File: 00076.001

DSC METTLER

01-Dec-95

Ident: 0.0

222-S Laboratory

EXOV

10. mW

Integration

Delta H 251 mJ

31.3 J/g

Peak

158.2°C

-17.6 mW

R. Green

12-1-95

120.

140.

160.

180. °C

BEST AVAILABLE COPY

S95T003279 N2

27.250 mg

File: 00085.001 DSC METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

exo>

50. mW

Integration
Delta H28721 mJ
1054.0 J/g
Peak 103.3°C
-94.7 mW

100.

200.

300.

400.

°C

2-227

BEST AVAILABLE COPY

S95T003279 DUP N2

25.140 mg

Rate: 10.0 °C/min

File: 00087.001 DSC METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

2-228

BEST AVAILABLE COPY

S95T003280 N2

29.060 mg

Rate: 10.0 °C/min

File: 00089.001 DSC METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

exo >

50. mW

Integration
Delta H33110 mJ
1138.6 J/g
Peak 99.3°C
-94.4 mW

100.

200.

300.

400.

°C

BEST AVAILABLE COPY

S95T003280 DUP N2

10.980 mg

Rate: 10.0 °C/min

File: 00091.001 DSC METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

exo

Integration
Delta H17592 mJ
1616.9 J/g
Peak 101.9°C
-84.3 mW

50. mW

100.

200.

300.

400.

°C

BEST AVAILABLE COPY

S95T003281 SAM N2
22.900 mg
Rate: 10.0 °C/min
File: 00003.001 DSC METTLER 02-Dec-95
Ident: 0.0 222-S Laboratory

F. Wagner m/2/95

BEST AVAILABLE COPY

S95T003281 DUP N2
11.765 mg
Rate: 10.0 °C/min
File: 00005.001 DSC METTLER 02-Dec-95
Ident: 0.0 222-S Laboratory

100. 200. 300. 400. °C

R. D. Long 12/2/95

LABCORE Data Entry Template for Worklist#

3125

Analyst: Jds Instrument: TGA0 1 Book # 65N/8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	59.74	60.33*	N/A	%
95000158	B-204	2 SAMPLE	S95T002979	0	TGA-01	SOLID	N/A	79.15		%
95000158	B-204	3 DUP	S95T002979	0	TGA-01	SOLID	79.15	79.05	N/A	%
95000158	B-204	4 SAMPLE	S95T003037	0	TGA-01	SOLID	N/A	79.54		%
95000158	B-204	5 DUP	S95T003037	0	TGA-01	SOLID	79.54	81.37	N/A	%

Final page for worklist #

3125

Jds 12-14-95
Analyst Signature Date

R/S 12/14/95
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.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-234 TO 2-238

TGA STD 65NBA N2 36.952 mg Rate: 10.0 °C/min File: 00047.001 TG METTLER 13-Dec-95
 Ident: 0.0 222-S Laboratory

BEST AVAILABLE COPY

S95T002979 N2

46.620 mg

Rate: 10.0 °C/min

File: 00056.001 TG METTLER 13-Dec-85

Ident: 0.0 222-8 Laboratory

Step Analysis
Height-37.06 mg
-79.15 %
Resic. 9.76 mg
20.85 %
Dpeak 133.0 °C

Step Analysis
Height -0.80 mg
-1.72 %
Resic. 8.94 mg
19.09 %

BEST AVAILABLE COPY

S95T002979 DUP N2
 51.212 mg
 Rate: 10.0 °C/min
 File: 00058.001 TG METTLER 13-Dec-95
 Ident: 0.0 222-S Laboratory

BEST AVAILABLE COPY

S95T003037 N2

30.790 mg

File: 00062.001 TG METTLER 14-Dec-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height-26.49 mg
-79.54 %
Resid. 6.25 mg
20.50 %
Onset 114.0°C

BEST AVAILABLE COPY

S95T003037 DUP N2
41.933 mg
Rate: 10.0 °C/min
File: 00063.001 TG METTLER 14-Dec-95
Ident: 0.0 222-S Laboratory

LABCORE Data Entry Template for Worklist#

3147

Analyst: ADP Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>* 61.18</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003258	0	TGA-01	SOLID	<u>N/A</u>	<u>80.99</u>		%
95000161	B-204	3 DUP	S95T003258	0	TGA-01	SOLID	<u>80.99</u>	<u>81.59</u>	<u>N/A</u>	%
95000161	B-204	4 SAMPLE	S95T003259	0	TGA-01	SOLID	<u>N/A</u>	<u>81.36</u>		%
95000161	B-204	5 DUP	S95T003259	0	TGA-01	SOLID	<u>81.36</u>	<u>80.30</u>	<u>N/A</u>	%

Final page for worklist #

3147

Analyst Signature

11-29-95
Date

Analyst Signature

12-4-95
Date

Verified by 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 2-240 TO 2-244

TGA STD 65N8A

13.816 mg

File: 00029.001 TG METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height -8.45 mg
-61.18 %
Resid. 5.36 mg
38.82 %
Dpeak 80.8 °C

Infulton 11-29-95

BEST AVAILABLE COPY

File: 00039.001 TG METTLER 29-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003258 SAM N2
 54.829 mg Rate: 10.0 °C/min

Step Analysis
 Height-44.41 mg
 -80.99 %
 Resid. 10.42 mg
 19.01 %
 Dpeak 143.0 °C

BEST AVAILABLE COPY

S95T003258 DUP N2

42.581 mg

Rate: 10.0 °C/min

File: 00041.001 TG METTLER 30-Nov-95
Ident: 0.0 222-S Laboratory

BEST AVAILABLE COPY

S95T003259 SAM N2
57.591 mg

Rate: 10.0 °C/min

File: 00043.001 TG METTLER 30-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-46.86 mg
-81.36 %
ResidC. 10.74 mg
18.64 %
Dpeak 147.0 °C

BEST AVAILABLE COPY

S95T003259 DUP N2

37.723 mg

Rate: 10.0 °C/min

File: 00045.001 TG METTLER 30-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-30.29 mg
-80.30 %
Resid. 7.43 mg
19.70 %
Dpeak 123.0 °C

LABCORE Data Entry Template for Worklist#

3148

Analyst: RJM **Instrument:** TGA0 1 **Book #** 65N8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.62</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003267	0	TGA-01	SOLID	<u>N/A</u>	<u>81.30</u>		%
95000161	B-204	3 DUP	S95T003267	0	TGA-01	SOLID	<u>81.30</u>	<u>81.18</u>	<u>N/A</u>	%
95000161	B-204	4 SAMPLE	S95T003270	0	TGA-01	SOLID	<u>N/A</u>	<u>80.08</u>		%
95000161	B-204	5 DUP	S95T003270	0	TGA-01	SOLID	<u>80.08</u>	<u>78.54</u>	<u>N/A</u>	%
		6 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.71</u>	<u>N/A</u>	%
95000161	B-204	7 SAMPLE	S95T003271	0	TGA-01	SOLID	<u>N/A</u>	<u>78.59</u>		%
95000161	B-204	8 DUP	S95T003271	0	TGA-01	SOLID	<u>78.59</u>	<u>78.93</u>	<u>N/A</u>	%
95000158	B-204	9 SAMPLE	S95T003044	0	TGA-01	SOLID	<u>N/A</u>	<u>78.42</u>		%
95000158	B-204	10 DUP	S95T003044	0	TGA-01	SOLID	<u>78.42</u>	<u>78.24</u>	<u>N/A</u>	%
95000158	B-204	11 SAMPLE	S95T003045	0	TGA-01	SOLID	<u>N/A</u>	<u>79.13</u>		%
		12 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.00</u>	<u>N/A</u>	%
95000158	B-204	13 DUP	S95T003045	0	TGA-01	SOLID	<u>79.13</u>	<u>78.25</u>	<u>N/A</u>	%
95000158	B-204	14 SAMPLE	S95T003051	0	TGA-01	SOLID	<u>N/A</u>	<u>76.06</u>		%
95000158	B-204	15 DUP	S95T003051	0	TGA-01	SOLID	<u>76.06</u>	<u>77.66</u>	<u>N/A</u>	%

Final page for worklist #

3148

See attached for signatures

Verified by Blasddind Valenzuela 12/1/95

Data Entry Comments:

*S95T003044 duplicate has "stairs" in the thermogram
is due to static electricity in the instrument*

LABCORE Data Entry Template for Worklist#

3148

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

2-246

LABCORE Data Entry Template for Worklist#

3148

Analyst: Rm JMF Instrument: TGA0 Book # 65N8A

Method: LA-560-112 Rev/Mod _____

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000161	B-204	2 SAMPLE	S95T003267	0	TGA-01	SOLID	N/A			%
95000161	B-204	3 DUP	S95T003267	0	TGA-01	SOLID			N/A	%
95000161	B-204	4 SAMPLE	S95T003270	0	TGA-01	SOLID	N/A			%
95000161	B-204	5 DUP	S95T003270	0	TGA-01	SOLID			N/A	%
95000161	B-204	6 SAMPLE	S95T003271	0	TGA-01	SOLID	N/A			%
95000161	B-204	7 DUP	S95T003271	0	TGA-01	SOLID			N/A	%
95000158	B-204	8 SAMPLE	S95T003044	0	TGA-01	SOLID	N/A			%
95000158	B-204	9 DUP	S95T003044	0	TGA-01	SOLID			N/A	%
95000158	B-204	10 SAMPLE	S95T003045	0	TGA-01	SOLID	N/A			%
95000158	B-204	11 DUP	S95T003045	0	TGA-01	SOLID			N/A	%
95000158	B-204	12 SAMPLE	S95T003051	0	TGA-01	SOLID	N/A			%
95000158	B-204	13 DUP	S95T003051	0	TGA-01	SOLID			N/A	%

Final page for worklist #

3148

Lusie M. Dalton 11-28-95
Analyst Signature Date
R. McLean

R. Stach 11/30/95
Analyst Signature Date

Data Entry Comments:

Worklist needed to be edited

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.

2-247

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 249 TO 262

RJM

TGA STD 65NBA N2
25.692 mg
File: 00090.001
Ident: 0.0
TG METTLER
222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height-15.57 mg
-60.62 %
Resid. 10.11 mg
39.34 %
Dpeak 97.5°C

Blandina Valenzuela for S4F
12/6/95
RJM
12/6/95
80W

°C

Run

S95T003267 SAM N2

23.612 mg

Rate: 10.0 °C/min

File: 00093.001 TG METTLER 27-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
 Height-19.20 mg
 -81.30 %
 Resid. 4.38 mg
 18.55 %
 Dpeak 105.0 °C

Rgr

S95T003267 DUP N2
 24.355 mg
 Rate: 10.0 °C/min
 File: 00095.001 TG METTLER 27-Nov-95
 Ident: 0.0 222-S Laboratory

Rm

S95T003270 SAM N2
31.171 mg

File: 00097.001 TG METTLER 27-Nov-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height-24.96 mg
-80.08 %
Resid. 6.17 mg
19.81 %
Dpeak 117.0 °C

Run

S95T003270 DUP N2
21.726 mg

Rate: 10.0 °C/min

File: 00099.001 TG METTLER 27-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-17.06 mg
-78.54 %
Resid. 4.61 mg
21.24 %
Dpeak 95.0 °C

TGA STD 65N8A
21.387 mg

File: 00101.001 TG METTLER 27-Nov-95
Rate: 10.0 °C/min Ident: 0.0 222-S Laboratory

Step Analysis
Height-12.98 mg
-60.71 %
Resid. 8.40 mg
39.29 %
Dpeak 92.5°C

299
Susie M. Dalton 11-27-95

S95T003271 N2

30.138 mg

Rate: 10.0 °C/min

File: 00002.001 TG METTLER 27-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis

Height-23.68 mg

-78.59 %

Resid. 6.45 mg

21.41 %

Dpeak 119.0 °C

S95T003271 DUP N2
14.462 mg

File: 00004.001 TG METTLER 27-Nov-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height-11.41 mg
-78.93 %
Resid. 3.05 mg
21.07 %
Dpeak 83.0 °C

S95T003044 N2
29.072 mg

Rate: 10.0 °C/min

TG

METTLER

27-Nov-95

File: 00006.001
Ident: 0.0

222-S Laboratory

Step Analysis

Height-22.80 mg

-78.42 %

Resid. 6.27 mg

21.58 %

Dpeak 111.0°C

S95T003044 DUP N2
25.096 mg

Rate: 10.0 °C/min

File: 00008.001 TG METTLER 27-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
Height-20.42 mg
-78.24 %
Resid. 5.68 mg
21.76 %
Dpeak 105.0 °C

S95T003045 N2

25.106 mg

Rate: 10.0 °C/min

File: 00010.001

TG METTLER

27-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
Height-19.87 mg
-79.13 %
Resid. 5.24 mg
20.87 %
Dpeak 107.0 °C

10. mg

100.

200.

300.

400.

°C

2-258

WFO-CD-WM-DP-130, REV.1

Edna

TGA STD 65N8A N:2

24.286 mg

Rate: 10.0 °C/min

File: 00012.001

6f

METTLER

28-Nov-95

Ident: 0.0 222-S Laboratory

222-S Laboratory

WHC-SD-WM-DP-160, REV. I

Step Analysis

Height-14.57 mg

-00.09%

Resic. 9.70 mg

39.94 %

Peak 99.2°C

S95T003045 DUP N2
40.416 mg

Rate: 10.0 °C/min

File: 00014.001 TG METTLER 28-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-31.63 mg
-78.25 %
Resid. 8.79 mg
21.75 %
Dpeak 127.0 °C

WHC-SD-WM-DP-160, REV. I

S95T003051 N2
18.952 mg

File: 00016.001 TG METTLER 28-Nov-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height-14.42 mg
-76.06 %
Resid. 4.54 mg
23.94 %
Dpeak 93.0 °C

S95T003051 DUP N2
24.531 mg

Rate: 10.0 °C/min

File: 00019.001 TG METTLER 28-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-19.05 mg
Resic. 5.48 mg
Dpeak 107.0 °C

LABCORE Data Entry Template for Worklist#

3150

Analyst: SMF Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.01</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003261	0	TGA-01	SOLID	<u>N/A</u>	<u>80.24</u>		%
95000161	B-204	3 DUP	S95T003261	0	TGA-01	SOLID	<u>80.24</u>	<u>79.88</u>	<u>N/A</u>	%
95000161	B-204	4 SAMPLE	S95T003262	0	TGA-01	SOLID	<u>N/A</u>	<u>81.55</u>		%
95000161	B-204	5 DUP	S95T003262	0	TGA-01	SOLID	<u>81.55</u>	<u>81.50</u>	<u>N/A</u>	%
		6 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.76</u>	<u>N/A</u>	%
95000161	B-204	7 SAMPLE	S95T003263	0	TGA-01	SOLID	<u>N/A</u>	<u>72.88</u>		%
95000161	B-204	8 DUP	S95T003263	0	TGA-01	SOLID	<u>72.88</u>	<u>81.70</u>	<u>N/A</u>	%
95000161	B-204	9 SAMPLE	S95T003264	0	TGA-01	SOLID	<u>N/A</u>	<u>78.08</u>		%
95000161	B-204	10 DUP	S95T003264	0	TGA-01	SOLID	<u>78.08</u>	<u>74.93</u>	<u>N/A</u>	%
95000161	B-204	11 SAMPLE	S95T003265	0	TGA-01	SOLID	<u>N/A</u>	<u>82.78</u>		%
		12 STD			TGA-01	SOLID	<u>59.74</u>	<u>61.57</u>	<u>N/A</u>	%
95000161	B-204	13 DUP	S95T003265	0	TGA-01	SOLID	<u>82.78</u>	<u>81.74</u>	<u>N/A</u>	%
95000161	B-204	14 SAMPLE	S95T003266	0	TGA-01	SOLID	<u>N/A</u>	<u>79.93</u>		%
95000161	B-204	15 DUP	S95T003266	0	TGA-01	SOLID	<u>79.93</u>	<u>76.45</u>	<u>N/A</u>	%

Final page for worklist #

3150

See attached for signatures

Verified by Blandina Valenzuela 11/28/95 BDV
Data Entry Comments: 12/1/95

RLD 11/28/95

S95T003266 the peak seen on the thermogram
around 180-200°C is due to the movement of the instrument
itself.

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#

3150

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

3150

Analyst: SMF

Instrument: TGA0

Book # 65118A

Method: LA-560-112 Rev/Mod

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000161	B-204	2 SAMPLE	S95T003261	0	TGA-01	SOLID	N/A			%
95000161	B-204	3 DUP	S95T003261	0	TGA-01	SOLID			N/A	%
95000161	B-204	4 SAMPLE	S95T003262	0	TGA-01	SOLID	N/A			%
95000161	B-204	5 DUP	S95T003262	0	TGA-01	SOLID			N/A	%
95000161	B-204	6 SAMPLE	S95T003263	0	TGA-01	SOLID	N/A			%
95000161	B-204	7 DUP	S95T003263	0	TGA-01	SOLID			N/A	%
95000161	B-204	8 SAMPLE	S95T003264	0	TGA-01	SOLID	N/A			%
95000161	B-204	9 DUP	S95T003264	0	TGA-01	SOLID			N/A	%
95000161	B-204	10 SAMPLE	S95T003265	0	TGA-01	SOLID	N/A			%
95000161	B-204	11 DUP	S95T003265	0	TGA-01	SOLID			N/A	%
95000161	B-204	12 SAMPLE	S95T003266	0	TGA-01	SOLID	N/A			%
95000161	B-204	13 DUP	S95T003266	0	TGA-01	SOLID			N/A	%

Final page for worklist #

3150

Lusie M. Dulten 11-22-95
Analyst Signature Date
Dennis P. Brandy 11/23/95

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.

2-265

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2266 TO 2281

TGA STD 55N2A

50.764 mg

Rate: 10.0 °C/min

F116: 00044.004

TG

METTLER

02-NOV-95

Ident: 0.0

222-8 Laboratory

Step Analysis

Height-36.46 mg

-60.01 %

ResidC. 24.30 mg

39.99 %

Dpeak 138.3°C

50.

100.

150.

Blandina Valenzuela for SMF

WHC-SD-WM-DP-160, REV. 1

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S95T003261 N2

20.688 mg

Rate: 10.0 °C/min

File: 00029.001

TG METTLER

22-Nov-95

Ident: 0.0

222-S Laboratory

Step Analysis
Height-16.60 mg
-80.24 %
ResidC. 4.09 mg
19.76 %
Dpeak 97.0 °C

WHC-SD-WM-DP-160, REV. 1

S95T003261 DUP N2

20.670 mg

Rate: 10.0 °C/min

File: 00031.001 TG METTLER 22-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
 Height-16.51 mg
 -79.88 %
 ResidC. 4.16 mg
 20.12 %
 Dpeak 95.0 °C

S95T003262 N2

21.663 mg

Rate: 10.0 °C/min

File: 00033.001 TG METTLER 22-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
 Height-17.67 mg
 -81.55 %
 ResidC. 4.00 mg
 18.45 %
 Dpeak 97.0 °C

S95T003262DUP N2
 18.187 mg

Rate: 10.0 °C/min

File: 00035.004 TG METTLER 22-Nov-95
 Ident: 0.0 222-S Laboratory

Step Analysis
 Height-14.82 mg
 -81.50 %
 ResidC. 3.36 mg
 18.50 %
 Dpeak 91.0 °C

TGA STD 65N8A N2
22.855 mg

Rate: 10.0 °C/min

File: 00037.001 TG METTLER 22-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-13.89 mg
-60.76 %
ResidC. 8.96 mg
39.22 %
Dpeak 92.5°C

S95T003263 SAM N2
12.257 mg

File: 00039.001 TG METTLER 22-Nov-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis

Height -8.93 mg

-72.88 %

Resid. 3.32 mg

27.12 %

Dpeak 81.0 °C

S95T003263 DUP N2

28.639 mg

Rate: 10.0 °C/min

File: 00041.001 TG METTLER 23-Nov-95
Ident: 0.0 222-S Laboratory

S95T003264 SAM N2
 14.286 mg
 Rate: 10.0 °C/min
 File: 00043.001 TG METTLER 23-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003264 DUP N2

13.506 mg

Rate: 10.0 °C/min

File: 00045.001 TG METTLER 23-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-10.12 mg
-74.93 %
Resid. 3.39 mg
25.07 %
Dpeak 63.0 °C

File: 00047.001 TG METTLER 23-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003265 SAM N2
 17.658 mg Rate: 10.0 °C/min

TGA STD 65N8A
18.709 mg

Rate: 10.0 °C/min

File: 00049.001 TG METTLER 23-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-11.52 mg
-61.57 %
Resid. 7.19 mg
38.43 %
Dpeak 84.2 °C

Lucie M. Fulton

S95T003265 DUP N2

21.944 mg

Rate: 10.0 °C/min

File: 00051.001 TG METTLER 24-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis

Height-17.94 mg

-81.74 %

ResidC. 4.01 mg

18.26 %

Dpeak 95.0 °C

S95T003266 N2

21.199 mg

File: 00053.001 TG METTLER 24-Nov-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis

Height-16.94 mg

-79.93 %

Resid. 4.26 mg

20.07 %

Dpeak 93.0 °C

S95T003266 DUP N2
 32.455 mg
 Rate: 10.0 °C/min
 File: 00055.001 TG METTLER 24-Nov-95
 Ident: 0.0 222-S Laboratory

Step Analysis
 Height-24.81 mg
 -76.45 %
 ResiC. 7.64 mg
 23.55 %
 Dpeak 105.0 °C

LABCORE Data Entry Template for Worklist#

3151

Analyst: ADP Instrument: TGA0 3 Book # 65N8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.74</u>	<u>60.39</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003256	0	TGA-03	SOLID	<u>N/A</u>	<u>78.00</u>		%
95000161	B-204	3 DUP	S95T003256	0	TGA-03	SOLID	<u>78.00</u>	<u>80.86</u>	<u>N/A</u>	%
95000161	B-204	4 SAMPLE	S95T003257	0	TGA-03	SOLID	<u>N/A</u>	<u>80.93</u>		%
95000161	B-204	5 DUP	S95T003257	0	TGA-03	SOLID	<u>80.93</u>	<u>81.14</u>	<u>N/A</u>	%

Final page for worklist #

3151

See attached for signatures
Analyst Signature 12/4/95

Frank Conlin
Analyst Signature 12/4/95

Verified by *Blandina Valenzuela*
12/6/95

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.

2-282

LABCORE Data Entry Template for Worklist#

3151

Analyst: ADP Instrument: TGA0 Book # 65N8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000161	B-204	2 SAMPLE	S95T003256	0	TGA-01	SOLID	N/A			%
95000161	B-204	3 DUP	S95T003256	0	TGA-01	SOLID			N/A	%
95000161	B-204	4 SAMPLE	S95T003257	0	TGA-01	SOLID	N/A			%
95000161	B-204	5 DUP	S95T003257	0	TGA-01	SOLID			N/A	%

Final page for worklist #

3151

ADP
Analyst Signature Date 11-29-95

Analyst Signature Date

Other instrument
was used
12/4/95
BDV

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.

2-283

Curve 1: TGA

File Info: TER412801 Wed Nov 29 02:44:37 1995

Sample Weight: 14.328 mg

65N8-A Terliq

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SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 284 TO 289

Atty. Gen. 11-29-95

N2 10C/MIN
 TEMPERATURE 25.0 °C
 TIME: 00.0 C
 RATE: 0.0 min RATE: 10.0 C/min
 Temperature (°C)
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 29 02:47:06 1995

Curve 1: TGA
 File Info: TER112801 Wed Nov 29 02:44:37 1995
 Sample Weight: 14.328 mg
 65N8-A Terliq

BEST AVAILABLE COPY

N2 10C/MIN
 TEMP: 35.8 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 29 02:47:06 1995

BEST AVAILABLE COPY

Curve 1: TGA
 File info: SAM112901 Wed Nov 29 05:13:07 1995
 Sample Weight: 16.404 mg
 S95T003256 SAM

10C/MIN N2
 TEMP: 50.0 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 29 05:13:37 1995

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Curve 1: TGA
 File info: SAM112902 Wed Nov 29 06:20:28 1995
 Sample Weight: 16.699 mg
 S95T003256 DUP

10C/MIN N2
 TGA: 30.0 C TIME: 0.0 min RATE: 10.0 C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 29 09:18:47 1995

2-287

Curve 1: TGA
 File info: SAM112903 Wed Nov 29 14:22:39 1995
 Sample Weight: 12.861 mg
 S95T003257

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10C/MIN N2
 TEMP: 35.0 °C
 TIME: 00:08
 0.0 min RATE: 10.0 C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 29 16:22:53 1995

Curve 1: TGA
 File info: SAM112904 Wed Nov 29 17:24:04 1995
 Sample Weight: 14.755 mg
 S95T003257 DUP

BEST AVAILABLE COPY

10C/MIN N2
 TEMPS: 35.0 C
 TIME: 0.0 min RATE: 10.0 C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 29 17:27:49 1995

LABCORE Data Entry Template for Worklist#

3321

Analyst: SMF Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>59.97</u>	<u>N/A</u>	%
95000158	B-204	2 SAMPLE	S95T003038	0	TGA-01	SOLID	<u>N/A</u>	<u>77.62</u>		%
95000158	B-204	3 DUP	S95T003038	0	TGA-01	SOLID	<u>77.62</u>	<u>78.23</u>	<u>N/A</u>	%
95000158	B-204	4 SAMPLE	S95T003039	0	TGA-01	SOLID	<u>N/A</u>	<u>78.72</u>		%
95000158	B-204	5 DUP	S95T003039	0	TGA-01	SOLID	<u>78.72</u>	<u>78.41</u>	<u>N/A</u>	%
95000158	B-204	6 SAMPLE	S95T003040	0	TGA-01	SOLID	<u>N/A</u>	<u>76.62</u>		%
		7 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.35</u>	<u>N/A</u>	%
95000158	B-204	8 DUP	S95T003040	0	TGA-01	SOLID	<u>76.62</u>	<u>76.78</u>	<u>N/A</u>	%
		9 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.69</u>	<u>N/A</u>	%
95000158	B-204	10 SAMPLE	S95T003041	0	TGA-01	SOLID	<u>N/A</u>	<u>71.32</u>		%
95000158	B-204	11 DUP	S95T003041	0	TGA-01	SOLID	<u>71.32</u>	<u>76.70</u>	<u>N/A</u>	%
95000158	B-204	12 SAMPLE	S95T003042	0	TGA-01	SOLID	<u>N/A</u>	<u>79.35</u>		%
95000158	B-204	13 DUP	S95T003042	0	TGA-01	SOLID	<u>79.35</u>	<u>79.80</u>	<u>N/A</u>	%
95000158	B-204	14 SAMPLE	S95T003043	0	TGA-01	SOLID	<u>N/A</u>	<u>72.54</u>		%
95000158	B-204	15 DUP	S95T003043	0	TGA-01	SOLID	<u>72.54</u>	<u>77.90</u>	<u>N/A</u>	%

Final page for worklist #

3321

See attached for signatures.
Verified by Blandina Valenzuela 12/1/95
Data Entry Comments:

Sharon L. Usher 11-28-95

LABCORE Data Entry Template for Worklist#

3321

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

2-291

LABCORE Data Entry Template for Worklist#

3321

Analyst: JSMF Instrument: TGA0 Book # 6528A

Method: LA-560-112 Rev/Mod _____

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000158	B-204	2 SAMPLE	S95T003038	0	TGA-01	SOLID	N/A			%
95000158	B-204	3 DUP	S95T003038	0	TGA-01	SOLID			N/A	%
95000158	B-204	4 SAMPLE	S95T003039	0	TGA-01	SOLID	N/A			%
95000158	B-204	5 DUP	S95T003039	0	TGA-01	SOLID			N/A	%
95000158	B-204	6 SAMPLE	S95T003040	0	TGA-01	SOLID	N/A			%
95000158	B-204	7 DUP	S95T003040	0	TGA-01	SOLID			N/A	%
95000158	B-204	8 SAMPLE	S95T003041	0	TGA-01	SOLID	N/A			%
95000158	B-204	9 DUP	S95T003041	0	TGA-01	SOLID			N/A	%
95000158	B-204	10 SAMPLE	S95T003042	0	TGA-01	SOLID	N/A			%
95000158	B-204	11 DUP	S95T003042	0	TGA-01	SOLID			N/A	%
95000158	B-204	12 SAMPLE	S95T003043	0	TGA-01	SOLID	N/A			%
95000158	B-204	13 DUP	S95T003043	0	TGA-01	SOLID			N/A	%

Final page for worklist #

3321

Analyst Signature _____ Date _____

Luse M. Fulton 11-21-95
2330

Sharon L. Uchida 11-28-95
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.

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-285 TO 2-307

TGA STD 65N8A

60.764 mg

Rate: 10.0 °C/min

File: 00014.001

TG

METTLER

21-NOV-95

Ident: 0.0

222-S Laboratory

Step Analysis
Height-36.44 mg
-59.97 %
Resid. 24.31 mg
40.00 %
Dpeak 138.3°C

150. Bandina Valeriana for SMF 12/8/95

S95T003038 N2

18.988 mg

Rate: 10.0 °C/min

File: 00021.001 TG METTLER 21-Nov-95
Ident: 0.0 222-S Laboratory

WHC-SD-WM-DP-160, REV. 1

S95T003038 DUP N2
 20.125 mg
 Rate: 10.0 °C/min
 File: 00027.001 TG METTLER 21-Nov-95
 Ident: 0.0 222-S Laboratory

S95T003039

22.820 mg

Rate: 10.0 °C/min

File: 00017.001 TG METTLER 21-Nov-95

Ident: 0.0 222-S Laboratory

WHC-SD-WM-DP-160, REV. 1

Step Analysis
Height-17.96 mg
-78.72 %
Resid. 4.86 mg
21.28 %
Dpeak 103.0 °C

962-2

S95T003039DUP

42.695 mg

Rate: 10.0 °C/min

File: 00019.001 TG METTLER 21-Nov-95

Ident: 0.0 222-S Laboratory

WHO-SD-WM-DP-160, REV. 1

Step Analysis
Height-33.48 mg
-78.41 %
ResidC. 9.04 mg
21.18 %
Dpeak 125.0 °C

S95T003040 N2

49.972 mg

Rate: 10.0 °C/min

File: 00004.001 TG METTLER 17-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis

Height-38.29 mg

-76.62 %

Resid. 11.63 mg

23.28 %

Dpeak 131.0 °C

20. mg

WHO-CD-WIA-DP-160, REV. 1

TGA STD 65N8A

55.601 mg

Rate: 10.0 °C/min

File: 00008.001

TG

20-Nov-95

Ident: 0.0

222-S

Laboratory

Step Analysis
Height-33.56 mg
-60.35 %
ResidC. 22.01 mg
39.58 %
Dpeak 135.0 °C

WHC-SD-WM-DP-160, REV. 1

S95T003040 DUP N2

9.890 mg

Rate: 10.0 °C/min

File: 00010.001 TG METTLER 20-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis

Height -7.59 mg

-76.78 %

ResidC. 2.30 mg

23.22 %

Dpeak 71.0 °C

WHC-S3-WM-DP-180, REV. 1

TGA STD 65N8A

39.989 mg

Rate: 10.0 °C/min

File: 00103.001

TG

METTLER

16-Nov-95

Ident: 0.0

222-S

Laboratory

Step Analysis

Height-24.27 mg

-60.69 %

ResidC. 15.72 mg

39.30 %

Dpeak 117.5°C

WPC-SD-WM-DP-160, REV. 1

10. mg

50.

100.

150.

200.

°C

100-2

12.809 mg

Rate: 10.0 °C/min

File: 00105.001 TG METTLER 16-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis	
Height	-9.14 mg
	-71.32 %
Resic.	3.67 mg
	28.68 %
Dpeak	79.0°C

5. 6w

WFOC-SE-WM-DP-160, REV. 1

S95T003041 DUP N2

38.164 mg

Rate: 10.0 °C/min

File: 00012.001 TG METTLER 20-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
Height-29.27 mg
-76.70 %
ResidC. 8.82 mg
23.10 %
Dpeak 115.0 °C

10. mg

WNC-CD-WM-DP-160, REV. 1

S95T003042 N2

34.993 mg

File: 00110.001 TG METTLER 17-Nov-95

Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

WHO-SE-WM-DP-100, REV. 1

Step Analysis
Height-27.77 mg
-79.35 %
Resid. 7.23 mg
20.65 %
Dpeak 115.0 °C

10. mg

2-304

CDM 11/17/95

S95T003042DUP N2

17.270 mg

Rate: 10.0 °C/min

File: 00111.001

TG METTLER

17-Nov-95

Ident: 0.0

222-S Laboratory

Step Analysis
Height-13.78 mg
ResiC. 3.49 mg
Dpeak 20.20 %
93.0 °C

WHC-SD-V/V-DP-160, REV. I

Handwritten signature 11/17/95

S95T003043 N2

14.950 mg

Rate: 10.0 °C/min

File: 00142.001 TG METTLER 17-Nov-95
Ident: 0.0 222-S Laboratory

```

Step Analysis
Height--10.84 mg
      -72.54 %
Resic.  4.11 mg
      27.46 %
Dpeak   87.0°C
  
```

WHC-SD-WM-DP-160, REV. 1

[Signature] 5/4/11

S95T003043 N2

25.282 mg

Rate: 10.0 °C/min

File: 00003.001

Ident: 0.0

TG

METTLER

17-Nov-95

222-S Laboratory

Step Analysis

Height-19.69 mg

-77.90 %

Resid. 5.54 mg

21.90 %

Dpeak 99.0 °C

WMO-CD-WM-DP-160, REV. I

LABCORE Data Entry Template for Worklist#

3334

Analyst: SME Instrument: TGA0 3 Book # 65N8A

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.74</u>	<u>60.53</u>	<u>N/A</u>	%
95000158	B-204	2 SAMPLE	S95T003048	0	TGA-03	SOLID	<u>N/A</u>	<u>67.37</u>		%
95000158	B-204	3 DUP	S95T003048	0	TGA-03	SOLID	<u>67.37</u>	<u>78.38</u>	<u>N/A</u>	%
95000158	B-204	4 SAMPLE	S95T003049	0	TGA-03	SOLID	<u>N/A</u>	<u>76.86</u>		%
95000158	B-204	5 DUP	S95T003049	0	TGA-03	SOLID	<u>76.86</u>	<u>74.70</u>	<u>N/A</u>	%
		6 STD			TGA-03	SOLID	<u>59.74</u>	<u>60.43</u>	<u>N/A</u>	%
95000158	B-204	7 SAMPLE	S95T003050	0	TGA-03	SOLID	<u>N/A</u>	<u>78.64</u>		%
95000158	B-204	8 DUP	S95T003050	0	TGA-03	SOLID	<u>78.64</u>	<u>77.93</u>	<u>N/A</u>	%
95000158	B-204	9 SAMPLE	S95T003058	0	TGA-03	SOLID	<u>N/A</u>	<u>78.17</u>		%
95000158	B-204	10 DUP	S95T003058	0	TGA-03	SOLID	<u>78.17</u>	<u>78.78</u>	<u>N/A</u>	%
95000158	B-204	11 SAMPLE	S95T003059	0	TGA-03	SOLID	<u>N/A</u>	<u>71.02</u>		%
95000158	B-204	12 DUP	S95T003059	0	TGA-03	SOLID	<u>71.02</u>	<u>76.12</u>	<u>N/A</u>	%
95000158	B-204	13 SAMPLE	S95T003060	0	TGA-03	SOLID	<u>N/A</u>	<u>76.17</u>		%
95000158	B-204	14 DUP	S95T003060	0	TGA-03	SOLID	<u>76.17</u>	<u>77.86</u>	<u>N/A</u>	%

Final page for worklist #

3334

See attached for signature
Analyst Signature

Date

KE Wright 11/30/95
Analyst Signature Date

Verified by Blandina Valenzuela
12/1/95

Data Entry Comments:

LABCORE Data Entry Template for Worklist#

3334

Analyst: SMF Instrument: TGA0 Book # 65N8A

Method: LA ⁵¹⁴⁻¹¹⁴~~560-112~~ Rev/Mod C-1
SMF 11-22-95

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000158	B-204	2 SAMPLE	S95T003048	0	TGA-01	SOLID	N/A			%
95000158	B-204	3 DUP	S95T003048	0	TGA-01	SOLID			N/A	%
95000158	B-204	4 SAMPLE	S95T003049	0	TGA-01	SOLID	N/A			%
95000158	B-204	5 DUP	S95T003049	0	TGA-01	SOLID			N/A	%
95000158	B-204	6 SAMPLE	S95T003050	0	TGA-01	SOLID	N/A			%
95000158	B-204	7 DUP	S95T003050	0	TGA-01	SOLID			N/A	%
95000158	B-204	8 SAMPLE	S95T003058	0	TGA-01	SOLID	N/A			%
95000158	B-204	9 DUP	S95T003058	0	TGA-01	SOLID			N/A	%
95000158	B-204	10 SAMPLE	S95T003059	0	TGA-01	SOLID	N/A			%
95000158	B-204	11 DUP	S95T003059	0	TGA-01	SOLID			N/A	%
95000158	B-204	12 SAMPLE	S95T003060	0	TGA-01	SOLID	N/A			%
95000158	B-204	13 DUP	S95T003060	0	TGA-01	SOLID			N/A	%

Final page for worklist #

3334

Lusie M. Dutton 11-22-95
Analyst Signature Date

Ken Wright 11/20/95
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.

Curve 1: TGA

File Info: TER112201 Wed Nov 22 04: 25: 51 1995

Sample Weight: 29.216 mg

65N8-A Ter112
SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2.510 TO 2.523

WHO-SD-WM-DP-160, REV. 1

N2 10C/MIN

TEMP: 35.0 °C
TIME: 200.0 s
RATES: 0.0 min RATES: 10.0 °C/min

Curve 1: TGA
 File info: SAM112204 Wed Nov 22 21:30:20 1995
 Sample Weight: 17.246 mg
 -9951003746 SAMF 11-22-95
 5957003048

10C/MIN N2
 TEMP: 35.0 °C
 TIME: 600.0 s
 RATE: 0.0 min RATE: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Nov 22 21:58:32 1995

Curve 1: TGA
 File Info: SAM112205 Wed Nov 22 22:52:49 1995
 Sample Weight: 14.915 mg
 S95T003048 DUP

10C/MIN N2
 Temp: 50.0 °C
 Time: 500.0 s

SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 00:36:53 1995

Curve 1: TGA

File Info: SAM112206 Thu Nov 23 01:26:46 1995

Sample Weight: 17.673 mg

S95T003049

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 C/min

Temperature (°C)

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Nov 23 01:31:18 1995

Curve 1: TGA
 File Info: SAM112207 Thu Nov 23 02:49:00 1995
 Sample Weight: 5.679 mg
 S95T003049 DUP

SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 04:15:36 1995

10C/MIN N2
 TEMP: 35.0 C
 TIME: 000.0 S
 0.0 min RATE: 10.0 C/min

Curve 1: TGA
 File Info: TER112301 Thu Nov 23 04:53:38 1995
 Sample Weight: 15.606 mg
 65N8-A Ter11q

SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 17:26:40 1995

Temperature (°C)

10.0 °C/min

0.0 min RATE

N2 100/MIN

TEMP: 25.0 °C
 TIME: 300.0 s

Curve 1: TGA
 File info: SAM112301 Thu Nov 23 18:32:18 1995
 Sample Weight: 22.579 mg
 S95T003050

10C/MIN N2
 TEMPI: 35.0 C
 TEMPE: 500.0 C
 TIME1: 0.0 min RATE1: 10.0 C/min
 Temperature (°C)
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 21:05:34 1995

Curve 1: TGA

File info: SAM112302 Thu Nov 23 19:48:56 1995

Sample Weight: 21.044 mg

S95T003050 DUP

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Nov 23 21:33:29 1995

10C/MIN N2
TEMP: 35.0 °C
TIME: 0.0 min RATE: 10.0 °C/min

Curve 1: T6A
 File info: SAM112303 Thu Nov 23 21:16:22 1995
 Sample Weight: 17.321 mg
 S95T003058

10C/MIN N2
 TEMP1: 35.0 °C
 TEMP2: 500.0 °C
 TIME1: 0.0 min
 RATE1: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 21:40:31 1995

Curve 1: TGA
 File info: SAM112304 Thu Nov 23 22:26:30 1995
 Sample Weight: 22.143 mg
 S95T003058 DUP

10C/MIN N2
 TEMP: 35.0 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 23 22:38:25 1995

Curve 1: TGA
 File info: SAM112305 Thu Nov 23 23:36:14 1995
 Sample Weight: 23.112 mg
 S95T003059

10C/MIN N2
 TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min
 SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Nov 24 01:04:08 1995

Curve 1: TGA
 File Info: SAM112306 Fri Nov 24 01:47:30 1995
 Sample Weight: 19.469 mg
 S95T003059 DUP

SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Nov 24 02:12:56 1995

10C/MIN N2
 TEMP: 35.0 C
 TIME: 0.0 min RATE: 10.0 C/min

Curve 1: TGA

File info: SAM112307 Fri Nov 24 02:58:40 1995

Sample Weight: 13.872 mg

S95T003060

10C/MIN N2

TEMP1: 30.0 °C TIME1: 0.0 min RATE1: 10.0 °C/min
TEMP2: 500.0 °C

Temperature (°C)

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Nov 24 03:33:31 1995

Curve 1: TGA
 File info: SAM112308 Fri Nov 24 04:24:25 1995
 Sample Weight: 16.677 mg
 S95T003060 DUP

WHO-SD-WM-DP-160, REV. 1

Lucie M. Fulton 11-23-95

SM FULTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Nov 24 04:29:59 1995

10C/MIN N2
 TEMPE 35.0 C
 TIME: 0.0 min RATE: 10.0 C/min

LABCORE Data Entry Template for Worklist#

3335

Analyst: PJM Instrument: TGA0 3 Book # 65N8A

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.74</u>	<u>60.51</u>	<u>N/A</u>	%
95000158	B-204	2 SAMPLE	S95T003046	0	TGA-03	SOLID	<u>N/A</u>	<u>75.26</u>		%
95000158	B-204	3 DUP	S95T003046	0	TGA-03	SOLID	<u>75.26</u>	<u>75.45</u>	<u>N/A</u>	%
95000158	B-204	4 SAMPLE	S95T003047	0	TGA-03	SOLID	<u>N/A</u>	<u>77.48</u>		%
95000158	B-204	5 DUP	S95T003047	0	TGA-03	SOLID	<u>77.48</u>	<u>78.95</u>	<u>N/A</u>	%
95000158	B-204	6 SAMPLE	S95T003053	0	TGA-03	SOLID	<u>N/A</u>	<u>78.22</u>		%
95000158	B-204	7 DUP	S95T003053	0	TGA-03	SOLID	<u>78.22</u>	<u>76.60</u>	<u>N/A</u>	%
95000158	B-204	8 SAMPLE	S95T003054	0	TGA-03	SOLID	<u>N/A</u>	<u>78.56</u>		%
95000158	B-204	9 DUP	S95T003054	0	TGA-03	SOLID	<u>78.56</u>	<u>76.57</u>	<u>N/A</u>	%
95000158	B-204	10 SAMPLE	S95T003055	0	TGA-03	SOLID	<u>N/A</u>	<u>78.59</u>		%
95000158	B-204	11 DUP	S95T003055	0	TGA-03	SOLID	<u>78.59</u>	<u>76.96</u>	<u>N/A</u>	%
		12 STD			TGA-03	SOLID	<u>59.74</u>	<u>60.41</u>	<u>N/A</u>	%
95000158	B-204	13 SAMPLE	S95T003056	0	TGA-03	SOLID	<u>N/A</u>	<u>76.53</u>		%
95000158	B-204	14 DUP	S95T003056	0	TGA-03	SOLID	<u>76.53</u>	<u>75.85</u>	<u>N/A</u>	%
95000158	B-204	15 SAMPLE	S95T003057	0	TGA-03	SOLID	<u>N/A</u>	<u>78.39</u>		%
95000158	B-204	16 DUP	S95T003057	0	TGA-03	SOLID	<u>78.39</u>	<u>78.31</u>	<u>N/A</u>	%

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#

3335

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

Final page for worklist #

3335

See attached for signatures
Analyst Signature *[Signature]* Date 11/27/95

Dany Hammit 11-28-95
Analyst Signature Date

Verified by *Blandina Valenzuela*
12/1/95

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#

3335

Analyst: Rm App

Instrument: TGA0

Book # 65108A

Method: LA-560-112 Rev/Mod

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000158	B-204	2 SAMPLE	S95T003046	0	TGA-01	SOLID	N/A			%
95000158	B-204	3 DUP	S95T003046	0	TGA-01	SOLID			N/A	%
95000158	B-204	4 SAMPLE	S95T003047	0	TGA-01	SOLID	N/A			%
95000158	B-204	5 DUP	S95T003047	0	TGA-01	SOLID			N/A	%
95000158	B-204	6 SAMPLE	S95T003053	0	TGA-01	SOLID	N/A			%
95000158	B-204	7 DUP	S95T003053	0	TGA-01	SOLID			N/A	%
95000158	B-204	8 SAMPLE	S95T003054	0	TGA-01	SOLID	N/A			%
95000158	B-204	9 DUP	S95T003054	0	TGA-01	SOLID			N/A	%
95000158	B-204	10 SAMPLE	S95T003055	0	TGA-01	SOLID	N/A			%
95000158	B-204	11 DUP	S95T003055	0	TGA-01	SOLID			N/A	%
95000158	B-204	12 SAMPLE	S95T003056	0	TGA-01	SOLID	N/A			%
95000158	B-204	13 DUP	S95T003056	0	TGA-01	SOLID			N/A	%
95000158	B-204	14 SAMPLE	S95T003057	0	TGA-01	SOLID	N/A			%
95000158	B-204	15 DUP	S95T003057	0	TGA-01	SOLID			N/A	%

Final page for worklist #

3335

Anthony R. Rute
Rt McCown

Data Entry Comments:

Other instrument was used

11/27/95

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.

Curve 1: TGA

File info: TER112501 Sat Nov 25 20:10:31 1995

Sample Weight: 18.875 mg

65N8-A TGA

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-327 TO 2-342

N2 10C/MIN

TEMP: 30.0 °C
TIME: 500.0 s

3.0 min RATE: 10.0 °C/min

Temperature (°C)

PJ MCCOWN

PERKIN-ELMER

7 Series Thermal Analysis System
Sat Nov 25 23:54:11 1995

Curve 1: TGA
 File Info: SAM112601 Sun Nov 26 02:59:33 1995
 Sample Weight: 12.676 mg
 S95T003046 SAM

PJ MCCOWN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 02:59:52 1995

10C/MIN N2
 TEMP: 30.0 °C
 TIME: 500.0 s
 RATE: 0.0 min RATE: 10.0 C/min

Curve 1: TGA
 File Info: SAM112602 Sun Nov 26 04:20:27 1995
 Sample Weight: 16.055 mg
 S95T003046 DUP

PJ MCCOWN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 04:26:01 1995

10C/MIN N2
 TEMP: 35.0 °C
 TIME: 00:00
 RATE: 0.0 min RATE: 10.0 C/min

Curve 1: TGA
 File info: SAM112603 Sun Nov 26 07:49:01 1995
 Sample Weight: 20.869 mg
 S95T003047 SAM

AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 07:50:53 1995

10C/MIN N2
 TEMP: 35.0 °C
 TIME: 500.0 s
 RATE: 0.0 min RATE: 10.0 C/min

Curve 1: TGA
 File info: SAM112604 Sun Nov 26 09:01:41 1995
 Sample Weight: 19.263 mg
 S95T003047 DUP

10C/MIN N2
 TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 09:25:37 1995

Curve 1: TGA

File info: SAM112605 Sun Nov 26 10:17:53 1995

Sample Weight: 24.249 mg

S95T003053 SAM

WHC-SD WIM-DP-160, REV. I

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Nov 26 10:24:50 1995

Curve 1: TGA
 File Info: SAM112606 Sun Nov 26 11:33:57 1995
 Sample Weight: 22.828 mg
 S95T003053 DUP

AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 11:35:16 1995

Curve 1: TGA
 File info: SAM112607 Sun Nov 26 12:51:56 1995
 Sample Weight: 22.519 mg
 S95T003054 SAM

10C/MIN N2
 TEMPS: 35.0 °C TIME: 0.0 min RATE: 10.0 C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 13:35:41 1995

Curve 1: TGA

File Info: SAM112608 Sun Nov 26 14:36:12 1995

Sample Weight: 21.292 mg

S95T003054 DUP

WHC-ED-WM-DP-160, REV. 1

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Temperature (°C)

AD PURINTON
PERKIN-ELMER

7 Series Thermal Analysis System
Sun Nov 26 14:46:56 1995

Curve 1: TGA

File info: SAM112609 Sun Nov 26 15:53:20 1995

Sample Weight: 21.658 mg

S95T003055 SAM

WHO-8D-WM-DP-160, REV. 1

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Nov 26 15:59:16 1995

Curve 1: TGA
 File info: SAM112610 Sun Nov 26 17:11:53 1995
 Sample Weight: 24.496 mg
 S95T003055 DUP

10C/MIN N2
 TEMPS: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sun Nov 26 17:14:02 1995

Curve 1: TGA

File Info: TER112601 Sun Nov 26 21:32:12 1995

Sample Weight: 21.617 mg

65N8-A Terliq

Weight (Wt. %)

2-338

WHC-SD-WM-DP-160, REV. 1

N2 10C/MIN

TEMP: 25.0 °C

TIME: 500.0 S

0.0 min RATE: 10.0 C/min

Temperature (°C)

PJ MCCOWN

PERKIN-ELMER

7 Series Thermal Analysis System

Sun Nov 26 21:33:21 1995

Curve 1: TGA

File info: SAM112611 Sun Nov 26 23:27:23 1995

Sample Weight: 19.569 mg

S95T003056 SAM

WHC-SD-WM-DP-160, REV. 1

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

PJ MCCOY
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Nov 26 23:27:38 1995

Curve 1: TGA
 File info: SAM112612 Mon Nov 27 00:43:40 1995
 Sample Weight: 17.995 mg
 S95T003056 DUP

10C/MIN N2
 TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min
 PJ MCCOMB
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Mon Nov 27 00:46:42 1995

Curve 1: TGA
 File Info: SAM112701 Mon Nov 27 02:38:37 1995
 Sample Weight: 17.515 mg
 S95T003057 SAM

10C/MIN N2
 TEMPERATURE 35.0 C
 TIME 0.0 min RATE 10.0 C/min
 PJ MCCOWN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Mon Nov 27 02:38:55 1995

Curve 1: TGA
 File info: SAM112702 Mon Nov 27 03: 49: 05 1995
 Sample Weight: 24.581 mg
 S95T003057 DUP

WHO-SD-WM-DP-160, REV. 1

PJ MCCOWN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Mon Nov 27 03: 49: 36 1995

10C/MIN N2
 TEMP: 50.0 C
 TIME: 500.0 C
 0.0 min RATE: 10.0 C/min

2-342

LABCORE Data Entry Template for Worklist#

3667

Analyst: SM Instrument: TGA0 1 Book # 65N84

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>59.89</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003268	0	TGA-01	SOLID	<u>N/A</u>	<u>80.15</u>		%
95000161	B-204	3 DUP	S95T003268	0	TGA-01	SOLID	<u>80.15</u>	<u>79.76</u>	<u>N/A</u>	%
95000161	B-204	4 SAMPLE	S95T003269	0	TGA-01	SOLID	<u>N/A</u>	<u>79.78</u>		%
95000161	B-204	5 DUP	S95T003269	0	TGA-01	SOLID	<u>79.78</u>	<u>79.12</u>	<u>N/A</u>	%

Final page for worklist #

3667

Susie M. Oulton 11.28.95
Analyst Signature Date

AC Wright 11/29/95
Analyst Signature Date

Verified by Blandina Valenzuela
12/1/95

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.

2-343

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-344 TO 2-348.

TGA STD 65N8A N2
24.286 mg

Rate: 10.0 °C/min

File: 00012.001

TG METTLER

28-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
Height-14.55 mg
-59.89 %
Resid. 9.74 mg
40.11 %
Dpeak 99.2°C

WHO-SD-WM-DP-160, REV. 1

150.

100.

50.

200. °C

James M. Dutton 11-28-95

S95T003268 N2

33.963 mg

Rate: 10.0 °C/min

File: 00021.001

TG METTLER

28-Nov-95

Ident: 0.0

222-S Laboratory

Step Analysis
Height-27.22 mg
-80.15 %
Resid. 6.74 mg
19.85 %
Dpeak 123.0 °C

WHC-CD-WM-DP-160, REV. I

10. mg

100.

200.

300.

400.

°C

2-345

S95T003268 DUP N2

15.193 mg

Rate: 10.0 °C/min

File: 00023.001

Ident: 0.0

TG METTLER

28-Nov-95

222-S Laboratory

Step Analysis

Height-12.12 mg

-79.76 %

Resid. 3.08 mg

20.24 %

Dpeak 87.0 °C

WHC-SD-WM-DP-160, REV. 1

S95T003269 SAM N2

33.119 mg

Rate: 10.0 °C/min

File: 00025.001 TG METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
Height-26.42 mg
-79.78 %
Resid. 6.70 mg
20.22 %
Dpeak 115.0 °C

10. mg

WHC SD-WM-DP-160, REV. 1

S95T003269 DUP N2

27.138 mg

Rate: 10.0 °C/min

File: 00027.001 TG METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis

Height-21.47 mg

-79.12 %

Resid. 5.67 mg

20.88 %

Dpeak 111.0 °C

WHC-SD-WM-DP-160, REV. 1

LABCORE Data Entry Template for Worklist#

3777

Analyst: JDS Instrument: TGA0 3 Book # 65N8A

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	LIQUID	<u>59.74</u>	<u>58.16</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003349	0	TGA-03	LIQUID	<u>N/A</u>	<u>99.73</u>		%
95000161	B-204	3 DUP	S95T003349	0	TGA-03	LIQUID	<u>99.73</u>	<u>99.57</u>	<u>N/A</u>	%

Final page for worklist #

3777

See attached for signatures
Analyst Signature _____ Date 12/4/95

[Signature]
Analyst Signature _____ Date 12-5-95

Verified by *Blandina Valenzuela*
12/6/95

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#

3777

Analyst: als Instrument: TGA0 Book # CSNPA

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIQUID			N/A	%
95000198	AP-101 GRAB	2 SAMPLE	S95T003730	0	TGA-01	LIQUID	N/A			%
95000198	AP-101 GRAB	3 DUP	S95T003730	0	TGA-01	LIQUID			N/A	%
95000161	B-204	4 SAMPLE	S95T003349	0	TGA-01	LIQUID	N/A			%
95000161	B-204	5 DUP	S95T003349	0	TGA-01	LIQUID			N/A	%

Final page for worklist #

3777

als 12-1-95
Analyst Signature Date

Analyst Signature Date

Worklist was split
due to two different
tanks being on this
worklist.

12/4/95
BDV

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.

2-350

Curve 1: TGA
 File info: THER120102 Fri Dec 1 23:01:46 1995
 Sample Weight: 24.133 mg
 65N8-A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2351 TO 2353

BEST AVAILABLE COPY

N2 10C/MIN
 TEMPERATURE 250.0 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Dec 1 23:06:03 1995

Curve 1: TGA

File info: SAM120102 Sat Dec 2 00:04:39 1995

Sample Weight: 9.293 mg

S95T003349

BEST AVAILABLE COPY

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

JD SPELLMAN
PERKIN-ELMER
7 Series Thermal Analysis System
Sat Dec 2 01:17:10 1995

Curve 1: TGA
 File Info: SAM120103 Sat Dec 2 02:19:31 1995
 Sample Weight: 10.150 mg
 S95T003349 DUP

BEST AVAILABLE COPY

10C/MIN N2
 SAMPLE 25.0 g
 TEMPE 500.0 g
 TIME: 0.0 min RATE: 10.0 C/min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Sat Dec 2 02:42:19 1995

LABCORE Data Entry Template for Worklist#

3834

Analyst: SMP Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>61.18</u>	<u>N/A</u>	%
95000158	B-204	2 SAMPLE	S95T003052	0	TGA-01	SOLID	<u>N/A</u>	<u>79.02</u>		%
95000158	B-204	3 DUP	S95T003052	0	TGA-01	SOLID	<u>79.02</u>	<u>76.85</u>	<u>N/A</u>	%
95000161	B-204	4 SAMPLE	S95T003272	0	TGA-01	SOLID	<u>N/A</u>	<u>79.70</u>		%
95000161	B-204	5 DUP	S95T003272	0	TGA-01	SOLID	<u>79.70</u>	<u>80.46</u>	<u>N/A</u>	%

Final page for worklist #

3834

SMP 11-29-95
Analyst Signature Date

R. Jones 12-4-95
Analyst Signature Date

Verified by Blandina Valenzuela
12/6/95

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 2-35 TO 2-35

BEST AVAILABLE COPY

TGA STD 65N8A

13.816 mg

Rate: 10.0 °C/min

File: 00029.001 TS METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis
Height -8.45 mg
-61.18 %
Resid. 5.36 mg
38.82 %
Dpeak 80.8 °C

Amfulton 11-29-95

BEST AVAILABLE COPY

S95T003052 SAM N2

31.070 mg

Rate: 10.0 °C/min

File: 00035.001 TG METTLER 29-Nov-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-24.55 mg
-79.02 %
Resid. 6.52 mg
20.98 %
Dpeak 113.0 °C

BEST AVAILABLE COPY

S95T003052 DUP N2

35.717 mg

Rate: 10.0 °C/min

File: 00037.001 TG METTLER 29-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis

Height-27.45 mg

-76.85 %

Resid. 8.27 mg

23.15 %

Dpeak 113.0 °C

BEST AVAILABLE COPY

S95T003272 N2
30.571 mg

File: 00031.001 TG METTLER 29-Nov-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height-24.37 mg
-79.70 %
Resid. 6.20 mg
20.30 %
Dpeak 111.0 °C

BEST AVAILABLE COPY

S95T003272 DUP N2
18.803 mg

File: 00033.004 TG METTLER 29-Nov-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height--15.13 mg
-80.46 %
ResidC. 3.67 mg
19.54 %
Dpeak 99.0 °C

LABCORE Data Entry Template for Worklist#

3844

Analyst: ADP Instrument: TGA0 3 Book # 65N8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.74</u>	<u>60.40</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003260	0	TGA-03	SOLID	<u>N/A</u>	<u>76.22</u>		%
95000161	B-204	3 DUP	S95T003260	0	TGA-03	SOLID	<u>76.22</u>	<u>54.36</u>	<u>N/A</u>	%
95000161	B-204	4 SAMPLE	S95T003273	0	TGA-03	SOLID	<u>N/A</u>	<u>78.97</u>		%
95000161	B-204	5 DUP	S95T003273	0	TGA-03	SOLID	<u>78.97</u>	<u>79.13</u>	<u>N/A</u>	%

Final page for worklist #

3844

Analyst Signature

Date

12/4/95

Analyst Signature

Date

12-4-95

Verified by Blandina Valenzuela
12/6/95

Data Entry Comments:

S95T003260 produced a flat line at the beginning of the thermogram due to some static electricity thru the sample and the furnace, the sample will be rerun.

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#

3844

Analyst: ADP Instrument: TGA0 Book # 65N8A

Method: LA-560-112 Rev/Mod C1

Worklist Comment: Please run BY-110 TGAs under N2. bdy

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000161	B-204	2 SAMPLE	S95T003260	0	TGA-01	SOLID	N/A			%
95000161	B-204	3 DUP	S95T003260	0	TGA-01	SOLID			N/A	%
95000161	B-204	4 SAMPLE	S95T003273	0	TGA-01	SOLID	N/A			%
95000161	B-204	5 DUP	S95T003273	0	TGA-01	SOLID			N/A	%

Final page for worklist #

3844

Anthony Perunich
Analyst Signature Date 11-30-95

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.

Curve 1: TGA

File info: ter113001 Thu Nov 30 19:02:52 1995

Sample Weight: 17.856 mg

65N8-A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-362 TO 3-366.

BEST AVAILABLE COPY

Ad Purinton 11-30-95

N2 10C/MIN

TEMP: 300.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Temperature (°C)

AD PURINTON
PERKIN-ELMER

7 Series Thermal Analysis System
Thu Nov 30 19:05:15 1995

Curve 1: TGA
 File Info: SAM113001 Thu Nov 30 20:26:20 1995
 Sample Weight: 13.277 mg
 S95T003260 SAM

BEST AVAILABLE COPY

10C/MIN N2
 TEMPERATURE 25.0 °C
 TIME 0.0 min RATE 10.0 °/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Nov 30 20:47:44 1995

Curve 1: TGA

File Info: SAM113002 Thu Nov 30 21:45:14 1995

Sample Weight: 10.988 mg

S95T003260 DUP

BEST AVAILABLE COPY

WHC-SD-WM-DP-160, REV. 1

10C/MIN N2

TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Nov 30 21:51:36 1995

Curve 1: TGA

File info: SAM113003 Thu Nov 30 23:01:03 1995

Sample Weight: 24.318 mg

S95T003273 SAM

BEST AVAILABLE COPY

WHO-SD-WM-DP-160, REV. I

10C/MIN N2

TEMP: 25.0 °C TIME: 0.0 min RATE: 10.0 °C/min

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Nov 30 23:05:37 1995

Curve 1: TGA

File info: SAM113004 Fri Dec 1 00:13:05 1995

Sample Weight: 12.333 mg

S95T003273 DUP

BEST AVAILABLE COPY

Weight (Wt. %)

2-366

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Temperature (°C)

AD PURINTON
PERKIN-ELMER

7 Series Thermal Analysis System
Fri Dec 1 01:52:32 1995

WHC-SE-WM-DP-160, REV. I

LABCORE Data Entry Template for Worklist#

3845

Analyst: ADP Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.54</u> 60.47	<u>12/1/95</u> N/A	<u>BDN</u> %
95000161	B-204	2 SAMPLE	S95T003274	0	TGA-01	SOLID	<u>N/A</u>	<u>75.76</u>		%
95000161	B-204	3 DUP	S95T003274	0	TGA-01	SOLID	<u>75.76</u>	<u>77.96</u>	N/A	%
95000161	B-204	4 SAMPLE	S95T003275	0	TGA-01	SOLID	<u>N/A</u>	<u>79.30</u>		%
95000161	B-204	5 DUP	S95T003275	0	TGA-01	SOLID	<u>79.30</u>	<u>79.11</u>	N/A	%

Final page for worklist #

3845

Anthony Puentes 11-30-95
Analyst Signature Date

See attached for signatures
Analyst Signature Date

Verified by

Blandina Valenzuela 12-4-95

For data entry purposes this
batch was attached to worklist

3833 12/1/95
BDN

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#

3833

Analyst: SMF Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run BY-110/B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD				TGA-01	SOLID	59.74	60.54	N/A	%
95000171	BY-110	2 SAMPLE	S95T003166	0		TGA-01	SOLID	N/A	18.31		%
95000171	BY-110	3 DUP	S95T003166	0		TGA-01	SOLID	18.31	17.69	N/A	%
95000171	BY-110	4 SAMPLE	S95T003351	0		TGA-01	SOLID	N/A	24.89		%
95000171	BY-110	5 DUP	S95T003351	0		TGA-01	SOLID	24.89	26.18	N/A	%
95000161	B-204	6 SAMPLE	S95T003274	0		TGA-01	SOLID	N/A	75.76		%
95000161	B-204	7 DUP	S95T003274	0		TGA-01	SOLID	75.76	77.96	N/A	%
95000161	B-204	8 SAMPLE	S95T003275	0		TGA-01	SOLID	N/A	79.30		%
95000161	B-204	9 DUP	S95T003275	0		TGA-01	SOLID	79.30	79.11	N/A	%
95000161	B-204	10 SAMPLE	S95T003276	0		TGA-01	SOLID	N/A	79.60		%
95000161	B-204	11 DUP	S95T003276	0		TGA-01	SOLID	79.60 76.12 76.12	79.46	N/A	%
95000161	B-204	12 SAMPLE	S95T003277	0		TGA-01	SOLID	N/A	77.87		%
95000161	B-204	13 DUP	S95T003277	0		TGA-01	SOLID	77.87	78.56	N/A	%

Final page for worklist #

3833

See attached for signatures
Analyst Signature SMF Date 12/11/95 BDV

AK Honaker 12-1-95
Analyst Signature Date

Data Entry Comments: S95T003351 produced two additional weight loss steps
of 2.98% and 2.22%

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.

2-368

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 269 TO 273

TGA STD 65N8A

16.169 mg

Rate: 10.0 °C/min

File: 00047.001

TG

METTLER

30-Nov-95

Isent: 0.0

222-S Laboratory

Step Analysis
Height -9.79 mg
-60.54 %
Resid. 6.38 mg
39.46 %
Dpeak 83.3°C

WHO CD-WM-DP-160, REV. 1

150.

100.

50.

Antulic 11.30.95

S95T003274 SAM N2

19.824 mg

Rate: 10.0 °C/min

File: 00057.001 TG METTLER 30-Nov-95

Ident: 0.0 222-S Laboratory

Step Analysis

Height-15.02 mg

-75.76 %

Resid. 4.81 mg

24.24 %

Dpeak 95.0 °C

WHO-CE-WMA-DP-160, REV. 1

S95T003274 DUP N2

35.157 mg

Rate: 10.0 °C/min

File: 00059.001 TG METTLER 30-Nov-95
Ident: 0.0 222-S Laboratory

S95T003275 SAM N2

56.822 mg

Rate: 10.0 °C/min

File: 00060.001

TG METTLER

30-Nov-95

Ident: 0.0

222-S Laboratory

Step Analysis
Height-45.06 mg
-79.30 %
Resid. 11.76 mg
20.70 %
Dpeak 137.0 °C

WHC-SD-WM-DP-160, REV. 1

S95T003275 DUP N2

24.611 mg

Rate: 10.0 °C/min

File: 00063.001 TG METTLER 30-Nov-95

Ident: 0.0 222-S Laboratory

WHO-SD-WM-DP-160, REV. 1

Step Analysis
Height-19.47 mg
-79.11 %
ResidC. 5.14 mg
20.89 %
Dpeak 107.0 °C

2-373

LABCORE Data Entry Template for Worklist#

3846

Analyst: AD Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.54</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003276	0	TGA-01	SOLID	<u>N/A</u>	<u>79.60</u>		%
95000161	B-204	3 DUP	S95T003276	0	TGA-01	SOLID	<u>79.60</u>	<u>79.46</u>	<u>N/A</u>	%
95000161	B-204	4 SAMPLE	S95T003277	0	TGA-01	SOLID	<u>N/A</u>	<u>77.87</u>		%
95000161	B-204	5 DUP	S95T003277	0	TGA-01	SOLID	<u>77.87</u>	<u>78.56</u>	<u>N/A</u>	%

Final page for worklist #

3846

Anthony Puma 11-30-95
Analyst Signature Date

See attached for signatures
Analyst Signature Date

Verified by Blandina Valenzuela
12/4/95

for data entry purposes this
batch was attached to worklist

3833. 12/1/95
BDV

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.

2-374

LABCORE Data Entry Template for Worklist#

3833

Analyst: SMF Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run BY-110/B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	59.74	60.54	N/A	%
95000171	BY-110	2 SAMPLE	S95T003166	0	TGA-01	SOLID	N/A	18.31		%
95000171	BY-110	3 DUP	S95T003166	0	TGA-01	SOLID	18.31	17.69	N/A	%
95000171	BY-110	4 SAMPLE	S95T003351	0	TGA-01	SOLID	N/A	24.89		%
95000171	BY-110	5 DUP	S95T003351	0	TGA-01	SOLID	24.89	26.18	N/A	%
95000161	B-204	6 SAMPLE	S95T003274	0	TGA-01	SOLID	N/A	75.76		%
95000161	B-204	7 DUP	S95T003274	0	TGA-01	SOLID	75.76	77.96	N/A	%
95000161	B-204	8 SAMPLE	S95T003275	0	TGA-01	SOLID	N/A	79.30		%
95000161	B-204	9 DUP	S95T003275	0	TGA-01	SOLID	79.30	79.11	N/A	%
95000161	B-204	10 SAMPLE	S95T003276	0	TGA-01	SOLID	N/A	79.60		%
95000161	B-204	11 DUP	S95T003276	0	TGA-01	SOLID	79.60 76.12/11/95 bdv	79.46	N/A	%
95000161	B-204	12 SAMPLE	S95T003277	0	TGA-01	SOLID	N/A	77.87		%
95000161	B-204	13 DUP	S95T003277	0	TGA-01	SOLID	77.87	78.56	N/A	%

Final page for worklist #

3833

See attached for signatures
Analyst Signature SMF Date 12/11/95 bdv

SMF 12-1-95
Analyst Signature Date

Data Entry Comments: S95T003351 produced two additional weight loss steps
of 2.98% and 2.22%

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.

2-375

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-376 TO 3-382

TGA STD 65N8A

16.169 mg

Rate: 10.0 °C/min

File: 00047.001

TG METTLER

30-Nov-95

Ident: 0.0

222-S Laboratory

Step Analysis

Height -9.79 mg

-60.54 %

Resid. 6.38 mg

39.46 %

Dpeak 83.3 °C

WMO SD WM-DP-160, REV. 1

Smfulborn 11:30:95

S95T003276 SAM N2

30.361 mg

Rate: 10.0 °C/min

File: 00055.001 TG METTLER 01-Dec-95

Ident: 0.0 222-S Laboratory

WHO-SD-WM-DP-160, REV. I

Step Analysis

Height-24.17 mg

-79.60 %

Resid. 6.20 mg

20.40 %

Dpeak 113.0 °C

S95T003276 DUP N2
45.805 mg

Rate: 10.0 °C/min

File: 00067.001 TG METTLER 01-Dec-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height-36.40 mg
-79.46 %
Resid. 9.41 mg
20.54 %
Dpeak 135.0 °C

S95T003277 SAM N2
 30.681 mg
 Rate: 10.0 °C/min
 File: 00071.001 TG METTLER 01-Dec-95
 Ident: 0.0 222-S Laboratory

WHO CD-WM-DP-160, REV. 1

Step Analysis
 Height-30.12 mg
 -77.87 %
 Resid. 8.56 mg
 22.13 %
 Dpeak 123.0 °C

S95T003277 DUP N2

37.580 mg

Rate: 10.0 °C/min

File: 00072.001

TC METTLER

01-Dec-98

Ident: 0.0

222-S Laboratory

Step Analysis
Height-29.52 mg
-78.56 %
Resid. 8.06 mg
21.44 %
Dpeak 119.0 °C

WHO-CC-WM-DP-180, REV. 1

TGA STD 65N8A

16.169 mg

Rate: 10.0 °C/min

File: 00047.001

TG METTLER

30-Nov-95

Ident: 0.0

222-S Laboratory

Step Analysis
Height -9.78 mg
-60.47 %
Resid: 6.39 mg
39.53 %
Dpeak 83.3 °C

5. mg

WHO-CD-WM-DP-180, REV. 1

50.

100.

150.

200.

°C

Jeffrey J. Jurek
11-30-95

TGA STD 65N8A

16.169 mg

File: 00047.001

TG METTLER

30-Nov-95

Rate: 10.0 °C/min

Ident: 0.0

222-S Laboratory

Step Analysis
Height -9.79 mg
-60.54 %
Resid. 6.38 mg
39.46 %
Dpeak 83.3 °C

5. mg

WHO-CD-WM-DP-160, REV. 1

50. 100. 150. 200. °C

200. Patton, Wm. 11-30-95

LABCORE Data Entry Template for Worklist#

3847

Analyst: RAG Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.72</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003278	0	TGA-01	SOLID	<u>N/A</u>	<u>50.78</u>		%
95000161	B-204	3 DUP	S95T003278	0	TGA-01	SOLID	<u>50.78</u>	<u>40.95</u>	<u>N/A</u>	%
95000161	B-204	4 TRIPL	S95T003278	0	TGA-01	SOLID	<u>50.78</u>	<u>74.58</u>	<u>N/A</u>	%

Final page for worklist #

3847

See attached for signatures
Analyst Signature _____ Date _____

[Signature]
Analyst Signature _____ Date 12-5-95

Verified by Blandina Valenzuela
12/6/95

Data Entry Comments:

The differences between the sample, duplicate, and triplicate is due to the liquid quickly evaporating from the sample.

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.

2-383

LABCORE Data Entry Template for Worklist#

3847

Analyst: Ry Instrument: TGA0 1 Book # 65N8A

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

Worklist Comment: Please run TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	<u>59.74</u>	<u>60.72</u>	<u>12/4/95</u> <u>BDV</u>	N/A %
95000161	B-204	2 SAMPLE	S95T003278	0	TGA-01	SOLID	N/A	<u>50.78</u>	<u>12/4/95</u> <u>BDV</u>	%
95000161	B-204	3 DUP	S95T003278	0	TGA-01	SOLID	<u>50.78</u>	<u>12/4/95</u> <u>BDV</u>	N/A	%

Final page for worklist #

3847

Rae Lynn Green 12-2-95
Analyst Signature Date

Analyst Signature Date

Q triplicate needed to
be added to this
worklist.
12/4/95
BDV

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.

2-384

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 7-23 TO 7-300 BEST AVAILABLE COPY

TGA STD 65N8A N2

21.087 mg

Rate: 10.0 °C/min

File: 00094.001

TG METTLER

02-Dec-95

Ident: 0.0

222-S Laboratory

Step Analysis
 Height-12.80 mg
 -60.72 %
 Resid. 8.28 mg
 39.28 %
 Dpeak 89.2 °C

5 mg

Rae Ann Green
 12-2-95

50. 100. 150. 200. °C

BEST AVAILABLE COPY

S95T003278 SAM N2

8.669 mg

Rate: 10.0 °C/min

File: 00095.001 TG METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

Step Analysis
Height -4.40 mg
-50.78 %
Resid. 4.27 mg
49.22 %
Dpeak 55.0 °C

WHC-SD-WM-DP-160, REV. 1

BEST AVAILABLE COPY

S95T003278 DUP N2

13.646 mg

Rate: 10.0 °C/min

File: 00001.001

TG

METTLER

02-Dec-95

Ident: 0.0

222-S Laboratory

Step Analysis

Height -5.59 mg

-40.95 %

Resid. 8.06 mg

59.05 %

Dpeak 71.0 °C

2. mg

2-387

BEST AVAILABLE COPY

S95T003278 TRIP N2

6.338 mg

Rate: 10.0 °C/min

File: 00002.001 TG METTLER 02-Dec-95
Ident: 0.0 222-S Laboratory

Step Analysis
Height -4.73 mg
-74.58 %
Resic. 1.61 mg
25.42 %
Dpeak 59.0 °C

2-388

LABCORE Data Entry Template for Worklist#

3995

Analyst: Res Instrument: TGA0 Book # 65N8-A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIQUID	<u>59.74</u>	<u>60.65</u>	<u>N/A</u>	%
95000158	B-204	2 SAMPLE	S95T002986	0	TGA-01	LIQUID	<u>N/A</u>	<u>98.19</u>		%
95000158	B-204	3 DUP	S95T002986	0	TGA-01	LIQUID	<u>98.19</u>	<u>98.10</u>	<u>N/A</u>	%

Final page for worklist #

3995

Rae Ann Green 12-3-95
Analyst Signature Date

[Signature] 12-4-95
Analyst Signature Date

Verified by Blandina
Valenzuela
12/6/95

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.

BEST AVAILABLE COPY

TGA STD 65NB-A
30.525 mg
Rate: 10.0 °C/min
File: 00012.001 TG METTLER 03-Dec-95
Ident: 0.0 222-8 Laboratory

Step Analysis
Height-18.51 mg
-60.65 %
Resid. 12.01 mg
39.35 %
Dpeak 109.2°C

BEST AVAILABLE COPY

S95T002986 SAM N2
 10.300 mg
 Rate: 10.0 °C/min
 File: 00013.001 TG METTLER 03-Dec-95
 Ident: 0.0 222-S Laboratory

Step Analysis
 Height-10.11 mg
 -98.19 %
 Resid. 0.19 mg
 1.81 %
 Dpeak 89.0 °C

Rae Ling Green
 12-3-95

BEST AVAILABLE COPY

S95T002986 DUP N2
 10.190 mg
 Rate: 10.0 °C/min
 File: 00014.001 TG METTLER 03-Dec-95
 Ident: 0.0 222-S Laboratory

Step Analysis
 Height-10.00 mg
 -98.10 %
 Resid. 0.19 mg
 1.90 %
 Dpeak 89.0 °C

LABCORE Data Entry Template for Worklist#

4002

Analyst: Jds Instrument: TGA0 1 Book # 65N84

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID	59.74	* 60.72	N/A	%
95000161	B-204	2 SAMPLE	S95T003279	0	TGA-01	SOLID	N/A	77.56		%
95000161	B-204	3 DUP	S95T003279	0	TGA-01	SOLID	77.56	78.29	N/A	%
95000161	B-204	4 SAMPLE	S95T003280	0	TGA-01	SOLID	N/A	77.00		%
95000161	B-204	5 DUP	S95T003280	0	TGA-01	SOLID	77.00	78.05	N/A	%
95000161	B-204	6 SAMPLE	S95T003281	0	TGA-01	SOLID	N/A	77.15		%
95000161	B-204	7 DUP	S95T003281	0	TGA-01	SOLID	77.15	76.67	N/A	%

Final page for worklist #

4002

Jds 12-1-95
Analyst Signature Date

R. Jones 12-5-95
Analyst Signature Date

Verified by Blandina Valenzuela
12-6-95

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 2-394 to 2401

BEST AVAILABLE COPY

TGA STD 65N8A N2 Rate: 10.0 °C/min File: 00094.001 TG METTLER 02-Dec-95
21.087 mg Ident: 0.0 222-S Laboratory

WHC-SD-WM-DP-160, REV. 1

Step Analysis
Height--12.60 mg
-60.72 %
Resid. 8.28 mg
39.28 %
Dpeak 89.2 °C

BEST AVAILABLE COPY

S95T003279 N2

12.788 mg

File: 00086.001 TG METTLER 02-Dec-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

6m

Step Analysis
Height -9.92 mg
-77.56 %
Resid. 2.84 mg
22.18 %
Dpeak 81.0°C

WHC-SD-WM-DP-160, REV. 1

100. 200. 300. 400. °C

2-395

BEST AVAILABLE COPY

S95T003279 DUP N2

17.694 mg

Rate: 10.0 °C/min

File: 00088.001 TG METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

WHC-SD-WM-DP-160, REV.)

BEST AVAILABLE COPY

S95T003280 N2

21.161 mg

Rate: 10.0 °C/min

File: 00090.001 TG METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

Step Analysis

Height-16.29 mg

-77.00 %

Resid. 4.83 mg

22.82 %

Dpeak 95.0 °C

WHC-SD-WM-DP-160, REV. 1

BEST AVAILABLE COPY

S95T003280 DUP N2

39.537 mg

Rate: 10.0 °C/min

File: 00092.001 TG METTLER 02-Dec-95

Ident: 0.0 222-S Laboratory

Step Analysis
Height-30.86 mg
-78.05 %
ResidC. 8.63 mg
21.84 %
Dpeak 125.0 °C

WHC-SD-WM-DP-160, REV. 1

BEST AVAILABLE COPY

S95T003281 SAM N2

24.611 mg

Rate: 10.0 °C/min

File: 00004.001

61

METTLER

02-000-95

Ident: 0.0

222-S Laboratory

Step Analysis

Height-18.99 mg

-77.15%

Resic. 5.62 mg

22.85%

Peak 101.0°C

WHC-SD-WM-DP-160, REV. 1

8 Days 12/2/45

BEST AVAILABLE COPY

S95T003281DUP N2
12.999 mg

File: 00006.001 TG METTLER 02-Dec-95
Ident: 0.0 222-S Laboratory

Rate: 10.0 °C/min

Step Analysis
Height -9.97 mg
-76.67 %
Resid. 3.03 mg
23.33 %
Dpeak 79.0 °C

Handwritten signature 12/2/95

LABCORE Data Entry Template for Worklist#

4042

Analyst: ADP Instrument: TGA0 3 Book # 65N8A

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

Worklist Comment: Please run B-204 TGAs under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	LIQUID	<u>59.74</u>	<u>* 60.40</u>	<u>N/A</u>	%
95000158	B-204	2 SAMPLE	S95T002976	0	TGA-03	LIQUID	<u>N/A</u>	<u>89.33</u>		%
95000158	B-204	3 DUP	S95T002976	0	TGA-03	LIQUID	<u>89.33</u>	<u>89.12</u>	<u>N/A</u>	%
95000158	B-204	4 SAMPLE	S95T002984	0	TGA-03	LIQUID	<u>N/A</u>	<u>89.24</u>		%
95000158	B-204	5 DUP	S95T002984	0	TGA-03	LIQUID	<u>89.24</u>	<u>89.33</u>	<u>N/A</u>	%

Final page for worklist #

4042

B. Valenzuela for AD Parinton
Analyst Signature Date

[Signature] 12-4-95
Analyst Signature Date

Verified by Blandina Valenzuela
12/6/95

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.

BEST AVAILABLE COPY

Curve 1: TGA
File info: ter113001 Thu Nov 30 19: 02: 52 1995
Sample Weight: 17.856 mg

GSN8-A Terliq

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2402 TO 2406

Arthur Purks 11-30-95

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Thu Nov 30 19: 14: 12 1995

N2 10C/MIN
TEMP: 300.0 °C
TIME: 0.0 min RATE: 10.0 °C/min

Curve 1: TGA

File Info: SAM113005 Fri Dec 1 01:46:44 1995

Sample Weight: 11.774 mg

S95T002976 SAM

BEST AVAILABLE COPY

WHC-SD-WM-DP-160, REV. 1

2-403

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Dec 1 01:47:22 1995

Curve 1: TGA
 File Info: SAM113006 Fri Dec 1 02:54:56 1995
 Sample Weight: 11.864 mg
 S95T002976 DUP

BEST AVAILABLE COPY

10C/MIN N2
 TEMPERATURE: 350.0 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Dec 1 02:56:01 1995

Curve 1: TGA
 File Info: SAM113007 Fri Dec 1 04:05:50 1995
 Sample Weight: 11.370 mg
 S95T002984 SAM

BEST AVAILABLE COPY

10C/MIN N2
 TEMPERATURE 35.0 °C
 TIME 00:00
 10C/MIN RATE 10.0 C/min
 AD PURINTON
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Fri Dec 1 04:09:15 1995

Curve 1: TGA

File Info: SAM113008 Fri Dec 1 05:14:26 1995

Sample Weight: 11.731 mg

S95T002984 SAM

ASC
DSC

BEST AVAILABLE COPY

10C/MIN N2

TEMP: 35.0 °C TIME: 0.0 min RATE: 10.0 °C/min

Temperature (°C)

AD PURINTON
PERKIN-ELMER
7 Series Thermal Analysis System
Fri Dec 1 05:14:54 1995

LABCORE Data Entry Template for Worklist#

4264

Analyst: JDS Instrument: TGA0 3 Book # 65N8A

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

Worklist Comment: RUSH. Please run B-204 under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-03	SOLID	<u>59.74</u>	<u>60.08*</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003260	1	TGA-03	SOLID	<u>N/A</u>	<u>78.64</u>		%
95000161	B-204	3 DUP	S95T003260	1	TGA-03	SOLID	<u>78.64</u>	<u>76.94</u>	<u>N/A</u>	%

Final page for worklist #

4264

See attached for signatures
Analyst Signature Date 12/14/95
BDV

 12/14/95
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.

2-407

LABCORE Data Entry Template for Worklist#

4264

Analyst: Jds Instrument: TGA0 Book # 65N84

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

Worklist Comment: RUSH. Please run B-204 under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	SOLID			N/A	%
95000161	B-204	2 SAMPLE	S95T003260	0	TGA-01	SOLID	N/A			%
95000161	B-204	3 DUP	S95T003260	0	TGA-01	SOLID			N/A	%

Final page for worklist #

4264

Jds 12-13-95
Analyst Signature Date

Analyst Signature Date

Other instrument
was used
12/14/95
BDY

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.

2-408

Curve 1: TGA
 File Info: TER121304 Wed Dec 13 18:57:17 1995
 Sample Weight: 19.065 mg
 65NBA

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
 COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-409-2-411.

N2 10C/MIN
 TEMPE: 50.0 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Dec 13 22:14:36 1995

Curve 1: TGA
 File info: SAM121303 Wed Dec 13 23:51:43 1995
 Sample Weight: 15.018 mg
 S95T003260

10C/MIN N2
 TEMP: 35.0 C
 TIME: 0.0 min RATE: 10.0 C/min

Temperature (°C)

JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Wed Dec 13 23:54:38 1995

Curve 1: TGA
 File info: SAM121304 Thu Dec 14 03:04:04 1995
 Sample Weight: 12.217 mg
 S95T003260 DUP N2

10C/MIN N2
 TGA: 95.0 g
 TEMPE: 500.0 °C
 TIME: 0.0 min RATE: 10.0 °C/min
 JD SPELLMAN
 PERKIN-ELMER
 7 Series Thermal Analysis System
 Thu Dec 14 04:08:49 1995

LABCORE Data Entry Template for Worklist#

4265

Analyst: lds Instrument: TGA0 1 Book # 65 NPA

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

Worklist Comment: RUSH. Please run B-204 under N2. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-----TEST-----	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 STD			TGA-01	LIQUID	<u>59.74</u>	<u>60.33*</u>	<u>N/A</u>	%
95000161	B-204	2 SAMPLE	S95T003255	0	TGA-01	LIQUID	<u>N/A</u>	<u>89.20</u>		%
95000161	B-204	3 DUP	S95T003255	0	TGA-01	LIQUID	<u>89.20</u>	<u>88.56</u>	<u>N/A</u>	%

Final page for worklist #

4265

Jak Spel 12-13-95
Analyst Signature Date

R/Skel 12/14/95
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.

BEST AVAILABLE COPY

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT
COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 2-4/3 TO 2-4/5

TGA STD 65N8A N2

36.952 mg

Rate: 10.0 °C/min

File: 00047.001

T6 METTLER

13-Dec-95

Ident: 0.0 222-S Laboratory

10. mg

STD ANALYSIS
 Weight = 36.952 mg
 -- 36.952 g
 Residue = 36.952 mg
 Residue = 36.952 g
 Residue = 36.952 g

50. 100. 150. 200. °C

J. S. W. 12-13-95

S95T003255 N2
18.150 mg

Rate: 10.0 °C/min

File: 00060.001 TG
Ident: 0.0

METTLER 14-Dec-95

222-8 Laboratory

Step Analysis
Height-46.49 mg
Resid. 89.20 %
Resid. 1.92 mg
Resid. 10.64 %
Dpeak 99.0 °C

WHC-SD-WM-DP-160, REV. 1

S95T003255 DUP N2
21.535 mg
Rate: 10.0 °C/min
File: 00061.001 TG METTLER 14-Dec-85
Ident: 0.0 222-S Laboratory

Step Analysis
Height-19.07 mg
-88.86 %
Resid. 2.41 mg
11.19 %
Onset 103.0 °C

DISTRIBUTION SHEET

To Distribution	From Data Assessment and Interpretation	Page 1 of 1
		Date:02/26/96
Project Title/Work Order WHC-SD-WM-DP-160, REV. 1 "Final Report for Tank 241-B-204, Push Mode Cores 112 and 114."		EDT NO.: 614758(REF)
		ECN NO.: 625385

Name	MSIN	Text With all Attach	EDT/ECN ONLY
<u>Pacific Northwest Laboratory</u>			
J. R. Gormsen	K7-28		X
S. J. Harris	K7-22	X	
K. L. Silvers	P7-27		X
<u>U.S. Department of Energy, RL</u>			
C. A. Babel	S7-54	X	
<u>Westinghouse Hanford Company</u>			
J. N. Appel	G3-21		X
H. Babad	S7-30	X	
S. D. Estey	R2-11		X
G. D. Forehand	S7-31		X
V. W. Hall	T6-03	X	
D. C. Hetzer	S6-31		X
J. E. Hyatt	S3-31		X
L. Jensen	R2-12		X
N. W. Kirch	R2-11		X
M. J. Kupfer	H5-49		X
J. E. Meacham	S7-15		X
K. L. Powell	T6-04		X
L. M. Sasaki	R2-12		X
L. W. Shelton	H5-49		X
M. J. Sutey	T4-07		X
T. T. Tran (LATA)	B1-44	X	
J. A. Voogd	H5-03		X
L. R. Webb	T6-06		X
Central Files	A3-88	2	
EDMC	H6-08	X	
LTIC	T6-03		X
TCRC	R2-12	X	
TFIC (Tank Farm Information Center)	R1-20		X

U. S. Department of Energy

Jim Poppiti
 12800 Middlebrook Rd.
 Trevion II, EM-36
 Germantown, MD 20874