This document was too large to scan as a whole document, therefore it required breaking into smaller sections.

Document number: SD-WM-DP-140

Section 1 **of** 2

Title: Final Report For Tank 241-B-106 Push Mode Cores 93 and 94

Date: 8-13-96 **Revision:** R001

Originator: J. M. Conner
Co: WHC

Recipient:
Co:

References: ECN-629005

COMPLETE

ENGINEERING CHANGE NOTICE

1. ECN 629005

Proj. ECN

2. ECN Category (mark one)	3. Originator's Name, Organization, MSIN, and Telephone No.	3a. USQ Required?	4. Date
Supplemental [] Direct Revision [x] Change ECN [] Temporary [] Standby [] Supersedure [] Cancel/Void []	John M. Conner, Data Assessment & Interpretation/R2-12/373-2711	[] Yes [X] No	07/30/96
	5. Project Title/No./Work Order No. Tank 241-B-106	6. Bldg./Sys./Fac. No. NA	7. Approval Designator Q
	8. Document Numbers Changed by this ECN (includes sheet no. and rev.) WHC-SD-WM-DP-140, REV. 0	9. Related ECN No(s). NA	10. Related PO No. NA

11a. Modification Work	11b. Work Package No.	11c. Modification Work Complete	11d. Restored to Original Condition (Temp. or Standby ECN only)
[] Yes (fill out Blk. 11b) [X] No (NA Blks. 11b, 11c, 11d)	NA	N/A Cog. Engineer Signature & Date	N/A Cog. Engineer Signature & Date

12. Description of Change

This ECN is being generated in order to update/add additional information to the existing document.

13a. Justification (mark one)

Criteria Change	[X]	Design Improvement	[]	Environmental	[]	Facility Deactivation	[]
As-Found	[]	Facilitate Const	[]	Const. Error/Omission	[]	Design Error/Omission	[]

13b. Justification Details

This ECN will assist in the completion of the documentation process for this document.

14. Distribution (include name, MSIN, and no. of copies)

See Attached Distribution Sheet.

RELEASE STAMP

DATE: AUG 13 1996

STA: 4

HANFORD RELEASE

ID: 2

A-7900-013-2 (11/94) GEF095

ENGINEERING CHANGE NOTICE

1. ECN (use no. from pg. 1): 629005

15. Design Verification Required	16. Cost Impact				17. Schedule Impact (days)	
	ENGINEERING		CONSTRUCTION			
[] Yes	Additional	[] $	Additional	[] $	Improvement	[]
[X] No	Savings	[] $	Savings	[] $	Delay	[]

18. Change Impact Review: Indicate the related documents (other than the engineering documents identified on Side 1) that will be affected by the change described in Block 12. Enter the affected document number in Block 19.

SDD/DD	[]	**Seismic/Stress Analysis**	[]	**Tank Calibration Manual**	[]
Functional Design Criteria	[]	**Stress/Design Report**	[]	**Health Physics Procedure**	[]
Operating Specification	[]	**Interface Control Drawing**	[]	**Spares Multiple Unit Listing**	[]
Criticality Specification	[]	**Calibration Procedure**	[]	**Test Procedures/Specificatio n**	[]
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/SAR	[]	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**	[]
Environmental Report	[]	**Inspection Plan**	[]		[]
Environmental Permit	[]	**Inventory Adjustment Request**	[]		[]

19. Other Affected Documents: (NOTE: Documents listed below will not be revised by this ECN.) Signatures below indicate that the signing organization has been notified of other affected documents listed below.

Document Number/Revision	Document Number/Revision	Document Number Revision
NA		

20. Approvals

Signature	Date	Signature	Date
OPERATIONS AND ENGINEERING		ARCHITECT-ENGINEER	
Cog. Eng. J. M. Conner	8-8-96	PE	
Cog. Mgr. J. G. Kristofzski	8-12-96	QA	
QA T. L. Tung	8-8-96	Safety	
Safety		Design	
Environ.		Environ.	
Other K. E. Bell	8/12/96	Other	
Production Planning & Control A. D. Rice	8-8-96		
		DEPARTMENT OF ENERGY	
		Signature or a Control Number that tracks the Approval Signature	
		ADDITIONAL	

FINAL REPORT FOR TANK 241-B-106, PUSH MODE CORES 93 AND 94.

John M. Conner
Westinghouse Hanford Company, Richland, WA 99352
U.S. Department of Energy Contract DE-AC06-87RL10930

EDT/ECN: ECN-629005 UC: 2070
Org Code: 75310 Charge Code: MD378
B&R Code: EW 3120074 Total Pages: 1004

Key Words: Final Report for Tank 241-B-106, Push Mode Cores 93 and 94
Tank 241-B-106 Push Mode

Abstract: N/A

TRADEMARK DISCLAIMER. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise, does not necessarily constitute or imply its endorsement, recommendation, or favoring by the United States Government or any agency thereof or its contractors or subcontractors.

Printed in the United States of America. To obtain copies of this document, contact: WHC/BCS Document Control Services, P.O. Box 1970, Mailstop H6-08, Richland WA 99352, Phone (509) 372-2420; Fax (509) 376-4989.

Release Approval 8/13/96 Date

DATE: HANFORD RELEASE ID:
STA: 4 2.
AUG 13 1996
Release Stamp

Approved for Public Release

RECORD OF REVISION	(1) Document Number WHC-SD-WM-DP-140	Page 1

(2) Title
FINAL REPORT FOR TANK 241-B-106, PUSH MODE CORES 93 AND 94

CHANGE CONTROL RECORD

(3) Revision	(4) Description of Change - Replace, Add, and Delete Pages	Authorized for Release (5) Cog. Engr.	(6) Cog. Mgr. Date
0	(7) Initial Release per EDT 613109	J.M. Conner	J.G. Kristofzski
1 RS	Incorporate per ECN 629005	J.M. Conner	J.G. Kristofzski
		[illegible]	[illegible] 8-12-98

A-7320-005 (08/91) WEF168

Westinghouse
Hanford Company

P.O. Box 1970 Richland, WA 99352

WHC-SD-WM-DP-140, REV. 1

ANALYTICAL SERVICES

FINAL REPORT FOR TANK 241-B-106, PUSH MODE CORES 93 AND 94

Project Coordinator: JOHN M. CONNER

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

by

Westinghouse Hanford Company
Box 1970
Richland, Washington

54-7600-075

Hanford Operations and Engineering Contractor for the US Department of Energy

THIS PAGE WAS INTENTIONALLY LEFT BLANK

TABLE OF CONTENTS

Narrative 1

Sample Data Summary 9.1

Chain of Custody Forms (Attachment 1) 41

Extrusion Reports (Attachment 2) 48.1

Photographs (Attachment 3) 49

Labcore Sample Numbers (Attachment 4) 55.1

Sample Handling 56

Extrusion Worklist # 1844 (1264) 58
Extrusion Worklist # 1845 (1265) 59
Extrusion Worklist # 1846 (1262) 60
Extrusion Worklist # 1856 (1266) 61
Extrusion Worklist # 1857 (1267) 62

Sample Preparations 63

Homogenization Worklist # 1876 (1280, 1281, 1289, 1283, 1284, 1290) . 65
Homogenization Worklist # 1888 (1272, 1291, 1276, 1278, 1288, 1274, 1275, 1287) 66
Homogenization Worklist # 1889 (1269) 67
Homogenization Worklist # 1890 (1297, 1298, 1300, 1301, 1302, 1304) . 68
Homogenization Worklist # 1891 (1305, 1306, 1308, 1309, 1310, 1313) . 69
Homogenization Worklist # 1904 (1292) 70
Homogenization Worklist # 1909 (1314) 71

Fusion Digestion Worklist # 1908 (1307, 1311) 72
Fusion Digestion Worklist # 1910 (1277, 1279) 73
Fusion Digestion Worklist # 1911 (1282, 1285) 74
Fusion Digestion Worklist # 1912 (1299, 1303) 75
Fusion Digestion Worklist # 6442 (1220) 76
Fusion Digestion Worklist # 7680 (1647) 77

Water Digestion Worklist # 6446 (1247, 1255, 1248, 1256) 78
Water Digestion Worklist # 6447 (1249, 1257, 1250, 1258) 80
Water Digestion Worklist # 6448 (1200, 1210, 1216, 1221) 82
Water Digestion Worklist # 6450 (1244, 1222, 1223, 1245) 84
Water Digestion Worklist # 6451 (1246, 1224, 599, 1319) 86
Water Digestion Worklist # 7683 (1646, 1648) 88
Water Digestion Worklist # 10528 (3626, 3627) 89

Acid Digestion Worklist # 6444 (1240, 1241, 1242, 1243) 90
Acid Digestion Worklist # 7682 (1645) 92

TABLE OF CONTENTS (Continued)

Acid Digestion Worklist # 8515 (1199, 1214, 1228, 1229, 1230) 93
Acid Digestion Worklist # 10527 (3625) 95

Inorganic Analyses 96

Differential Scanning Calorimetry Analysis (DSC)
DSC Worklist # 7333 (1227, 1644) 98
DSC Worklist # 10276 (1644, 1227) 105

Thermogravimetric Analysis (TGA)
TGA Worklist # 7330 (1227, 1644) 106

Ion Chromatographic Analysis (IC)
IC Worklist # 8327 (1646) 113
IC Worklist # 8754 (1200, 1216) 122
IC Worklist # 8755 (1244, 1245) 135
IC Worklist # 8756 (1247, 1248) 146
IC Worklist # 8757 (1249, 1250) 158
IC Worklist # 9960 (1246) 170
IC Worklist # 10836 (3626) 181

Inductively Coupled Plasma Spectroscopy Analysis (ICP)
ICP Worklist # 1878 (1277, 1279) 191
ICP Worklist # 1879 (1282, 1285) 198
ICP Worklist # 1913 (1269, 1272, 1286) 208
ICP Worklist # 1914 (1299, 1303) 218
ICP Worklist # 1915 (1307, 1311) 229
ICP Worklist # 6538 (1210, 1221) 250
ICP Worklist # 6539 (1222, 1223) 256
ICP Worklist # 7951 (1240, 1241, 1242, 1243) 262
ICP Worklist # 8467 (1648) 293
ICP Worklist # 8612 (1199, 1214, 1228, 1229, 1230) 305
ICP Worklist # 9464 (1255, 1256) 339
ICP Worklist # 9495 (1224) 346
ICP Worklist # 9560 (1257, 1258) 362
ICP Worklist # 10538 (3625) 383
ICP Worklist # 10540 (3627) 389

Total Inorganic Carbon/Total Organic Carbon Analysis (TICTOC)
TICTOC Worklist # 7301 (1198, 1212) 395
TICTOC Worklist # 7303 (1225, 1226, 1227) 412
TICTOC Worklist # 7306 (1237, 1236, 1238, 1239, 1644) 434
TICTOC Worklist # 8031 (1198) 464
TICTOC Worklist # 10809 (3624) 475

TABLE OF CONTENTS (Continued)

Radiochemical Analyses 498

Total Alpha Analysis (AT)
AT Worklist # 1951 (1282, 1285) 500
AT Worklist # 1952 (1299, 1303) 507
AT Worklist # 1957 (1277, 1279) 514
AT Worklist # 1958 (1307, 1311) 522
AT Worklist # 10386 (1647) 529
AT Worklist # 10497 (1220) 536

Total Beta Analysis (TB)
TB Worklist # 7811 (1299, 1303) 551
TB Worklist # 7812 (1307, 1311) 561
TB Worklist # 7896 (1647) 572
TB Worklist # 8188 (1220) 580
TB Worklist # 10461 (1277, 1279) 587
TB Worklist # 10462 (1282, 1285) 596

Gamma Energy Analysis (GEA)
GEA Worklist # 7819 (1277, 1279) 626
GEA Worklist # 7820 (1282, 1285) 654
GEA Worklist # 7821 (1299, 1303) 682
GEA Worklist # 7822 (1307, 1311) 710
GEA Worklist # 7921 (1647) 738
GEA Worklist # 8171 (1220) 757

Strontium-90 Analysis (Sr-90)
Sr-90 Worklist # 7824 (1277, 1279) 776
Sr-90 Worklist # 7825 (1282, 1285) 784
Sr-90 Worklist # 7826 (1299, 1303) 792
Sr-90 Worklist # 7827 (1307, 1311) 800
Sr-90 Worklist # 7898 (1647) 808
Sr-90 Worklist # 8181 (1220) 814

Uranium-01 Analysis (U)
U Worklist # 7828 (1277, 1279) 820
U Worklist # 7829 (1282, 1285) 831
U Worklist # 7830 (1299, 1303) 842
U Worklist # 7831 (1307, 1311) 853
U Worklist # 8077 (1647) 864
U Worklist # 8520 (1220) 872

TABLE OF CONTENTS (Continued)

Part II **45 Day Safety Screen Results for Tank 241-B-106, Push Mode Cores 93 and 94** 2-1

Narrative 2-4

Sample Data Summary 2-14

Inorganic Analyses 2-23

Differential Scanning Calorimetry (DSC)
DSC Worklist # 1892 2-25
DSC Worklist # 1893 2-33
DSC Worklist # 1894 2-39
DSC Worklist # 1895 2-45
DSC Worklist # 1896 2-53

Thermogravimetric Analyses (TGA)
TGA Worklist # 1897 2-57
TGA Worklist # 1898 2-65
TGA Worklist # 1899 2-71
TGA Worklist # 1900 2-79
TGA Worklist # 1901 2-87

This Document consists of two sections.

Part I consists of pages 1 through 888, plus pages ~~9.1~~ 10.1, ~~102~~ LAD 8-13-96, 48.1 thorough 48.7 and 55.1 through 55.10. Pages ii, 2, 10, 42, 48.2, 50, 57, 64, 97, 293 through 298 and 499 were intentionally left blank.

Part II consists of pages 2-1 through 2-90, and pages 2-2, 2-5, 2-15, and 2-24 were intentionally left blank.

NARRATIVE

THIS PAGE WAS INTENTIONALLY LEFT BLANK

FINAL REPORT FOR TANK 241-B-106, PUSH-MODE CORE SAMPLES 93 AND 94.

1.0 INTRODUCTION AND SUMMARY

This is the final report for the 1995 tank 241-B-106 (B-106) push-mode characterization effort. It transmits additional extrusion information and analytical data not provided in the 45-day report (Conner 1995a) and includes a summary of all analytical results and all raw analytical data not reported in that reference. Also included in this data package for each segment extruded are copies of the chain of custody forms, extrusion reports, photographs, and LABCORE sample numbers.

Core samples 93 and 94 from tank B-106 were received by the 222-S Laboratories. Both cores consisted of 2 segments. They were extruded, subsampled, and analyzed in accordance with the B-106 sampling and analysis plan (SAP) (Conner 1995b). Solids were analyzed directly or following fusion, acid, or water digestion depending on the analysis. Selected analytical results were evaluated against the Historical DQO (Simpson and McCain 1995) and indicate that the bottom 19 in. of waste in tank B-106 is consistent with the "B Salt Cake" waste type (Agnew 1995).

2.0 SAMPLE RECEIPT AND EXTRUSION

Tank B-106 was sampled using the push-mode core sampling method. Core 93 was removed from beneath riser 2 and transported to the 222-S Laboratory between July 14 and July 17, 1995. In addition, a field blank was created and also delivered to the 222-S Laboratory. Core 94 was removed from below riser 7 and delivered to the 222-S Laboratory on July 18, 1995. Copies of the chain of custody forms associated with each of the core samples are provided as Attachment 1.

Extrusion details were provided in Conner (1995a). Additional information is available in extrusion reports generated for each extrusion. Copies of these reports are included as Attachment 2.

Video recordings and/or color photographs were taken of each segment immediately following extrusion. Black and white photocopies of the video prints or photographs are included as Attachment 3, however the originals are kept on file and may be viewed by contacting the 222-S Laboratory.

3.0 SUBSAMPLING

As indicated above, material from each extruded segment was subsampled into sample jars as directed in Conner (1995b). Subsamples for analysis were removed from these jars and placed into sample vials as documented in a laboratory notebook (WHC 1995). The identity of the sample jars, aliquot vials, and subsample and aliquot weights associated with each sample are available in the latter reference.

4.0 ANALYTICAL RESULTS

The safety screening analytical results required by the B-106 SAP have been performed and reported in Conner (1995a). The raw data not previously reported is provided in this data package and additional analyses performed but not previously reported are reported here. Analytes whose concentrations were determined on an opportunistic basis are noted. These additional analytes required relatively little additional effort to obtain. For example, Cs-137 was required on several samples and is determined by gamma energy analysis (GEA). The additional analytes of Eu-154, Eu-155, and Co-60, obtained concomitantly with analysis for Cs-137, were also obtained with relatively little additional effort.

Analytical results were tracked and reported using the laboratory information management system known as LABCORE. Each aliquot taken for analysis has a unique sample number and sample identification. A listing of each LABCORE sample number and affiliated test associated with this sampling and analysis project is provided as Attachment 4. A description of the test acronyms is also provided.

All analytical results, whether previously reported or not, are presented in Table 1. This table includes the LABCORE sample numbers. Column 2 of the table indicates the sample preparation used, if any. Analyses on fused samples are marked with a "F". Analyses of acid-digested samples are marked with an "A", and analyses of water digested samples are marked with a "W".

4.1 FUSION DIGESTIONS

Selected samples from cores 93 and 94 were prepared by potassium hydroxide fusion digestion according to procedure LA-549-141, Rev. D-0. Duplicate fusion digestions were performed on portions of each sample.

4.2 ACID DIGESTIONS

Selected samples from cores 93 and 94 were prepared by acid digestion according to procedure LA-505-159, Rev. D-0. Duplicate acid digestions were performed on portions of each sample.

4.3 WATER DIGESTIONS

Selected samples from cores 93 and 94 were prepared by water digestion according to procedure LA-504-101, Rev. E-0. Duplicate water digests were performed on portions of each sample.

4.4 BULK DENSITY

Bulk density was determined on subsamples from each half-segment and of the core composites by centifugation according to procedure LO-160-103, Rev. B-0. Results are shown in Table 1. There were no quality control (QC) parameters associated with these analyses. For one sample (lower half-segment of core 93, segment 1), insufficient material was available to determine the density.

4.5 DIFFERENTIAL SCANNING CALORIMETRY

DSC analyses were performed in duplicate on subsamples of the core composites according to procedure LA-514-114, Rev. C-1. Results are shown in Table 1. All QC parameters were within the limits stated in the revised SAP (Conner, 1995b). Results for analyses conducted earlier were discussed in the 45-day report (Conner 1995a), included in Part II of this report.

4.6 THERMOGRAVIMETRIC ANALYSIS

TGA analyses were performed in duplicate on subsamples of the core composites according to procedure LA-514-114, Rev. C-1. Results are shown in Table 1. All QC parameters were within the limits stated in the revised SAP (Conner, 1995b). Results for analyses conducted earlier were discussed in the 45-day report (Conner 1995a), included in Part II of this report.

4.7 TOTAL ORGANIC CARBON

Analyses for TOC were performed by direct persulfate oxidation on subsamples from cores 93 and 94 per procedure LA-342-100, Rev. D-0. They were carried out to satisfy the historical DQO (Simpson and McCain 1995). Results are shown in Table 1. The lower half of segment 2 from core 93 had the lowest level of TOC at 250 ug/g. The highest concentration was 11,700 ug/g found in the upper half of segment 1 of the same core. Two samples had RPD values greater than the required 20%. No re-runs were initiated since all results were well below the programmatic action limit of 30,000 ug/g.

4.8 INDUCTIVELY COUPLED PLASMA

Concentrations of selected metals were determined by inductively coupled plasma/atomic emission spectroscopy (ICP) using procedure LA-505-151, Rev. A-1 (Analytical Research Laboratory instrument); or procedure LA-505-161, Rev. A-1 (Thermo Jerrell Ash instrument). Conner (1995b) only specifies procedure LA-505-151, however procedure LA-505-161 is analytically equivalent and is used interchangeably with the specified procedure. All ICP results are presented in Table 1. Analyses were performed on fusion, acid, or water digestions depending on the requirements of the characterization documentation (Conner 1995b).

Only the analytes of Li and Na were required to be reported. The Li results were reported and

discussed in Conner (1995a). The ICP analyte of Na was required for historical waste modeling per the historical data quality objective document (Simpson and McCain 1995). Additional ICP data were collected on an opportunistic basis and are reported here. These data were not reviewed for adherence to QC parameters.

4.8.1 Na Analyses

Analyses for Na were performed on acid and water digests of all recovered subsamples of cores 93 and 94 and on the core composite from each core. Results on the acid- and water-digested samples in a given subsegment were very similar, indicating that virtually all sodium in the sample was water soluble. The largest difference between the acid and water digest results on a given subsegment was observed on the core 93 composite where the acid digest result was 134,000 ug/g and the water digest result was 97,000 ug/g. All results for both digests were between 134,000 ug/g (core 93 composite and the upper half of segment 2 from core 94) and 85,000 ug/g (lower half of segment 2 from core 94).

The QC issues surrounding the Na analyses center around the poor spike recoveries and standard recoveries greater than 110% on the acid-digested samples. Most of the spike recoveries were out of the 90-110% range. A spiked sample can only reasonably be evaluated for recovery when the spiked concentration is at least 25% of the sample value. Because of the very high Na concentrations, the spike does not meet the 25% criterion and, thus, should not be evaluated. Because Na is a ubiquitous contaminant, the high standard recoveries for the acid-digested samples were not unusual and no re-runs were initiated.

4.9 ION CHROMATOGRAPHY

Concentrations of selected anions were determined by ion chromatography (IC) on water-digested samples using procedure LA-533-105, Rev. D-1. All IC results are presented in Table 1. Analysis for fluoride, nitrate, and phosphate was performed to evaluate tank waste modeling as described in the historical modeling DQO document. Bromide was measured to evaluate intrusion and contamination of the sample by hydrostatic head fluid or wash water containing LiBr. Additional IC data was collected on an opportunistic basis and reported here. These data were not reviewed for adherence to QC parameters.

4.9.1 Fluoride Results

There was significant variation in the concentration of fluoride in cores 93 and 94. Results ranged from 496.1 ug/g (lower half of segment 1, core 94) to 11,300 ug/g (lower half of segment 2, core 94). The large increase in fluoride concentration in the latter sample may be due to the presence of a different waste type in the bottom of the tank. The bottom-most subsegment in both core samples was light green in color compared to brown or light brown for the remaining subsegments (Conner 1995b). All results exceeding the QC requirements of the SAP were discussed with the Historical DQO point of contact. No reruns were requested.

4.9.2 Nitrate Results

Unlike the fluoride results, the concentration of nitrate was very consistent from subsegment to subsegment and core to core. Concentrations ranged from 166,000 ug/g in the upper half of segment 1, core 94 to a high of 240,000 ug/g in the upper half of segment 1, core 93. All results exceeding the QC requirements of the SAP were discussed with the Historical DQO point of contact. No reruns were requested.

4.9.3 Phosphate Results

The phosphate results were not as consistent as the nitrate results. An aliquot from the lower half of segment 2 from core 94 had the lowest phosphate concentration of 15,200 ug/g. The highest concentration found in the upper half of segment 1 of core 93 was roughly three times that amount, measuring 51,300 ug/g. All results exceeding the QC requirements of the SAP were discussed with the Historical DQO point of contact. No reruns were requested.

4.9.4 Bromide

All bromide results were below the detection limit except for a sample from the lower half of segment 2 from core 94 which measured 655.9 ug/g. A detection limit is calculated on each sample and will therefore vary to some degree. The lowest detection limit was 491.6 ug/g, while the highest was 1090 ug/g. The fact that no bromide was detected is consistent with the lack of Li detection (Conner 1995a) and further supports the argument that intrusion of hydrostatic head fluid or wash water into sample material was minimal. All QC parameters were met for these analyses.

4.10 RADIOCHEMICAL ANALYSES

4.10.1 Sr-90

The activity of Sr-90 was determined by chemical separation of fusion digests followed by beta counting according to procedure LA-220-101, Rev. D-1 to satisfy the requirements of the historical DQO document. The activities of Sr-90 were consistent between the two core samples. The lower half of segment 2 in each core had the lowest activity (6.935 and 4.89 uCi/g for cores 93 and 94, respectively). The activity in segment 1 of each core was roughly 15 times greater, and the activity in the upper half of segment 2 of each core was about 12 times greater than the lower half of segment 2. All QC parameters were met for these analyses.

4.10.2 Total Beta

Total beta activity was measured on fusion digests of all subsegments according to procedure LA-508-101, Rev. D-2 in support of the historical model evaluation DQO. The results are shown in Table 1. As expected, total beta activities were consistently higher than the Sr-90

activities, but they followed the same trend observed with the Sr-90 results. The lowest activities were found in the lower half of segment 2 of each core. As with the fluoride results (Section 4.6.1), the large decrease in beta activity in the bottom-most sample may be due to the presence of a different waste type in the bottom of the tank. The Y-90 contribution to the total beta activity is equal to the Sr-90 contribution; thus the majority of the beta activity is accounted for with Sr-90 and Y-90. All QC parameters were met for these analyses.

4.10.3 Cs-137

The activity of the gamma-emitting radionuclide Cs-137 was determined by gamma energy analysis (GEA) using procedure LA-548-121, Rev. E-0. All GEA results are presented in Table 1. Analyses were performed on fusion digestions. While the GEA procedure will detect numerous gamma-emitting radionuclides, only the analyte Cs-137 was required to be reported. However, additional GEA data were collected on an opportunistic basis. These opportunistic data are reported in this package, but they were not reviewed for adherence to QC parameters.

The activity of Cs-137 was low in all subsegments ranging from 10.23 uCi/g in the lower half of segment 1, core 93 and the upper half of segment 1 of core 94 to 51.7 uCi/g found in the upper half of segment 1, core 93. All QC parameters were met for the Cs-137 analyses.

4.10.4 Uranium

The concentration of uranium was determined by laser phosphorescence on fusion digests of all solid subsegments from cores 93 and 94 according to procedure LA-925-009, Rev. A-1. Water- and acid-digested samples were also analyzed for uranium by ICP. The results are presented in Table 1. Uranium was not detected by ICP in any of the water-digested samples. There is excellent agreement between the ICP and the phosphorescence results.

There was significant variation from sample to sample. Similar to the fluoride and Sr-90 results, the uranium concentration was the lowest in the lower half of segment 2 of each core. The highest concentration was found in the upper half of segment 2 of each core. All QC parameters for uranium by laser phosphorescence were within the limits stated in the SAP (Conner, 1995b). Determination of uranium by ICP was not required and therefore no QC requirements were applied.

4.10.5 Total Alpha

Total alpha analyses were performed in duplicate on fusion digests of the core composites according to procedure LA-508-101, Rev. D-2. Results are shown in Table 1. All QC parameters were within the limits stated in the revised SAP (Conner, 1995b). Results for analyses conducted earlier were discussed in the 45-day report (Conner 1995a), included in Part II of this report.

5.0 HISTORICAL MODELING EVALUATION

The historical model DQO document (Simpson and McCain 1995) demonstrates that the waste in tank B-106 may most likely be categorized into the waste type B Salt Cake, the composition of which is defined in Angew (1995). For each tank considered in the historical DQO document, a list of "fingerprint" analytes and corresponding concentrations or concentration ranges that define each waste type are provided. If the analytes for a given tank waste are present in greater than 10% of the listed concentration, then the waste composition is considered to be consistent with that defined waste type.

Tank B-106 is not listed as a priority tank in Simpson and McCain (1995), but is an acceptable alternate for tank 241-B-108. The expected and actual concentrations of the fingerprint analyses for the B Salt Cake waste type are provided in Table 2.

Data in Table 2 show that the waste in segment 2, or the bottom 19 inches (48 cm), of tank B-106 is consistent with the waste type B Salt Cake per the historical modeling DQO. Although segment 2 of each core is chemically consistent with B Salt Cake for the analytes given in the DQO, the lower half of the second segment of each core was visually and chemically distinct from the rest of the tank. Thus, these results should be used with caution. The two segment 1 subsegments did not contain an adequate concentration of fluoride to allow them to meet all the B Salt Cake criteria.

Table 2. Tank B-106 Historical Model Evaluation for B Salt Cake.

Fingerprint Analyte	Expected Concentration (ppm)	Core Composite Concentration (ppm)	Were All Subsegments >10% of Expected Concentration?
Na	137,500	134,000 (Core 93) 96,200 (Core 94)	yes
Moisture	39.4%	57.04% (Core 93) 58.06% (Core 94)	yes
Fluoride	10,000	5,740 (Core 93) 4,100 (Core 94)	no[1]
Nitrate	81,700	185,000 (Core 93) 177,000 (Core 94)	yes
Phosphate	93,600	33,200 (Core 93) 27,500 (Core 94)	yes

[1] Only the upper and lower half segment portions from segment 2 of both cores met the >10% criterion.

6.0 REFERENCES

Agnew, S. F., 1995, *Hanford Defined Wastes: Chemical and Radionuclide Compositions*, WHC-SD-WM-TI-632, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

Conner, J. M., 1995a, *45-Day Safety Screen Results for Tank 241-B-106, Push Mode Cores 93 and 94*, WHC-SD-WM-DP-140, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

Conner, J. M., 1995b, *Tank 241-B-106 Push Mode Core Sampling and Analysis Plan*, WHC-SD-WM-TSAP-002, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

Hunt, J. W., 1995, *Tank Safety Screening Data Quality Objective*, WHC-SD-WM-SP-004, Rev. 2, Westinghouse Hanford Company, Richland, Washington.

Simpson, B. C., D. J. McCain, 1995, *Historical Model Evaluation Data Requirements*, WHC-SD-WM-DQO-018, Rev. 0, Westinghouse Hanford Company, Richland, Washington.

WHC 1995, Controlled laboratory notebook "B-106", WHC-N-1178, Westinghouse Hanford Company, Richland, Washington.

SAMPLE DATA SUMMARY

THIS PAGE WAS INTENTIONALLY LEFT BLANK

Table 1. Tank B-106 Analytical Summary - Cores 93 and 94.
B-106

CORE NUMBER: 93
SEGMENT #: Composite

SEGMENT PORTION: Core Composite

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001292			Bulk Density of Sample	g/mL	n/a	n/a	1.340	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T001220		F	Uranium by Phosphorescence	ug/g	101.7	125.0	9.51e+03	1.03e+04	9.90e+03	7.98	86.99	1.680	3.09E+00
S96T001220		F	Strontium-89/90 High Level	uCi/g	101.6	4.50e-02	86.40	89.50	87.95	3.52	n/a	8.00e-03	3.07E-01
S96T001220		F	Cobalt-60 by GEA	uCi/g	101.9	<8.54e-02	<8.90e-02	<9.22e-2	n/a	n/a	n/a	8.90e-02	n/a
S96T001220		F	Niobium-94 by GEA	uCi/g	n/a	<7.35e-02	<7.25e-02	<1.01e-1	n/a	n/a	n/a	7.20e-02	n/a
S96T001220		F	Ru/Rh-106 by GEA	uCi/g	n/a	<1.550	< 1.920	<1.97e0	n/a	n/a	n/a	1.920	n/a
S96T001220		F	Cesium-134 by GEA	uCi/g	n/a	<6.83e-02	<9.72e-02	<1.00e-1	n/a	n/a	n/a	9.70e-02	n/a
S96T001220		F	Cesium-137 by GEA	uCi/g	103.1	<1.14e-01	22.60	23.00	22.80	1.75	n/a	n/a	2.10
S96T001220		F	Ce/Pr-144 by GEA	uCi/g	n/a	<1.010	< 1.255	<1.31e0	n/a	n/a	n/a	1.255	n/a
S96T001220		F	Europium-154 by GEA	uCi/g	n/a	<2.89e-01	<2.74e-01	<2.95e-1	n/a	n/a	n/a	2.74e-01	n/a
S96T001220		F	Europium-155 by GEA	uCi/g	n/a	<2.23e-01	<2.88e-01	<3.11e-1	n/a	n/a	n/a	2.88e-01	n/a
S96T001220		F	Radium-226 by GEA	uCi/g	n/a	<1.850	< 2.541	<2.69e0	n/a	n/a	n/a	2.541	n/a
S96T001220		F	Beta of Solid Sample	uCi/g	107.2	<4.68e-02	1.78e+02	185.0	181.5	3.86	93.23	5.20e-02	3.65E-01
S96T001220		F	Alpha of Digested Solid	uCi/g	103.9	<5.96e-03	4.59e-02	4.51e-02	4.55e-02	1.76	86.35	7.00e-03	2.58E+01
S96T001224		I	Silver -ICP-H20 Dig/Acid	ug/g	97.00	<1.00e-02	< 5.840	<5.86e0	n/a	n/a	46.80	5.850	n/a
S96T001224		I	Aluminium -ICP-H20 Dig/Acid	ug/g	97.60	<5.00e-02	1.84e+02	189.0	186.5	2.68	97.80	29.20	n/a
S96T001224		I	Arsenic -ICP-H20 Dig/Acid	ug/g	101.0	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	101.2	58.40	n/a
S96T001224		I	Boron -ICP-H20 Dig/Acid	ug/g	100.6	<5.00e-02	9.85e+02	963.0	974.0	2.26	99.50	29.20	n/a
S96T001224		I	Barium -ICP-H20 Dig/Acid	ug/g	100.8	<5.00e-02	< 29.20	<2.93e1	n/a	n/a	100.0	29.20	n/a
S96T001224		I	Beryllium -ICP-H20 Dig/Acid	ug/g	103.4	<5.00e-03	< 2.920	<2.93e0	n/a	n/a	102.8	2.920	n/a
S96T001224		I	Bismuth -ICP-H20 Dig/Acid	ug/g	99.20	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	102.4	58.40	n/a
S96T001224		I	Calcium -ICP-H20 Dig/Acid	ug/g	99.60	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	102.4	58.40	n/a
S96T001224		I	Cadmium -ICP-H20 Dig/Acid	ug/g	99.40	<5.00e-03	< 2.920	<2.93e0	n/a	n/a	100.8	2.920	n/a
S96T001224		I	Cerium -ICP-H20 Dig/Acid	ug/g	103.0	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	102.8	58.40	n/a
S96T001224		I	Cobalt -ICP-H20 Dig/Acid	ug/g	99.00	<2.00e-02	< 11.70	<1.17e1	n/a	n/a	102.0	11.70	n/a
S96T001224		I	Chromium -ICP-H20 Dig/Acid	ug/g	99.40	<1.00e-02	32.60	35.20	33.90	7.67	102.0	5.850	n/a
S96T001224		I	Copper -ICP-H20 Dig/Acid	ug/g	101.0	<1.00e-02	< 5.840	<5.86e0	n/a	n/a	101.6	5.850	n/a
S96T001224		I	Iron -ICP-H20 Dig/Acid	ug/g	100.8	<5.00e-02	1.77e+02	179.0	178.0	1.12	103.3	29.20	n/a
S96T001224		I	Potassium -ICP-H20 Dig/Acid	ug/g	98.80	<5.00e-01	<2.92e+02	<2.93e2	n/a	n/a	131.2	292.0	n/a
S96T001224		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	101.4	<5.00e-02	< 29.20	<2.93e1	n/a	n/a	101.6	29.20	n/a
S96T001224		I	Lithium -ICP-H20 Dig/Acid	ug/g	100.2	<1.00e-02	6.620	7.380	7.000	10.9	96.10	5.850	n/a
S96T001224		I	Magnesium -ICP-H20 Dig/Acid	ug/g	95.40	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	99.20	58.40	n/a
S96T001224		I	Manganese -ICP-H20 Dig/Acid	ug/g	99.60	<1.00e-02	< 5.840	<5.86e0	n/a	n/a	102.0	5.850	n/a
S96T001224		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	99.20	<5.00e-02	< 29.20	<2.93e1	n/a	n/a	100.8	29.20	n/a
S96T001224		I	Sodium -ICP-H20 Dig/Acid	ug/g	99.00	<1.00e-01	9.62e+04	9.78e+04	9.70e+04	1.65	n/a	58.40	n/a
S96T001224		I	Neodymium -ICP-H20 Dig/Acid	ug/g	106.0	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	103.2	58.40	n/a
S96T001224		I	Nickel -ICP-H20 Dig/Acid	ug/g	99.20	<2.00e-02	< 11.70	<1.17e1	n/a	n/a	102.0	11.70	n/a
S96T001224		I	Phosphorus -ICP-H20 Dig/Acid	ug/g	101.2	<2.00e-01	1.15e+04	1.18e+04	1.16e+04	2.58	67.00	117.0	n/a
S96T001224		I	Lead -ICP-H20 Dig/Acid	ug/g	99.40	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	105.2	58.40	n/a
S96T001224		I	Sulfur -ICP-H20 Dig/Acid	ug/g	97.40	<1.00e-01	5.03e+03	5.13e+03	5.08e+03	1.97	92.10	58.40	n/a
S96T001224		I	Antimony -ICP-H20 Dig/Acid	ug/g	94.60	<6.00e-02	< 35.10	<3.52e1	n/a	n/a	101.2	35.10	n/a
S96T001224		I	Selenium -ICP-H20 Dig/Acid	ug/g	102.6	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	100.0	58.40	n/a
S96T001224		I	Silicon -ICP-H20 Dig/Acid	ug/g	95.40	<5.00e-02	3.52e+03	3.60e+03	3.56e+03	2.25	94.30	29.20	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001224		I	Samarium -ICP-H2O Dig/Acid	ug/g	101.2	<1.00e-01	< 58.40	<5.86e1	n/a	n/a	100.4	58.40	n/a
S96T001224		I	Strontium -ICP-H2O Dig/Acid	ug/g	100.4	<1.00e-02	< 5.840	<5.86e0	n/a	n/a	100.8	5.850	n/a
S96T001224		I	Titanium-ICP-H2O Dig/Acid	ug/g	97.40	<1.00e-02	< 5.840	<5.86e0	n/a	n/a	98.40	5.850	n/a
S96T001224		I	Thallium -ICP-H2O Dig/Acid	ug/g	96.60	<2.00e-01	<1.17e+02	<1.17e2	n/a	n/a	94.80	117.0	n/a
S96T001224		I	Uranium -ICP-H2O Dig/Acid	ug/g	96.30	<5.00e-01	<2.92e+02	<2.93e2	n/a	n/a	100.0	292.0	n/a
S96T001224		I	Vanadium -ICP-H2O Dig/Acid	ug/g	100.0	<5.00e-02	< 29.20	<2.93e1	n/a	n/a	101.6	29.20	n/a
S96T001224		I	Zinc -ICP-H2O Dig/Acid	ug/g	99.00	<1.00e-02	11.40	8.600	10.00	28.0	100.4	5.850	n/a
S96T001224		I	Zirconium -ICP-H2O Dig/Acid	ug/g	98.60	<1.00e-02	7.070	<5.86e0	n/a	n/a	98.80	5.850	n/a
S96T001227			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
S96T001227			DSC Exotherm on Perkin Elmer	Joules/g	96.70	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S96T001227			% Water by TGA on Perkin Elmer	%	97.96	n/a	56.82	57.26	57.04	0.77	n/a	n/a	n/a
S96T001227			TIC by Acid/Coulometry	ug/g	n/a	n/a	3.19e+02	340.0	329.5	6.37	n/a	5.000	n/a
S96T001227			TOC by Persulfate/Coulometry	ug/g	n/a	n/a	5.49e+02	588.0	568.5	6.86	n/a	40.00	n/a
S96T001230		A	Silver -ICP-Acid Digest	ug/g	96.50	<1.00e-02	< 9.290	<9.39e0	n/a	n/a	n/a	9.290	n/a
S96T001230		A	Aluminium -ICP-Acid Digest	ug/g	101.8	1.22e-01	2.49e+03	4.21e+03	3.35e+03	51.3	n/a	46.50	n/a
S96T001230		A	Arsenic -ICP-Acid Digest	ug/g	101.0	<1.00e-01	< 92.90	<9.39e1	n/a	n/a	n/a	92.90	n/a
S96T001230		A	Boron -ICP-Acid Digest	ug/g	118.4	6.95e-01	1.17e+02	134.0	125.5	13.5	n/a	46.50	n/a
S96T001230		A	Barium -ICP-Acid Digest	ug/g	98.60	<5.00e-02	< 46.50	52.90	n/a	n/a	n/a	46.50	n/a
S96T001230		A	Beryllium -ICP-Acid Digest	ug/g	103.6	<5.00e-03	< 4.650	<4.70e0	n/a	n/a	n/a	4.650	n/a
S96T001230		A	Bismuth -ICP-Acid Digest	ug/g	96.80	<1.00e-01	2.38e+03	4.01e+03	3.20e+03	51.0	n/a	92.90	n/a
S96T001230		A	Calcium -ICP-Acid Digest	ug/g	107.8	2.58e-01	2.47e+03	4.01e+03	3.24e+03	47.5	n/a	92.90	n/a
S96T001230		A	Cadmium -ICP-Acid Digest	ug/g	99.20	<5.00e-03	< 4.650	<4.70e0	n/a	n/a	n/a	4.650	n/a
S96T001230		A	Cerium -ICP-Acid Digest	ug/g	102.6	<1.00e-01	< 92.90	<9.39e1	n/a	n/a	n/a	92.90	n/a
S96T001230		A	Cobalt -ICP-Acid Digest	ug/g	102.8	<2.00e-02	< 18.60	<1.88e1	n/a	n/a	n/a	18.60	n/a
S96T001230		A	Chromium -ICP-Acid Digest	ug/g	99.80	<1.00e-02	2.56e+02	428.0	342.0	50.3	n/a	9.290	n/a
S96T001230		A	Copper -ICP-Acid Digest	ug/g	96.00	2.20e-02	20.60	32.60	26.60	45.1	n/a	9.290	n/a
S96T001230		A	Iron -ICP-Acid Digest	ug/g	105.0	1.66e-01	1.39e+04	2.31e+04	1.85e+04	49.7	n/a	46.50	n/a
S96T001230		A	Potassium -ICP-Acid Digest	ug/g	102.0	<5.00e-01	<4.65e+02	<4.70e2	n/a	n/a	n/a	465.0	n/a
S96T001230		A	Lanthanum -ICP-Acid Digest	ug/g	102.0	<5.00e-02	< 46.50	<4.70e1	n/a	n/a	n/a	46.50	n/a
S96T001230		A	Lithium -ICP-Acid Digest	ug/g	96.60	<1.00e-02	< 9.290	12.70	n/a	n/a	n/a	9.290	n/a
S96T001230		A	Magnesium -ICP-Acid Digest	ug/g	96.40	<1.00e-01	5.96e+02	960.0	778.0	46.8	n/a	92.90	n/a
S96T001230		A	Manganese -ICP-Acid Digest	ug/g	100.0	<1.00e-02	2.15e+02	359.0	287.0	50.2	n/a	9.290	n/a
S96T001230		A	Molybdenum -ICP-Acid Digest	ug/g	100.0	<5.00e-02	< 46.50	<4.70e1	n/a	n/a	n/a	46.50	n/a
S96T001230		A	Sodium -ICP-Acid Digest	ug/g	118.0	9.09e-01	1.01e+05	1.67e+05	1.34e+05	49.3	n/a	92.90	n/a
S96T001230		A	Neodymium -ICP-Acid Digest	ug/g	105.2	<1.00e-01	< 92.90	<9.39e1	n/a	n/a	n/a	92.90	n/a
S96T001230		A	Nickel -ICP-Acid Digest	ug/g	102.0	<2.00e-02	49.90	76.30	63.10	41.8	n/a	18.60	n/a
S96T001230		A	Phosphorus -ICP-Acid Digest	ug/g	113.0	<2.00e-01	2.38e+04	3.97e+04	3.18e+04	50.1	n/a	186.0	n/a
S96T001230		A	Lead -ICP-Acid Digest	ug/g	98.60	<1.00e-01	3.09e+02	515.0	412.0	50.0	n/a	92.90	n/a
S96T001230		A	Sulfur -ICP-Acid Digest	ug/g	103.6	<1.00e-01	5.28e+03	8.66e+03	6.97e+03	48.5	n/a	92.90	n/a
S96T001230		A	Antimony -ICP-Acid Digest	ug/g	100.2	<6.00e-02	< 55.80	<5.63e1	n/a	n/a	n/a	55.80	n/a
S96T001230		A	Selenium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	< 92.90	<9.39e1	n/a	n/a	n/a	92.90	n/a
S96T001230		A	Silicon -ICP-Acid Digest	ug/g	162.2	2.45e-01	3.98e+02	353.0	375.5	12.0	n/a	46.50	n/a
S96T001230		A	Samarium -ICP-Acid Digest	ug/g	99.00	<1.00e-01	< 92.90	<9.39e1	n/a	n/a	n/a	92.90	n/a
S96T001230		A	Strontium -ICP-Acid Digest	ug/g	98.60	<1.00e-02	3.48e+02	587.0	467.5	51.1	n/a	9.290	n/a
S96T001230		A	Titanium-ICP-Acid Digest	ug/g	93.00	<1.00e-02	60.60	98.40	79.50	47.5	n/a	9.290	n/a
S96T001230		A	Thallium -ICP-Acid Digest	ug/g	94.20	<2.00e-01	<1.86e+02	<1.88e2	n/a	n/a	n/a	186.0	n/a
S96T001230		A	Uranium -ICP-Acid Digest	ug/g	95.00	<5.00e-01	1.03e+04	1.71e+04	1.37e+04	49.6	n/a	465.0	n/a
S96T001230		A	Vanadium -ICP-Acid Digest	ug/g	101.0	<5.00e-02	< 46.50	<4.70e1	n/a	n/a	n/a	46.50	n/a
S96T001230		A	Zinc -ICP-Acid Digest	ug/g	99.60	6.00e-02	1.10e+02	166.0	138.0	40.6	n/a	9.290	n/a
S96T001230		A	Zirconium -ICP-Acid Digest	ug/g	107.4	<1.00e-02	24.80	34.10	29.45	31.6	n/a	9.290	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001246		W	Fluoride-IC-Dionex 4000i/4500	ug/g	98.47	<1.30e-02	5.66e+03	5.82e+03	5.74e+03	2.79	68.98	62.16	n/a
S96T001246		W	Chloride-IC-Dionex 4000i/4500	ug/g	92.53	<1.70e-02	1.27e+03	1.31e+03	1.29e+03	3.10	95.57	81.29	n/a
S96T001246		W	Nitrite-IC - Dionex 4000i/4500	ug/g	93.11	<1.07e-01	7.68e+03	7.90e+03	7.79e+03	2.82	96.65	511.6	n/a
S96T001246		W	Bromide by Ion Chromatograph	ug/g	97.56	<1.26e-01	<6.02e+02	<6.04e2	n/a	n/a	95.13	602.5	n/a
S96T001246		W	Nitrate by IC-Dionex4000i/4500	ug/g	97.88	1.89e-01	1.83e+05	1.86e+05	1.85e+05	1.63	98.53	668.9	n/a
S96T001246		W	Phosphate-IC-Dionex 4000i/4500	ug/g	95.42	<1.19e-01	3.27e+04	3.38e+04	3.32e+04	3.31	101.1	568.5	n/a
S96T001246		W	Sulfate by IC-Dionex4000i/4500	ug/g	98.89	<1.36e-01	1.39e+04	1.43e+04	1.41e+04	2.84	100.3	649.7	n/a
S96T001246		W	Oxalate by IC - Dionex 4000i	ug/g	97.42	<1.05e-01	<5.02e+02	<5.03e2	n/a	n/a	97.22	502.1	n/a

Table 1. Tank B-106 Analytical Summary - Cores 93 and 94.
B-106

CORE NUMBER: 93
SEGMENT #: field blank

SEGMENT PORTION: Field Blank

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001269		D	Lithium-ICP-Acid Dil.	ug/mL	98.48	1.00e-03	1.73e-02	1.71e-02	1.72e-02	1.16	n/a	1.00e-02	n/a

Table 1. Tank B-106 Analytical Summary - Cores 93 and 94.
B-106

CORE NUMBER: 93
SEGMENT #: 1

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001278			DSC Exotherm using Mettler	Joules/g	110.0	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001278			% Water by TGA using Mettler	%	101.4	n/a	59.52	58.84	59.18	1.15	n/a	n/a	n/a
S95T001279	F		Uranium by Phosphorescence	ug/g	97.65	405.0	7.60e+03	7.70e+03	7.65e+03	1.31	104.4	1.930	3.21E+00
S95T001279	F		Strontium-89/90 High Level	uCi/g	99.19	3.90e-02	1.11e+02	109.0	110.0	1.82	n/a	2.30e-02	5.90E-01
S95T001279	F		Lithium -ICP-Fusion	ug/g	98.40	1.80e-02	< 47.34	<46.6800	n/a	n/a	93.24	47.30	n/a
S95T001279	F		Cobalt-60 by GEA	uCi/g	99.22	<5.25e-02	<5.95e-02	<5.61e-2	n/a	n/a	n/a	5.90e-02	n/a
S95T001279	F		Niobium-94 by GEA	uCi/g	n/a	<3.45e-02	<4.34e-02	<4.12e-2	n/a	n/a	n/a	4.30e-02	n/a
S95T001279	F		Ru/Rh-106 by GEA	uCi/g	n/a	<7.56e-01	< 2.042	<1.86e0	n/a	n/a	n/a	2.042	n/a
S95T001279	F		Cesium-134 by GEA	uCi/g	n/a	<3.49e-02	<1.05e-01	<9.75e-2	n/a	n/a	n/a	1.05e-01	n/a
S95T001279	F		Cesium-137 by GEA	uCi/g	103.0	<6.43e-02	51.60	51.80	51.70	0.39	n/a	n/a	1.32
S95T001279	F		Ce/Pr-144 by GEA	uCi/g	n/a	<4.11e-01	< 1.406	<1.38e0	n/a	n/a	n/a	1.406	n/a
S95T001279	F		Europium-154 by GEA	uCi/g	n/a	<1.64e-01	<1.56e-01	<1.62e-1	n/a	n/a	n/a	1.56e-01	n/a
S95T001279	F		Europium-155 by GEA	uCi/g	n/a	<1.23e-01	<3.98e-01	<3.85e-1	n/a	n/a	n/a	3.98e-01	n/a
S95T001279	F		Radium-226 by GEA	uCi/g	n/a	<8.20e-01	< 2.712	<2.76e0	n/a	n/a	n/a	2.712	n/a
S95T001279	F		Beta of Solid Sample	uCi/g	100.6	<8.44e-02	2.62e+02	263.0	262.5	0.38	92.81	1.36e-01	5.05E-01
S95T001279	F		Alpha of Digested Solid	uCi/g	105.0	<3.40e-02	<8.19e-02	<6.00e-2	n/a	n/a	n/a	7.70e-02	162.5
S95T001288			Bulk Density of Sample	g/mL	n/a	n/a	1.360	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T001198			TIC by Acid/Coulometry	ug/g	101.2	9.00e-01	2.73e+02	402.0	337.5	38.2	96.00	5.000	n/a
S96T001198			TOC by Persulfate/Coulometry	ug/g	89.36	16.40	1.13e+04	1.21e+04	1.17e+04	6.84	n/a	40.00	n/a
S96T001199		A	Silver -ICP-Acid Digest	ug/g	96.50	<1.00e-02	< 10.50	<1.01e1	n/a	n/a	97.30	10.50	n/a
S96T001199		A	Aluminium -ICP-Acid Digest	ug/g	101.8	1.22e-01	1.80e+03	1.83e+03	1.82e+03	1.65	118.3	52.50	n/a
S96T001199		A	Arsenic -ICP-Acid Digest	ug/g	101.0	<1.00e-01	<1.05e+02	<1.01e2	n/a	n/a	102.6	105.0	n/a
S96T001199		A	Boron -ICP-Acid Digest	ug/g	118.4	6.95e-01	85.10	90.30	87.70	5.93	118.9	52.50	n/a
S96T001199		A	Barium -ICP-Acid Digest	ug/g	98.60	<5.00e-02	< 52.50	<5.06e1	n/a	n/a	105.2	52.50	n/a
S96T001199		A	Beryllium -ICP-Acid Digest	ug/g	103.6	<5.00e-03	< 5.250	<5.06e0	n/a	n/a	104.6	5.250	n/a
S96T001199		A	Bismuth -ICP-Acid Digest	ug/g	96.80	<1.00e-01	2.50e+02	266.0	258.0	6.20	100.6	105.0	n/a
S96T001199		A	Calcium -ICP-Acid Digest	ug/g	107.8	2.58e-01	3.48e+03	3.60e+03	3.54e+03	3.39	116.5	105.0	n/a
S96T001199		A	Cadmium -ICP-Acid Digest	ug/g	99.20	<5.00e-03	< 5.250	<5.06e0	n/a	n/a	102.8	5.250	n/a
S96T001199		A	Cerium -ICP-Acid Digest	ug/g	102.6	<1.00e-01	<1.05e+02	<1.01e2	n/a	n/a	109.6	105.0	n/a
S96T001199		A	Cobalt -ICP-Acid Digest	ug/g	102.8	<2.00e-02	< 21.00	<2.02e1	n/a	n/a	106.2	21.00	n/a
S96T001199		A	Chromium -ICP-Acid Digest	ug/g	99.80	<1.00e-02	4.08e+02	417.0	412.5	2.18	103.4	10.50	n/a
S96T001199		A	Copper -ICP-Acid Digest	ug/g	96.00	2.20e-02	25.30	25.90	25.60	2.34	100.4	10.50	n/a
S96T001199		A	Iron -ICP-Acid Digest	ug/g	105.0	1.66e-01	1.38e+04	1.43e+04	1.40e+04	3.56	151.8	52.50	n/a
S96T001199		A	Potassium -ICP-Acid Digest	ug/g	102.0	<5.00e-01	<5.25e+02	<5.06e2	n/a	n/a	125.2	525.0	n/a
S96T001199		A	Lanthanum -ICP-Acid Digest	ug/g	102.0	<5.00e-02	< 52.50	<5.06e1	n/a	n/a	105.6	52.50	n/a
S96T001199		A	Lithium -ICP-Acid Digest	ug/g	96.60	<1.00e-02	< 10.50	<1.01e1	n/a	n/a	99.00	10.50	n/a
S96T001199		A	Magnesium -ICP-Acid Digest	ug/g	96.40	<1.00e-01	8.05e+02	828.0	816.5	2.82	99.56	105.0	n/a
S96T001199		A	Manganese -ICP-Acid Digest	ug/g	100.0	<1.00e-02	5.47e+02	571.0	559.0	4.29	105.1	10.50	n/a
S96T001199		A	Molybdenum -ICP-Acid Digest	ug/g	100.0	<5.00e-02	< 52.50	<5.06e1	n/a	n/a	101.8	52.50	n/a
S96T001199		A	Sodium -ICP-Acid Digest	ug/g	118.0	9.09e-01	9.96e+04	1.00e+05	9.98e+04	0.40	155.8	105.0	n/a
S96T001199		A	Neodymium -ICP-Acid Digest	ug/g	105.2	<1.00e-01	<1.05e+02	<1.01e2	n/a	n/a	114.6	105.0	n/a
S96T001199		A	Nickel -ICP-Acid Digest	ug/g	102.0	<2.00e-02	63.30	64.40	63.85	1.72	105.4	21.00	n/a
S96T001199		A	Phosphorus -ICP-Acid Digest	ug/g	113.0	<2.00e-01	2.65e+04	2.63e+04	2.64e+04	0.76	40.88	210.0	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001199		A	Lead -ICP-Acid Digest	ug/g	98.60	<1.00e-01	2.99e+02	276.0	287.5	8.00	100.2	105.0	n/a
S96T001199		A	Sulfur -ICP-Acid Digest	ug/g	103.6	<1.00e-01	5.18e+03	5.21e+03	5.20e+03	0.58	100.2	105.0	n/a
S96T001199		A	Antimony -ICP-Acid Digest	ug/g	100.2	<6.00e-02	< 63.00	<6.07e1	n/a	n/a	106.6	63.00	n/a
S96T001199		A	Selenium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	<1.05e+02	<1.01e2	n/a	n/a	93.20	105.0	n/a
S96T001199		A	Silicon -ICP-Acid Digest	ug/g	162.2	2.45e-01	4.28e+02	459.0	443.5	6.99	181.2	52.50	n/a
S96T001199		A	Samarium -ICP-Acid Digest	ug/g	99.00	<1.00e-01	<1.05e+02	<1.01e2	n/a	n/a	97.40	105.0	n/a
S96T001199		A	Strontium -ICP-Acid Digest	ug/g	98.60	<1.00e-02	2.92e+02	302.0	297.0	3.37	103.2	10.50	n/a
S96T001199		A	Titanium-ICP-Acid Digest	ug/g	93.00	<1.00e-02	94.90	97.80	96.35	3.01	94.96	10.50	n/a
S96T001199		A	Thallium -ICP-Acid Digest	ug/g	94.20	<2.00e-01	<2.10e+02	<2.02e2	n/a	n/a	100.2	210.0	n/a
S96T001199		A	Uranium -ICP-Acid Digest	ug/g	95.00	<5.00e-01	5.92e+03	6.22e+03	6.07e+03	4.94	103.9	525.0	n/a
S96T001199		A	Vanadium -ICP-Acid Digest	ug/g	101.0	<5.00e-02	< 52.50	<5.06e1	n/a	n/a	104.2	52.50	n/a
S96T001199		A	Zinc -ICP-Acid Digest	ug/g	99.60	6.00e-02	1.12e+02	102.0	107.0	9.35	101.7	10.50	n/a
S96T001199		A	Zirconium -ICP-Acid Digest	ug/g	107.4	<1.00e-02	< 10.50	11.40	n/a	n/a	49.20	10.50	n/a
S96T001200		W	Fluoride-IC-Dionex 4000i/4500	ug/g	100.0	<1.30e-02	7.19e+02	981.0	850.1	30.8	99.32	105.0	n/a
S96T001200		W	Chloride-IC-Dionex 4000i/4500	ug/g	92.53	<1.70e-02	<1.37e+02	4.67e+03	n/a	n/a	113.8	137.3	n/a
S96T001200		W	Nitrite-IC - Dionex 4000i/4500	ug/g	96.72	<1.07e-01	<8.64e+02	1.35e+04	n/a	n/a	117.7	863.9	n/a
S96T001200		W	Bromide by Ion Chromatograph	ug/g	98.78	<1.26e-01	<1.02e+03	<1.02e3	n/a	n/a	96.70	1.02e+03	n/a
S96T001200		W	Nitrate by IC-Dionex4000i/4500	ug/g	96.25	<1.40e-01	1.84e+05	2.96e+05	2.40e+05	46.7	104.4	1.13e+03	n/a
S96T001200		W	Phosphate-IC-Dionex 4000i/4500	ug/g	97.25	<1.19e-01	4.30e+04	5.95e+04	5.13e+04	32.2	100.2	959.8	n/a
S96T001200		W	Sulfate by IC-Dionex4000i/4500	ug/g	97.78	<1.36e-01	1.44e+04	2.20e+04	1.82e+04	41.8	96.99	1.10e+03	n/a
S96T001200		W	Oxalate by IC - Dionex 4000i	ug/g	99.22	<1.05e-01	<8.48e+02	<8.53e2	n/a	n/a	99.42	847.9	n/a
S96T001210		I	Silver -ICP-H20 Dig/Acid	ug/g	98.60	<1.00e-02	7.270	11.70	9.485	46.7	78.70	4.040	n/a
S96T001210		I	Aluminium -ICP-H20 Dig/Acid	ug/g	97.20	<5.00e-02	3.65e+02	295.0	330.0	21.2	97.80	20.20	n/a
S96T001210		I	Arsenic -ICP-H20 Dig/Acid	ug/g	101.4	<1.00e-01	< 40.40	<4.07e1	n/a	n/a	106.5	40.40	n/a
S96T001210		I	Boron -ICP-H20 Dig/Acid	ug/g	99.00	2.910	5.37e+02	827.0	682.0	42.5	100.8	20.20	n/a
S96T001210		I	Barium -ICP-H20 Dig/Acid	ug/g	100.4	<5.00e-02	< 20.20	<2.03e1	n/a	n/a	101.0	20.20	n/a
S96T001210		I	Beryllium -ICP-H20 Dig/Acid	ug/g	101.6	<5.00e-03	< 2.020	<2.03e0	n/a	n/a	102.5	2.020	n/a
S96T001210		I	Bismuth -ICP-H20 Dig/Acid	ug/g	101.6	<1.00e-01	< 40.40	<4.07e1	n/a	n/a	106.0	40.40	n/a
S96T001210		I	Calcium -ICP-H20 Dig/Acid	ug/g	100.8	<1.00e-01	80.80	50.10	65.45	46.9	103.6	40.40	n/a
S96T001210		I	Cadmium -ICP-H20 Dig/Acid	ug/g	99.60	<5.00e-03	< 2.020	<2.03e0	n/a	n/a	101.0	2.020	n/a
S96T001210		I	Cerium -ICP-H20 Dig/Acid	ug/g	102.6	<1.00e-01	< 40.40	<4.07e1	n/a	n/a	105.0	40.40	n/a
S96T001210		I	Cobalt -ICP-H20 Dig/Acid	ug/g	100.0	<2.00e-02	< 8.090	<8.14e0	n/a	n/a	101.0	8.090	n/a
S96T001210		I	Chromium -ICP-H20 Dig/Acid	ug/g	101.0	<1.00e-02	43.60	59.00	51.30	30.0	102.2	4.040	n/a
S96T001210		I	Copper -ICP-H20 Dig/Acid	ug/g	102.8	<1.00e-02	< 4.040	<4.07e0	n/a	n/a	104.5	4.040	n/a
S96T001210		I	Iron -ICP-H20 Dig/Acid	ug/g	100.8	<5.00e-02	5.85e+02	424.0	504.5	31.9	102.2	20.20	n/a
S96T001210		I	Potassium -ICP-H20 Dig/Acid	ug/g	99.60	<5.00e-01	2.46e+02	419.0	332.5	52.0	89.70	202.0	n/a
S96T001210		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	101.0	<5.00e-02	< 20.20	<2.03e1	n/a	n/a	102.5	20.20	n/a
S96T001210		I	Lithium -ICP-H20 Dig/Acid	ug/g	99.80	<1.00e-02	< 4.040	<4.07e0	n/a	n/a	100.5	4.040	n/a
S96T001210		I	Magnesium -ICP-H20 Dig/Acid	ug/g	96.20	<1.00e-01	43.90	<4.07e1	n/a	n/a	97.70	40.40	n/a
S96T001210		I	Manganese -ICP-H20 Dig/Acid	ug/g	98.60	<1.00e-02	21.00	13.00	17.00	47.1	97.30	4.040	n/a
S96T001210		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	100.6	<5.00e-02	< 20.20	<2.03e1	n/a	n/a	102.5	20.20	n/a
S96T001210		I	Sodium -ICP-H20 Dig/Acid	ug/g	99.40	3.920	9.76e+04	1.61e+05	1.29e+05	49.0	166.2	40.40	n/a
S96T001210		I	Neodymium -ICP-H20 Dig/Acid	ug/g	102.2	<1.00e-01	< 40.40	<4.07e1	n/a	n/a	103.5	40.40	n/a
S96T001210		I	Nickel -ICP-H20 Dig/Acid	ug/g	99.60	<2.00e-02	< 8.090	<8.14e0	n/a	n/a	101.0	8.090	n/a
S96T001210		I	Phosphorus -ICP-H20 Dig/Acid	ug/g	97.60	<2.00e-01	1.43e+04	2.12e+04	1.78e+04	38.9	117.7	80.90	n/a
S96T001210		I	Lead -ICP-H20 Dig/Acid	ug/g	99.20	<1.00e-01	< 40.40	<4.07e1	n/a	n/a	104.5	40.40	n/a
S96T001210		I	Sulfur -ICP-H20 Dig/Acid	ug/g	97.20	<1.00e-01	5.16e+03	8.55e+03	6.86e+03	49.5	103.3	40.40	n/a
S96T001210		I	Antimony -ICP-H20 Dig/Acid	ug/g	95.00	<6.00e-02	< 24.30	<2.44e1	n/a	n/a	97.00	24.30	n/a
S96T001210		I	Selenium -ICP-H20 Dig/Acid	ug/g	97.80	<1.00e-01	< 40.40	<4.07e1	n/a	n/a	98.50	40.40	n/a
S96T001210		I	Silicon -ICP-H20 Dig/Acid	ug/g	95.20	6.620	9.09e+02	1.74e+03	1.32e+03	62.7	103.6	20.20	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001210		I	Samarium -ICP-H2O Dig/Acid	ug/g	98.40	<1.00e-01	< 40.40	<4.07e1	n/a	n/a	98.50	40.40	n/a
S96T001210		I	Strontium -ICP-H2O Dig/Acid	ug/g	99.00	<1.00e-02	9.630	5.610	7.620	52.8	100.1	4.040	n/a
S96T001210		I	Titanium-ICP-H2O Dig/Acid	ug/g	97.00	<1.00e-02	< 4.040	<4.07e0	n/a	n/a	99.50	4.040	n/a
S96T001210		I	Thallium -ICP-H2O Dig/Acid	ug/g	97.40	<2.00e-01	< 80.90	<8.14e1	n/a	n/a	99.00	80.90	n/a
S96T001210		I	Uranium -ICP-H2O Dig/Acid	ug/g	96.90	<5.00e-01	<2.02e+02	<2.03e2	n/a	n/a	105.8	202.0	n/a
S96T001210		I	Vanadium -ICP-H2O Dig/Acid	ug/g	100.0	<5.00e-02	< 20.20	<2.03e1	n/a	n/a	101.0	20.20	n/a
S96T001210		I	Zinc -ICP-H2O Dig/Acid	ug/g	100.0	<1.00e-02	8.260	9.910	9.085	18.2	102.0	4.040	n/a
S96T001210		I	Zirconium -ICP-H2O Dig/Acid	ug/g	99.00	<1.00e-02	< 4.040	<4.07e0	n/a	n/a	99.50	4.040	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%
S95T001274			Bulk Density of Sample	g/mL	n/a	n/a	I.S.	n/a	n/a	n/a	n/a	5.00e-01	n/a
S95T001275			DSC Exotherm using Mettler	Joules/g	109.0	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001275			% Water by TGA using Mettler	%	103.7	n/a	63.52	62.60	63.06	1.46	n/a	n/a	n/a
S95T001277		F	Uranium by Phosphorescence	ug/g	97.65	405.0	8.44e+03	8.82e+03	8.63e+03	4.40	n/a	1.940	3.20E+00
S95T001277		F	Strontium-89/90 High Level	uCi/g	99.19	3.90e-02	1.16e+02	119.0	117.5	2.55	n/a	2.40e-02	5.83E-01
S95T001277		F	Lithium -ICP-Fusion	ug/g	98.40	1.80e-02	< 47.66	<47.4400	n/a	n/a	71.18	47.70	n/a
S95T001277		F	Cobalt-60 by GEA	uCi/g	99.22	<5.25e-02	<5.30e-02	<4.45e-2	n/a	n/a	n/a	5.30e-02	n/a
S95T001277		F	Niobium-94 by GEA	uCi/g	n/a	<3.45e-02	<4.48e-02	<4.11e-2	n/a	n/a	n/a	4.50e-02	n/a
S95T001277		F	Ru/Rh-106 by GEA	uCi/g	n/a	<7.56e-01	< 1.131	<1.28e0	n/a	n/a	n/a	1.131	n/a
S95T001277		F	Cesium-134 by GEA	uCi/g	n/a	<3.49e-02	<6.46e-02	<5.89e-2	n/a	n/a	n/a	6.50e-02	n/a
S95T001277		F	Cesium-137 by GEA	uCi/g	103.0	<6.43e-02	10.06	10.40	10.23	2.93	n/a	n/a	3.07
S95T001277		F	Ce/Pr-144 by GEA	uCi/g	n/a	<4.11e-01	<8.76e-01	<8.90e-1	n/a	n/a	n/a	8.76e-01	n/a
S95T001277		F	Europium-154 by GEA	uCi/g	n/a	<1.64e-01	<1.62e-01	<1.55e-1	n/a	n/a	n/a	1.62e-01	n/a
S95T001277		F	Europium-155 by GEA	uCi/g	n/a	<1.23e-01	<2.47e-01	<2.63e-1	n/a	n/a	n/a	2.47e-01	n/a
S95T001277		F	Radium-226 by GEA	uCi/g	n/a	<8.20e-01	< 1.585	<1.52e0	n/a	n/a	n/a	1.585	n/a
S95T001277		F	Beta of Solid Sample	uCi/g	100.6	<8.44e-02	2.47e+02	246.0	246.5	0.41	n/a	1.37e-01	5.20E-01
S95T001277		F	Alpha of Digested Solid	uCi/g	105.0	<3.40e-02	<3.40e-02	<4.55e-2	n/a	n/a	96.70	7.70e-02	99.9
S96T001212			TIC by Acid/Coulometry	ug/g	101.2	9.00e-01	3.07e+02	329.0	318.0	6.92	n/a	5.000	n/a
S96T001212			TOC by Persulfate/Coulometry	ug/g	93.70	3.300	1.25e+03	935.0	1.09e+03	28.8	n/a	40.00	n/a
S96T001214		A	Silver -ICP-Acid Digest	ug/g	96.50	<1.00e-02	< 9.490	<9.84e0	n/a	n/a	n/a	9.490	n/a
S96T001214		A	Aluminium -ICP-Acid Digest	ug/g	101.8	1.22e-01	2.40e+03	2.45e+03	2.42e+03	2.06	n/a	47.40	n/a
S96T001214		A	Arsenic -ICP-Acid Digest	ug/g	101.0	<1.00e-01	< 94.90	<9.84e1	n/a	n/a	n/a	94.90	n/a
S96T001214		A	Boron -ICP-Acid Digest	ug/g	118.4	6.95e-01	1.10e+02	96.60	103.3	13.0	n/a	47.40	n/a
S96T001214		A	Barium -ICP-Acid Digest	ug/g	98.60	<5.00e-02	< 47.40	<4.92e1	n/a	n/a	n/a	47.40	n/a
S96T001214		A	Beryllium -ICP-Acid Digest	ug/g	103.6	<5.00e-03	< 4.740	<4.92e0	n/a	n/a	n/a	4.750	n/a
S96T001214		A	Bismuth -ICP-Acid Digest	ug/g	96.80	<1.00e-01	3.50e+02	357.0	353.5	1.98	n/a	94.90	n/a
S96T001214		A	Calcium -ICP-Acid Digest	ug/g	107.8	2.58e-01	4.60e+03	4.93e+03	4.76e+03	6.93	n/a	94.90	n/a
S96T001214		A	Cadmium -ICP-Acid Digest	ug/g	99.20	<5.00e-03	< 4.740	<4.92e0	n/a	n/a	n/a	4.750	n/a
S96T001214		A	Cerium -ICP-Acid Digest	ug/g	102.6	<1.00e-01	< 94.90	<9.84e1	n/a	n/a	n/a	94.90	n/a
S96T001214		A	Cobalt -ICP-Acid Digest	ug/g	102.8	<2.00e-02	< 19.00	<1.97e1	n/a	n/a	n/a	19.00	n/a
S96T001214		A	Chromium -ICP-Acid Digest	ug/g	99.80	<1.00e-02	1.61e+02	164.0	162.5	1.85	n/a	9.490	n/a
S96T001214		A	Copper -ICP-Acid Digest	ug/g	96.00	2.20e-02	28.60	29.20	28.90	2.08	n/a	9.490	n/a
S96T001214		A	Iron -ICP-Acid Digest	ug/g	105.0	1.66e-01	1.87e+04	1.80e+04	1.84e+04	3.81	n/a	47.40	n/a
S96T001214		A	Potassium -ICP-Acid Digest	ug/g	102.0	<5.00e-01	<4.74e+02	<4.92e2	n/a	n/a	n/a	474.0	n/a
S96T001214		A	Lanthanum -ICP-Acid Digest	ug/g	102.0	<5.00e-02	< 47.40	<4.92e1	n/a	n/a	n/a	47.40	n/a
S96T001214		A	Lithium -ICP-Acid Digest	ug/g	96.60	<1.00e-02	< 9.490	<9.84e0	n/a	n/a	n/a	9.490	n/a
S96T001214		A	Magnesium -ICP-Acid Digest	ug/g	96.40	<1.00e-01	1.02e+03	1.04e+03	1.03e+03	1.94	n/a	94.90	n/a
S96T001214		A	Manganese -ICP-Acid Digest	ug/g	100.0	<1.00e-02	2.13e+02	214.0	213.5	0.47	n/a	9.490	n/a

17

WHC-SD-WM-DP-140, REV. 1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001214		A	Molybdenum -ICP-Acid Digest	ug/g	100.0	<5.00e-02	< 47.40	<4.92e1	n/a	n/a	n/a	47.40	n/a
S96T001214		A	Sodium -ICP-Acid Digest	ug/g	118.0	9.09e-01	1.10e+05	1.10e+05	1.10e+05	0.00	n/a	94.90	n/a
S96T001214		A	Neodymium -ICP-Acid Digest	ug/g	105.2	<1.00e-01	< 94.90	<9.84e1	n/a	n/a	n/a	94.90	n/a
S96T001214		A	Nickel -ICP-Acid Digest	ug/g	102.0	<2.00e-02	50.50	49.80	50.15	1.40	n/a	19.00	n/a
S96T001214		A	Phosphorus -ICP-Acid Digest	ug/g	113.0	<2.00e-01	2.96e+04	2.96e+04	2.96e+04	0.00	n/a	190.0	n/a
S96T001214		A	Lead -ICP-Acid Digest	ug/g	98.60	<1.00e-01	3.86e+02	388.0	387.0	0.52	n/a	94.90	n/a
S96T001214		A	Sulfur -ICP-Acid Digest	ug/g	103.6	<1.00e-01	5.66e+03	5.59e+03	5.62e+03	1.24	n/a	94.90	n/a
S96T001214		A	Antimony -ICP-Acid Digest	ug/g	100.2	<6.00e-02	< 56.90	<5.91e1	n/a	n/a	n/a	56.90	n/a
S96T001214		A	Selenium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	< 94.90	<9.84e1	n/a	n/a	n/a	94.90	n/a
S96T001214		A	Silicon -ICP-Acid Digest	ug/g	162.2	2.45e-01	4.12e+02	347.0	379.5	17.1	n/a	47.40	n/a
S96T001214		A	Samarium -ICP-Acid Digest	ug/g	99.00	<1.00e-01	< 94.90	<9.84e1	n/a	n/a	n/a	94.90	n/a
S96T001214		A	Strontium -ICP-Acid Digest	ug/g	98.60	<1.00e-02	4.31e+02	441.0	436.0	2.29	n/a	9.490	n/a
S96T001214		A	Titanium-ICP-Acid Digest	ug/g	93.00	<1.00e-02	1.25e+02	126.0	125.5	0.80	n/a	9.490	n/a
S96T001214		A	Thallium -ICP-Acid Digest	ug/g	94.20	<2.00e-01	<1.90e+02	<1.97e2	n/a	n/a	n/a	190.0	n/a
S96T001214		A	Uranium -ICP-Acid Digest	ug/g	95.00	<5.00e-01	9.59e+03	9.72e+03	9.66e+03	1.35	n/a	474.0	n/a
S96T001214		A	Vanadium -ICP-Acid Digest	ug/g	101.0	<5.00e-02	< 47.40	<4.92e1	n/a	n/a	n/a	47.40	n/a
S96T001214		A	Zinc -ICP-Acid Digest	ug/g	99.60	6.00e-02	1.08e+02	117.0	112.5	8.00	n/a	9.490	n/a
S96T001214		A	Zirconium -ICP-Acid Digest	ug/g	107.4	<1.00e-02	10.90	<9.84e0	n/a	n/a	n/a	9.490	n/a
S96T001216		W	Fluoride-IC-Dionex 4000i/4500	ug/g	100.0	<1.30e-02	8.54e+02	952.0	903.1	10.9	n/a	112.4	n/a
S96T001216		W	Chloride-IC-Dionex 4000i/4500	ug/g	92.53	<1.70e-02	1.37e+03	1.54e+03	1.45e+03	11.7	n/a	146.9	n/a
S96T001216		W	Nitrite-IC - Dionex 4000i/4500	ug/g	96.72	<1.07e-01	8.27e+03	9.23e+03	8.75e+03	11.0	n/a	925.0	n/a
S96T001216		W	Bromide by Ion Chromatograph	ug/g	98.78	<1.26e-01	<1.09e+03	<1.13e3	n/a	n/a	n/a	1.09e+03	n/a
S96T001216		W	Nitrate by IC-Dionex4000i/4500	ug/g	96.25	<1.40e-01	1.82e+05	2.07e+05	1.94e+05	12.9	n/a	1.21e+03	n/a
S96T001216		W	Phosphate-IC-Dionex 4000i/4500	ug/g	97.25	<1.19e-01	2.88e+04	3.26e+04	3.07e+04	12.4	n/a	1.03e+03	n/a
S96T001216		W	Sulfate by IC-Dionex4000i/4500	ug/g	97.78	<1.36e-01	1.40e+04	1.61e+04	1.51e+04	14.0	n/a	1.18e+03	n/a
S96T001216		W	Oxalate by IC - Dionex 4000i	ug/g	99.22	<1.05e-01	<9.08e+02	<9.42e2	n/a	n/a	n/a	907.7	n/a
S96T001221		I	Silver -ICP-H20 Dig/Acid	ug/g	98.60	<1.00e-02	7.870	8.440	8.155	6.99	64.20	4.330	n/a
S96T001221		I	Aluminium -ICP-H20 Dig/Acid	ug/g	97.20	<5.00e-02	3.22e+02	349.0	335.5	8.05	98.60	21.60	n/a
S96T001221		I	Arsenic -ICP-H20 Dig/Acid	ug/g	101.4	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	103.0	43.30	n/a
S96T001221		I	Boron -ICP-H20 Dig/Acid	ug/g	99.00	2.910	4.93e+02	813.0	653.0	49.0	101.2	21.60	n/a
S96T001221		I	Barium -ICP-H20 Dig/Acid	ug/g	100.4	<5.00e-02	< 21.60	<2.25e1	n/a	n/a	101.5	21.60	n/a
S96T001221		I	Beryllium -ICP-H20 Dig/Acid	ug/g	101.6	<5.00e-03	< 2.160	<2.25e0	n/a	n/a	102.0	2.160	n/a
S96T001221		I	Bismuth -ICP-H20 Dig/Acid	ug/g	101.6	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	103.5	43.30	n/a
S96T001221		I	Calcium -ICP-H20 Dig/Acid	ug/g	100.8	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	108.5	43.30	n/a
S96T001221		I	Cadmium -ICP-H20 Dig/Acid	ug/g	99.60	<5.00e-03	< 2.160	<2.25e0	n/a	n/a	100.5	2.160	n/a
S96T001221		I	Cerium -ICP-H20 Dig/Acid	ug/g	102.6	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	105.5	43.30	n/a
S96T001221		I	Cobalt -ICP-H20 Dig/Acid	ug/g	100.0	<2.00e-02	< 8.660	<8.98e0	n/a	n/a	101.0	8.660	n/a
S96T001221		I	Chromium -ICP-H20 Dig/Acid	ug/g	101.0	<1.00e-02	32.70	33.60	33.15	2.71	101.4	4.330	n/a
S96T001221		I	Copper -ICP-H20 Dig/Acid	ug/g	102.8	<1.00e-02	< 4.330	<4.49e0	n/a	n/a	105.0	4.330	n/a
S96T001221		I	Iron -ICP-H20 Dig/Acid	ug/g	100.8	<5.00e-02	1.48e+02	155.0	151.5	4.62	101.2	21.60	n/a
S96T001221		I	Potassium -ICP-H20 Dig/Acid	ug/g	99.60	<5.00e-01	2.59e+02	330.0	294.5	24.1	92.00	216.0	n/a
S96T001221		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	101.0	<5.00e-02	< 21.60	<2.25e1	n/a	n/a	103.0	21.60	n/a
S96T001221		I	Lithium -ICP-H20 Dig/Acid	ug/g	99.80	<1.00e-02	< 4.330	<4.49e0	n/a	n/a	101.0	4.330	n/a
S96T001221		I	Magnesium -ICP-H20 Dig/Acid	ug/g	96.20	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	103.0	43.30	n/a
S96T001221		I	Manganese -ICP-H20 Dig/Acid	ug/g	98.60	<1.00e-02	< 4.330	<4.49e0	n/a	n/a	97.00	4.330	n/a
S96T001221		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	100.6	<5.00e-02	< 21.60	<2.25e1	n/a	n/a	102.0	21.60	n/a
S96T001221		I	Sodium -ICP-H20 Dig/Acid	ug/g	99.40	3.920	1.01e+05	1.03e+05	1.02e+05	1.96	197.2	43.30	n/a
S96T001221		I	Neodymium -ICP-H20 Dig/Acid	ug/g	102.2	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	104.5	43.30	n/a
S96T001221		I	Nickel -ICP-H20 Dig/Acid	ug/g	99.60	<2.00e-02	< 8.660	<8.98e0	n/a	n/a	99.00	8.660	n/a
S96T001221		I	Phosphorus -ICP-H20 Dig/Acid	ug/g	97.60	<2.00e-01	1.07e+04	1.07e+04	1.07e+04	0.00	87.30	86.60	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001221		I	Lead -ICP-H2O Dig/Acid	ug/g	99.20	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	102.0	43.30	n/a
S96T001221		I	Sulfur -ICP-H2O Dig/Acid	ug/g	97.20	<1.00e-01	5.49e+03	5.60e+03	5.54e+03	1.98	96.00	43.30	n/a
S96T001221		I	Antimony -ICP-H2O Dig/Acid	ug/g	95.00	<6.00e-02	< 26.00	<2.70e1	n/a	n/a	97.00	26.00	n/a
S96T001221		I	Selenium -ICP-H2O Dig/Acid	ug/g	97.80	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	99.00	43.30	n/a
S96T001221		I	Silicon -ICP-H2O Dig/Acid	ug/g	95.20	6.620	1.10e+03	1.74e+03	1.42e+03	45.1	103.0	21.60	n/a
S96T001221		I	Samarium -ICP-H2O Dig/Acid	ug/g	98.40	<1.00e-01	< 43.30	<4.49e1	n/a	n/a	98.50	43.30	n/a
S96T001221		I	Strontium -ICP-H2O Dig/Acid	ug/g	99.00	<1.00e-02	< 4.330	<4.49e0	n/a	n/a	101.5	4.330	n/a
S96T001221		I	Titanium-ICP-H2O Dig/Acid	ug/g	97.00	<1.00e-02	< 4.330	<4.49e0	n/a	n/a	102.0	4.330	n/a
S96T001221		I	Thallium -ICP-H2O Dig/Acid	ug/g	97.40	<2.00e-01	< 86.60	<8.98e1	n/a	n/a	98.50	86.60	n/a
S96T001221		I	Uranium -ICP-H2O Dig/Acid	ug/g	96.90	<5.00e-01	<2.16e+02	<2.25e2	n/a	n/a	103.2	216.0	n/a
S96T001221		I	Vanadium -ICP-H2O Dig/Acid	ug/g	100.0	<5.00e-02	< 21.60	<2.25e1	n/a	n/a	100.5	21.60	n/a
S96T001221		I	Zinc -ICP-H2O Dig/Acid	ug/g	100.0	<1.00e-02	5.220	5.560	5.390	6.31	100.8	4.330	n/a
S96T001221		I	Zirconium -ICP-H2O Dig/Acid	ug/g	99.00	<1.00e-02	< 4.330	<4.49e0	n/a	n/a	100.0	4.330	n/a

Drainable Liquid: Drainable Liquid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001272			DSC Exotherm using Mettler	Joules/g	102.6	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001272			% Water by TGA using Mettler	%	103.4	n/a	67.32	67.13	67.22	0.28	n/a	n/a	n/a
S95T001272		D	Lithium-ICP-Acid Dil.	ug/mL	98.48	1.00e-03	< 4.010	<4.0100	n/a	n/a	89.33	4.010	n/a

19

WHC-SD-WM-DP-140, REV. 1

Table 1. Tank B-106 Analytical Summary - Cores 93 and 94.
B-106

CORE NUMBER: 93
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001282		F	Uranium by Phosphorescence	ug/g	97.34	<1.74e-01	1.93e+03	1.58e+03	1.76e+03	19.9	124.8	1.74e-01	3.24E+00
S95T001282		F	Strontium-89/90 High Level	uCi/g	100.8	6.10e-02	7.420	6.450	6.935	14.0	n/a	2.70e-02	2.41E+00
S95T001282		F	Lithium -ICP-Fusion	ug/g	100.5	4.20e-02	< 47.15	<47.4650	n/a	n/a	80.83	47.20	n/a
S95T001282		F	Cobalt-60 by GEA	uCi/g	98.44	<9.63e-03	<1.13e-02	<1.39e-2	n/a	n/a	n/a	1.10e-02	n/a
S95T001282		F	Niobium-94 by GEA	uCi/g	n/a	<7.19e-03	<1.15e-02	<1.11e-2	n/a	n/a	n/a	1.10e-02	n/a
S95T001282		F	Ru/Rh-106 by GEA	uCi/g	n/a	<2.23e-01	<5.51e-01	<4.82e-1	n/a	n/a	n/a	5.51e-01	n/a
S95T001282		F	Cesium-134 by GEA	uCi/g	n/a	<1.09e-02	<2.45e-02	<2.42e-2	n/a	n/a	n/a	2.40e-02	n/a
S95T001282		F	Cesium-137 by GEA	uCi/g	99.63	<3.17e-02	13.34	12.20	12.77	8.63	n/a	n/a	1.29
S95T001282		F	Ce/Pr-144 by GEA	uCi/g	n/a	<1.02e-01	<3.37e-01	<3.19e-1	n/a	n/a	n/a	3.37e-01	n/a
S95T001282		F	Europium-154 by GEA	uCi/g	n/a	<2.81e-02	<4.39e-02	<4.66e-2	n/a	n/a	n/a	4.40e-02	n/a
S95T001282		F	Europium-155 by GEA	uCi/g	n/a	<3.17e-02	<9.03e-02	<8.87e-2	n/a	n/a	n/a	9.00e-02	n/a
S95T001282		F	Radium-226 by GEA	uCi/g	n/a	<2.04e-01	<6.70e-01	<6.56e-1	n/a	n/a	n/a	6.70e-01	n/a
S95T001282		F	Beta of Solid Sample	uCi/g	103.3	2.48e-01	27.70	24.70	26.20	11.5	n/a	1.28e-01	1.56E+00
S95T001282		F	Alpha of Digested Solid	uCi/g	97.85	<3.08e-03	5.40e-02	5.25e-02	5.32e-02	2.82	n/a	7.00e-03	17
S95T001283			Bulk Density of Sample	g/mL	n/a	n/a	1.400	n/a	n/a	n/a	n/a	5.00e-01	n/a
S95T001284			DSC Exotherm using Mettler	Joules/g	95.61	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001284			% Water by TGA using Mettler	%	101.2	n/a	59.13	60.39	59.76	2.11	n/a	n/a	n/a
S96T001222		I	Silver -ICP-H2O Dig/Acid	ug/g	97.20	<1.00e-02	7.660	7.720	7.690	0.78	62.80	4.450	n/a
S96T001222		I	Aluminium -ICP-H2O Dig/Acid	ug/g	98.20	1.67e-01	3.50e+02	325.0	337.5	7.41	97.30	22.20	n/a
S96T001222		I	Arsenic -ICP-H2O Dig/Acid	ug/g	102.4	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	103.5	44.50	n/a
S96T001222		I	Boron -ICP-H2O Dig/Acid	ug/g	100.6	2.360	7.57e+02	802.0	779.5	5.77	100.3	22.20	n/a
S96T001222		I	Barium -ICP-H2O Dig/Acid	ug/g	100.0	<5.00e-02	< 22.20	<2.23e1	n/a	n/a	99.00	22.20	n/a
S96T001222		I	Beryllium -ICP-H2O Dig/Acid	ug/g	104.0	<5.00e-03	< 2.220	<2.23e0	n/a	n/a	103.0	2.220	n/a
S96T001222		I	Bismuth -ICP-H2O Dig/Acid	ug/g	101.2	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	107.5	44.50	n/a
S96T001222		I	Calcium -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	102.5	44.50	n/a
S96T001222		I	Cadmium -ICP-H2O Dig/Acid	ug/g	97.80	<5.00e-03	< 2.220	<2.23e0	n/a	n/a	97.50	2.220	n/a
S96T001222		I	Cerium -ICP-H2O Dig/Acid	ug/g	102.6	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	103.0	44.50	n/a
S96T001222		I	Cobalt -ICP-H2O Dig/Acid	ug/g	98.40	<2.00e-02	< 8.900	<8.93e0	n/a	n/a	98.50	8.900	n/a
S96T001222		I	Chromium -ICP-H2O Dig/Acid	ug/g	99.20	<1.00e-02	32.40	31.60	32.00	2.50	99.20	4.450	n/a
S96T001222		I	Copper -ICP-H2O Dig/Acid	ug/g	105.0	1.20e-02	< 4.450	<4.47e0	n/a	n/a	105.5	4.450	n/a
S96T001222		I	Iron -ICP-H2O Dig/Acid	ug/g	100.2	<5.00e-02	1.89e+02	215.0	202.0	12.9	99.00	22.20	n/a
S96T001222		I	Potassium -ICP-H2O Dig/Acid	ug/g	100.8	<5.00e-01	<2.22e+02	<2.23e2	n/a	n/a	157.0	222.0	n/a
S96T001222		I	Lanthanum -ICP-H2O Dig/Acid	ug/g	101.0	<5.00e-02	< 22.20	<2.23e1	n/a	n/a	101.5	22.20	n/a
S96T001222		I	Lithium -ICP-H2O Dig/Acid	ug/g	103.4	<1.00e-02	11.40	10.70	11.05	6.33	102.0	4.450	n/a
S96T001222		I	Magnesium -ICP-H2O Dig/Acid	ug/g	97.80	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	101.0	44.50	n/a
S96T001222		I	Manganese -ICP-H2O Dig/Acid	ug/g	96.40	<1.00e-02	< 4.450	<4.47e0	n/a	n/a	94.00	4.450	n/a
S96T001222		I	Molybdenum -ICP-H2O Dig/Acid	ug/g	99.20	<5.00e-02	< 22.20	<2.23e1	n/a	n/a	99.50	22.20	n/a
S96T001222		I	Sodium -ICP-H2O Dig/Acid	ug/g	100.6	2.690	9.76e+04	9.53e+04	9.64e+04	2.38	54.00	44.50	n/a
S96T001222		I	Neodymium -ICP-H2O Dig/Acid	ug/g	102.4	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	103.0	44.50	n/a
S96T001222		I	Nickel -ICP-H2O Dig/Acid	ug/g	98.20	<2.00e-02	< 8.900	<8.93e0	n/a	n/a	97.00	8.900	n/a
S96T001222		I	Phosphorus -ICP-H2O Dig/Acid	ug/g	97.00	<2.00e-01	9.84e+03	9.20e+03	9.52e+03	6.72	56.70	89.00	n/a
S96T001222		I	Lead -ICP-H2O Dig/Acid	ug/g	96.60	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	98.50	44.50	n/a
S96T001222		I	Sulfur -ICP-H2O Dig/Acid	ug/g	96.40	<1.00e-01	5.19e+03	5.00e+03	5.10e+03	3.73	77.20	44.50	n/a

20

WHC-SD-WM-DP-140, REV. 1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001222		I	Antimony -ICP-H2O Dig/Acid	ug/g	94.80	<6.00e-02	< 26.70	<2.68e1	n/a	n/a	96.50	26.70	n/a
S96T001222		I	Selenium -ICP-H2O Dig/Acid	ug/g	99.40	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	100.5	44.50	n/a
S96T001222		I	Silicon -ICP-H2O Dig/Acid	ug/g	93.80	8.81e-01	2.15e+03	2.14e+03	2.14e+03	0.47	96.00	22.20	n/a
S96T001222		I	Samarium -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-01	< 44.50	<4.47e1	n/a	n/a	95.50	44.50	n/a
S96T001222		I	Strontium -ICP-H2O Dig/Acid	ug/g	99.80	<1.00e-02	< 4.450	<4.47e0	n/a	n/a	100.5	4.450	n/a
S96T001222		I	Titanium-ICP-H2O Dig/Acid	ug/g	98.00	<1.00e-02	< 4.450	<4.47e0	n/a	n/a	100.0	4.450	n/a
S96T001222		I	Thallium -ICP-H2O Dig/Acid	ug/g	96.20	<2.00e-01	< 89.00	<8.93e1	n/a	n/a	93.00	89.00	n/a
S96T001222		I	Uranium -ICP-H2O Dig/Acid	ug/g	97.90	<5.00e-01	<2.22e+02	<2.23e2	n/a	n/a	109.2	222.0	n/a
S96T001222		I	Vanadium -ICP-H2O Dig/Acid	ug/g	99.40	<5.00e-02	< 22.20	<2.23e1	n/a	n/a	98.50	22.20	n/a
S96T001222		I	Zinc -ICP-H2O Dig/Acid	ug/g	98.20	<1.00e-02	5.120	5.760	5.440	11.8	98.90	4.450	n/a
S96T001222		I	Zirconium -ICP-H2O Dig/Acid	ug/g	98.20	<1.00e-02	< 4.450	<4.47e0	n/a	n/a	97.50	4.450	n/a
S96T001225			TIC by Acid/Coulometry	ug/g	95.85	1.400	3.22e+02	366.0	344.0	12.8	n/a	5.000	n/a
S96T001225			TOC by Persulfate/Coulometry	ug/g	97.67	1.300	2.73e+02	286.0	279.5	4.65	n/a	40.00	n/a
S96T001228		A	Silver -ICP-Acid Digest	ug/g	96.50	<1.00e-02	< 9.390	<9.24e0	n/a	n/a	n/a	9.390	n/a
S96T001228		A	Aluminium -ICP-Acid Digest	ug/g	101.8	1.22e-01	1.11e+03	1.14e+03	1.12e+03	2.67	n/a	47.00	n/a
S96T001228		A	Arsenic -ICP-Acid Digest	ug/g	101.0	<1.00e-01	< 93.90	<9.24e1	n/a	n/a	n/a	93.90	n/a
S96T001228		A	Boron -ICP-Acid Digest	ug/g	118.4	6.95e-01	89.10	100.0	94.55	11.5	n/a	47.00	n/a
S96T001228		A	Barium -ICP-Acid Digest	ug/g	98.60	<5.00e-02	< 47.00	<4.62e1	n/a	n/a	n/a	47.00	n/a
S96T001228		A	Beryllium -ICP-Acid Digest	ug/g	103.6	<5.00e-03	< 4.700	<4.62e0	n/a	n/a	n/a	4.690	n/a
S96T001228		A	Bismuth -ICP-Acid Digest	ug/g	96.80	<1.00e-01	9.71e+02	960.0	965.5	1.14	n/a	93.90	n/a
S96T001228		A	Calcium -ICP-Acid Digest	ug/g	107.8	2.58e-01	1.53e+03	1.43e+03	1.48e+03	6.76	n/a	93.90	n/a
S96T001228		A	Cadmium -ICP-Acid Digest	ug/g	99.20	<5.00e-03	< 4.700	<4.62e0	n/a	n/a	n/a	4.690	n/a
S96T001228		A	Cerium -ICP-Acid Digest	ug/g	102.6	<1.00e-01	< 93.90	<9.24e1	n/a	n/a	n/a	93.90	n/a
S96T001228		A	Cobalt -ICP-Acid Digest	ug/g	102.8	<2.00e-02	< 18.80	<1.85e1	n/a	n/a	n/a	18.80	n/a
S96T001228		A	Chromium -ICP-Acid Digest	ug/g	99.80	<1.00e-02	1.53e+02	146.0	149.5	4.68	n/a	9.390	n/a
S96T001228		A	Copper -ICP-Acid Digest	ug/g	96.00	2.20e-02	50.90	21.10	36.00	82.8	n/a	9.390	n/a
S96T001228		A	Iron -ICP-Acid Digest	ug/g	105.0	1.66e-01	1.80e+04	1.74e+04	1.77e+04	3.39	n/a	47.00	n/a
S96T001228		A	Potassium -ICP-Acid Digest	ug/g	102.0	<5.00e-01	<4.70e+02	<4.62e2	n/a	n/a	n/a	470.0	n/a
S96T001228		A	Lanthanum -ICP-Acid Digest	ug/g	102.0	<5.00e-02	< 47.00	<4.62e1	n/a	n/a	n/a	47.00	n/a
S96T001228		A	Lithium -ICP-Acid Digest	ug/g	96.60	<1.00e-02	13.70	13.70	13.70	0.00	n/a	9.390	n/a
S96T001228		A	Magnesium -ICP-Acid Digest	ug/g	96.40	<1.00e-01	3.66e+02	348.0	357.0	5.04	n/a	93.90	n/a
S96T001228		A	Manganese -ICP-Acid Digest	ug/g	100.0	<1.00e-02	88.00	83.40	85.70	5.37	n/a	9.390	n/a
S96T001228		A	Molybdenum -ICP-Acid Digest	ug/g	100.0	<5.00e-02	< 47.00	<4.62e1	n/a	n/a	n/a	47.00	n/a
S96T001228		A	Sodium -ICP-Acid Digest	ug/g	118.0	9.09e-01	1.02e+05	9.82e+04	1.00e+05	3.80	n/a	93.90	n/a
S96T001228		A	Neodymium -ICP-Acid Digest	ug/g	105.2	<1.00e-01	< 93.90	<9.24e1	n/a	n/a	n/a	93.90	n/a
S96T001228		A	Nickel -ICP-Acid Digest	ug/g	102.0	<2.00e-02	63.90	57.40	60.65	10.7	n/a	18.80	n/a
S96T001228		A	Phosphorus -ICP-Acid Digest	ug/g	113.0	<2.00e-01	2.29e+04	2.19e+04	2.24e+04	4.46	n/a	188.0	n/a
S96T001228		A	Lead -ICP-Acid Digest	ug/g	98.60	<1.00e-01	3.40e+02	358.0	349.0	5.16	n/a	93.90	n/a
S96T001228		A	Sulfur -ICP-Acid Digest	ug/g	103.6	<1.00e-01	5.31e+03	5.08e+03	5.20e+03	4.43	n/a	93.90	n/a
S96T001228		A	Antimony -ICP-Acid Digest	ug/g	100.2	<6.00e-02	< 56.40	<5.55e1	n/a	n/a	n/a	56.40	n/a
S96T001228		A	Selenium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	< 93.90	<9.24e1	n/a	n/a	n/a	93.90	n/a
S96T001228		A	Silicon -ICP-Acid Digest	ug/g	162.2	2.45e-01	3.59e+02	456.0	407.5	23.8	n/a	47.00	n/a
S96T001228		A	Samarium -ICP-Acid Digest	ug/g	99.00	<1.00e-01	< 93.90	<9.24e1	n/a	n/a	n/a	93.90	n/a
S96T001228		A	Strontium -ICP-Acid Digest	ug/g	98.60	<1.00e-02	5.15e+02	489.0	502.0	5.18	n/a	9.390	n/a
S96T001228		A	Titanium-ICP-Acid Digest	ug/g	93.00	<1.00e-02	28.60	26.00	27.30	9.52	n/a	9.390	n/a
S96T001228		A	Thallium -ICP-Acid Digest	ug/g	94.20	<2.00e-01	<1.88e+02	<1.85e2	n/a	n/a	n/a	188.0	n/a
S96T001228		A	Uranium -ICP-Acid Digest	ug/g	95.00	<5.00e-01	1.93e+04	1.85e+04	1.89e+04	4.23	n/a	470.0	n/a
S96T001228		A	Vanadium -ICP-Acid Digest	ug/g	101.0	<5.00e-02	< 47.00	<4.62e1	n/a	n/a	n/a	47.00	n/a
S96T001228		A	Zinc -ICP-Acid Digest	ug/g	99.60	6.00e-02	1.28e+02	121.0	124.5	5.62	n/a	9.390	n/a
S96T001228		A	Zirconium -ICP-Acid Digest	ug/g	107.4	<1.00e-02	15.80	11.40	13.60	32.4	n/a	9.390	n/a

21

WHC-SD-WM-DP-140, REV. 1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001244		W	Fluoride-IC-Dionex 4000i/4500	ug/g	100.3	<1.30e-02	1.97e+03	1.83e+03	1.90e+03	7.37	n/a	59.14	n/a
S96T001244		W	Chloride-IC-Dionex 4000i/4500	ug/g	92.53	<1.70e-02	1.40e+03	1.36e+03	1.38e+03	2.90	n/a	77.34	n/a
S96T001244		W	Nitrite-IC - Dionex 4000i/4500	ug/g	97.63	<1.07e-01	8.30e+03	7.88e+03	8.09e+03	5.19	n/a	486.8	n/a
S96T001244		W	Bromide by Ion Chromatograph	ug/g	99.83	<1.26e-01	<5.73e+02	<5.76e2	n/a	n/a	n/a	573.3	n/a
S96T001244		W	Nitrate by IC-Dionex4000i/4500	ug/g	97.23	2.02e-01	1.92e+05	1.84e+05	1.88e+05	4.26	n/a	636.5	n/a
S96T001244		W	Phosphate-IC-Dionex 4000i/4500	ug/g	99.08	<1.19e-01	3.00e+04	2.81e+04	2.91e+04	6.54	n/a	541.0	n/a
S96T001244		W	Sulfate by IC-Dionex4000i/4500	ug/g	99.21	<1.36e-01	1.42e+04	1.32e+04	1.37e+04	7.30	n/a	618.2	n/a
S96T001244		W	Oxalate by IC - Dionex 4000i	ug/g	100.8	<1.05e-01	<4.78e+02	<4.80e2	n/a	n/a	n/a	477.8	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%
S95T001281			DSC Exotherm using Mettler	Joules/g	95.61	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001281			% Water by TGA using Mettler	%	101.2	n/a	55.98	57.20	56.59	2.16	n/a	n/a	n/a
S95T001285		F	Uranium by Phosphorescence	ug/g	97.34	<1.74e-01	1.91e+04	2.22e+04	2.06e+04	15.0	n/a	1.810	3.22E+00
S95T001285		F	Strontium-89/90 High Level	uCi/g	100.8	6.10e-02	76.80	82.80	79.80	7.52	n/a	4.20e-02	9.27E-01
S95T001285		F	Lithium -ICP-Fusion	ug/g	100.5	4.20e-02	< 44.50	<45.4880	n/a	n/a	93.53	44.50	n/a
S95T001285		F	Cobalt-60 by GEA	uCi/g	98.44	<9.63e-03	<4.58e-02	<3.63e-2	n/a	n/a	n/a	4.60e-02	n/a
S95T001285		F	Niobium-94 by GEA	uCi/g	n/a	<7.19e-03	<4.17e-02	<3.89e-2	n/a	n/a	n/a	4.20e-02	n/a
S95T001285		F	Ru/Rh-106 by GEA	uCi/g	n/a	<2.23e-01	< 1.312	<1.19e0	n/a	n/a	n/a	1.312	n/a
S95T001285		F	Cesium-134 by GEA	uCi/g	n/a	<1.09e-02	<6.30e-02	<5.71e-2	n/a	n/a	n/a	6.30e-02	n/a
S95T001285		F	Cesium-137 by GEA	uCi/g	99.63	<3.17e-02	15.80	16.80	16.30	6.13	n/a	n/a	2.35
S95T001285		F	Ce/Pr-144 by GEA	uCi/g	n/a	<1.02e-01	<8.91e-01	<9.24e-1	n/a	n/a	n/a	8.91e-01	n/a
S95T001285		F	Europium-154 by GEA	uCi/g	n/a	<2.81e-02	<1.22e-01	<1.66e-1	n/a	n/a	n/a	1.22e-01	n/a
S95T001285		F	Europium-155 by GEA	uCi/g	n/a	<3.17e-02	<2.45e-01	<2.62e-1	n/a	n/a	n/a	2.45e-01	n/a
S95T001285		F	Radium-226 by GEA	uCi/g	n/a	<2.04e-01	< 1.654	<1.68e0	n/a	n/a	n/a	1.654	n/a
S95T001285		F	Beta of Solid Sample	uCi/g	103.3	2.48e-01	1.73e+02	178.0	175.5	2.85	92.81	1.20e-01	6.09E-01
S95T001285		F	Alpha of Digested Solid	uCi/g	97.85	<3.08e-03	<5.62e-02	<5.41e-2	n/a	n/a	n/a	6.70e-02	500
S95T001289			Bulk Density of Sample	g/mL	n/a	n/a	1.430	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T001223		I	Silver -ICP-H20 Dig/Acid	ug/g	97.20	<1.00e-02	7.600	7.590	7.595	0.13	46.20	3.810	n/a
S96T001223		I	Aluminium -ICP-H20 Dig/Acid	ug/g	98.20	1.67e-01	1.99e+02	369.0	284.0	59.9	98.80	19.10	n/a
S96T001223		I	Arsenic -ICP-H20 Dig/Acid	ug/g	102.4	<1.00e-01	< 38.10	<3.89e1	n/a	n/a	104.0	38.10	n/a
S96T001223		I	Boron -ICP-H20 Dig/Acid	ug/g	100.6	2.360	7.88e+02	1.00e+03	894.0	23.7	99.30	19.10	n/a
S96T001223		I	Barium -ICP-H20 Dig/Acid	ug/g	100.0	<5.00e-02	< 19.10	<1.94e1	n/a	n/a	100.0	19.10	n/a
S96T001223		I	Beryllium -ICP-H20 Dig/Acid	ug/g	104.0	<5.00e-03	< 1.910	<1.94e0	n/a	n/a	103.5	1.910	n/a
S96T001223		I	Bismuth -ICP-H20 Dig/Acid	ug/g	101.2	<1.00e-01	42.40	40.20	41.30	5.33	100.9	38.10	n/a
S96T001223		I	Calcium -ICP-H20 Dig/Acid	ug/g	98.80	<1.00e-01	< 38.10	<3.89e1	n/a	n/a	103.5	38.10	n/a
S96T001223		I	Cadmium -ICP-H20 Dig/Acid	ug/g	97.80	<5.00e-03	< 1.910	<1.94e0	n/a	n/a	98.50	1.910	n/a
S96T001223		I	Cerium -ICP-H20 Dig/Acid	ug/g	102.6	<1.00e-01	< 38.10	<3.89e1	n/a	n/a	105.0	38.10	n/a
S96T001223		I	Cobalt -ICP-H20 Dig/Acid	ug/g	98.40	<2.00e-02	< 7.630	<7.78e0	n/a	n/a	99.00	7.630	n/a
S96T001223		I	Chromium -ICP-H20 Dig/Acid	ug/g	99.20	<1.00e-02	40.50	39.60	40.05	2.25	99.90	3.810	n/a
S96T001223		I	Copper -ICP-H20 Dig/Acid	ug/g	105.0	1.20e-02	< 3.810	<3.89e0	n/a	n/a	106.0	3.810	n/a
S96T001223		I	Iron -ICP-H20 Dig/Acid	ug/g	100.2	<5.00e-02	49.00	58.50	53.75	17.7	100.6	19.10	n/a
S96T001223		I	Potassium -ICP-H20 Dig/Acid	ug/g	100.8	<5.00e-01	2.71e+02	204.0	237.5	28.2	98.00	191.0	n/a
S96T001223		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	101.0	<5.00e-02	< 19.10	<1.94e1	n/a	n/a	102.0	19.10	n/a
S96T001223		I	Lithium -ICP-H20 Dig/Acid	ug/g	103.4	<1.00e-02	8.140	9.920	9.030	19.7	102.4	3.810	n/a
S96T001223		I	Magnesium -ICP-H20 Dig/Acid	ug/g	97.80	<1.00e-01	< 38.10	<3.89e1	n/a	n/a	101.0	38.10	n/a
S96T001223		I	Manganese -ICP-H20 Dig/Acid	ug/g	96.40	<1.00e-02	< 3.810	<3.89e0	n/a	n/a	95.00	3.810	n/a
S96T001223		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	99.20	<5.00e-02	< 19.10	<1.94e1	n/a	n/a	100.5	19.10	n/a
S96T001223		I	Sodium -ICP-H20 Dig/Acid	ug/g	100.6	2.690	1.01e+05	1.01e+05	1.01e+05	0.00	77.60	38.10	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001223		I	Neodymium -ICP-H2O Dig/Acid	ug/g	102.4	<1.00e-01	< 38.10	<3.89e1	n/a	n/a	103.0	38.10	n/a
S96T001223		I	Nickel -ICP-H2O Dig/Acid	ug/g	98.20	<2.00e-02	< 7.630	<7.78e0	n/a	n/a	97.50	7.630	n/a
S96T001223		I	Phosphorus -ICP-H2O Dig/Acid	ug/g	97.00	<2.00e-01	6.40e+03	7.74e+03	7.07e+03	19.0	112.9	76.30	n/a
S96T001223		I	Lead -ICP-H2O Dig/Acid	ug/g	96.60	<1.00e-01	< 38.10	<3.89e1	n/a	n/a	99.00	38.10	n/a
S96T001223		I	Sulfur -ICP-H2O Dig/Acid	ug/g	96.40	<1.00e-01	5.58e+03	5.34e+03	5.46e+03	4.40	91.70	38.10	n/a
S96T001223		I	Antimony -ICP-H2O Dig/Acid	ug/g	94.80	<6.00e-02	< 22.90	<2.33e1	n/a	n/a	97.00	22.90	n/a
S96T001223		I	Selenium -ICP-H2O Dig/Acid	ug/g	99.40	<1.00e-01	< 38.10	<3.89e1	n/a	n/a	105.0	38.10	n/a
S96T001223		I	Silicon -ICP-H2O Dig/Acid	ug/g	93.80	8.81e-01	3.40e+03	4.63e+03	4.02e+03	30.6	94.10	19.10	n/a
S96T001223		I	Samarium -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-01	< 38.10	<3.89e1	n/a	n/a	97.00	38.10	n/a
S96T001223		I	Strontium -ICP-H2O Dig/Acid	ug/g	99.80	<1.00e-02	< 3.810	<3.89e0	n/a	n/a	100.5	3.810	n/a
S96T001223		I	Titanium-ICP-H2O Dig/Acid	ug/g	98.00	<1.00e-02	< 3.810	<3.89e0	n/a	n/a	103.0	3.810	n/a
S96T001223		I	Thallium -ICP-H2O Dig/Acid	ug/g	96.20	<2.00e-01	< 76.30	<7.78e1	n/a	n/a	95.50	76.30	n/a
S96T001223		I	Uranium -ICP-H2O Dig/Acid	ug/g	97.90	<5.00e-01	<1.91e+02	<1.94e2	n/a	n/a	94.00	191.0	n/a
S96T001223		I	Vanadium -ICP-H2O Dig/Acid	ug/g	99.40	<5.00e-02	< 19.10	<1.94e1	n/a	n/a	99.50	19.10	n/a
S96T001223		I	Zinc -ICP-H2O Dig/Acid	ug/g	98.20	<1.00e-02	5.670	6.530	6.100	14.1	99.50	3.810	n/a
S96T001223		I	Zirconium -ICP-H2O Dig/Acid	ug/g	98.20	<1.00e-02	< 3.810	<3.89e0	n/a	n/a	99.00	3.810	n/a
S96T001226			TIC by Acid/Coulometry	ug/g	95.85	1.400	2.30e+02	234.0	232.0	1.72	96.00	5.000	n/a
S96T001226			TOC by Persulfate/Coulometry	ug/g	97.67	1.300	2.54e+02	246.0	250.0	3.20	93.00	40.00	n/a
S96T001229		A	Silver -ICP-Acid Digest	ug/g	96.50	<1.00e-02	< 10.50	<1.05e1	n/a	n/a	n/a	10.50	n/a
S96T001229		A	Aluminium -ICP-Acid Digest	ug/g	101.8	1.22e-01	1.26e+04	1.05e+04	1.16e+04	18.2	n/a	52.40	n/a
S96T001229		A	Arsenic -ICP-Acid Digest	ug/g	101.0	<1.00e-01	<1.05e+02	<1.05e2	n/a	n/a	n/a	105.0	n/a
S96T001229		A	Boron -ICP-Acid Digest	ug/g	118.4	6.95e-01	1.35e+03	947.0	1.15e+03	35.1	n/a	52.40	n/a
S96T001229		A	Barium -ICP-Acid Digest	ug/g	98.60	<5.00e-02	< 52.40	<5.23e1	n/a	n/a	n/a	52.40	n/a
S96T001229		A	Beryllium -ICP-Acid Digest	ug/g	103.6	<5.00e-03	< 5.240	<5.23e0	n/a	n/a	n/a	5.240	n/a
S96T001229		A	Bismuth -ICP-Acid Digest	ug/g	96.80	<1.00e-01	2.07e+04	1.72e+04	1.90e+04	18.5	n/a	105.0	n/a
S96T001229		A	Calcium -ICP-Acid Digest	ug/g	107.8	2.58e-01	3.08e+02	336.0	322.0	8.70	n/a	105.0	n/a
S96T001229		A	Cadmium -ICP-Acid Digest	ug/g	99.20	<5.00e-03	< 5.240	<5.23e0	n/a	n/a	n/a	5.00e-03	n/a
S96T001229		A	Cerium -ICP-Acid Digest	ug/g	102.6	<1.00e-01	<1.05e+02	<1.05e2	n/a	n/a	n/a	105.0	n/a
S96T001229		A	Cobalt -ICP-Acid Digest	ug/g	102.8	<2.00e-02	< 21.00	<2.09e1	n/a	n/a	n/a	21.00	n/a
S96T001229		A	Chromium -ICP-Acid Digest	ug/g	99.80	<1.00e-02	7.04e+02	588.0	646.0	18.0	n/a	10.50	n/a
S96T001229		A	Copper -ICP-Acid Digest	ug/g	96.00	2.20e-02	12.90	12.40	12.65	3.95	n/a	10.50	n/a
S96T001229		A	Iron -ICP-Acid Digest	ug/g	105.0	1.66e-01	8.37e+03	6.99e+03	7.68e+03	18.0	n/a	52.40	n/a
S96T001229		A	Potassium -ICP-Acid Digest	ug/g	102.0	<5.00e-01	<5.24e+02	<5.23e2	n/a	n/a	n/a	524.0	n/a
S96T001229		A	Lanthanum -ICP-Acid Digest	ug/g	102.0	<5.00e-02	< 52.40	<5.23e1	n/a	n/a	n/a	52.40	n/a
S96T001229		A	Lithium -ICP-Acid Digest	ug/g	96.60	<1.00e-02	12.90	11.90	12.40	8.06	n/a	10.50	n/a
S96T001229		A	Magnesium -ICP-Acid Digest	ug/g	96.40	<1.00e-01	1.43e+02	161.0	152.0	11.8	n/a	105.0	n/a
S96T001229		A	Manganese -ICP-Acid Digest	ug/g	100.0	<1.00e-02	32.10	27.10	29.60	16.9	n/a	10.50	n/a
S96T001229		A	Molybdenum -ICP-Acid Digest	ug/g	100.0	<5.00e-02	< 52.40	<5.23e1	n/a	n/a	n/a	52.40	n/a
S96T001229		A	Sodium -ICP-Acid Digest	ug/g	118.0	9.09e-01	1.21e+05	1.22e+05	1.22e+05	0.82	n/a	105.0	n/a
S96T001229		A	Neodymium -ICP-Acid Digest	ug/g	105.2	<1.00e-01	<1.05e+02	<1.05e2	n/a	n/a	n/a	105.0	n/a
S96T001229		A	Nickel -ICP-Acid Digest	ug/g	102.0	<2.00e-02	21.70	<2.09e1	n/a	n/a	n/a	21.00	n/a
S96T001229		A	Phosphorus -ICP-Acid Digest	ug/g	113.0	<2.00e-01	2.36e+04	2.17e+04	2.26e+04	8.39	n/a	210.0	n/a
S96T001229		A	Lead -ICP-Acid Digest	ug/g	98.60	<1.00e-01	4.75e+02	369.0	422.0	25.1	n/a	105.0	n/a
S96T001229		A	Sulfur -ICP-Acid Digest	ug/g	103.6	<1.00e-01	5.66e+03	5.78e+03	5.72e+03	2.10	n/a	105.0	n/a
S96T001229		A	Antimony -ICP-Acid Digest	ug/g	100.2	<6.00e-02	< 62.90	<6.27e1	n/a	n/a	n/a	62.90	n/a
S96T001229		A	Selenium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	<1.05e+02	<1.05e2	n/a	n/a	n/a	105.0	n/a
S96T001229		A	Silicon -ICP-Acid Digest	ug/g	162.2	2.45e-01	5.59e+03	531.0	3.06e+03	165	n/a	52.40	n/a
S96T001229		A	Samarium -ICP-Acid Digest	ug/g	99.00	<1.00e-01	<1.05e+02	<1.05e2	n/a	n/a	n/a	105.0	n/a
S96T001229		A	Strontium -ICP-Acid Digest	ug/g	98.60	<1.00e-02	1.53e+02	128.0	140.5	17.8	n/a	10.50	n/a
S96T001229		A	Titanium-ICP-Acid Digest	ug/g	93.00	<1.00e-02	< 10.50	<1.05e1	n/a	n/a	n/a	10.50	n/a

23

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001229		A	Thallium -ICP-Acid Digest	ug/g	94.20	<2.00e-01	<2.10e+02	<2.09e2	n/a	n/a	n/a	210.0	n/a
S96T001229		A	Uranium -ICP-Acid Digest	ug/g	95.00	<5.00e-01	1.63e+03	1.36e+03	1.50e+03	18.1	n/a	524.0	n/a
S96T001229		A	Vanadium -ICP-Acid Digest	ug/g	101.0	<5.00e-02	< 52.40	<5.23e1	n/a	n/a	n/a	52.40	n/a
S96T001229		A	Zinc -ICP-Acid Digest	ug/g	99.60	6.00e-02	2.03e+02	165.0	184.0	20.7	n/a	10.50	n/a
S96T001229		A	Zirconium -ICP-Acid Digest	ug/g	107.4	<1.00e-02	1.48e+02	121.0	134.5	20.1	n/a	10.50	n/a
S96T001245		W	Fluoride-IC-Dionex 4000i/4500	ug/g	100.3	<1.30e-02	6.08e+03	1.18e+04	8.94e+03	64.0	n/a	50.72	n/a
S96T001245		W	Chloride-IC-Dionex 4000i/4500	ug/g	92.53	<1.70e-02	1.16e+03	1.21e+03	1.18e+03	4.22	n/a	66.34	n/a
S96T001245		W	Nitrite-IC - Dionex 4000i/4500	ug/g	97.63	<1.07e-01	6.72e+03	7.06e+03	6.89e+03	4.93	n/a	417.5	n/a
S96T001245		W	Bromide by Ion Chromatograph	ug/g	99.83	<1.26e-01	<4.92e+02	<5.01e2	n/a	n/a	n/a	491.6	n/a
S96T001245		W	Nitrate by IC-Dionex4000i/4500	ug/g	97.23	2.02e-01	1.68e+05	1.77e+05	1.73e+05	5.22	n/a	545.8	n/a
S96T001245		W	Phosphate-IC-Dionex 4000i/4500	ug/g	99.08	<1.19e-01	1.65e+04	2.35e+04	2.00e+04	35.0	n/a	463.9	n/a
S96T001245		W	Sulfate by IC-Dionex4000i/4500	ug/g	99.21	<1.36e-01	1.30e+04	1.44e+04	1.37e+04	10.2	n/a	530.2	n/a
S96T001245		W	Oxalate by IC - Dionex 4000i	ug/g	100.8	<1.05e-01	<4.10e+02	<4.18e2	n/a	n/a	n/a	409.7	n/a

Table 1. Tank B-106 Analytical Summary - Cores 93 and 94.
B-106

CORE NUMBER: 94
SEGMENT #: Composite

SEGMENT PORTION: Core Composite

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001314			Bulk Density of Sample	g/mL	n/a	n/a	1.340	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T001644			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
S96T001644			DSC Exotherm on Perkin Elmer	Joules/g	96.70	n/a	0.00e+00	0.00e+00	0.00e+00	0.00	n/a	n/a	n/a
S96T001644			% Water by TGA on Perkin Elmer	%	97.96	n/a	57.95	58.17	58.06	0.38	n/a	n/a	n/a
S96T001644			TIC by Acid/Coulometry	ug/g	101.8	1.300	2.97e+02	307.0	302.0	3.31	n/a	5.000	n/a
S96T001644			TOC by Persulfate/Coulometry	ug/g	98.03	8.300	4.41e+02	441.0	441.0	0.00	n/a	40.00	n/a
S96T001645		A	Silver -ICP-Acid Digest	ug/g	90.70	<1.00e-02	< 5.480	<5.52e0	n/a	n/a	96.60	5.480	n/a
S96T001645		A	Aluminium -ICP-Acid Digest	ug/g	99.20	1.22e-01	2.08e+03	2.14e+03	2.11e+03	2.84	104.3	27.40	n/a
S96T001645		A	Arsenic -ICP-Acid Digest	ug/g	97.80	<1.00e-01	< 54.80	<5.52e1	n/a	n/a	102.4	54.80	n/a
S96T001645		A	Boron -ICP-Acid Digest	ug/g	110.2	5.89e-01	2.12e+02	218.0	215.0	2.79	101.8	27.40	n/a
S96T001645		A	Barium -ICP-Acid Digest	ug/g	97.00	<5.00e-02	30.70	31.20	30.95	1.62	102.8	27.40	n/a
S96T001645		A	Beryllium -ICP-Acid Digest	ug/g	106.6	<5.00e-03	< 2.740	<2.76e0	n/a	n/a	106.0	2.740	n/a
S96T001645		A	Bismuth -ICP-Acid Digest	ug/g	95.20	<1.00e-01	1.90e+03	1.95e+03	1.92e+03	2.60	104.6	54.80	n/a
S96T001645		A	Calcium -ICP-Acid Digest	ug/g	118.2	9.37e-01	1.78e+03	1.83e+03	1.80e+03	2.77	107.4	54.80	n/a
S96T001645		A	Cadmium -ICP-Acid Digest	ug/g	95.40	<5.00e-03	< 2.740	<2.76e0	n/a	n/a	99.80	2.740	n/a
S96T001645		A	Cerium -ICP-Acid Digest	ug/g	100.2	<1.00e-01	< 54.80	<5.52e1	n/a	n/a	106.0	54.80	n/a
S96T001645		A	Cobalt -ICP-Acid Digest	ug/g	98.40	<2.00e-02	< 11.00	<1.10e1	n/a	n/a	103.0	11.00	n/a
S96T001645		A	Chromium -ICP-Acid Digest	ug/g	94.20	<1.00e-02	2.02e+02	204.0	203.0	0.99	99.34	5.480	n/a
S96T001645		A	Copper -ICP-Acid Digest	ug/g	95.60	<1.00e-02	16.60	16.30	16.45	1.82	100.7	5.480	n/a
S96T001645		A	Iron -ICP-Acid Digest	ug/g	97.40	<5.00e-02	1.39e+04	1.39e+04	1.39e+04	0.00	161.5	27.40	n/a
S96T001645		A	Potassium -ICP-Acid Digest	ug/g	102.0	<5.00e-01	3.32e+02	319.0	325.5	3.99	95.46	274.0	n/a
S96T001645		A	Lanthanum -ICP-Acid Digest	ug/g	99.20	<5.00e-02	< 27.40	<2.76e1	n/a	n/a	106.2	27.40	n/a
S96T001645		A	Lithium -ICP-Acid Digest	ug/g	95.40	<1.00e-02	13.00	12.90	12.95	0.77	99.62	5.480	n/a
S96T001645		A	Magnesium -ICP-Acid Digest	ug/g	91.00	<1.00e-01	4.50e+02	461.0	455.5	2.41	94.92	54.80	n/a
S96T001645		A	Manganese -ICP-Acid Digest	ug/g	95.20	<1.00e-02	96.70	97.40	97.05	0.72	100.8	5.480	n/a
S96T001645		A	Molybdenum -ICP-Acid Digest	ug/g	95.80	<5.00e-02	< 27.40	<2.76e1	n/a	n/a	99.80	27.40	n/a
S96T001645		A	Sodium -ICP-Acid Digest	ug/g	113.4	7.82e-01	9.54e+04	9.70e+04	9.62e+04	1.66	555.6	54.80	n/a
S96T001645		A	Neodymium -ICP-Acid Digest	ug/g	102.0	<1.00e-01	< 54.80	<5.52e1	n/a	n/a	109.4	54.80	n/a
S96T001645		A	Nickel -ICP-Acid Digest	ug/g	97.60	<2.00e-02	51.40	55.40	53.40	7.49	102.9	11.00	n/a
S96T001645		A	Phosphorus -ICP-Acid Digest	ug/g	104.4	<2.00e-01	1.99e+04	2.03e+04	2.01e+04	1.99	160.6	110.0	n/a
S96T001645		A	Lead -ICP-Acid Digest	ug/g	93.40	<1.00e-01	2.74e+02	266.0	270.0	2.96	100.4	54.80	n/a
S96T001645		A	Sulfur -ICP-Acid Digest	ug/g	99.00	1.38e-01	5.18e+03	5.30e+03	5.24e+03	2.29	117.4	54.80	n/a
S96T001645		A	Antimony -ICP-Acid Digest	ug/g	97.80	<6.00e-02	< 32.90	<3.31e1	n/a	n/a	96.20	32.90	n/a
S96T001645		A	Selenium -ICP-Acid Digest	ug/g	94.60	<1.00e-01	< 54.80	<5.52e1	n/a	n/a	96.60	54.80	n/a
S96T001645		A	Silicon -ICP-Acid Digest	ug/g	155.8	1.220	1.45e+03	1.48e+03	1.46e+03	2.05	119.6	27.40	n/a
S96T001645		A	Samarium -ICP-Acid Digest	ug/g	98.00	<1.00e-01	< 54.80	<5.52e1	n/a	n/a	102.0	54.80	n/a
S96T001645		A	Strontium -ICP-Acid Digest	ug/g	96.60	<1.00e-02	3.68e+02	375.0	371.5	1.88	104.0	5.480	n/a
S96T001645		A	Titanium-ICP-Acid Digest	ug/g	90.20	<1.00e-02	42.30	42.80	42.55	1.18	94.94	5.480	n/a
S96T001645		A	Thallium -ICP-Acid Digest	ug/g	92.00	<2.00e-01	<1.10e+02	<1.10e2	n/a	n/a	93.60	110.0	n/a
S96T001645		A	Uranium -ICP-Acid Digest	ug/g	91.00	<5.00e-01	1.08e+04	1.11e+04	1.10e+04	2.74	141.5	274.0	n/a
S96T001645		A	Vanadium -ICP-Acid Digest	ug/g	96.20	<5.00e-02	< 27.40	<2.76e1	n/a	n/a	102.2	27.40	n/a
S96T001645		A	Zinc -ICP-Acid Digest	ug/g	94.40	2.00e-02	81.10	82.40	81.75	1.59	99.60	5.480	n/a
S96T001645		A	Zirconium -ICP-Acid Digest	ug/g	103.4	<1.00e-02	25.40	27.70	26.55	8.66	84.08	5.480	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001646		W	Fluoride-IC-Dionex 4000i/4500	ug/g	98.47	<1.30e-02	4.05e+03	4.15e+03	4.10e+03	2.44	100.2	55.90	n/a
S96T001646		W	Chloride-IC-Dionex 4000i/4500	ug/g	92.53	2.40e-02	1.23e+03	1.25e+03	1.24e+03	1.61	89.11	73.10	n/a
S96T001646		W	Nitrite-IC - Dionex 4000i/4500	ug/g	99.81	<1.07e-01	7.26e+03	7.58e+03	7.42e+03	4.31	101.7	460.1	n/a
S96T001646		W	Bromide by Ion Chromatograph	ug/g	97.39	<1.26e-01	<5.42e+02	<5.20e2	n/a	n/a	94.96	541.8	n/a
S96T001646		W	Nitrate by IC-Dionex4000i/4500	ug/g	95.60	<1.40e-01	1.73e+05	1.81e+05	1.77e+05	4.52	103.9	601.6	n/a
S96T001646		W	Phosphate-IC-Dionex 4000i/4500	ug/g	99.08	<1.19e-01	2.70e+04	2.80e+04	2.75e+04	3.64	101.1	511.4	n/a
S96T001646		W	Sulfate by IC-Dionex4000i/4500	ug/g	98.26	<1.36e-01	1.33e+04	1.40e+04	1.37e+04	5.13	99.21	584.4	n/a
S96T001646		W	Oxalate by IC - Dionex 4000i	ug/g	99.41	<1.05e-01	<4.52e+02	<4.34e2	n/a	n/a	98.62	451.5	n/a
S96T001647		F	Uranium by Phosphorescence	ug/g	82.47	18.60	1.10e+04	1.09e+04	1.10e+04	0.91	70.30	1.900	3.09E+00
S96T001647		F	Strontium-89/90 High Level	uCi/g	98.37	2.90e-02	80.50	80.70	80.60	0.25	n/a	2.20e-02	5.20E-01
S96T001647		F	Cobalt-60 by GEA	uCi/g	100.8	<1.52e-02	<1.43e-02	<1.51e-2	n/a	n/a	n/a	1.40e-02	n/a
S96T001647		F	Niobium-94 by GEA	uCi/g	n/a	<1.48e-02	<1.41e-02	<1.50e-2	n/a	n/a	n/a	1.40e-02	n/a
S96T001647		F	Ru/Rh-106 by GEA	uCi/g	n/a	<2.46e-01	<4.93e-01	<4.98e-1	n/a	n/a	n/a	4.94e-01	n/a
S96T001647		F	Cesium-134 by GEA	uCi/g	n/a	<1.26e-02	<2.53e-02	<2.57e-2	n/a	n/a	n/a	2.50e-02	n/a
S96T001647		F	Cesium-137 by GEA	uCi/g	101.1	<2.56e-02	22.40	22.70	22.55	1.33	n/a	n/a	0.730
S96T001647		F	Ce/Pr-144 by GEA	uCi/g	n/a	<1.21e-01	<3.29e-01	<3.33e-1	n/a	n/a	n/a	3.29e-01	n/a
S96T001647		F	Europium-154 by GEA	uCi/g	n/a	<4.09e-02	<4.21e-02	<4.70e-2	n/a	n/a	n/a	4.20e-02	n/a
S96T001647		F	Europium-155 by GEA	uCi/g	n/a	<3.35e-02	<9.33e-02	<9.29e-2	n/a	n/a	n/a	9.30e-02	n/a
S96T001647		F	Radium-226 by GEA	uCi/g	n/a	<2.30e-01	<6.43e-01	<6.42e-1	n/a	n/a	n/a	6.43e-01	n/a
S96T001647		F	Beta of Solid Sample	uCi/g	109.9	1.64e-01	1.62e+02	167.0	164.5	3.04	92.19	5.80e-02	4.18E-01
S96T001647		F	Alpha of Digested Solid	uCi/g	116.4	<3.41e-03	3.63e-02	3.65e-02	3.64e-02	0.55	81.62	7.00e-03	2.64E+01
S96T001648		I	Silver -ICP-H2O Dig/Acid	ug/g	99.60	<1.00e-02	6.800	6.980	6.890	2.61	90.20	2.100	n/a
S96T001648		I	Aluminium -ICP-H2O Dig/Acid	ug/g	98.60	1.97e-01	1.55e+02	164.0	159.5	5.64	98.50	10.50	n/a
S96T001648		I	Arsenic -ICP-H2O Dig/Acid	ug/g	103.4	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	106.4	21.00	n/a
S96T001648		I	Boron -ICP-H2O Dig/Acid	ug/g	101.0	3.410	7.22e+02	856.0	789.0	17.0	101.9	10.50	n/a
S96T001648		I	Barium -ICP-H2O Dig/Acid	ug/g	102.6	<5.00e-02	< 10.50	<1.01e1	n/a	n/a	101.6	10.50	n/a
S96T001648		I	Beryllium -ICP-H2O Dig/Acid	ug/g	104.2	<5.00e-03	< 1.050	<1.01e0	n/a	n/a	104.0	1.050	n/a
S96T001648		I	Bismuth -ICP-H2O Dig/Acid	ug/g	103.4	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	106.4	21.00	n/a
S96T001648		I	Calcium -ICP-H2O Dig/Acid	ug/g	102.4	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	112.0	21.00	n/a
S96T001648		I	Cadmium -ICP-H2O Dig/Acid	ug/g	101.2	<5.00e-03	< 1.050	<1.01e0	n/a	n/a	102.4	1.050	n/a
S96T001648		I	Cerium -ICP-H2O Dig/Acid	ug/g	105.2	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	104.8	21.00	n/a
S96T001648		I	Cobalt -ICP-H2O Dig/Acid	ug/g	102.0	<2.00e-02	< 4.210	<4.04e0	n/a	n/a	102.4	4.210	n/a
S96T001648		I	Chromium -ICP-H2O Dig/Acid	ug/g	102.4	<1.00e-02	29.60	30.30	29.95	2.34	103.1	2.100	n/a
S96T001648		I	Copper -ICP-H2O Dig/Acid	ug/g	105.2	<1.00e-02	< 2.100	<2.02e0	n/a	n/a	105.6	2.100	n/a
S96T001648		I	Iron -ICP-H2O Dig/Acid	ug/g	102.2	<5.00e-02	1.11e+02	113.0	112.0	1.79	101.7	10.50	n/a
S96T001648		I	Potassium -ICP-H2O Dig/Acid	ug/g	97.60	<5.00e-01	1.85e+02	216.0	200.5	15.5	122.4	105.0	n/a
S96T001648		I	Lanthanum -ICP-H2O Dig/Acid	ug/g	103.4	<5.00e-02	< 10.50	<1.01e1	n/a	n/a	103.2	10.50	n/a
S96T001648		I	Lithium -ICP-H2O Dig/Acid	ug/g	101.6	<1.00e-02	12.90	13.40	13.15	3.80	101.5	2.100	n/a
S96T001648		I	Magnesium -ICP-H2O Dig/Acid	ug/g	98.00	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	103.2	21.00	n/a
S96T001648		I	Manganese -ICP-H2O Dig/Acid	ug/g	99.60	<1.00e-02	< 2.100	<2.02e0	n/a	n/a	98.40	2.100	n/a
S96T001648		I	Molybdenum -ICP-H2O Dig/Acid	ug/g	102.2	<5.00e-02	< 10.50	<1.01e1	n/a	n/a	103.2	10.50	n/a
S96T001648		I	Sodium -ICP-H2O Dig/Acid	ug/g	100.6	4.590	9.63e+04	9.99e+04	9.81e+04	3.67	n/a	21.00	n/a
S96T001648		I	Neodymium -ICP-H2O Dig/Acid	ug/g	104.8	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	104.8	21.00	n/a
S96T001648		I	Nickel -ICP-H2O Dig/Acid	ug/g	100.8	<2.00e-02	< 4.210	<4.04e0	n/a	n/a	101.6	4.210	n/a
S96T001648		I	Phosphorus -ICP-H2O Dig/Acid	ug/g	103.2	<2.00e-01	9.55e+03	9.95e+03	9.75e+03	4.10	n/a	42.10	n/a
S96T001648		I	Lead -ICP-H2O Dig/Acid	ug/g	100.8	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	104.0	21.00	n/a
S96T001648		I	Sulfur -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-01	5.50e+03	5.68e+03	5.59e+03	3.22	36.50	21.00	n/a
S96T001648		I	Antimony -ICP-H2O Dig/Acid	ug/g	97.00	<6.00e-02	< 12.60	<1.21e1	n/a	n/a	98.40	12.60	n/a
S96T001648		I	Selenium -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	99.20	21.00	n/a
S96T001648		I	Silicon -ICP-H2O Dig/Acid	ug/g	99.80	1.150	2.57e+03	2.83e+03	2.70e+03	9.63	96.70	10.50	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001648		I	Samarium -ICP-H2O Dig/Acid	ug/g	100.8	<1.00e-01	< 21.00	<2.02e1	n/a	n/a	100.0	21.00	n/a
S96T001648		I	Strontium -ICP-H2O Dig/Acid	ug/g	101.6	<1.00e-02	2.210	2.220	2.215	0.45	101.5	2.100	n/a
S96T001648		I	Titanium-ICP-H2O Dig/Acid	ug/g	99.40	<1.00e-02	< 2.100	<2.02e0	n/a	n/a	102.4	2.100	n/a
S96T001648		I	Thallium -ICP-H2O Dig/Acid	ug/g	97.80	<2.00e-01	< 42.10	<4.04e1	n/a	n/a	96.80	42.10	n/a
S96T001648		I	Uranium -ICP-H2O Dig/Acid	ug/g	99.80	<5.00e-01	<1.05e+02	<1.01e2	n/a	n/a	100.0	105.0	n/a
S96T001648		I	Vanadium -ICP-H2O Dig/Acid	ug/g	102.4	<5.00e-02	< 10.50	<1.01e1	n/a	n/a	102.4	10.50	n/a
S96T001648		I	Zinc -ICP-H2O Dig/Acid	ug/g	101.0	<1.00e-02	5.980	6.180	6.080	3.29	104.2	2.100	n/a
S96T001648		I	Zirconium -ICP-H2O Dig/Acid	ug/g	101.2	<1.00e-02	2.740	2.740	2.740	0.00	101.4	2.100	n/a

27

WHC-SD-WM-DP-140, REV. 1

Table 1. Tank B-106 Analytical Summary - Cores 93 and 94.
B-106

CORE NUMBER: 94
SEGMENT #: n/a

SEGMENT PORTION: Hydrostatic Head Fluid

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001286		D	Lithium-ICP-Acid Dil.	ug/mL	98.48	1.00e-03	1.94e+03	1.93e+03	1.93e+03	0.28	n/a	1.010	n/a

Table 1. Tank B-106 Analytical Summary - Cores 93 and 94.
B-106

CORE NUMBER: 94
SEGMENT #: 1

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001301			Bulk Density of Sample	g/mL	n/a	n/a	1.330	n/a	n/a	n/a	n/a	5.00e-01	n/a
S95T001302			DSC Exotherm using Mettler	Joules/g	98.77	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001302			% Water by TGA using Mettler	%	100.3	n/a	62.36	62.34	62.35	0.03	n/a	n/a	n/a
S95T001303	F		Uranium by Phosphorescence	ug/g	109.7	7.340	7.38e+03	9.06e+03	8.22e+03	20.4	n/a	1.85e-01	3.66E+00
S95T001303	F		Strontium-89/90 High Level	uCi/g	91.87	5.10e-02	1.06e+02	108.0	107.0	1.87	n/a	1.40e-02	4.52E-01
S95T001303	F		Lithium -ICP-Fusion	ug/g	99.87	9.00e-03	< 49.87	<48.9910	n/a	n/a	88.82	49.90	n/a
S95T001303	F		Cobalt-60 by GEA	uCi/g	98.05	<1.97e-02	<6.19e-02	<6.29e-2	n/a	n/a	n/a	6.20e-02	n/a
S95T001303	F		Niobium-94 by GEA	uCi/g	n/a	<2.14e-02	<4.52e-02	<4.47e-2	n/a	n/a	n/a	4.50e-02	n/a
S95T001303	F		Ru/Rh-106 by GEA	uCi/g	n/a	<4.40e-01	< 1.299	<1.23e0	n/a	n/a	n/a	1.299	n/a
S95T001303	F		Cesium-134 by GEA	uCi/g	n/a	<2.42e-02	<5.12e-02	<6.19e-2	n/a	n/a	n/a	5.10e-02	n/a
S95T001303	F		Cesium-137 by GEA	uCi/g	97.42	<6.74e-02	10.37	10.10	10.23	2.93	n/a	n/a	3.06
S95T001303	F		Ce/Pr-144 by GEA	uCi/g	n/a	<2.28e-01	<8.66e-01	<8.60e-1	n/a	n/a	n/a	8.66e-01	n/a
S95T001303	F		Europium-154 by GEA	uCi/g	n/a	<8.37e-02	<1.54e-01	<1.64e-1	n/a	n/a	n/a	1.54e-01	n/a
S95T001303	F		Europium-155 by GEA	uCi/g	n/a	<6.31e-02	<2.57e-01	<2.61e-1	n/a	n/a	n/a	2.57e-01	n/a
S95T001303	F		Radium-226 by GEA	uCi/g	n/a	<3.97e-01	< 1.586	<1.59e0	n/a	n/a	n/a	1.586	n/a
S95T001303	F		Beta of Solid Sample	uCi/g	107.7	8.10e-02	2.19e+02	222.0	220.5	1.36	n/a	2.00e-02	3.06E-01
S95T001303	F		Alpha of Digested Solid	uCi/g	95.34	<3.61e-02	<3.80e-02	<3.73e-2	n/a	n/a	n/a	8.50e-02	438.3
S96T001236			TIC by Acid/Coulometry	ug/g	101.8	1.300	3.38e+02	343.0	340.5	1.47	n/a	5.000	n/a
S96T001236			TOC by Persulfate/Coulometry	ug/g	98.03	8.300	7.70e+02	644.0	707.0	17.8	n/a	40.00	n/a
S96T001240		A	Silver -ICP-Acid Digest	ug/g	95.80	<1.00e-02	< 4.620	<4.72e0	n/a	n/a	95.40	4.620	n/a
S96T001240		A	Aluminium -ICP-Acid Digest	ug/g	101.8	1.35e-01	1.74e+03	1.70e+03	1.72e+03	2.33	83.12	23.10	n/a
S96T001240		A	Arsenic -ICP-Acid Digest	ug/g	100.2	<1.00e-01	< 46.20	<4.72e1	n/a	n/a	100.6	46.20	n/a
S96T001240		A	Boron -ICP-Acid Digest	ug/g	115.6	5.57e-01	1.94e+02	200.0	197.0	3.05	98.60	23.10	n/a
S96T001240		A	Barium -ICP-Acid Digest	ug/g	100.0	<5.00e-02	39.50	38.80	39.15	1.79	99.32	23.10	n/a
S96T001240		A	Beryllium -ICP-Acid Digest	ug/g	109.4	<5.00e-03	< 2.310	<2.36e0	n/a	n/a	102.8	2.310	n/a
S96T001240		A	Bismuth -ICP-Acid Digest	ug/g	97.20	<1.00e-01	3.40e+02	330.0	335.0	2.99	93.42	46.20	n/a
S96T001240		A	Calcium -ICP-Acid Digest	ug/g	100.2	4.24e-01	3.44e+03	3.36e+03	3.40e+03	2.35	75.96	46.20	n/a
S96T001240		A	Cadmium -ICP-Acid Digest	ug/g	98.40	<5.00e-03	< 2.310	<2.36e0	n/a	n/a	96.80	2.310	n/a
S96T001240		A	Cerium -ICP-Acid Digest	ug/g	104.0	<1.00e-01	< 46.20	<4.72e1	n/a	n/a	106.4	46.20	n/a
S96T001240		A	Cobalt -ICP-Acid Digest	ug/g	100.6	<2.00e-02	< 9.240	<9.44e0	n/a	n/a	99.60	9.230	n/a
S96T001240		A	Chromium -ICP-Acid Digest	ug/g	98.80	<1.00e-02	1.71e+02	166.0	168.5	2.97	96.10	4.620	n/a
S96T001240		A	Copper -ICP-Acid Digest	ug/g	96.60	<1.00e-02	24.60	24.90	24.75	1.21	96.34	4.620	n/a
S96T001240		A	Iron -ICP-Acid Digest	ug/g	102.0	6.40e-02	1.63e+04	1.55e+04	1.59e+04	5.03	n/a	23.10	n/a
S96T001240		A	Potassium -ICP-Acid Digest	ug/g	104.6	<5.00e-01	2.73e+02	<2.36e2	n/a	n/a	97.22	231.0	n/a
S96T001240		A	Lanthanum -ICP-Acid Digest	ug/g	102.2	<5.00e-02	< 23.10	<2.36e1	n/a	n/a	102.4	23.10	n/a
S96T001240		A	Lithium -ICP-Acid Digest	ug/g	99.20	<1.00e-02	< 4.620	<4.72e0	n/a	n/a	97.80	4.620	n/a
S96T001240		A	Magnesium -ICP-Acid Digest	ug/g	94.40	<1.00e-01	8.24e+02	789.0	806.5	4.34	84.72	46.20	n/a
S96T001240		A	Manganese -ICP-Acid Digest	ug/g	99.40	<1.00e-02	1.66e+02	157.0	161.5	5.57	96.24	4.620	n/a
S96T001240		A	Molybdenum -ICP-Acid Digest	ug/g	97.40	<5.00e-02	< 23.10	<2.36e1	n/a	n/a	97.80	23.10	n/a
S96T001240		A	Sodium -ICP-Acid Digest	ug/g	121.0	7.85e-01	9.33e+04	9.24e+04	9.28e+04	0.97	n/a	46.20	n/a
S96T001240		A	Neodymium -ICP-Acid Digest	ug/g	105.2	<1.00e-01	< 46.20	<4.72e1	n/a	n/a	107.2	46.20	n/a
S96T001240		A	Nickel -ICP-Acid Digest	ug/g	101.2	<2.00e-02	43.10	41.50	42.30	3.78	99.32	9.230	n/a
S96T001240		A	Phosphorus -ICP-Acid Digest	ug/g	107.8	<2.00e-01	2.24e+04	2.21e+04	2.22e+04	1.35	n/a	92.40	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001240		A	Lead -ICP-Acid Digest	ug/g	97.60	<1.00e-01	3.39e+02	333.0	336.0	1.79	96.12	46.20	n/a
S96T001240		A	Sulfur -ICP-Acid Digest	ug/g	99.40	1.16e-01	4.87e+03	4.81e+03	4.84e+03	1.24	68.80	46.20	n/a
S96T001240		A	Antimony -ICP-Acid Digest	ug/g	99.80	<6.00e-02	< 27.70	<2.83e1	n/a	n/a	98.80	27.70	n/a
S96T001240		A	Selenium -ICP-Acid Digest	ug/g	100.2	<1.00e-01	< 46.20	<4.72e1	n/a	n/a	99.40	46.20	n/a
S96T001240		A	Silicon -ICP-Acid Digest	ug/g	176.6	1.250	5.07e+02	601.0	554.0	17.0	171.1	23.10	n/a
S96T001240		A	Samarium -ICP-Acid Digest	ug/g	101.0	<1.00e-01	< 46.20	<4.72e1	n/a	n/a	99.60	46.20	n/a
S96T001240		A	Strontium -ICP-Acid Digest	ug/g	99.60	<1.00e-02	3.84e+02	376.0	380.0	2.11	96.20	4.620	n/a
S96T001240		A	Titanium-ICP-Acid Digest	ug/g	91.80	<1.00e-02	90.40	87.10	88.75	3.72	91.42	4.620	n/a
S96T001240		A	Thallium -ICP-Acid Digest	ug/g	95.20	<2.00e-01	< 92.40	<9.44e1	n/a	n/a	94.20	92.40	n/a
S96T001240		A	Uranium -ICP-Acid Digest	ug/g	96.30	<5.00e-01	8.44e+03	8.20e+03	8.32e+03	2.88	55.27	231.0	n/a
S96T001240		A	Vanadium -ICP-Acid Digest	ug/g	98.80	<5.00e-02	< 23.10	<2.36e1	n/a	n/a	98.20	23.10	n/a
S96T001240		A	Zinc -ICP-Acid Digest	ug/g	95.80	1.40e-02	87.00	84.00	85.50	3.51	94.98	4.620	n/a
S96T001240		A	Zirconium -ICP-Acid Digest	ug/g	105.6	<1.00e-02	< 4.620	<4.72e0	n/a	n/a	45.80	4.620	n/a
S96T001247		W	Fluoride-IC-Dionex 4000i/4500	ug/g	103.4	<1.30e-02	7.19e+02	710.0	714.6	1.26	n/a	102.1	n/a
S96T001247		W	Chloride-IC-Dionex 4000i/4500	ug/g	93.29	<1.70e-02	1.24e+03	1.27e+03	1.25e+03	2.39	n/a	133.5	n/a
S96T001247		W	Nitrite-IC - Dionex 4000i/4500	ug/g	98.91	<1.07e-01	7.27e+03	7.62e+03	7.45e+03	4.70	n/a	840.5	n/a
S96T001247		W	Bromide by Ion Chromatograph	ug/g	101.0	<1.26e-01	<9.90e+02	<9.63e2	n/a	n/a	n/a	989.7	n/a
S96T001247		W	Nitrate by IC-Dionex4000i/4500	ug/g	100.7	1.81e-01	1.56e+05	1.76e+05	1.66e+05	12.0	n/a	1.10e+03	n/a
S96T001247		W	Phosphate-IC-Dionex 4000i/4500	ug/g	100.5	<1.19e-01	2.42e+04	2.78e+04	2.60e+04	13.8	n/a	934.0	n/a
S96T001247		W	Sulfate by IC-Dionex4000i/4500	ug/g	100.2	<1.36e-01	1.21e+04	1.33e+04	1.27e+04	9.45	n/a	1.07e+03	n/a
S96T001247		W	Oxalate by IC - Dionex 4000i	ug/g	102.9	<1.05e-01	<8.25e+02	<8.03e2	n/a	n/a	n/a	824.5	n/a
S96T001255		I	Silver -ICP-H20 Dig/Acid	ug/g	97.20	<1.00e-02	6.930	6.550	6.740	5.64	68.80	3.930	n/a
S96T001255		I	Aluminium -ICP-H20 Dig/Acid	ug/g	98.60	<5.00e-02	3.03e+02	343.0	323.0	12.4	96.90	19.70	n/a
S96T001255		I	Arsenic -ICP-H20 Dig/Acid	ug/g	102.8	<1.00e-01	< 39.30	<3.83e1	n/a	n/a	104.0	39.30	n/a
S96T001255		I	Boron -ICP-H20 Dig/Acid	ug/g	101.0	2.870	7.51e+02	581.0	666.0	25.5	98.00	19.70	n/a
S96T001255		I	Barium -ICP-H20 Dig/Acid	ug/g	101.6	<5.00e-02	< 19.70	<1.91e1	n/a	n/a	100.5	19.70	n/a
S96T001255		I	Beryllium -ICP-H20 Dig/Acid	ug/g	104.4	<5.00e-03	< 1.970	<1.91e0	n/a	n/a	104.0	1.970	n/a
S96T001255		I	Bismuth -ICP-H20 Dig/Acid	ug/g	102.2	<1.00e-01	< 39.30	<3.83e1	n/a	n/a	105.5	39.30	n/a
S96T001255		I	Calcium -ICP-H20 Dig/Acid	ug/g	99.00	<1.00e-01	< 39.30	69.40	n/a	n/a	109.5	39.30	n/a
S96T001255		I	Cadmium -ICP-H20 Dig/Acid	ug/g	97.20	<5.00e-03	< 1.970	<1.91e0	n/a	n/a	99.50	1.970	n/a
S96T001255		I	Cerium -ICP-H20 Dig/Acid	ug/g	103.8	<1.00e-01	< 39.30	<3.83e1	n/a	n/a	105.0	39.30	n/a
S96T001255		I	Cobalt -ICP-H20 Dig/Acid	ug/g	98.00	<2.00e-02	< 7.870	<7.66e0	n/a	n/a	100.0	7.870	n/a
S96T001255		I	Chromium -ICP-H20 Dig/Acid	ug/g	99.40	<1.00e-02	28.30	31.10	29.70	9.43	100.8	3.930	n/a
S96T001255		I	Copper -ICP-H20 Dig/Acid	ug/g	106.0	<1.00e-02	< 3.930	<3.83e0	n/a	n/a	106.0	3.930	n/a
S96T001255		I	Iron -ICP-H20 Dig/Acid	ug/g	100.6	<5.00e-02	1.77e+02	740.0	458.5	123	100.6	19.70	n/a
S96T001255		I	Potassium -ICP-H20 Dig/Acid	ug/g	96.40	<5.00e-01	2.70e+02	<1.91e2	n/a	n/a	99.90	197.0	n/a
S96T001255		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	102.4	<5.00e-02	< 19.70	<1.91e1	n/a	n/a	102.5	19.70	n/a
S96T001255		I	Lithium -ICP-H20 Dig/Acid	ug/g	104.2	<1.00e-02	< 3.930	<3.83e0	n/a	n/a	102.5	3.930	n/a
S96T001255		I	Magnesium -ICP-H20 Dig/Acid	ug/g	98.40	<1.00e-01	< 39.30	41.30	n/a	n/a	106.0	39.30	n/a
S96T001255		I	Manganese -ICP-H20 Dig/Acid	ug/g	96.40	<1.00e-02	< 3.930	7.190	n/a	n/a	96.00	3.930	n/a
S96T001255		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	99.00	<5.00e-02	< 19.70	<1.91e1	n/a	n/a	102.0	19.70	n/a
S96T001255		I	Sodium -ICP-H20 Dig/Acid	ug/g	101.0	3.930	9.00e+04	8.88e+04	8.94e+04	1.34	n/a	39.30	n/a
S96T001255		I	Neodymium -ICP-H20 Dig/Acid	ug/g	103.8	<1.00e-01	< 39.30	<3.83e1	n/a	n/a	104.0	39.30	n/a
S96T001255		I	Nickel -ICP-H20 Dig/Acid	ug/g	97.20	<2.00e-02	< 7.870	<7.66e0	n/a	n/a	98.50	7.870	n/a
S96T001255		I	Phosphorus -ICP-H20 Dig/Acid	ug/g	97.80	<2.00e-01	9.04e+03	9.32e+03	9.18e+03	3.05	40.60	78.70	n/a
S96T001255		I	Lead -ICP-H20 Dig/Acid	ug/g	96.20	<1.00e-01	< 39.30	<3.83e1	n/a	n/a	102.0	39.30	n/a
S96T001255		I	Sulfur -ICP-H20 Dig/Acid	ug/g	96.20	<1.00e-01	4.99e+03	4.85e+03	4.92e+03	2.85	66.20	39.30	n/a
S96T001255		I	Antimony -ICP-H20 Dig/Acid	ug/g	95.20	<6.00e-02	< 23.60	<2.30e1	n/a	n/a	97.50	23.60	n/a
S96T001255		I	Selenium -ICP-H20 Dig/Acid	ug/g	98.80	<1.00e-01	< 39.30	<3.83e1	n/a	n/a	103.5	39.30	n/a
S96T001255		I	Silicon -ICP-H20 Dig/Acid	ug/g	93.40	6.580	1.49e+03	1.24e+03	1.36e+03	18.3	100.6	19.70	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001255		I	Samarium -ICP-H20 Dig/Acid	ug/g	100.2	<1.00e-01	< 39.30	<3.83e1	n/a	n/a	97.50	39.30	n/a
S96T001255		I	Strontium -ICP-H20 Dig/Acid	ug/g	101.0	<1.00e-02	< 3.930	12.30	n/a	n/a	101.5	3.930	n/a
S96T001255		I	Titanium-ICP-H20 Dig/Acid	ug/g	98.60	<1.00e-02	< 3.930	<3.83e0	n/a	n/a	99.50	3.930	n/a
S96T001255		I	Thallium -ICP-H20 Dig/Acid	ug/g	97.00	<2.00e-01	< 78.70	<7.66e1	n/a	n/a	95.50	78.70	n/a
S96T001255		I	Uranium -ICP-H20 Dig/Acid	ug/g	99.20	<5.00e-01	<1.97e+02	<1.91e2	n/a	n/a	98.25	197.0	n/a
S96T001255		I	Vanadium -ICP-H20 Dig/Acid	ug/g	99.80	<5.00e-02	< 19.70	<1.91e1	n/a	n/a	100.5	19.70	n/a
S96T001255		I	Zinc -ICP-H20 Dig/Acid	ug/g	97.40	<1.00e-02	4.990	7.690	6.340	42.6	100.2	3.930	n/a
S96T001255		I	Zirconium -ICP-H20 Dig/Acid	ug/g	98.80	<1.00e-02	< 3.930	<3.83e0	n/a	n/a	99.00	3.930	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%
S95T001298			DSC Exotherm using Mettler	Joules/g	98.77	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001298			% Water by TGA using Mettler	%	103.3	n/a	65.05	63.13	64.09	3.00	n/a	n/a	n/a
S95T001299		F	Uranium by Phosphorescence	ug/g	109.7	7.340	2.05e+04	2.19e+04	2.12e+04	6.60	159.9	1.75e-01	3.30E+00
S95T001299		F	Strontium-89/90 High Level	uCi/g	91.87	5.10e-02	64.60	64.70	64.65	0.15	n/a	1.30e-02	5.66E-01
S95T001299		F	Lithium -ICP-Fusion	ug/g	99.87	9.00e-03	< 47.37	<46.7460	n/a	n/a	89.81	47.40	n/a
S95T001299		F	Cobalt-60 by GEA	uCi/g	98.05	<1.97e-02	<2.55e-02	<2.41e-2	n/a	n/a	n/a	2.50e-02	n/a
S95T001299		F	Niobium-94 by GEA	uCi/g	n/a	<2.14e-02	<2.41e-02	<2.36e-2	n/a	n/a	n/a	2.40e-02	n/a
S95T001299		F	Ru/Rh-106 by GEA	uCi/g	n/a	<4.40e-01	<7.13e-01	<6.25e-1	n/a	n/a	n/a	7.13e-01	n/a
S95T001299		F	Cesium-134 by GEA	uCi/g	n/a	<2.42e-02	<2.92e-02	<2.88e-2	n/a	n/a	n/a	2.90e-02	n/a
S95T001299		F	Cesium-137 by GEA	uCi/g	97.42	<6.74e-02	5.968	6.030	5.999	1.00	n/a	n/a	2.78
S95T001299		F	Ce/Pr-144 by GEA	uCi/g	n/a	<2.28e-01	<4.77e-01	<4.66e-1	n/a	n/a	n/a	4.77e-01	n/a
S95T001299		F	Europium-154 by GEA	uCi/g	n/a	<8.37e-02	<7.17e-02	<7.19e-2	n/a	n/a	n/a	7.20e-02	n/a
S95T001299		F	Europium-155 by GEA	uCi/g	n/a	<6.31e-02	<1.38e-01	<1.35e-1	n/a	n/a	n/a	1.38e-01	n/a
S95T001299		F	Radium-226 by GEA	uCi/g	n/a	<3.97e-01	<7.99e-01	<8.00e-1	n/a	n/a	n/a	8.00e-01	n/a
S95T001299		F	Beta of Solid Sample	uCi/g	107.7	8.10e-02	1.33e+02	136.0	134.5	2.23	102.6	1.30e-02	2.21E-01
S95T001299		F	Alpha of Digested Solid	uCi/g	95.34	<3.61e-02	<3.61e-02	<3.56e-2	n/a	n/a	n/a	8.10e-02	155
S95T001300			Bulk Density of Sample	g/mL	n/a	n/a	1.330	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T001237			TIC by Acid/Coulometry	ug/g	101.8	1.300	2.81e+02	286.0	283.5	1.76	101.0	5.000	n/a
S96T001237			TOC by Persulfate/Coulometry	ug/g	98.03	8.300	2.78e+02	299.0	288.5	7.28	100.0	40.00	n/a
S96T001241		A	Silver -ICP-Acid Digest	ug/g	95.80	<1.00e-02	< 4.780	<5.09e0	n/a	n/a	n/a	4.780	n/a
S96T001241		A	Aluminium -ICP-Acid Digest	ug/g	101.8	1.35e-01	4.39e+02	433.0	436.0	1.38	n/a	23.90	n/a
S96T001241		A	Arsenic -ICP-Acid Digest	ug/g	100.2	<1.00e-01	< 47.80	<5.09e1	n/a	n/a	n/a	47.80	n/a
S96T001241		A	Boron -ICP-Acid Digest	ug/g	115.6	5.57e-01	2.01e+02	173.0	187.0	15.0	n/a	23.90	n/a
S96T001241		A	Barium -ICP-Acid Digest	ug/g	100.0	<5.00e-02	31.00	30.20	30.60	2.61	n/a	23.90	n/a
S96T001241		A	Beryllium -ICP-Acid Digest	ug/g	109.4	<5.00e-03	< 2.390	<2.54e0	n/a	n/a	n/a	2.390	n/a
S96T001241		A	Bismuth -ICP-Acid Digest	ug/g	97.20	<1.00e-01	1.81e+02	185.0	183.0	2.19	n/a	47.80	n/a
S96T001241		A	Calcium -ICP-Acid Digest	ug/g	100.2	4.24e-01	6.88e+02	693.0	690.5	0.72	n/a	47.80	n/a
S96T001241		A	Cadmium -ICP-Acid Digest	ug/g	98.40	<5.00e-03	< 2.390	<2.54e0	n/a	n/a	n/a	2.390	n/a
S96T001241		A	Cerium -ICP-Acid Digest	ug/g	104.0	<1.00e-01	< 47.80	<5.09e1	n/a	n/a	n/a	47.80	n/a
S96T001241		A	Cobalt -ICP-Acid Digest	ug/g	100.6	<2.00e-02	< 9.560	<1.02e1	n/a	n/a	n/a	9.560	n/a
S96T001241		A	Chromium -ICP-Acid Digest	ug/g	98.80	<1.00e-02	97.90	97.20	97.55	0.72	n/a	4.780	n/a
S96T001241		A	Copper -ICP-Acid Digest	ug/g	96.60	<1.00e-02	17.70	19.80	18.75	11.2	n/a	4.780	n/a
S96T001241		A	Iron -ICP-Acid Digest	ug/g	102.0	6.40e-02	1.33e+04	1.32e+04	1.32e+04	0.75	n/a	23.90	n/a
S96T001241		A	Potassium -ICP-Acid Digest	ug/g	104.6	<5.00e-01	<2.39e+02	255.0	n/a	n/a	n/a	239.0	n/a
S96T001241		A	Lanthanum -ICP-Acid Digest	ug/g	102.2	<5.00e-02	< 23.90	<2.54e1	n/a	n/a	n/a	23.90	n/a
S96T001241		A	Lithium -ICP-Acid Digest	ug/g	99.20	<1.00e-02	8.870	8.300	8.585	6.64	n/a	4.780	n/a
S96T001241		A	Magnesium -ICP-Acid Digest	ug/g	94.40	<1.00e-01	1.85e+02	187.0	186.0	1.08	n/a	47.80	n/a
S96T001241		A	Manganese -ICP-Acid Digest	ug/g	99.40	<1.00e-02	59.90	60.60	60.25	1.16	n/a	4.780	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001241		A	Molybdenum -ICP-Acid Digest	ug/g	97.40	<5.00e-02	< 23.90	<2.54e1	n/a	n/a	n/a	23.90	n/a
S96T001241		A	Sodium -ICP-Acid Digest	ug/g	121.0	7.85e-01	9.10e+04	9.09e+04	9.10e+04	0.11	n/a	47.80	n/a
S96T001241		A	Neodymium -ICP-Acid Digest	ug/g	105.2	<1.00e-01	< 47.80	<5.09e1	n/a	n/a	n/a	47.80	n/a
S96T001241		A	Nickel -ICP-Acid Digest	ug/g	101.2	<2.00e-02	43.20	44.60	43.90	3.19	n/a	9.560	n/a
S96T001241		A	Phosphorus -ICP-Acid Digest	ug/g	107.8	<2.00e-01	1.69e+04	1.75e+04	1.72e+04	3.49	n/a	95.60	n/a
S96T001241		A	Lead -ICP-Acid Digest	ug/g	97.60	<1.00e-01	2.71e+02	281.0	276.0	3.62	n/a	47.80	n/a
S96T001241		A	Sulfur -ICP-Acid Digest	ug/g	99.40	1.16e-01	4.80e+03	4.96e+03	4.88e+03	3.28	n/a	47.80	n/a
S96T001241		A	Antimony -ICP-Acid Digest	ug/g	99.80	<6.00e-02	< 28.70	<3.05e1	n/a	n/a	n/a	28.70	n/a
S96T001241		A	Selenium -ICP-Acid Digest	ug/g	100.2	<1.00e-01	< 47.80	<5.09e1	n/a	n/a	n/a	47.80	n/a
S96T001241		A	Silicon -ICP-Acid Digest	ug/g	176.6	1.250	4.49e+02	397.0	423.0	12.3	n/a	23.90	n/a
S96T001241		A	Samarium -ICP-Acid Digest	ug/g	101.0	<1.00e-01	< 47.80	<5.09e1	n/a	n/a	n/a	47.80	n/a
S96T001241		A	Strontium -ICP-Acid Digest	ug/g	99.60	<1.00e-02	3.99e+02	393.0	396.0	1.52	n/a	4.780	n/a
S96T001241		A	Titanium-ICP-Acid Digest	ug/g	91.80	<1.00e-02	9.990	10.60	10.29	5.93	n/a	4.780	n/a
S96T001241		A	Thallium -ICP-Acid Digest	ug/g	95.20	<2.00e-01	< 95.60	<1.02e2	n/a	n/a	n/a	95.60	n/a
S96T001241		A	Uranium -ICP-Acid Digest	ug/g	96.30	<5.00e-01	1.71e+04	1.68e+04	1.70e+04	1.77	n/a	239.0	n/a
S96T001241		A	Vanadium -ICP-Acid Digest	ug/g	98.80	<5.00e-02	< 23.90	<2.54e1	n/a	n/a	n/a	23.90	n/a
S96T001241		A	Zinc -ICP-Acid Digest	ug/g	95.80	1.40e-02	69.30	73.80	71.55	6.29	n/a	4.780	n/a
S96T001241		A	Zirconium -ICP-Acid Digest	ug/g	105.6	<1.00e-02	< 4.780	<5.09e0	n/a	n/a	n/a	4.780	n/a
S96T001248		W	Fluoride-IC-Dionex 4000i/4500	ug/g	103.4	<1.30e-02	4.98e+02	494.0	496.1	0.81	n/a	110.7	n/a
S96T001248		W	Chloride-IC-Dionex 4000i/4500	ug/g	93.29	<1.70e-02	1.36e+03	1.24e+03	1.30e+03	9.23	n/a	144.7	n/a
S96T001248		W	Nitrite-IC - Dionex 4000i/4500	ug/g	98.91	<1.07e-01	8.53e+03	7.33e+03	7.93e+03	15.1	n/a	910.6	n/a
S96T001248		W	Bromide by Ion Chromatograph	ug/g	101.0	<1.26e-01	<1.07e+03	<1.08e3	n/a	n/a	n/a	1.07e+03	n/a
S96T001248		W	Nitrate by IC-Dionex4000i/4500	ug/g	100.7	1.81e-01	1.95e+05	1.80e+05	1.88e+05	8.00	n/a	1.19e+03	n/a
S96T001248		W	Phosphate-IC-Dionex 4000i/4500	ug/g	100.5	<1.19e-01	2.66e+04	2.52e+04	2.59e+04	5.41	n/a	1.01e+03	n/a
S96T001248		W	Sulfate by IC-Dionex4000i/4500	ug/g	100.2	<1.36e-01	1.54e+04	1.45e+04	1.49e+04	6.02	n/a	1.16e+03	n/a
S96T001248		W	Oxalate by IC - Dionex 4000i	ug/g	102.9	<1.05e-01	<8.94e+02	926.0	n/a	n/a	n/a	893.8	n/a
S96T001256		I	Silver -ICP-H20 Dig/Acid	ug/g	97.20	<1.00e-02	6.950	7.060	7.005	1.57	86.90	4.260	n/a
S96T001256		I	Aluminium -ICP-H20 Dig/Acid	ug/g	98.60	<5.00e-02	1.55e+02	174.0	164.5	11.6	98.20	21.30	n/a
S96T001256		I	Arsenic -ICP-H20 Dig/Acid	ug/g	102.8	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	105.0	42.60	n/a
S96T001256		I	Boron -ICP-H20 Dig/Acid	ug/g	101.0	2.870	7.90e+02	809.0	799.5	2.38	98.70	21.30	n/a
S96T001256		I	Barium -ICP-H20 Dig/Acid	ug/g	101.6	<5.00e-02	< 21.30	<2.15e1	n/a	n/a	99.50	21.30	n/a
S96T001256		I	Beryllium -ICP-H20 Dig/Acid	ug/g	104.4	<5.00e-03	< 2.130	<2.15e0	n/a	n/a	102.5	2.130	n/a
S96T001256		I	Bismuth -ICP-H20 Dig/Acid	ug/g	102.2	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	106.0	42.60	n/a
S96T001256		I	Calcium -ICP-H20 Dig/Acid	ug/g	99.00	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	104.5	42.60	n/a
S96T001256		I	Cadmium -ICP-H20 Dig/Acid	ug/g	97.20	<5.00e-03	< 2.130	<2.15e0	n/a	n/a	98.50	2.130	n/a
S96T001256		I	Cerium -ICP-H20 Dig/Acid	ug/g	103.8	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	103.5	42.60	n/a
S96T001256		I	Cobalt -ICP-H20 Dig/Acid	ug/g	98.00	<2.00e-02	< 8.520	<8.59e0	n/a	n/a	99.50	8.520	n/a
S96T001256		I	Chromium -ICP-H20 Dig/Acid	ug/g	99.40	<1.00e-02	27.60	27.50	27.55	0.36	100.0	4.260	n/a
S96T001256		I	Copper -ICP-H20 Dig/Acid	ug/g	106.0	<1.00e-02	< 4.260	<4.29e0	n/a	n/a	105.0	4.260	n/a
S96T001256		I	Iron -ICP-H20 Dig/Acid	ug/g	100.6	<5.00e-02	3.14e+02	174.0	244.0	57.4	99.80	21.30	n/a
S96T001256		I	Potassium -ICP-H20 Dig/Acid	ug/g	96.40	<5.00e-01	2.60e+02	228.0	244.0	13.1	81.00	213.0	n/a
S96T001256		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	102.4	<5.00e-02	< 21.30	<2.15e1	n/a	n/a	101.5	21.30	n/a
S96T001256		I	Lithium -ICP-H20 Dig/Acid	ug/g	104.2	<1.00e-02	6.970	7.080	7.025	1.57	101.4	4.260	n/a
S96T001256		I	Magnesium -ICP-H20 Dig/Acid	ug/g	98.40	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	100.0	42.60	n/a
S96T001256		I	Manganese -ICP-H20 Dig/Acid	ug/g	96.40	<1.00e-02	< 4.260	<4.29e0	n/a	n/a	95.50	4.260	n/a
S96T001256		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	99.00	<5.00e-02	< 21.30	<2.15e1	n/a	n/a	100.5	21.30	n/a
S96T001256		I	Sodium -ICP-H20 Dig/Acid	ug/g	101.0	3.930	8.84e+04	8.99e+04	8.92e+04	1.68	n/a	42.60	n/a
S96T001256		I	Neodymium -ICP-H20 Dig/Acid	ug/g	103.8	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	102.5	42.60	n/a
S96T001256		I	Nickel -ICP-H20 Dig/Acid	ug/g	97.20	<2.00e-02	< 8.520	<8.59e0	n/a	n/a	98.50	8.520	n/a
S96T001256		I	Phosphorus -ICP-H20 Dig/Acid	ug/g	97.80	<2.00e-01	7.93e+03	8.28e+03	8.10e+03	4.32	55.60	85.20	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001256		I	Lead -ICP-H2O Dig/Acid	ug/g	96.20	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	99.00	42.60	n/a
S96T001256		I	Sulfur -ICP-H2O Dig/Acid	ug/g	96.20	<1.00e-01	5.04e+03	5.05e+03	5.04e+03	0.20	77.40	42.60	n/a
S96T001256		I	Antimony -ICP-H2O Dig/Acid	ug/g	95.20	<6.00e-02	< 25.60	<2.58e1	n/a	n/a	96.50	25.60	n/a
S96T001256		I	Selenium -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	103.0	42.60	n/a
S96T001256		I	Silicon -ICP-H2O Dig/Acid	ug/g	93.40	6.580	1.33e+03	1.37e+03	1.35e+03	2.96	96.90	21.30	n/a
S96T001256		I	Samarium -ICP-H2O Dig/Acid	ug/g	100.2	<1.00e-01	< 42.60	<4.29e1	n/a	n/a	97.00	42.60	n/a
S96T001256		I	Strontium -ICP-H2O Dig/Acid	ug/g	101.0	<1.00e-02	< 4.260	<4.29e0	n/a	n/a	100.5	4.260	n/a
S96T001256		I	Titanium-ICP-H2O Dig/Acid	ug/g	98.60	<1.00e-02	< 4.260	<4.29e0	n/a	n/a	98.00	4.260	n/a
S96T001256		I	Thallium -ICP-H2O Dig/Acid	ug/g	97.00	<2.00e-01	< 85.20	<8.59e1	n/a	n/a	94.00	85.20	n/a
S96T001256		I	Uranium -ICP-H2O Dig/Acid	ug/g	99.20	<5.00e-01	<2.13e+02	<2.15e2	n/a	n/a	116.0	213.0	n/a
S96T001256		I	Vanadium -ICP-H2O Dig/Acid	ug/g	99.80	<5.00e-02	< 21.30	<2.15e1	n/a	n/a	100.0	21.30	n/a
S96T001256		I	Zinc -ICP-H2O Dig/Acid	ug/g	97.40	<1.00e-02	4.910	5.070	4.990	3.21	100.4	4.260	n/a
S96T001256		I	Zirconium -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-02	< 4.260	<4.29e0	n/a	n/a	98.50	4.260	n/a

Table 1. Tank B-106 Analytical Summary - Cores 93 and 94.
B-106

CORE NUMBER: 94
SEGMENT #: 2

SEGMENT PORTION: U Upper Half of Segment

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S95T001309			Bulk Density of Sample	g/mL	n/a	n/a	1.390	n/a	n/a	n/a	n/a	5.00e-01	n/a
S95T001310			DSC Exotherm using Mettler	Joules/g	95.96	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001310			% Water by TGA using Mettler	%	103.7	n/a	61.31	61.45	61.38	0.23	n/a	n/a	n/a
S95T001311	F		Uranium by Phosphorescence	ug/g	97.34	52.90	1.74e+04	1.62e+04	1.68e+04	7.14	n/a	1.63e-01	3.29E+00
S95T001311	F		Strontium-89/90 High Level	uCi/g	96.75	6.00e-03	59.00	58.00	58.50	1.71	n/a	2.00e-02	5.71E-01
S95T001311	F		Lithium -ICP-Fusion	ug/g	98.47	-1.00e-4	< 44.08	<43.8059	n/a	n/a	90.31	44.10	n/a
S95T001311	F		Cobalt-60 by GEA	uCi/g	99.61	<6.70e-03	<1.33e-02	<1.35e-2	n/a	n/a	n/a	1.30e-02	n/a
S95T001311	F		Niobium-94 by GEA	uCi/g	n/a	<7.68e-03	<1.52e-02	<1.39e-2	n/a	n/a	n/a	1.50e-02	n/a
S95T001311	F		Ru/Rh-106 by GEA	uCi/g	n/a	<1.19e-01	<6.09e-01	<5.92e-1	n/a	n/a	n/a	6.09e-01	n/a
S95T001311	F		Cesium-134 by GEA	uCi/g	n/a	<6.09e-03	<3.02e-02	<3.05e-2	n/a	n/a	n/a	3.00e-02	n/a
S95T001311	F		Cesium-137 by GEA	uCi/g	98.52	<1.19e-02	39.01	38.70	38.86	0.77	n/a	n/a	0.540
S95T001311	F		Ce/Pr-144 by GEA	uCi/g	n/a	<5.99e-02	<3.74e-01	<3.74e-1	n/a	n/a	n/a	3.74e-01	n/a
S95T001311	F		Europium-154 by GEA	uCi/g	n/a	<2.33e-02	<4.44e-02	<4.22e-2	n/a	n/a	n/a	4.40e-02	n/a
S95T001311	F		Europium-155 by GEA	uCi/g	n/a	<1.63e-02	<1.03e-01	<1.04e-1	n/a	n/a	n/a	1.03e-01	n/a
S95T001311	F		Radium-226 by GEA	uCi/g	n/a	<1.21e-01	<7.69e-01	<7.67e-1	n/a	n/a	n/a	7.69e-01	n/a
S95T001311	F		Beta of Solid Sample	uCi/g	104.4	1.40e-02	1.46e+02	151.0	148.5	3.37	n/a	1.60e-02	3.29E-01
S95T001311	F		Alpha of Digested Solid	uCi/g	87.10	<2.74e-03	<3.51e-02	<2.52e-2	n/a	n/a	n/a	5.80e-02	500.0
S96T003624			TIC by Acid/Coulometry	ug/g	101.2	6.00e-01	4.03e+02	298.0	350.5	30.0	89.40	5.000	n/a
S96T003624			TOC by Persulfate/Coulometry	ug/g	95.33	16.80	4.52e+02	275.0	363.5	48.7	64.30	40.00	n/a
S96T003625		A	Silver -ICP-Acid Digest	ug/g	98.70	<1.00e-02	8.790	13.30	11.04	40.8	98.70	3.340	n/a
S96T003625		A	Aluminium -ICP-Acid Digest	ug/g	98.80	<5.00e-02	1.23e+03	1.89e+03	1.56e+03	42.3	74.94	16.70	n/a
S96T003625		A	Arsenic -ICP-Acid Digest	ug/g	101.4	<1.00e-01	< 33.40	<3.60e1	n/a	n/a	102.2	33.40	n/a
S96T003625		A	Boron -ICP-Acid Digest	ug/g	110.2	1.28e-01	1.09e+02	172.0	140.5	44.8	101.4	16.70	n/a
S96T003625		A	Barium -ICP-Acid Digest	ug/g	100.2	<5.00e-02	45.70	72.10	58.90	44.8	98.34	16.70	n/a
S96T003625		A	Beryllium -ICP-Acid Digest	ug/g	104.4	<5.00e-03	< 1.670	<1.80e0	n/a	n/a	101.8	1.670	n/a
S96T003625		A	Bismuth -ICP-Acid Digest	ug/g	97.00	<1.00e-01	1.34e+03	2.10e+03	1.72e+03	44.2	77.76	33.40	n/a
S96T003625		A	Calcium -ICP-Acid Digest	ug/g	98.60	<1.00e-01	9.36e+02	1.45e+03	1.19e+03	43.1	82.06	33.40	n/a
S96T003625		A	Cadmium -ICP-Acid Digest	ug/g	96.80	<5.00e-03	< 1.670	<1.80e0	n/a	n/a	97.60	1.670	n/a
S96T003625		A	Cerium -ICP-Acid Digest	ug/g	104.4	<1.00e-01	< 33.40	<3.60e1	n/a	n/a	105.4	33.40	n/a
S96T003625		A	Cobalt -ICP-Acid Digest	ug/g	99.80	<2.00e-02	< 6.690	<7.19e0	n/a	n/a	100.4	6.690	n/a
S96T003625		A	Chromium -ICP-Acid Digest	ug/g	97.60	<1.00e-02	2.44e+02	374.0	309.0	42.1	93.26	3.340	n/a
S96T003625		A	Copper -ICP-Acid Digest	ug/g	99.20	<1.00e-02	12.90	17.40	15.15	29.7	97.46	3.340	n/a
S96T003625		A	Iron -ICP-Acid Digest	ug/g	98.20	<5.00e-02	2.03e+04	3.19e+04	2.61e+04	44.4	n/a	16.70	n/a
S96T003625		A	Potassium -ICP-Acid Digest	ug/g	98.20	<5.00e-01	2.31e+02	353.0	292.0	41.8	91.76	167.0	n/a
S96T003625		A	Lanthanum -ICP-Acid Digest	ug/g	101.4	<5.00e-02	< 16.70	<1.80e1	n/a	n/a	101.8	16.70	n/a
S96T003625		A	Lithium -ICP-Acid Digest	ug/g	101.6	<1.00e-02	27.10	44.20	35.65	48.0	100.2	3.340	n/a
S96T003625		A	Magnesium -ICP-Acid Digest	ug/g	93.60	<1.00e-01	1.84e+02	251.0	217.5	30.8	87.72	33.40	n/a
S96T003625		A	Manganese -ICP-Acid Digest	ug/g	95.60	<1.00e-02	79.10	125.0	102.0	45.0	93.74	3.340	n/a
S96T003625		A	Molybdenum -ICP-Acid Digest	ug/g	99.40	<5.00e-02	< 16.70	<1.80e1	n/a	n/a	100.8	16.70	n/a
S96T003625		A	Sodium -ICP-Acid Digest	ug/g	111.6	2.53e-01	1.04e+05	1.63e+05	1.34e+05	44.2	n/a	33.40	n/a
S96T003625		A	Neodymium -ICP-Acid Digest	ug/g	101.0	<1.00e-01	< 33.40	<3.60e1	n/a	n/a	101.2	33.40	n/a
S96T003625		A	Nickel -ICP-Acid Digest	ug/g	99.00	<2.00e-02	98.90	148.0	123.5	39.8	97.58	6.690	n/a
S96T003625		A	Phosphorus -ICP-Acid Digest	ug/g	95.20	<2.00e-01	2.28e+04	3.48e+04	2.88e+04	41.7	n/a	66.90	n/a

34

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T003625		A	Lead -ICP-Acid Digest	ug/g	93.60	<1.00e-01	4.03e+02	603.0	503.0	39.8	87.36	33.40	n/a
S96T003625		A	Sulfur -ICP-Acid Digest	ug/g	95.60	<1.00e-01	5.07e+03	7.90e+03	6.48e+03	43.6	11.24	33.40	n/a
S96T003625		A	Antimony -ICP-Acid Digest	ug/g	93.60	<6.00e-02	< 20.10	<2.16e1	n/a	n/a	96.80	20.10	n/a
S96T003625		A	Selenium -ICP-Acid Digest	ug/g	93.60	<1.00e-01	< 33.40	<3.60e1	n/a	n/a	94.00	33.40	n/a
S96T003625		A	Silicon -ICP-Acid Digest	ug/g	159.8	<5.00e-02	8.40e+02	1.33e+03	1.08e+03	45.2	159.5	16.70	n/a
S96T003625		A	Samarium -ICP-Acid Digest	ug/g	99.00	<1.00e-01	< 33.40	<3.60e1	n/a	n/a	98.00	33.40	n/a
S96T003625		A	Strontium -ICP-Acid Digest	ug/g	99.20	<1.00e-02	6.17e+02	970.0	793.5	44.5	88.40	3.340	n/a
S96T003625		A	Titanium-ICP-Acid Digest	ug/g	97.80	<1.00e-02	10.70	16.10	13.40	40.3	98.12	3.340	n/a
S96T003625		A	Thallium -ICP-Acid Digest	ug/g	93.00	<2.00e-01	< 66.90	<7.19e1	n/a	n/a	92.20	66.90	n/a
S96T003625		A	Uranium -ICP-Acid Digest	ug/g	97.40	<5.00e-01	2.17e+04	3.44e+04	2.80e+04	45.3	n/a	167.0	n/a
S96T003625		A	Vanadium -ICP-Acid Digest	ug/g	97.60	<5.00e-02	< 16.70	<1.80e1	n/a	n/a	98.00	16.70	n/a
S96T003625		A	Zinc -ICP-Acid Digest	ug/g	94.20	<1.00e-02	1.09e+02	168.0	138.5	42.6	94.58	3.340	n/a
S96T003625		A	Zirconium -ICP-Acid Digest	ug/g	98.40	<1.00e-02	12.20	18.30	15.25	40.0	99.14	3.340	n/a
S96T003626		W	Fluoride-IC-Dionex 4000i/4500	ug/g	108.0	<1.30e-02	2.76e+03	2.84e+03	2.80e+03	2.86	111.7	101.4	n/a
S96T003626		W	Chloride-IC-Dionex 4000i/4500	ug/g	107.8	<1.70e-02	1.45e+03	1.36e+03	1.41e+03	6.41	109.1	132.6	n/a
S96T003626		W	Nitrite-IC - Dionex 4000i/4500	ug/g	100.9	<1.07e-01	7.84e+03	7.41e+03	7.62e+03	5.64	106.3	834.8	n/a
S96T003626		W	Bromide by Ion Chromatograph	ug/g	103.7	<1.26e-01	<9.83e+02	<9.77e2	n/a	n/a	103.4	983.2	n/a
S96T003626		W	Nitrate by IC-Dionex4000i/4500	ug/g	103.7	<1.40e-01	1.96e+05	1.90e+05	1.93e+05	3.11	113.0	1.09e+03	n/a
S96T003626		W	Phosphate-IC-Dionex 4000i/4500	ug/g	104.2	<1.19e-01	3.16e+04	2.97e+04	3.06e+04	6.20	104.8	927.8	n/a
S96T003626		W	Sulfate by IC-Dionex4000i/4500	ug/g	105.9	<1.36e-01	1.48e+04	1.45e+04	1.46e+04	2.05	109.8	1.06e+03	n/a
S96T003626		W	Oxalate by IC - Dionex 4000i	ug/g	107.9	<1.05e-01	<8.19e+02	<8.15e2	n/a	n/a	105.7	819.2	n/a
S96T003627		I	Silver -ICP-H20 Dig/Acid	ug/g	98.80	<1.00e-02	7.140	6.570	6.855	8.32	93.60	3.910	n/a
S96T003627		I	Aluminium -ICP-H20 Dig/Acid	ug/g	97.80	<5.00e-02	3.77e+02	286.0	331.5	27.5	97.00	19.50	n/a
S96T003627		I	Arsenic -ICP-H20 Dig/Acid	ug/g	104.0	<1.00e-01	< 39.10	<3.89e1	n/a	n/a	108.5	39.10	n/a
S96T003627		I	Boron -ICP-H20 Dig/Acid	ug/g	99.40	<5.00e-02	5.66e+02	486.0	526.0	15.2	99.80	19.50	n/a
S96T003627		I	Barium -ICP-H20 Dig/Acid	ug/g	99.60	<5.00e-02	< 19.50	<1.94e1	n/a	n/a	100.0	19.50	n/a
S96T003627		I	Beryllium -ICP-H20 Dig/Acid	ug/g	105.6	<5.00e-03	< 1.950	<1.94e0	n/a	n/a	105.5	1.950	n/a
S96T003627		I	Bismuth -ICP-H20 Dig/Acid	ug/g	101.2	<1.00e-01	< 39.10	<3.89e1	n/a	n/a	109.5	39.10	n/a
S96T003627		I	Calcium -ICP-H20 Dig/Acid	ug/g	102.8	<1.00e-01	< 39.10	<3.89e1	n/a	n/a	114.5	39.10	n/a
S96T003627		I	Cadmium -ICP-H20 Dig/Acid	ug/g	99.80	<5.00e-03	< 1.950	<1.94e0	n/a	n/a	101.5	1.950	n/a
S96T003627		I	Cerium -ICP-H20 Dig/Acid	ug/g	102.4	<1.00e-01	< 39.10	<3.89e1	n/a	n/a	104.0	39.10	n/a
S96T003627		I	Cobalt -ICP-H20 Dig/Acid	ug/g	100.2	<2.00e-02	< 7.820	<7.77e0	n/a	n/a	101.5	7.820	n/a
S96T003627		I	Chromium -ICP-H20 Dig/Acid	ug/g	101.8	<1.00e-02	41.90	35.60	38.75	16.3	103.3	3.910	n/a
S96T003627		I	Copper -ICP-H20 Dig/Acid	ug/g	104.2	<1.00e-02	< 3.910	<3.89e0	n/a	n/a	105.0	3.910	n/a
S96T003627		I	Iron -ICP-H20 Dig/Acid	ug/g	102.0	<5.00e-02	1.14e+03	674.0	907.0	51.4	102.8	19.50	n/a
S96T003627		I	Potassium -ICP-H20 Dig/Acid	ug/g	96.60	<5.00e-01	2.91e+02	284.0	287.5	2.43	89.10	195.0	n/a
S96T003627		I	Lanthanum -ICP-H20 Dig/Acid	ug/g	101.0	<5.00e-02	< 19.50	<1.94e1	n/a	n/a	102.0	19.50	n/a
S96T003627		I	Lithium -ICP-H20 Dig/Acid	ug/g	99.20	<1.00e-02	23.50	22.70	23.10	3.46	99.50	3.910	n/a
S96T003627		I	Magnesium -ICP-H20 Dig/Acid	ug/g	97.80	<1.00e-01	< 39.10	<3.89e1	n/a	n/a	101.0	39.10	n/a
S96T003627		I	Manganese -ICP-H20 Dig/Acid	ug/g	98.00	<1.00e-02	4.110	<3.89e0	n/a	n/a	97.00	3.910	n/a
S96T003627		I	Molybdenum -ICP-H20 Dig/Acid	ug/g	100.8	<5.00e-02	< 19.50	<1.94e1	n/a	n/a	102.5	19.50	n/a
S96T003627		I	Sodium -ICP-H20 Dig/Acid	ug/g	97.80	<1.00e-01	9.36e+04	9.11e+04	9.24e+04	2.71	108.4	39.10	n/a
S96T003627		I	Neodymium -ICP-H20 Dig/Acid	ug/g	101.6	<1.00e-01	< 39.10	<3.89e1	n/a	n/a	102.5	39.10	n/a
S96T003627		I	Nickel -ICP-H20 Dig/Acid	ug/g	100.0	<2.00e-02	< 7.820	<7.77e0	n/a	n/a	102.0	7.820	n/a
S96T003627		I	Phosphorus -ICP-H20 Dig/Acid	ug/g	103.2	<2.00e-01	1.06e+04	9.74e+03	1.02e+04	8.46	98.50	78.20	n/a
S96T003627		I	Lead -ICP-H20 Dig/Acid	ug/g	99.60	<1.00e-01	< 39.10	<3.89e1	n/a	n/a	108.0	39.10	n/a
S96T003627		I	Sulfur -ICP-H20 Dig/Acid	ug/g	98.20	<1.00e-01	5.30e+03	5.20e+03	5.25e+03	1.90	93.40	39.10	n/a
S96T003627		I	Antimony -ICP-H20 Dig/Acid	ug/g	96.40	<6.00e-02	< 23.40	<2.33e1	n/a	n/a	98.50	23.40	n/a
S96T003627		I	Selenium -ICP-H20 Dig/Acid	ug/g	100.0	1.00e-01	< 39.10	<3.89e1	n/a	n/a	109.5	39.10	n/a
S96T003627		I	Silicon -ICP-H20 Dig/Acid	ug/g	97.00	<5.00e-02	1.48e+03	1.03e+03	1.26e+03	35.9	101.3	19.50	n/a

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T003627		I	Samarium -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-01	< 39.10	<3.89e1	n/a	n/a	99.00	39.10	n/a
S96T003627		I	Strontium -ICP-H2O Dig/Acid	ug/g	100.0	<1.00e-02	23.70	13.10	18.40	57.6	101.0	3.910	n/a
S96T003627		I	Titanium-ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-02	< 3.910	<3.89e0	n/a	n/a	100.5	3.910	n/a
S96T003627		I	Thallium -ICP-H2O Dig/Acid	ug/g	96.80	<2.00e-01	< 78.20	<7.77e1	n/a	n/a	100.0	78.20	n/a
S96T003627		I	Uranium -ICP-H2O Dig/Acid	ug/g	97.10	<5.00e-01	2.04e+02	<1.94e2	n/a	n/a	97.15	195.0	n/a
S96T003627		I	Vanadium -ICP-H2O Dig/Acid	ug/g	101.0	<5.00e-02	< 19.50	<1.94e1	n/a	n/a	102.0	19.50	n/a
S96T003627		I	Zinc -ICP-H2O Dig/Acid	ug/g	100.4	<1.00e-02	12.50	9.770	11.13	24.5	102.3	3.910	n/a
S96T003627		I	Zirconium -ICP-H2O Dig/Acid	ug/g	98.80	<1.00e-02	< 3.910	<3.89e0	n/a	n/a	100.5	3.910	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%
S95T001306			DSC Exotherm using Mettler	Joules/g	109.0	n/a	0.00e+00	0.00e+00	0.00e+00	n/a	n/a	n/a	n/a
S95T001306			% Water by TGA using Mettler	%	101.8	n/a	57.01	57.08	57.05	0.12	n/a	n/a	n/a
S95T001307		F	Uranium by Phosphorescence	ug/g	97.34	52.90	3.07e+03	3.31e+03	3.19e+03	7.52	105.1	1.78e-01	3.24E+00
S95T001307		F	Strontium-89/90 High Level	uCi/g	96.75	6.00e-03	5.050	4.730	4.890	6.54	n/a	4.00e-03	9.26E-01
S95T001307		F	Lithium -ICP-Fusion	ug/g	98.47	-1.00e-4	< 48.06	<49.4854	n/a	n/a	89.44	48.10	n/a
S95T001307		F	Cobalt-60 by GEA	uCi/g	99.61	<6.70e-03	<7.26e-03	<8.83e-3	n/a	n/a	n/a	7.00e-03	n/a
S95T001307		F	Niobium-94 by GEA	uCi/g	n/a	<7.68e-03	<6.27e-03	<7.34e-3	n/a	n/a	n/a	6.00e-03	n/a
S95T001307		F	Ru/Rh-106 by GEA	uCi/g	n/a	<1.19e-01	<2.61e-01	<2.56e-1	n/a	n/a	n/a	2.61e-01	n/a
S95T001307		F	Cesium-134 by GEA	uCi/g	n/a	<6.09e-03	<1.34e-02	<1.30e-2	n/a	n/a	n/a	1.30e-02	n/a
S95T001307		F	Cesium-137 by GEA	uCi/g	98.52	<1.19e-02	11.97	11.00	11.48	8.70	n/a	n/a	0.720
S95T001307		F	Ce/Pr-144 by GEA	uCi/g	n/a	<5.99e-02	<1.57e-01	<1.54e-1	n/a	n/a	n/a	1.57e-01	n/a
S95T001307		F	Europium-154 by GEA	uCi/g	n/a	<2.33e-02	<2.38e-02	<2.55e-2	n/a	n/a	n/a	2.40e-02	n/a
S95T001307		F	Europium-155 by GEA	uCi/g	n/a	<1.63e-02	<4.13e-02	<4.13e-2	n/a	n/a	n/a	4.10e-02	n/a
S95T001307		F	Radium-226 by GEA	uCi/g	n/a	<1.21e-01	<3.20e-01	<3.17e-1	n/a	n/a	n/a	3.20e-01	n/a
S95T001307		F	Beta of Solid Sample	uCi/g	104.4	1.40e-02	21.20	19.00	20.10	10.9	100.5	1.20e-02	5.18E-01
S95T001307		F	Alpha of Digested Solid	uCi/g	87.10	<2.74e-03	6.17e-02	6.13e-02	6.15e-02	0.65	n/a	6.00e-03	15.1
S95T001308			Bulk Density of Sample	g/mL	n/a	n/a	1.400	n/a	n/a	n/a	n/a	5.00e-01	n/a
S96T001239			TIC by Acid/Coulometry	ug/g	101.8	1.300	2.77e+02	272.0	274.5	1.82	n/a	5.000	n/a
S96T001239			TOC by Persulfate/Coulometry	ug/g	98.03	8.300	1.79e+02	152.0	165.5	16.3	n/a	40.00	n/a
S96T001243		A	Silver -ICP-Acid Digest	ug/g	95.80	<1.00e-02	1.39e+02	180.0	159.5	25.7	n/a	4.800	n/a
S96T001243		A	Aluminium -ICP-Acid Digest	ug/g	101.8	1.35e-01	1.84e+04	1.34e+04	1.59e+04	31.4	n/a	24.00	n/a
S96T001243		A	Arsenic -ICP-Acid Digest	ug/g	100.2	<1.00e-01	< 48.00	<4.98e1	n/a	n/a	n/a	48.00	n/a
S96T001243		A	Boron -ICP-Acid Digest	ug/g	115.6	5.57e-01	1.33e+03	729.0	1.03e+03	58.4	n/a	24.00	n/a
S96T001243		A	Barium -ICP-Acid Digest	ug/g	100.0	<5.00e-02	< 24.00	<2.49e1	n/a	n/a	n/a	24.00	n/a
S96T001243		A	Beryllium -ICP-Acid Digest	ug/g	109.4	<5.00e-03	< 2.400	<2.49e0	n/a	n/a	n/a	2.400	n/a
S96T001243		A	Bismuth -ICP-Acid Digest	ug/g	97.20	<1.00e-01	2.11e+04	1.87e+04	1.99e+04	12.1	n/a	48.00	n/a
S96T001243		A	Calcium -ICP-Acid Digest	ug/g	100.2	4.24e-01	3.36e+02	296.0	316.0	12.7	n/a	48.00	n/a
S96T001243		A	Cadmium -ICP-Acid Digest	ug/g	98.40	<5.00e-03	< 2.400	<2.49e0	n/a	n/a	n/a	2.400	n/a
S96T001243		A	Cerium -ICP-Acid Digest	ug/g	104.0	<1.00e-01	1.85e+02	165.0	175.0	11.4	n/a	48.00	n/a
S96T001243		A	Cobalt -ICP-Acid Digest	ug/g	100.6	<2.00e-02	< 9.600	<9.96e0	n/a	n/a	n/a	9.610	n/a
S96T001243		A	Chromium -ICP-Acid Digest	ug/g	98.80	<1.00e-02	8.90e+02	756.0	823.0	16.3	n/a	4.800	n/a
S96T001243		A	Copper -ICP-Acid Digest	ug/g	96.60	<1.00e-02	23.30	19.60	21.45	17.2	n/a	4.800	n/a
S96T001243		A	Iron -ICP-Acid Digest	ug/g	102.0	6.40e-02	9.41e+03	8.11e+03	8.76e+03	14.8	n/a	24.00	n/a
S96T001243		A	Potassium -ICP-Acid Digest	ug/g	104.6	<5.00e-01	<2.40e+02	<2.49e2	n/a	n/a	n/a	240.0	n/a
S96T001243		A	Lanthanum -ICP-Acid Digest	ug/g	102.2	<5.00e-02	< 24.00	<2.49e1	n/a	n/a	n/a	24.00	n/a
S96T001243		A	Lithium -ICP-Acid Digest	ug/g	99.20	<1.00e-02	31.20	27.60	29.40	12.2	n/a	4.800	n/a
S96T001243		A	Magnesium -ICP-Acid Digest	ug/g	94.40	<1.00e-01	2.39e+02	197.0	218.0	19.3	n/a	48.00	n/a
S96T001243		A	Manganese -ICP-Acid Digest	ug/g	99.40	<1.00e-02	34.50	28.10	31.30	20.4	n/a	4.800	n/a

36

WHC-SD-WM-DP-140, REV. 1

Sample# R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001243	A	Molybdenum -ICP-Acid Digest	ug/g	97.40	<5.00e-02	< 24.00	<2.49e1	n/a	n/a	n/a	24.00	n/a
S96T001243	A	Sodium -ICP-Acid Digest	ug/g	121.0	7.85e-01	1.26e+05	1.16e+05	1.21e+05	8.26	n/a	48.00	n/a
S96T001243	A	Neodymium -ICP-Acid Digest	ug/g	105.2	<1.00e-01	< 48.00	<4.98e1	n/a	n/a	n/a	48.00	n/a
S96T001243	A	Nickel -ICP-Acid Digest	ug/g	101.2	<2.00e-02	17.00	14.00	15.50	19.4	n/a	9.610	n/a
S96T001243	A	Phosphorus -ICP-Acid Digest	ug/g	107.8	<2.00e-01	2.24e+04	1.97e+04	2.10e+04	12.8	n/a	96.00	n/a
S96T001243	A	Lead -ICP-Acid Digest	ug/g	97.60	<1.00e-01	1.30e+02	124.0	127.0	4.72	n/a	48.00	n/a
S96T001243	A	Sulfur -ICP-Acid Digest	ug/g	99.40	1.16e-01	5.88e+03	5.74e+03	5.81e+03	2.41	n/a	48.00	n/a
S96T001243	A	Antimony -ICP-Acid Digest	ug/g	99.80	<6.00e-02	< 28.80	<2.99e1	n/a	n/a	n/a	28.80	n/a
S96T001243	A	Selenium -ICP-Acid Digest	ug/g	100.2	<1.00e-01	< 48.00	<4.98e1	n/a	n/a	n/a	48.00	n/a
S96T001243	A	Silicon -ICP-Acid Digest	ug/g	176.6	1.250	3.98e+03	7.11e+03	5.54e+03	56.4	n/a	24.00	n/a
S96T001243	A	Samarium -ICP-Acid Digest	ug/g	101.0	<1.00e-01	< 48.00	<4.98e1	n/a	n/a	n/a	48.00	n/a
S96T001243	A	Strontium -ICP-Acid Digest	ug/g	99.60	<1.00e-02	1.81e+02	149.0	165.0	19.4	n/a	4.800	n/a
S96T001243	A	Titanium-ICP-Acid Digest	ug/g	91.80	<1.00e-02	9.590	6.870	8.230	33.0	n/a	4.800	n/a
S96T001243	A	Thallium -ICP-Acid Digest	ug/g	95.20	<2.00e-01	< 96.00	<9.96e1	n/a	n/a	n/a	96.00	n/a
S96T001243	A	Uranium -ICP-Acid Digest	ug/g	96.30	<5.00e-01	6.44e+03	3.86e+03	5.15e+03	50.1	n/a	240.0	n/a
S96T001243	A	Vanadium -ICP-Acid Digest	ug/g	98.80	<5.00e-02	< 24.00	<2.49e1	n/a	n/a	n/a	24.00	n/a
S96T001243	A	Zinc -ICP-Acid Digest	ug/g	95.80	1.40e-02	1.26e+02	100.0	113.0	23.0	n/a	4.800	n/a
S96T001243	A	Zirconium -ICP-Acid Digest	ug/g	105.6	<1.00e-02	2.30e+02	213.0	221.5	7.67	n/a	4.800	n/a
S96T001250	W	Fluoride-IC-Dionex 4000i/4500	ug/g	93.05	<1.30e-02	1.23e+04	1.04e+04	1.13e+04	16.7	n/a	53.80	n/a
S96T001250	W	Chloride-IC-Dionex 4000i/4500	ug/g	94.81	<1.70e-02	1.04e+03	2.48e+03	1.76e+03	81.8	n/a	70.35	n/a
S96T001250	W	Nitrite-IC - Dionex 4000i/4500	ug/g	98.36	<1.07e-01	6.23e+03	6.59e+03	6.41e+03	5.62	n/a	442.9	n/a
S96T001250	W	Bromide by Ion Chromatograph	ug/g	96.52	<1.26e-01	6.63e+02	649.0	655.9	2.13	n/a	521.4	n/a
S96T001250	W	Nitrate by IC-Dionex4000i/4500	ug/g	100.8	1.69e-01	1.65e+05	1.70e+05	1.68e+05	2.99	n/a	579.0	n/a
S96T001250	W	Phosphate-IC-Dionex 4000i/4500	ug/g	99.82	<1.19e-01	1.45e+04	1.58e+04	1.52e+04	8.58	n/a	492.0	n/a
S96T001250	W	Sulfate by IC-Dionex4000i/4500	ug/g	98.57	<1.36e-01	1.39e+04	1.46e+04	1.43e+04	4.91	n/a	562.4	n/a
S96T001250	W	Oxalate by IC - Dionex 4000i	ug/g	100.2	<1.05e-01	<4.35e+02	<4.41e2	n/a	n/a	n/a	434.5	n/a
S96T001258	I	Silver -ICP-H20 Dig/Acid	ug/g	98.00	<1.00e-02	< 4.050	<4.10e0	n/a	n/a	87.50	4.050	n/a
S96T001258	I	Aluminium -ICP-H20 Dig/Acid	ug/g	96.80	1.45e-01	9.49e+02	433.0	691.0	74.7	95.40	20.20	n/a
S96T001258	I	Arsenic -ICP-H20 Dig/Acid	ug/g	101.0	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	103.0	40.50	n/a
S96T001258	I	Boron -ICP-H20 Dig/Acid	ug/g	102.2	2.510	1.07e+03	983.0	1.03e+03	8.48	104.0	20.20	n/a
S96T001258	I	Barium -ICP-H20 Dig/Acid	ug/g	96.60	<5.00e-02	< 20.20	<2.05e1	n/a	n/a	99.50	20.20	n/a
S96T001258	I	Beryllium -ICP-H20 Dig/Acid	ug/g	102.2	<5.00e-03	< 2.020	<2.05e0	n/a	n/a	103.5	2.020	n/a
S96T001258	I	Bismuth -ICP-H20 Dig/Acid	ug/g	98.20	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	100.5	40.50	n/a
S96T001258	I	Calcium -ICP-H20 Dig/Acid	ug/g	98.40	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	108.0	40.50	n/a
S96T001258	I	Cadmium -ICP-H20 Dig/Acid	ug/g	100.6	<5.00e-03	< 2.020	<2.05e0	n/a	n/a	102.5	2.020	n/a
S96T001258	I	Cerium -ICP-H20 Dig/Acid	ug/g	98.00	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	97.00	40.50	n/a
S96T001258	I	Cobalt -ICP-H20 Dig/Acid	ug/g	102.0	<2.00e-02	< 8.090	<8.21e0	n/a	n/a	104.5	8.090	n/a
S96T001258	I	Chromium -ICP-H20 Dig/Acid	ug/g	101.6	<1.00e-02	30.80	29.60	30.20	3.97	103.4	4.050	n/a
S96T001258	I	Copper -ICP-H20 Dig/Acid	ug/g	98.80	1.10e-02	< 4.050	<4.10e0	n/a	n/a	103.0	4.050	n/a
S96T001258	I	Iron -ICP-H20 Dig/Acid	ug/g	102.2	<5.00e-02	< 20.20	<2.05e1	n/a	n/a	109.0	20.20	n/a
S96T001258	I	Potassium -ICP-H20 Dig/Acid	ug/g	98.40	<5.00e-01	<2.02e+02	<2.05e2	n/a	n/a	128.5	202.0	n/a
S96T001258	I	Lanthanum -ICP-H20 Dig/Acid	ug/g	99.80	<5.00e-02	< 20.20	<2.05e1	n/a	n/a	103.5	20.20	n/a
S96T001258	I	Lithium -ICP-H20 Dig/Acid	ug/g	95.80	<1.00e-02	19.20	17.70	18.45	8.13	94.30	4.050	n/a
S96T001258	I	Magnesium -ICP-H20 Dig/Acid	ug/g	97.40	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	100.5	40.50	n/a
S96T001258	I	Manganese -ICP-H20 Dig/Acid	ug/g	100.6	<1.00e-02	< 4.050	<4.10e0	n/a	n/a	103.5	4.050	n/a
S96T001258	I	Molybdenum -ICP-H20 Dig/Acid	ug/g	101.0	<5.00e-02	< 20.20	<2.05e1	n/a	n/a	102.5	20.20	n/a
S96T001258	I	Sodium -ICP-H20 Dig/Acid	ug/g	95.20	2.700	8.83e+04	8.20e+04	8.52e+04	7.40	33.10	40.50	n/a
S96T001258	I	Neodymium -ICP-H20 Dig/Acid	ug/g	102.4	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	107.0	40.50	n/a
S96T001258	I	Nickel -ICP-H20 Dig/Acid	ug/g	100.6	<2.00e-02	< 8.090	<8.21e0	n/a	n/a	104.0	8.090	n/a
S96T001258	I	Phosphorus -ICP-H20 Dig/Acid	ug/g	102.2	<2.00e-01	5.47e+03	5.45e+03	5.46e+03	0.37	118.8	80.90	n/a

37

WHC-SD-WM-DP-140, REV. 1

Sample#	R	A#	Analyte	Unit	Standard %	Blank	Result	Duplicate	Average	RPD %	Spk Rec %	Det Limit	Count Err%
S96T001258		I	Lead -ICP-H2O Dig/Acid	ug/g	101.0	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	107.5	40.50	n/a
S96T001258		I	Sulfur -ICP-H2O Dig/Acid	ug/g	98.40	<1.00e-01	5.58e+03	5.18e+03	5.38e+03	7.43	79.90	40.50	n/a
S96T001258		I	Antimony -ICP-H2O Dig/Acid	ug/g	94.80	<6.00e-02	< 24.30	<2.46e1	n/a	n/a	104.0	24.30	n/a
S96T001258		I	Selenium -ICP-H2O Dig/Acid	ug/g	98.00	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	97.50	40.50	n/a
S96T001258		I	Silicon -ICP-H2O Dig/Acid	ug/g	94.40	1.000	5.41e+03	4.31e+03	4.86e+03	22.6	73.90	20.20	n/a
S96T001258		I	Samarium -ICP-H2O Dig/Acid	ug/g	96.60	<1.00e-01	< 40.50	<4.10e1	n/a	n/a	94.50	40.50	n/a
S96T001258		I	Strontium -ICP-H2O Dig/Acid	ug/g	96.80	<1.00e-02	< 4.050	<4.10e0	n/a	n/a	100.0	4.050	n/a
S96T001258		I	Titanium-ICP-H2O Dig/Acid	ug/g	97.40	<1.00e-02	< 4.050	<4.10e0	n/a	n/a	100.0	4.050	n/a
S96T001258		I	Thallium -ICP-H2O Dig/Acid	ug/g	96.00	<2.00e-01	< 80.90	<8.21e1	n/a	n/a	92.50	80.90	n/a
S96T001258		I	Uranium -ICP-H2O Dig/Acid	ug/g	88.60	<5.00e-01	<2.02e+02	<2.05e2	n/a	n/a	77.50	202.0	n/a
S96T001258		I	Vanadium -ICP-H2O Dig/Acid	ug/g	101.8	<5.00e-02	< 20.20	<2.05e1	n/a	n/a	104.0	20.20	n/a
S96T001258		I	Zinc -ICP-H2O Dig/Acid	ug/g	103.2	<1.00e-02	< 4.050	10.20	n/a	n/a	105.5	4.050	n/a
S96T001258		I	Zirconium -ICP-H2O Dig/Acid	ug/g	98.40	<1.00e-02	< 4.050	<4.10e0	n/a	n/a	102.5	4.050	n/a

ATTACHMENT 1

CHAIN OF CUSTODY FORMS

THIS PAGE WAS INTENTIONALLY LEFT BLANK

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number SP-95-028 (2) Sample Number 95-0110 (3) Supervisor R.F. Lind

(4) Tank B-106 (5) Riser 2 (6) Segment 1 (7) Core 93 (8) Cask Serial Number 21-G

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	1.0	1.0
Side Dose Rate	6	6
Bottom Dose Rate	1.7	1.7
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1000 (Beta-Gamma)	<1000 (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description

A. Work Package Number ES-95-00222/0

B. Cask Seal Number ~~21-G~~ 2761

C. Sampler Serial Number 95-159

D. Date and Time Sampler Unseated 7-14-95, ~~1443~~ 1218 PM

E. Expected Liquid Content 30%

F. Expected Solid Content 70%

G. Dose Rate Through Drill String 320 mr.

H. Expected Sample Length 19"

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

222S LABORATORY

43

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-106 riser #2	222S Lab.	M.C. Jones	7-17-95 7:00	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.C. Jones		Jubal D Helms Jubal Helms	7/17/95 1000	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
Jubal D Helms Jubal Helms		EE Dubes	7-17-95 1010	
(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	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 Goldenrod - Tank Farm Operations, S4-43

BC-6000-309 (02/94)

WHC-SD-WM-DP-140, REV. 1

07/17/95 13:22 509 373 1432 002

07/17/95 13:03 509 373 1432 003

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

(1) Shipment Number SP-95-029 ~~SP-95-030~~ 7-14-95 (2) Sample Number 95-0111 (3) Supervisor R. L. Frost

(4) Tank B-106 (5) Riser 2 (6) Segment 2 (7) Core 93 (8) Cask Serial Number C1050

Radiation Survey Data:

	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5	<.5
Side Dose Rate	2.5	3.5
Bottom Dose Rate	<.0	<.5
Smearable Contamination	<20 (Alpha)	<20 (Alpha)
	<1000 (Beta-Gamma)	<1000 (Beta-Gamma)
RCT* (HPT)	[signature] (Signature)	[signature] (Signature)

(10) Shipment Description

A. Work Package Number	ES-95-00222/0
B. Cask Seal Number	2762
C. Sampler Serial Number	95-163
D. Date and Time Sampler Unseated	7-14-95 1400 pm
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	150 MR
H. Expected Sample Length	19"

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

44

2) Field Comments

(34) Laboratory Comments

WHC-SD-WM-DP-140, REV. 1

3) Point of Origin: B-106, riser #2	(14) Destination: 222S Lab.	(15) Sender Name (Sign and PRINT): M.C. Jones [signature]	(16) Date/Time: 7-17-95 7:00	(17) Sender Comments
9) Relinquished By (Sign and PRINT): [signature] M.C. Jones		(20) Received By (Sign and PRINT): Jubal D Helms Jubal Helms	(21) Date/Time: 7/17/95/1000	(22) Receiver Comments
3) Relinquished By (Sign and PRINT): Jubal D Helms Jubal Helms		(24) Received By (Sign and PRINT): EE Dubes EE Dubes	(25) Date/Time: 7-17-95 1040	(26) Receiver Comments
7) 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?

Shipment No. ☒ Yes ☐ No

Cask Seal No. ☒ Yes ☐ No

Sample No. ☒ Yes ☐ No

TRIBUTION: 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 SP-95-029 (2) Sample Number BLANK (3) Supervisor M.C. JONES

(4) Tank B-106 (5) Riser 2 (6) Segment BLANK (7) Core 93 (8) Cask Serial Number 1004-C

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5	<.5
Side Dose Rate	<0.5	<.5
Bottom Dose Rate	<0.5	<.5
Smearable Contamination (Alpha)	<20	<20
(Beta-Gamma)	<1000	<1000
RCT* (HPT) (Signature)	[illegible]	[illegible]

(10) Shipment Description	
A. Work Package Number	ES-95-0222
B. Cask Seal Number	2383
C. Sampler Serial Number	95-161
D. Date and Time Sampler Unseated	7-14-95/22:00
E. Expected Liquid Content	100%
F. Expected Solid Content	0%
G. Dose Rate Through Drill String	<1.5
H. Expected Sample Length	19

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

45

(12) Field Comments

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-106	222-S	M.C. JONES [illegible]	7-17-95 7:10	
(18) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
[illegible] M.C. JONES		[illegible] Jubal Helms	7-17-95 1000	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
[illegible] Jubal Helms		E.E. Dubes	7-17-95 1010	
(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	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 Goldenrod - Tank Farm Operations, S4-43

WHC-SD-WM-DP-140, REV. 1

07/17/95 13:02 509 373 1432 001

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

COPY

hipment Number SP-95-030 (2) Sample Number 95-0112 (3) Supervisor M.c Jones

ank B-106 (5) Riser 7 (6) Segment 1 (7) Core 94 (8) Cask Serial Number C-1049

tion Survey Data:	(9) FIELD	(33) LABORATORY
er Top Dose Rate	<0.5 mR/HR	<.5
le Dose Rate	1.2 mR/HR	2.0
ttom Dose Rate	<0.5 mR/HR	<.5
easable Contamination	<20 dpm (Alpha)	<20 (Alpha)
	<1K dpm (Beta-Gamma)	<1000 (Beta-Gamma)
RCT* (HPT)	RK Buttose (Signature)	RCT* (HPT) LUSpiers (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-00222
B. Cask Seal Number	2356
C. Sampler Serial Number	94-307
D. Date and Time Sampler Unseated	7-18-95 - 11:14
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	50 MR
H. Expected Sample Length	19"

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

46

Field Comments

ead Fluid used.

(34) Laboratory Comments

WHC-SD-WM-DF-140, REV. 1

Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
3-106	222-S	M.c Jones M.c Jones	7-18-95 1250	
Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.c Jones M.c Jones		[signature]	7-18-95 11:26	
Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
[signature]		EE Dubes EE Dubes	1450 7-18-95	
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	Shipment No. ☑ Yes ☐ No	Cask Seal No. ☑ Yes ☐ No	Sample No. ☑ Yes ☐ No

TRIBUTION: 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 SP-95-030 (2) Sample Number 95-0113 (3) Supervisor M.C Jones

(4) Tank B-106 (5) Riser 7 (6) Segment 2 (7) Core 94 (8) Cask Serial Number SN-4-G

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5 mR/HR	<1 mR/hr
Side Dose Rate	6 mR/HR	6 mR/hr
Bottom Dose Rate	.5 mR HR	<1 mR/hr
Smearable Contamination	<20 dpm (Alpha)	<20 dpm (Alpha)
	<1K dpm (Beta-Gamma)	<1000 dpm (Beta-Gamma)
RCT* (HPT)	(Signature)	(Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-222
B. Cask Seal Number	2355
C. Sampler Serial Number	94-246
D. Date and Time Sampler Unseated	7-18-95 12:00
E. Expected Liquid Content	30%
F. Expected Solid Content	70%
G. Dose Rate Through Drill String	220 mR/HR
H. Expected Sample Length	17"

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

47

(12) Field Comments

Head Fluid used, HDB went off 17" into stroke.

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-106	222-S	M.C Jones	7-18-95 1155	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.C Jones			7-18-95 1422	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
		EEDubs	7-18-95 1850	
(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

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)

WHC-SD-WM-DP-140, REV 1

07/18/95 15:13 509 373 1432 003

COPY

CHAIN-OF-CUSTODY RECORD FOR CORE SAMPLING

Shipment Number SP-95-030 (2) Sample Number BLANK (3) Supervisor M.C. Jones

Tank B-106 (5) Riser 7 (6) Segment BLANK (7) Core 94 (8) Cask Serial Number BLANK

Radiation Survey Data:	(9) FIELD	(33) LABORATORY
Over Top Dose Rate	<0.5 mR/hr	<.5 mR/hr
Side Dose Rate	<0.5 mR/hr	<.5 mR/hr
Bottom Dose Rate	<0.5 mR/hr	<.5 mR/hr
Smearable Contamination	<20 dpm (Alpha)	<20 dpm (Alpha)
	<1K dpm (Beta-Gamma)	<1000 dpm (Beta-Gamma)
RCT* (HPT)	(Signature)	RCT* (HPT) (Signature)

(10) Shipment Description	
A. Work Package Number	ES-95-0222
B. Cask Seal Number	2399
C. Sampler Serial Number	N/A
D. Date and Time Sampler Unseated	7-18-95 11:00
E. Expected Liquid Content	100%
F. Expected Solid Content	0%
G. Dose Rate Through Drill String	>.5
H. Expected Sample Length	N/A

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

48

(12) Field Comments

Feed Fluid Blank

(34) Laboratory Comments

(13) Point of Origin	(14) Destination	(15) Sender Name (Sign and PRINT)	(16) Date/Time	(17) Sender Comments
B-106	222-S	M.C. Jones	7-18-95 1300	
(19) Relinquished By (Sign and PRINT)		(20) Received By (Sign and PRINT)	(21) Date/Time	(22) Receiver Comments
M.C. Jones			7-18-95 1400	
(23) Relinquished By (Sign and PRINT)		(24) Received By (Sign and PRINT)	(25) Date/Time	(26) Receiver Comments
			1430 7-18-95	
(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

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)

WHC-SD-WM-DP-140 REV. 1

27/18/95 15:12 509 372 1432 201

ATTACHMENT 2

EXTRUSION REPORTS

THIS PAGE WAS INTENTIONALLY LEFT BLANK

B106 Core 93 Segment # 1 Riser 2

Date: July 18, 1995
Sample number: 95-0110
Cask serial #: 21-G
Logbook #: **WHC-N-1178**
Labcore #: **S95T001264**

Notes:

* Hot Cell Temp 74.2 degrees F. Humidity 39 %.
* Check weights: 20 gms = 19.99 grams 500 gms = 499.84 grams
* Dose rate through the drill string was 320 mR/hr.
* Liner liquid: None observed.
* Sampler valve closed before and after cutting cables.
* Performed extrusion and photography.

Sample information:

* Extruded approx. 11 inches of solids. Sample was damp\wet, sludge,tended to melt (facies present). Sample was brown in color, lower half solids were slightly lighter than upper half of sample.

Subsample information:

* Subsampled **Liquid: Drainable Liquid**
  B-106 Core 93 Segment #1 Riser 2 :
  -Jar # 7366 (125 mls jar size)
  -84.2 grams net weight.

* Subsampled **Solids: Lower Half Segment**
  B-106 Core 93 Segment #1 Riser 2 :
  -Jar # 7355 (250 mls jar size)
  -166.0 grams net weight.

* Subsampled **Solids: Upper Half Segment**
  B-106 Core 93 Segment #1 Riser 2 :
  -Jar # 7356 (250 mls jar size)
  -121.6 grams net weight.

Notes: Collected 371.8 grams of solids and liquid.

B106 Core 93 Segment # 2 Riser 2

Date: July 19, 1995
Sample number: 95-0111
Cask serial #: C1050
Logbook #: WHC-N-1178
Labcore #: S95T001265

Notes:

* Hot Cell Temp 75.0 degrees F. Humidity 40 %.
* Check weights: 20 gms = 19.99 grams 500 gms = 499.84 grams
* Dose rate through the drill string was 150 mR/hr.
* Liner liquid: None observed.
* Sampler valve closed before and after cutting cables.
* Performed extrusion and photography.

Sample information:

* No drainable liquid observed or collected. Extruded approx. 19 inches of solids. Lower 5.5 inches of solids were a light green creamy sludge. Upper 13.5 inches of solids were brown sludge. Brown solids had the same texture as the lower 5.5 inches of solids. Distinct facie noted between upper and lower segments. Sub-sampled in half segments.

Subsample information:

* Subsampled **Solids: Lower Half Segment**
  B-106 Core 93 Segment #2 Riser 2 :
  -Jar # 7367 (125 mls jar size)
  -95.7 grams net weight.

* Subsampled **Solids: Upper Half Segment**
  B-106 Core 93 Segment #2 Riser 2 :
  -Jar # 7357 (250 mls jar size)
  -238.8 grams net weight.

Notes: Collected 334.5 grams of solids.

B106 Core 93 Field Blank Riser 2

Date: July 18, 1995
Sample number: Field Blank
Cask serial #: 1004C
Logbook #: WHC-N-1178
Labcore #: S95T001262

Notes:

* Hot Cell Temp 74.0 degrees F. Humidity 43 %.
* Check weights: 20 gms = 19.99 grams 500 gms = 499.85 grams
* Dose rate through the drill string was <.5 mR/hr.
* Liner liquid: None observed.
* Sampler valve closed before and after cutting cables.
* Performed extrusion and photography.

Sample information:

* Collected Field Blank liquid in 2 jars. Clear, colorless,liquid.

Subsample information:

* Subsampled **Liquid: Field Blank**
  B-106 Core 93 Field Blank Riser 2 :
  -Jar # 7354 (250 mLs jar size)
  -230.0 grams net weight.

* Subsampled **Liquid : Field Blank**
  B-106 Core 93 Field Blank Riser 2 :
  -Jar # 7365 (125 mLs jar size)
  -11.3 grams net weight.

Notes: Collected 241.3 grams of liquid.

B106 Core 94 Segment # 1 Riser 7

Date: July 20, 1995
Sample number: 95-0112
Cask serial #: C-1049
Logbook #: WHC-N-1178
Labcore #: S95T001266

Notes:

* Hot Cell Temp 76.6 degrees F. Humidity 41 %.
* Check weights: 20 gms = 19.99 grams 500 gms = 499.86 grams
* Dose rate through the drill string was 50 mR/hr.
* Liner liquid: None observed.
* Sampler valve closed before and after cutting cables.
* Performed extrusion and photography.

Sample information:

* Extruded approx. 19 inches of sample. Sample was wet. Texture of sample was creamy, sludge, and tended to melt on the sample tray. Facie was present between the lower 5 inches and upper 14 inches. Sample was brown in color. Lower half solids were darker brown than upper half of sample. The lower half solids consisted of 5 inches, and the upper half consisted of 14 inches of solids.

Subsample information:

* Subsampled **Solids: Lower Half Segment**
  B-106 Core 94 Segment #1 Riser 7 :
  -Jar # 7358 (250 mLs jar size)
  -87.8 grams net weight.
  -Approx. volume 70 mLs

* Subsampled **Solids: Upper Half Segment**
  B-106 Core 94 Segment #1 Riser 7 :
  -Jar # 7359 (250 mls jar size)
  -248.1 grams net weight.
  -Approx. volume 190 mLs

Notes: Collected 335.9 grams of solids.
Collected approx. volume 260 mLs.

B106 Core 94 Segment # 2 Riser 7

Date: July 20, 1995
Sample number: 95-0113
Cask serial #: SN-4-G
Logbook #: WHC-N-1178
Labcore #: S95T001267

Notes:

* Hot Cell Temp 76.7 degrees F. Humidity 50 %.
* Check weights: 20 gms = 20.00 grams 500 gms = 499.84 grams
* Dose rate through the drill string was 220 mR/hr.
* Liner liquid: Collected approx. 10 mLs.
* Sampler valve closed before and after cutting cables.
* Performed extrusion and photography.

Sample information:

* No drainable liquid observed or collected. Extruded approx. 16 inches of sample. Sample was wet, creamy, sludge, and tended to melt on the sample tray. Facie present between the lower 4.5 inches and upper 11.5 inches. The lower half of sample was light green in color, while the upper half was light brown. The lower half solids consisted of 4.5 inches, and the upper half consisted of 11.5 inches of solids.

Subsample information:

* **Subsampled Liquid: Liner Liquid**
  B-106 Core 94 Segment #2 Riser 7 :
  -Jar # 7230 (40 mLs jar size)
  -11.6 grams net weight.
  -Approx. volume 10 mLs

* Subsampled **Solids: Lower Half Segment**
  B-106 Core 94 Segment #2 Riser 7 :
  -Jar # 7368 (125 mLs jar size)
  -91.3 grams net weight.
  -Approx. volume 60 mLs

* Subsampled **Solids: Upper Half Segment**
  B-106 Core 94 Segment #2 Riser 7 :
  -Jar # 7360 (250 mls jar size)
  -217.9 grams net weight.
  -Approx. volume 170 mLs

Notes: Collected 320.8 grams of solids.
Collected approx. volume 240 mLs.

ATTACHMENT 3

PHOTOGRAPHS

THIS PAGE WAS INTENTIONALLY LEFT BLANK

BEST AVAILABLE COPY

7/18/95

B-106 Core 93 Segment #1

BEST AVAILABLE COPY

BEST AVAILABLE COPY

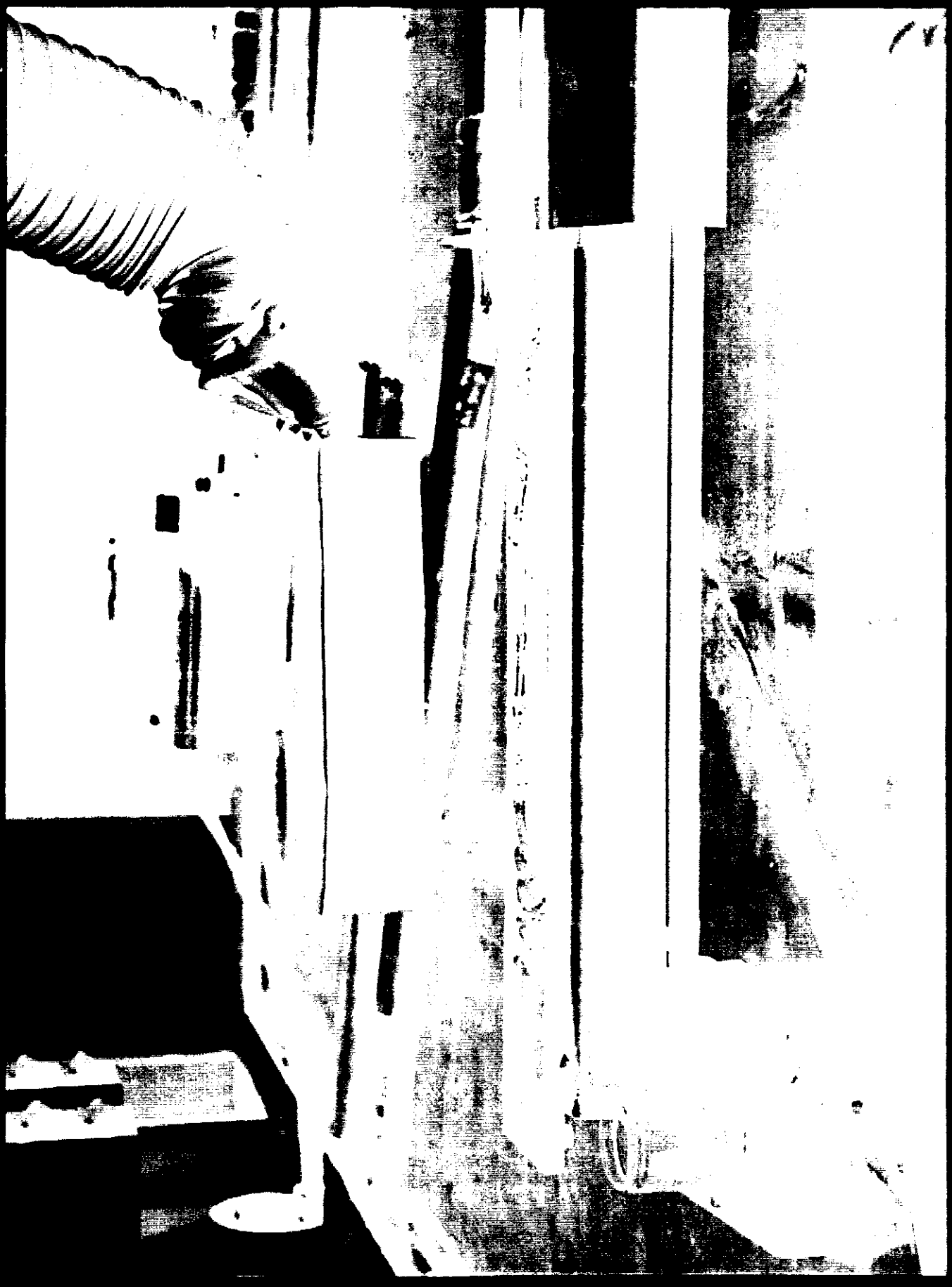
7/20/95

B-106 Core 94 Segment #1

BEST AVAILABLE COPY

7/19/95

B-106 CORE 93 SEGMENT #2



BEST AVAILABLE COPY

ATTACHMENT 4

LABCORE SAMPLE NUMBERS

THIS PAGE WAS INTENTIONALLY LEFT BLANK

222-S Analytical Laboratory
P.O. BOX 1970 T6-06, Richland, WA 99352
PHONE: (509) 373-4225/FAX: (509) 373-0545

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: John Kristofzski

Customer Code: TCP
Group#: 96000898
Project#: B-106

WHC-SD-WM-DP-140, REV. 1

The following samples were received from you on 07/17/95. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using 222-S Analytical Laboratory.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S95T001262	B-106 core 93	blank	Liquid, or handle as liquid	07/17/95
		DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01		
		NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01		
S95T001263	B-106 core93	blk subsmpl v7365	Liquid, or handle as liquid	07/17/95
		HOLDPJC		
S95T001269	B-106 core93	blk for ICP v7415	Liquid, or handle as liquid	07/17/95
		@ICP-D03 DOSE-01 SUBSMPL1		
S95T001272	B-106 C93Seg1	DrLiq sbsm V7287	Liquid, or handle as liquid	07/17/95
		@ICP-D03 DOSE-01 DSC-01 SAMPAMT1 TGA-01		
S95T001291	B-106 C93Seg1	DrLiq Arch V7419	Liquid, or handle as liquid	07/17/95
		ARCHIV01 SAMPAMT1		
S95T001296	B-106 C93Seg1	extr.DrLiq J7366	Liquid, or handle as liquid	07/17/95
		HOLDPJC		
S95T001264	B-106 core 93	seg1 extrusion	Solid, or handle as if solid	07/17/95
		DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01		
		NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01		
S95T001265	B-106 core 93	seg2 extrusion	Solid, or handle as if solid	07/17/95
		DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01		
		NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01		
S95T001268	B-106 core93	blk subsmpl v7354	Solid, or handle as if solid	07/17/95
		HOLDPJC		
S95T001274	B-106 C93Seg1	extr. LH J7355	Solid, or handle as if solid	07/17/95
		BLKDEN01 HOLDPJC HOMGNZ01		
S95T001275	B-106 C93Seg1	LH DirAnal V7288	Solid, or handle as if solid	07/17/95
		DOSE-01 DSC-01 SAMPAMT1 TGA-01		
S95T001276	B-106 C93Seg1	extr. UH J7356	Solid, or handle as if solid	07/17/95
		HOLDPJC HOMGNZ01		
S95T001277	B-106 C93Seg1	LH FusAnal V????	Solid, or handle as if solid	07/17/95
		@ALPHA01 @BETA-01 @GEA-03 @ICP-F03 @SR90-01		
		@U-01 DOSE-02 FUSION01		

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: John Kristofzski

Customer Code: TCP
Group#: 96000898
Project#: B-106

WHC-SD-WM-DP-140, REV. 1

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S95T001278	B-106 C93Seg1	UH DirAnal J7289	Solid, or handle as if solid	07/17/95
		DOSE-01 DSC-01 SAMPAMT1 TGA-01		
S95T001279	B-106 C93Seg1	UH FusAnal J????	Solid, or handle as if solid	07/17/95
		@ALPHA01 @BETA-01 @GEA-03 @ICP-F03 @SR90-01		
		@U-01 DOSE-02 FUSION01		
S95T001280	B-106 C93seg2	extr LH Jar 7367	Solid, or handle as if solid	07/17/95
		HOLDPJC HOMGNZ01		
S95T001281	B-106 C93seg2	LH DirAnal J7277	Solid, or handle as if solid	07/17/95
		DOSE-01 DSC-01 SAMPAMT1 TGA-01		
S95T001282	B-106 C93seg2	LH FusAnal J????	Solid, or handle as if solid	07/17/95
		@ALPHA01 @BETA-01 @GEA-03 @ICP-F03 @SR90-01		
		@U-01 DOSE-02 FUSION01		
S95T001283	B-106 C93seg2	extr UH Jar 7357	Solid, or handle as if solid	07/17/95
		BLKDEN01 HOLDPJC HOMGNZ01		
S95T001284	B-106 C93seg2	UH DirAnal J7278	Solid, or handle as if solid	07/17/95
		DOSE-01 DSC-01 SAMPAMT1 TGA-01		
S95T001285	B-106 C93seg2	UH FusAnal J???	Solid, or handle as if solid	07/17/95
		@ALPHA01 @BETA-01 @GEA-03 @ICP-F03 @SR90-01		
		@U-01 DOSE-02 FUSION01		
S95T001287	B-106 C93Seg1	LH Archive V7420	Solid, or handle as if solid	07/17/95
		ARCHIV01		
S95T001288	B-106 C93Seg1	UH Archive V7421	Solid, or handle as if solid	07/17/95
		ARCHIV01 BLKDEN01		
S95T001289	B-106 C93Seg2	LH Archive V7416	Solid, or handle as if solid	07/17/95
		ARCHIV01 BLKDEN01		
S95T001290	B-106 C93Seg2	UH Archive V7417	Solid, or handle as if solid	07/17/95
		ARCHIV01		
S95T001292	B-106 C93 S1&2	COMP. JAR#7477	Solid, or handle as if solid	07/17/95
		BLKDEN01 HOLDPJC HOMGNZ01		
S96T001198	B106 C93/S1	UH hist/dir V9618	Solid, or handle as if solid	07/17/95
		@TICTOC1 DOSE-01 SAMPAMT1		
S96T001199	B106 C93/S1	UH hist/acid/ICP	Solid, or handle as if solid	07/17/95
		@ICP-A01 ACIDIG01 DOSE-02		
S96T001200	B106 C93/S1	UH hist/H2O/IC/ICP	Solid, or handle as if solid	07/17/95
		@IC-01 DOSE-02 H2ODIG01		
S96T001210	B106 C93/S1	UH H2O/ICP	Solid, or handle as if solid	07/17/95
		@ICP-I01 DOSE-02 H2OICP01		
S96T001212	B106 C93 S1	LH direct V9620	Solid, or handle as if solid	07/17/95
		@TICTOC1 DOSE-01 SAMPAMT1		
S96T001214	B106 C93 S1	LH acid/ICP	Solid, or handle as if solid	07/17/95
		@ICP-A01 ACIDIG01 DOSE-02		

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: John Kristofzski

Customer Code: TCP
Group#: 96000898
Project#: B-106

WHC-SD-WM-DP-140, REV. 1

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S96T001216	B106 C93/S1 LH hist/H2O/IC	@IC-01 DOSE-02 H2ODIG01	Solid, or handle as if solid	07/17/95
S96T001220	B106 C93/COMPOSITE fusion/rad	@ALPHA01 @BETA-01 @GEA-03 @SR90-01 @U-01 DOSE-02 FUSION01	Solid, or handle as if solid	07/17/95
S96T001221	B106 C93/S1 LH H2O/ICP	@ICP-I01 DOSE-02 H2OICP01	Solid, or handle as if solid	07/17/95
S96T001222	B106 C93/S2 UH H2O/ICP	@ICP-I01 DOSE-02 H2OICP01	Solid, or handle as if solid	07/17/95
S96T001223	B106 C93/S2 LH H2O/ICP	@ICP-I01 DOSE-02 H2OICP01	Solid, or handle as if solid	07/17/95
S96T001224	B106 C93/COMPOSITE H2O/ICP	@ICP-I01 DOSE-02 H2OICP01	Solid, or handle as if solid	07/17/95
S96T001225	B106 C93 S2 UH direct V9628	@TICTOC1 DOSE-01 SAMPAMT1	Solid, or handle as if solid	07/17/95
S96T001226	B106 C93 S2 LH direct V9619	@TICTOC1 DOSE-01 SAMPAMT1	Solid, or handle as if solid	07/17/95
S96T001227	B106 C93 COMP direct V9626	@TICTOC1 DOSE-01 DSC-02 DSC-03 SAMPAMT1 TGA-03	Solid, or handle as if solid	07/17/95
S96T001228	B106 C93 S2 UH acid/ICP	@ICP-A01 ACIDIG01 DOSE-02	Solid, or handle as if solid	07/17/95
S96T001229	B106 C93 S2 LH acid/ICP	@ICP-A01 ACIDIG01 DOSE-02	Solid, or handle as if solid	07/17/95
S96T001230	B106 C93 Composite acid/ICP	@ICP-A01 ACIDIG01 DOSE-02	Solid, or handle as if solid	07/17/95
S96T001244	B106 C93/S2 UH hist/H2O/IC	@IC-01 DOSE-02 H2ODIG01	Solid, or handle as if solid	07/17/95
S96T001245	B106 C93/S2 LH hist/H2O/IC	@IC-01 DOSE-02 H2ODIG01	Solid, or handle as if solid	07/17/95
S96T001246	B106 C93/Composite hist/H2O/IC	@IC-01 DOSE-02 H2ODIG01	Solid, or handle as if solid	07/17/95
S96T001861	B-106 C93/94 tank composite	HOLDPJC	Solid, or handle as if solid	07/17/95
S96T001862	B-106 C93/94 tk com.LANL V9794	DOSE-01 SHIP-PNL	Solid, or handle as if solid	07/17/95

Test Acronym Description

Test Acronym	Description
@ALPHA01	Alpha of Digested Solid
@BETA-01	Beta of Digested Solids
@GEA-03	GEA for Co,Nb,Ru,Cs,Ce,Eu,Ra
@IC-01	Anions by IC-Dionex 4000i/4500

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: John Kristofzski

Customer Code: TCP
Group#: 96000898
Project#: B-106

WHC-SD-WM-DP-140, REV. 1

Test Acronym Description

Test Acronym	Description
@ICP-A01	ICP (Acid Digest) All Metals
@ICP-D03	ICP (Acid Added to Liquid) Li
@ICP-F03	ICP (Fusion Digest) Li Only
@ICP-I01	ICP (H2O/Acid) All Metals
@SR90-01	Sr-89/90 High Level
@TICTOC1	TIC/TOC Acid Persulfate
@U-01	Uranium by Phosphorescence
ACIDIG01	Acid Dig.ICP/AA/Radchem Aliq.
ARCHIV01	Archive aliq of sample/hotcell
BLKDEN01	Bulk Density of Sample
DLIQVOL1	Drainable Liquid Recovrd - Vol
DLIQWT01	Drainable Liquid Recoverd - Wt
DOSE-01	Dose Rate(hotcell) in mrad/hr
DOSE-02	Dose Rate(samp prep)in mrad/hr
DSC-01	DSC Exotherm using Mettler
DSC-02	DSC Exotherm Dry Calculated
DSC-03	DSC Exotherm on Perkin Elmer
EST.G/ML	Estimated g/mL - Calculated
EXTRUD01	Extrusion of a Segment
FUSION01	Fusion with KOH
H2ODIG01	Water Digest-NO ACID Aliquot
H2OICP01	Water Digest-ACID Aliquot-ICP
HOLDPJC	Hold for Proj Coord Attention
HOMGNZ01	Homogenize Sample
LLIQWT01	Liner Liquid Recoverd - Weight
NOTEBOOK	Notebook with source data
ORGVOL01	Organic Vol Present / hotcell
PCREVIEW	Review by Project Coordinator
SAMPAMT1	Amount of Sam/Present/hotcell
SHIP-PNL	Ship aliquot of sample to PNL
SLDVOL01	Solids Recovered - Volume
SLDWT-01	Solids Recovered - Weight
SUBSMPL1	Make a Subsample
TGA-01	% Water by TGA using Mettler
TGA-03	% Water by TGA on Perkin Elmer

222-S Analytical Laboratory
P.O. BOX 1970 T6-06, Richland, WA 99352
PHONE: (509) 373-4225/FAX: (509) 373-0545

ACKNOWLEDGMENT OF SAMPLES RECEIVED

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
Group#: 95000096
Project#: B-106

WHC-SD-WM-DP-140, REV. 1

The following samples were received from you on 07/19/95. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using 222-S Analytical Laboratory.

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S95T001286	B-106 LiBr HHF blank for ICP	@ICP-D03	Liquid, or handle as liquid	07/19/95
S95T001312	B-106 C94Seg2	Liner Liq. V7230 HOLDPJC	Liquid, or handle as liquid	07/19/95
S95T001266	B-106 Core 94	seg 1 extrusion DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01 NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01	Solid, or handle as if solid	07/19/95
S95T001267	B-106 Core 94	seg 2 extrusion DLIQVOL1 DLIQWT01 EST.G/ML EXTRUD01 LLIQWT01 NOTEBOOK ORGVOL01 PCREVIEW SLDVOL01 SLDWT-01	Solid, or handle as if solid	07/19/95
S95T001297	B-106C94 Seg1	extr. LH J7358 HOLDPJC HOMGNZ01	Solid, or handle as if solid	07/19/95
S95T001298	B-106C94 Seg1	LH DirAnal V7290 DOSE-01 DSC-01 SAMPAMT1 TGA-01	Solid, or handle as if solid	07/19/95
S95T001299	B-106C94 Seg1	LH FusAnal V???? @ALPHA01 @BETA-01 @GEA-03 @ICP-F03 @SR90-01 @U-01 DOSE-02 FUSION01	Solid, or handle as if solid	07/19/95
S95T001300	B-106C94 Seg1	LH Archive v7422 ARCHIV01 BLKDEN01	Solid, or handle as if solid	07/19/95
S95T001301	B-106C94 Seg1	extr. UH J#7359 BLKDEN01 HOMGNZ01	Solid, or handle as if solid	07/19/95
S95T001302	B-106C94 Seg1	UH DirAnal V7281 DOSE-01 DSC-01 SAMPAMT1 TGA-01	Solid, or handle as if solid	07/19/95
S95T001303	B-106C94 Seg1	UH FusAnal V???? @ALPHA01 @BETA-01 @GEA-03 @ICP-F03 @SR90-01 @U-01 DOSE-02 FUSION01	Solid, or handle as if solid	07/19/95
S95T001304	B-106C94 Seg1	UH archive V7423 ARCHIV01	Solid, or handle as if solid	07/19/95
S95T001305	B-106C94 Seg2	extr. LH J#7368 HOMGNZ01	Solid, or handle as if solid	07/19/95

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
Group#: 95000096
Project#: B-106

WHC-SD-WM-DP-140, REV. 1

Sample#	Sample Id	Tests Scheduled	Matrix	Sample Date
S95T001306	B-106 C94Seg2	LH DirAnal V7283	Solid, or handle as if solid	07/19/95
		DOSE-01 DSC-01 SAMPAMT1 TGA-01		
S95T001307	B-106 C94Seg2	LH FusAnal V????	Solid, or handle as if solid	07/19/95
		@ALPHA01 @BETA-01 @GEA-03 @ICP-F03 @SR90-01		
		@U-01 DOSE-02 FUSION01		
S95T001308	B-106 C94Seg2	LH archive v7424	Solid, or handle as if solid	07/19/95
		ARCHIV01 BLKDEN01		
S95T001309	B-106 C94Seg2	extr. UH J#7360	Solid, or handle as if solid	07/19/95
		BLKDEN01 HOMGNZ01		
S95T001310	B-106 C94Seg2	UH DirAnal V7282	Solid, or handle as if solid	07/19/95
		DOSE-01 DSC-01 SAMPAMT1 TGA-01		
S95T001311	B-106 C94Seg2	UH FusAnal V????	Solid, or handle as if solid	07/19/95
		@ALPHA01 @BETA-01 @GEA-03 @ICP-F03 @SR90-01		
		@U-01 DOSE-02 FUSION01		
S95T001313	B-106 C94Seg2	UH archive v7425	Solid, or handle as if solid	07/19/95
		ARCHIV01		
S95T001314	B-106 C94	composit/pretr J7390	Solid, or handle as if solid	07/19/95
		BLKDEN01 HOMGNZ01		
S96T001236	B106 C94 S1	UH direct V9622	Solid, or handle as if solid	07/19/95
		@TICTOC1 DOSE-01 SAMPAMT1		
S96T001237	B106 C94 S1	LH direct V9623	Solid, or handle as if solid	07/19/95
		@TICTOC1 DOSE-01 SAMPAMT1		
S96T001238	9106 C94 S2	UH SAMPLE DELETED	Solid, or handle as if solid	07/19/95
		DOSE-01 SAMPAMT1		
S96T001239	B106 C94 S2	LH direct V9624	Solid, or handle as if solid	07/19/95
		@TICTOC1 DOSE-01 SAMPAMT1		
S96T001240	B106 C94 S1	UH acid/ICP	Solid, or handle as if solid	07/19/95
		@ICP-A01 ACIDIG01 DOSE-02		
S96T001241	B106 C94 S1	LH acid/ICP	Solid, or handle as if solid	07/19/95
		@ICP-A01 ACIDIG01 DOSE-02		
S96T001242	B106 C94 S2	UH SAMPLE DELETED	Solid, or handle as if solid	07/19/95
		ACIDIG01 DOSE-02		
S96T001243	B106 C94 S2	LH acid/ICP	Solid, or handle as if solid	07/19/95
		@ICP-A01 ACIDIG01 DOSE-02		
S96T001247	B106 C94/S1	UH hist/H20/IC	Solid, or handle as if solid	07/19/95
		@IC-01 DOSE-02 H2ODIG01		
S96T001248	B106 C94/S1	LH hist/H20/IC	Solid, or handle as if solid	07/19/95
		@IC-01 DOSE-02 H2ODIG01		
S96T001249	B106 C94/S2	UH SAMPLE DELETED	Solid, or handle as if solid	07/19/95
		DOSE-02		
S96T001250	B106 C94/S2	LH hist/H20/IC	Solid, or handle as if solid	07/19/95
		@IC-01 DOSE-02 H2ODIG01		

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
Group#: 95000096
Project#: B-106

WHC-SD-WM-DP-140, REV.1

Sample#	Sample Id	Matrix	Tests Scheduled	Sample Date
S96T001255	B106 C94/S1 UH H2O/ICP	Solid, or handle as if solid	@ICP-I01 DOSE-02 H2OICP01	07/19/95
S96T001256	B106 C94/S1 LH H2O/ICP	Solid, or handle as if solid	@ICP-I01 DOSE-02 H2OICP01	07/19/95
S96T001257	B106 C94/S2 UH SAMPLE DELETED	Solid, or handle as if solid	DOSE-02 H2OICP01	07/19/95
S96T001258	B106 C94/S2 LH H2O/ICP	Solid, or handle as if solid	@ICP-I01 DOSE-02 H2OICP01	07/19/95
S96T001644	B106 C94 composite dir v9660	Solid, or handle as if solid	@TICTOC1 DOSE-01 DSC-02 DSC-03 SAMPAMT1 TGA-03	07/19/95
S96T001645	B106 C94 composite acid/ICP	Solid, or handle as if solid	@ICP-A01 ACIDIG01 DOSE-02	07/19/95
S96T001646	B106 C94 composite hist/H2O/IC	Solid, or handle as if solid	@IC-01 DOSE-02 H2ODIG01	07/19/95
S96T001647	B106 C94/composite fusion/rad	Solid, or handle as if solid	@ALPHA01 @BETA-01 @GEA-03 @SR90-01 @U-01 DOSE-02 FUSION01	07/19/95
S96T001648	B106 C94/composite H2O/ICP	Solid, or handle as if solid	@ICP-I01 DOSE-02 H2OICP01	07/19/95
S96T003623	B106 C94/S2UH was7360now J9688	Solid, or handle as if solid	HOLDPJC	07/19/95
S96T003624	B106 C94/S2UH Dir.Reanal#10486	Solid, or handle as if solid	@TICTOC1 DOSE-01 SAMPAMT1	07/19/95
S96T003625	B106 C94/S2 UH Acid-ICP Reanal	Solid, or handle as if solid	@ICP-A01 ACIDIG01 DOSE-02	07/19/95
S96T003626	B106 C94/S2 UH H2O/IC Reanalys	Solid, or handle as if solid	@IC-01 DOSE-02 H2ODIG01	07/19/95
S96T003627	B106 C94/S2 UH H2O/IC Reanalys	Solid, or handle as if solid	@ICP-I01 DOSE-02 H2OICP01	07/19/95

Test Acronym Description

Test Acronym	Description
@ALPHA01	Alpha of Digested Solid
@BETA-01	Beta of Digested Solids
@GEA-03	GEA for Co,Nb,Ru,Cs,Ce,Eu,Ra
@IC-01	Anions by IC-Dionex 4000i/4500
@ICP-A01	ICP (Acid Digest) All Metals
@ICP-D03	ICP (Acid Added to Liquid) Li
@ICP-F03	ICP (Fusion Digest) Li Only
@ICP-I01	ICP (H2O/Acid) All Metals
@SR90-01	Sr-89/90 High Level
@TICTOC1	TIC/TOC Acid Persulfate

Tank Characterization Program
PO Box 1970
Richland, WA 99352
Attn: Dave Bratzel

Customer Code: TCP
Group#: 95000096
Project#: B-106

WHC-SD-WM-DP-140, REV. 1

Test Acronym Description

Test Acronym	Description
@U-01	Uranium by Phosphorescence
ACIDIG01	Acid Dig.ICP/AA/Radchem Aliq.
ARCHIV01	Archive aliq of sample/hotcell
BLKDEN01	Bulk Density of Sample
DLIQVOL1	Drainable Liquid Recovrd - Vol
DLIQWT01	Drainable Liquid Recoverd - Wt
DOSE-01	Dose Rate(hotcell) in mrad/hr
DOSE-02	Dose Rate(samp prep)in mrad/hr
DSC-01	DSC Exotherm using Mettler
DSC-02	DSC Exotherm Dry Calculated
DSC-03	DSC Exotherm on Perkin Elmer
EST.G/ML	Estimated g/mL - Calculated
EXTRUD01	Extrusion of a Segment
FUSION01	Fusion with KOH
H2ODIG01	Water Digest-NO ACID Aliquot
H2OICP01	Water Digest-ACID Aliquot-ICP
HOLDPJC	Hold for Proj Coord Attention
HOMGNZ01	Homogenize Sample
LLIQWT01	Liner Liquid Recoverd - Weight
NOTEBOOK	Notebook with source data
ORGVOL01	Organic Vol Present / hotcell
PCREVIEW	Review by Project Coordinator
SAMPAMT1	Amount of Sam/Present/hotcell
SLDVOL01	Solids Recovered - Volume
SLDWT-01	Solids Recovered - Weight
TGA-01	% Water by TGA using Mettler
TGA-03	% Water by TGA on Perkin Elmer

SAMPLE HANDLING

THIS PAGE WAS INTENTIONALLY LEFT BLANK

LABCORE Data Entry Template for Worklist# 1844

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

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

Worklist Comment: B-106 C93 Segment #1 Riser 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.84	N/A	
95000096	B-106	3	SAMPLE	S95T001264	0		DLIQVOL1	SOLID	N/A	60		mL
95000096	B-106	4	SAMPLE	S95T001264	0		DLIQWT01	SOLID	N/A	84.2		g
95000096	B-106	5	SAMPLE	S95T001264	0		EST.G/ML	SOLID	N/A	1.4		g/mL
95000096	B-106	6	SAMPLE	S95T001264	0		EXTRUD01	SOLID	N/A	complete		
95000096	B-106	7	SAMPLE	S95T001264	0		LLIQWT01	SOLID	N/A	0		g
95000096	B-106	8	SAMPLE	S95T001264	0		NOTEBOOK	SOLID	N/A	N-1178		
95000096	B-106	9	SAMPLE	S95T001264	0		SLDVOL01	SOLID	N/A	230		mL
95000096	B-106	10	SAMPLE	S95T001264	0		SLDWT-01	SOLID	N/A	287.6		g
95000096	B-106	11	SAMPLE	S95T001264	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1844

[signature] 7-19-95
Analyst Signature **Date**

[signature] 7-19-95
Analyst Signature **Date**

Reviewed by Arthur B. Sunny 7-19-95

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# 1845

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

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

Worklist Comment: B-106 C93 Segment #2 Riser 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.84	N/A	
95000096	B-106	3	SAMPLE	S95T001265	0		DLIQVOL1	SOLID	N/A	0		mL
95000096	B-106	4	SAMPLE	S95T001265	0		DLIQWT01	SOLID	N/A	0		g
95000096	B-106	5	SAMPLE	S95T001265	0		EST.G/ML	SOLID	N/A	0		g/mL
95000096	B-106	6	SAMPLE	S95T001265	0		EXTRUD01	SOLID	N/A	complete		
95000096	B-106	7	SAMPLE	S95T001265	0		LLIQWT01	SOLID	N/A	0		g
95000096	B-106	8	SAMPLE	S95T001265	0		NOTEBOOK	SOLID	N/A	N-1178		
95000096	B-106	9	SAMPLE	S95T001265	0		SLDVOL01	SOLID	N/A	250		mL
95000096	B-106	10	SAMPLE	S95T001265	0		SLDWT-01	SOLID	N/A	334.5		g
95000096	B-106	11	SAMPLE	S95T001265	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1845

[signature] 7-19-95
Analyst Signature **Date**

[signature] 7-19-95
Analyst Signature **Date**

Reviewed by [signature] 7-19-95

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# 1846

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

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

Worklist Comment: B-106 C93 Field Blank Riser 2 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.85	N/A	
95000096	B-106	3	SAMPLE	S95T001262	0		DLIQVOL1	LIQUID	N/A	241		mL
95000096	B-106	4	SAMPLE	S95T001262	0		DLIQWT01	LIQUID	N/A	241.3		g
95000096	B-106	5	SAMPLE	S95T001262	0		EST.G/ML	LIQUID	N/A	1		g/mL
95000096	B-106	6	SAMPLE	S95T001262	0		EXTRUD01	LIQUID	N/A	complete		
95000096	B-106	7	SAMPLE	S95T001262	0		LLIQWT01	LIQUID	N/A	0		g
95000096	B-106	8	SAMPLE	S95T001262	0		NOTEBOOK	LIQUID	N/A	N-1178		
95000096	B-106	9	SAMPLE	S95T001262	0		SLDVOL01	LIQUID	N/A	0		mL
95000096	B-106	10	SAMPLE	S95T001262	0		SLDWT-01	LIQUID	N/A	0		g
95000096	B-106	11	SAMPLE	S95T001262	0		ORGVOL01	LIQUID	N/A	0		mL

Final page for worklist # 1846

[signature] 7-19-95
Analyst Signature **Date**

[signature] 7-19-95
Analyst Signature **Date**

Reviewed by [signature] 7-19-95

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# 1856

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

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

Worklist Comment: B-106 C94 Segment #1 Riser 7 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20g	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500g	499.86	N/A	
95000096	B-106	3	SAMPLE	S95T001266	0		DLIQVOL1	SOLID	N/A	0		mL
95000096	B-106	4	SAMPLE	S95T001266	0		DLIQWT01	SOLID	N/A	0		g
95000096	B-106	5	SAMPLE	S95T001266	0		EST.G/ML	SOLID	N/A	0		g/mL
95000096	B-106	6	SAMPLE	S95T001266	0		EXTRUD01	SOLID	N/A	Complete		
95000096	B-106	7	SAMPLE	S95T001266	0		LLIQWT01	SOLID	N/A	0		g
95000096	B-106	8	SAMPLE	S95T001266	0		NOTEBOOK	SOLID	N/A	N-1178		
95000096	B-106	9	SAMPLE	S95T001266	0		SLDVOL01	SOLID	N/A	260		mL
95000096	B-106	10	SAMPLE	S95T001266	0		SLDWT-01	SOLID	N/A	335.9		g
95000096	B-106	11	SAMPLE	S95T001266	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1856

EC 7-20-95
Analyst Signature **Date**

EC 7-20-95
Analyst Signature **Date**

Reviewed by [illegible] 7-24-95

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# 1857

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

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

Worklist Comment: B-106 C94 Segment #2 Riser 7 Extrusion

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20 g	20.00	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500 g	499.84	N/A	
95000096	B-106	3	SAMPLE	S95T001267	0		DLIQVOL1	SOLID	N/A	0		mL
95000096	B-106	4	SAMPLE	S95T001267	0		DLIQWT01	SOLID	N/A	0		g
95000096	B-106	5	SAMPLE	S95T001267	0		EST.G/ML	SOLID	N/A	0		g/mL
95000096	B-106	6	SAMPLE	S95T001267	0		EXTRUD01	SOLID	N/A	Complete		
95000096	B-106	7	SAMPLE	S95T001267	0		LLIQWT01	SOLID	N/A	~~10~~ 11.6 g		g
95000096	B-106	8	SAMPLE	S95T001267	0		NOTEBOOK	SOLID	N/A	N-1178		
95000096	B-106	9	SAMPLE	S95T001267	0		SLDVOL01	SOLID	N/A	240		mL
95000096	B-106	10	SAMPLE	S95T001267	0		SLDWT-01	SOLID	N/A	320.8		g
95000096	B-106	11	SAMPLE	S95T001267	0		ORGVOL01	SOLID	N/A	0		mL

Final page for worklist # 1857

EC 7-20-95
Analyst Signature **Date**

EC 7-20-95
Analyst Signature **Date**

Reviewed by [illegible] 7-24-95

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.

SAMPLE PREPARATIONS

THIS PAGE WAS INTENTIONALLY LEFT BLANK

LABCORE Data Entry Template for Worklist# 1876

Analyst: ABC **Instrument:** BA000 _____ **Book #** _____

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

Worklist Comment: B-106 Core93 Seg.2 homogenization

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.98	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.75	N/A	
95000096	B-106	3	SAMPLE	S95T001280	0		HOMGNZ01	SOLID	N/A	Complete		
95000096	B-106	4	SAMPLE	S95T001281	0		SAMPAMT1	SOLID	N/A	6.1		g
95000096	B-106	5	SAMPLE	S95T001289	0	X	ARCHIV01	SOLID	N/A	57.3		g
95000096	B-106	6	SAMPLE	S95T001283	0		HOMGNZ01	SOLID	N/A	Complete		
95000096	B-106	7	SAMPLE	S95T001284	0		SAMPAMT1	SOLID	N/A	6.4		g
95000096	B-106	8	SAMPLE	S95T001290	0	X	ARCHIV01	SOLID	N/A	51.6		g

Final page for worklist # 1876

Alan Campbell 7/25/95
Analyst Signature **Date**

Alan Campbell 7/25/95
Analyst Signature **Date**

Data Entry Comments: Reviewed by RK Fuller 7/26/95

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# 1888

Analyst: ABC Instrument: BA000 Book #

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

Worklist Comment: B-106 C93 S1 Homogenization

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.76	N/A	
95000096	B-106	3	SAMPLE	S95T001272	0	7289	SAMPAMT1	LIQUID	N/A	8.8		g
95000096	B-106	4	SAMPLE	S95T001291	0	7419	SAMPAMT1	LIQUID	N/A	51.4		g
95000096	B-106	5	SAMPLE	S95T001291	0	X 7419	ARCHIV01	LIQUID	N/A	51.4		g
95000096	B-106	6	SAMPLE	S95T001276	0	7356	HOMGNZ01	SOLID	N/A	Complete		
95000096	B-106	7	SAMPLE	S95T001278	0	7289	SAMPAMT1	SOLID	N/A	7.8		g
95000096	B-106	8	SAMPLE	S95T001288	0	X 7421	ARCHIV01	SOLID	N/A	55.1		g
95000096	B-106	9	SAMPLE	S95T001274	0	7355	HOMGNZ01	SOLID	N/A	Complete		
95000096	B-106	10	SAMPLE	S95T001275	0	7288	SAMPAMT1	SOLID	N/A	6.5		g
95000096	B-106	11	SAMPLE	S95T001287	0	X 7420	ARCHIV01	SOLID	N/A	56.1		g

Final page for worklist # 1888

Alan Campbell 7/28/95
Analyst Signature Date

alan Campbell 7/28/95
Analyst Signature Date

Data Entry Comments: Reviewed by RK Fuller 7/28/95

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# 1889

Analyst: ABC **Instrument:** BA000 _____ **Book #** _____

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

Worklist Comment: B-106 C93 S-Blank Homogenization

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2 INSTCHK02				EXTRUD01	SOLID	500	499.76	N/A	
95000096	B-106	3 SAMPLE	S95T001269	0		SUBSMPL1	LIQUID	N/A	39.0		mL

Final page for worklist # 1889

Alan Campbell 7/28/95
Analyst Signature Date

Alan Campbell 7/28/95
Analyst Signature Date

Data Entry Comments: Reviewed by RK Fuller 7/28/95

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.

WHC-SD-WM-DP-140, REV. 1

LABCORE Data Entry Template for Worklist# 1890

Analyst: _____ **Instrument:** BA000 _____ **Book #** _____

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

Worklist Comment: B-106 C94 S1 LH & UH Homogenization

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.76	N/A	
95000096	B-106	3	SAMPLE	S95T001297	0	7358	HOMGNZ01	SOLID	N/A	Comp.		
95000096	B-106	4	SAMPLE	S95T001298	0	7290	SAMPAMT1	SOLID	N/A	8.3		g
95000096	B-106	5	SAMPLE	S95T001300	0	X 7422	ARCHIV01	SOLID	N/A	56.7		g
95000096	B-106	6	SAMPLE	S95T001301	0	7359	HOMGNZ01	SOLID	N/A	Comp.		
95000096	B-106	7	SAMPLE	S95T001302	0	7281	SAMPAMT1	SOLID	N/A	8.7		g
95000096	B-106	8	SAMPLE	S95T001304	0	X 7423	ARCHIV01	SOLID	N/A	50.7		g

Final page for worklist # 1890

D. Bag 7-28-95
Analyst Signature Date

D. Bag 7-28-95
Analyst Signature Date

Data Entry Comments: Reviewed by RK Falk 7/28/95

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# 1891

Analyst: _____ **Instrument:** BA000 _____ **Book #** _____

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

Worklist Comment: B-106 C94 S2 Homogenization

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.74	N/A	
95000096	B-106	3	SAMPLE	S95T001305	0	7368	HOMGNZ01	SOLID	N/A	Co-P.		
95000096	B-106	4	SAMPLE	S95T001306	0	7283	SAMPAMT1	SOLID	N/A	8.3g		g
95000096	B-106	5	SAMPLE	S95T001308	0	X 7424	ARCHIV01	SOLID	N/A	57.4g		g
95000096	B-106	6	SAMPLE	S95T001309	0	7360	HOMGNZ01	SOLID	N/A	Comp.		
95000096	B-106	7	SAMPLE	S95T001310	0	7282	SAMPAMT1	SOLID	N/A	7.7		g
95000096	B-106	8	SAMPLE	S95T001313	0	X 7425	ARCHIV01	SOLID	N/A	55.1		g

Final page for worklist # 1891

A. [illegible] 7-28-95
Analyst Signature Date

A. [illegible] 7-28-95
Analyst Signature Date

Data Entry Comments:
Reviewed RK Fuller 7/28/95

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# 1904

Analyst: R. Hunter **Instrument:** BA000 _____ **Book #** _____

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

Worklist Comment: B-106 C93 S 1&2 UH&LH Composite

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2	INSTCHK02				EXTRUD01	SOLID	500	499.83	N/A	
95000096	B-106	3	SAMPLE	S95T001292	0		HOMGNZ01	SOLID	N/A	218.2		

Final page for worklist # 1904

R. Hunter 8/4/95
Analyst Signature Date

Alan B Campbell 8/7/95
Analyst Signature Date

Reviewed by RK Fulle 8/7/95

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# 1909

Analyst: RH Instrument: BA000 _____ Book # _____

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

Worklist Comment: B-106 C94 Seg. 1&2 UH.& LH. Composite

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 INSTCHK01				EXTRUD01	SOLID	20	19.99	N/A	
		2 INSTCHK02				EXTRUD01	SOLID	500	499.8	N/A	
95000096	B-106	3 SAMPLE	S95T001314	0		HOMGNZ01	SOLID	N/A	182.3		

Final page for worklist # 1909

R. Hunter 8/4/95
Analyst Signature Date

Alan Campbell 8/7/95
Analyst Signature Date

Reviewed by RK Fuller 8/7/95

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# 1908

Analyst: [illegible] **Instrument:** FUS01 AU10606 **Book #** N14

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

Worklist Comment: B-106 FUSION - 1306->1307, 1310->1311

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	250ml		N/A	g/L
95000096	B-106	2 SAMPLE	S95T001307	0 F	FUSION01	SOLID	N/A	2.0808		g/L
		.5202g → 250ml								
95000096	B-106	3 SAMPLE	S95T001307	0	DOSE-02	SOLID	N/A	7.5		mrad/hour
95000096	B-106	4 DUP	S95T001307	0 F	FUSION01	SOLID	2.0808	2.0208	N/A	g/L
		.5052g → 250ml								
95000096	B-106	5 DUP	S95T001307	0	DOSE-02	SOLID		7.5	N/A	mrad/hour
95000096	B-106	6 SAMPLE	S95T001311	0 F	FUSION01	SOLID	N/A	2.2684		g/L
		.5671g → 250ml								
95000096	B-106	7 SAMPLE	S95T001311	0	DOSE-02	SOLID	N/A	60		mrad/hour
95000096	B-106	8 DUP	S95T001311	0 F	FUSION01	SOLID	2.2684	2.2828	N/A	g/L
		.5707g → 250ml								
95000096	B-106	9 DUP	S95T001311	0	DOSE-02	SOLID		50	N/A	mrad/hour

Final page for worklist # 1908

[illegible] Murphy 7-31-95
Analyst Signature **Date**

data entry [illegible] 8-1-95
Analyst Signature **Date**

Data Entry Comments:
Blank - 20ml HCl, 20ml HNO_3, <1% solids. Sam & dup 1307 - 20ml HCl, 25ml HNO_3, <1% solids. Sam & dup 1311 - 20ml HCl, 20ml HNO_3, <1% solids. HPT was Scott Saunderback.

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.

[illegible] 8-1-95

LABCORE Data Entry Template for Worklist# 1910

Analyst: [illegible] **Instrument:** FUS01 AL10616 **Book #** N/A

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

Worklist Comment: B-106 FUSION - 1275->1277, 1278->1279

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	250ml		N/A	g/L
95000096	B-106	2 SAMPLE .5245g → 250ml	S95T001277	0 F	FUSION01	SOLID	N/A	2.0980		g/L
95000096	B-106	3 SAMPLE	S95T001277	0	DOSE-02	SOLID	N/A	95		mrad/hour
95000096	B-106	4 DUP .5270g → 250ml	S95T001277	0 F	FUSION01	SOLID	2.0980	2.1080	N/A	g/L
95000096	B-106	5 DUP	S95T001277	0	DOSE-02	SOLID		90	N/A	mrad/hour
95000096	B-106	6 SAMPLE .5281g → 250ml	S95T001279	0 F	FUSION01	SOLID	N/A	2.1124		g/L
95000096	B-106	7 SAMPLE	S95T001279	0	DOSE-02	SOLID	N/A	85		mrad/hour
95000096	B-106	8 DUP .5355g → 250ml	S95T001279	0 F	FUSION01	SOLID	2.1124	2.1920	N/A	g/L
95000096	B-106	9 DUP	S95T001279	0	DOSE-02	SOLID		100	N/A	mrad/hour

Final page for worklist # 1910

[illegible] 7-28-95
Analyst Signature **Date**

[illegible] 7-28-95
Analyst Signature **Date**

Blank - 20ml HCl, 20ml HNO_3, <1% solids. Sam & dup 1277 - 20ml HCl, 30ml HNO_3, <1% solids. Sam & dup 1274 - 20ml HCl, 30ml HNO_3, <1% solids.

Data Entry Comments: HPT - Scot Lauderbach
OTR - 100 mrad

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.

[illegible] 2-1-95

LABCORE Data Entry Template for Worklist# 1911

Analyst: [illegible] **Instrument:** FUS01 AL110166 **Book #** _____

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

Worklist Comment: B-106 FUSION - 1281->1282, 1284->1285

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	250ml		N/A	g/L
95000096	B-106	2 SAMPLE	S95T001282	0 F	FUSION01	SOLID	N/A	2.1208		g/L
		.5302g → 250ml								
95000096	B-106	3 SAMPLE	S95T001282	0	DOSE-02	SOLID	N/A	9		mrad/hour
95000096	B-106	4 DUP	S95T001282	0 F	FUSION01	SOLID	2.1208	2.1068	N/A	g/L
		.5267g → 250ml								
95000096	B-106	5 DUP	S95T001282	0	DOSE-02	SOLID		8	N/A	mrad/hour
95000096	B-106	6 SAMPLE	S95T001285	0 F	FUSION01	SOLID	N/A	2.2472		g/L
		.5618g → 250ml								
95000096	B-106	7 SAMPLE	S95T001285	0	DOSE-02	SOLID	N/A	75		mrad/hour
95000096	B-106	8 DUP	S95T001285	0 F	FUSION01	SOLID	2.2472	2.1984	N/A	g/L
		.5496 → 250ml								
95000096	B-106	9 DUP	S95T001285	0	DOSE-02	SOLID		70	N/A	mrad/hour

Final page for worklist # 1911

[illegible] Murphy 7-28-95
Analyst Signature **Date**

[illegible] 7-28-95
Analyst Signature **Date**

Blank - 20ml HCl, 20ml HNO3, <1% solids Sam 1282 - 20ml HCl, 45ml HNO3, 1% solids, solids are black. Dup 1282 - 20ml HCl 30ml HNO3, <1% solids. Sam & Dup 1285 - 20ml HCl, 30ml HNO3, <1% solids.

Data Entry Comments:

HPT - Scot Lauderbach
OTB - 75 mrad
Bertrand Griffith 8-1-95

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# 1912

Analyst: Gmf **Instrument:** FUS01 AL11066 **Book #** NONE

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

Worklist Comment: B-106 FUSION - 1298->1299, 1302->1303

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	250	250	N/A	g/L
95000096	B-106	2	SAMPLE	S95T001299	0	F	FUSION01	SOLID	N/A	2.1112		g/L
			.5278g → .250L									
95000096	B-106	3	SAMPLE	S95T001299	0		DOSE-02	SOLID	N/A	45		mrad/hour
			~~.5348g~~ 7-28-95									
95000096	B-106	4	DUP	S95T001299	0	F	FUSION01	SOLID	2.1112	2.1392	N/A	g/L
			.5348g → .250L									
95000096	B-106	5	DUP	S95T001299	0		DOSE-02	SOLID	45	45	N/A	mrad/hour
			~~.5013~~ 7-28-95									
95000096	B-106	6	SAMPLE	S95T001303	0	F	FUSION01	SOLID	N/A	2.0052		g/L
			.5013g → .250L									
95000096	B-106	7	SAMPLE	S95T001303	0		DOSE-02	SOLID	N/A	80		mrad/hour
95000096	B-106	8	DUP	S95T001303	0	F	FUSION01	SOLID	2.0052	~~2.0052~~ 2.0412 7-28-95	N/A	g/L
			7-28-95 ~~.5003~~ .5103g → .250									
95000096	B-106	9	DUP	S95T001303	0		DOSE-02	SOLID	80	80	N/A	mrad/hour

Final page for worklist # 1912

7-28-98
Analyst Signature **Date**

7-29-95
Analyst Signature **Date**

Data Entry Comments:

HPT: Scot Lauderback

OTR: 80 mrad

Bertrand Griffin II 8-1-95

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# 6442

Analyst: GAM **Instrument:** FUS01 SN16355 **Book #** _____

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

Worklist Comment: TK#B-106,CJORE 93,SEG 2L,COMP FUSION RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			FUSION01	SOLID	1	.250	N/A	g/L
95000096	B-106	2 SAMPLE	S96T001220	0 F	FUSION01	SOLID	N/A	2.2084		g/L
		.5521g → .250l								
95000096	B-106	3 SAMPLE	S96T001220	0	DOSE-02	SOLID	N/A	80		mrad/hour
95000096	B-106	4 DUP	S96T001220	0 F	FUSION01	SOLID	2.2084	2.0548	N/A	g/L
		.5137g → .250l								
95000096	B-106	5 DUP	S96T001220	0	DOSE-02	SOLID	80	80	N/A	mrad/hour

Final page for worklist # 6442

GAMurphy 4-26-96
Analyst Signature Date

Susan Bee 4/26/96
Analyst Signature Date

1227 → 1220

Bertrand Griffin II
4-29-96

Data Entry Comments: 40 mlcon HNOs, <1% 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# 7680

Analyst: DBS **Instrument:** FUS01 SR46355 **Book #** _____

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

Worklist Comment: B-106 C94 COMPOSITE FUSION01 SKB

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				FUSION01	SOLID	1	.250	N/A	g/L
95000096	B-106	2	SAMPLE	S96T001647	0	F	FUSION01	SOLID	N/A	2.1424		g/L
			0.5356g → .250									
95000096	B-106	3	SAMPLE	S96T001647	0		DOSE-02	SOLID	N/A	60		mrad/hour
95000096	B-106	4	DUP	S96T001647	0	F	FUSION01	SOLID	2.1424	2.1640	N/A	g/L
			0.5410g → .250									
95000096	B-106	5	DUP	S96T001647	0		DOSE-02	SOLID	60	50	N/A	mrad/hour

Final page for worklist # 7680

Donald S Griffin 4-18-96
Analyst Signature **Date**

Keith Fulla 4/18/96
Analyst Signature **Date**

S96T001644 → S96T001647

Reviewed by RK Fulla 4/18/96

Data Entry Comments: Sample + Blk have 20 ml Con HNO3 added.
< 0.1 Solids
HPT: Jim Evans

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# 6446

Analyst: [illegible] **Instrument:** H2O01 _____ **Book #** _____

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

Worklist Comment: TK#B-106,CORE 94,SEG 1U,1L, H2ODIG,H2OICP RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP				H2ODIG01	SOLID	1	0.100	N/A	g/L
95000096	B-106	2 SAMPLE	S96T001247	0	W	H2ODIG01	SOLID	N/A	5.2200		g/L
		.5220g → 0.100l									
95000096	B-106	3 SAMPLE	S96T001247	0		DOSE-02	SOLID	N/A	5		mrad/hour
95000096	B-106	4 DUP	S96T001247	0	W	H2ODIG01	SOLID	5.2200	5.3640	N/A	g/L
		.5364g → 0.100l									
95000096	B-106	5 DUP	S96T001247	0		DOSE-02	SOLID	5	5	N/A	mrad/hour
95000096	B-106	6 SAMPLE	S96T001255	0	I	H2OICP01	SOLID	N/A	5.0847		g/L
		5.2200 ÷ 1.0266									
95000096	B-106	7 SAMPLE	S96T001255	0		DOSE-02	SOLID	N/A	.5		mrad/hour
						ICP					
95000096	B-106	8 DUP	S96T001255	0	I	H2OICP01	SOLID	5.0847	5.2250	N/A	g/L
		5.3640 ÷ 1.0266									
95000096	B-106	9 DUP	S96T001255	0		DOSE-02	SOLID	.5	.5	N/A	mrad/hour
95000096	B-106	10 SAMPLE	S96T001248	0	W	H2ODIG01	SOLID	N/A	4.8170		g/L
		.4817g → 0.100l									
95000096	B-106	11 SAMPLE	S96T001248	0		DOSE-02	SOLID	N/A	5		mrad/hour
95000096	B-106	12 DUP	S96T001248	0	W	H2ODIG01	SOLID	4.8170	4.7810	N/A	g/L
		.4781g → 0.100l									
95000096	B-106	13 DUP	S96T001248	0		DOSE-02	SOLID	.5	2.5	N/A	mrad/hour
95000096	B-106	14 SAMPLE	S96T001256	0	I	H2OICP01	SOLID	N/A	4.6922		g/L
		4.8170 ÷ 1.0266									
95000096	B-106	15 SAMPLE	S96T001256	0		DOSE-02	SOLID	N/A	.5		mrad/hour
						ICP					
95000096	B-106	16 DUP	S96T001256	0	I	H2OICP01	SOLID	4.6922	4.6571	N/A	g/L
		4.7810 ÷ 1.0266									
95000096	B-106	17 DUP	S96T001256	0		DOSE-02	SOLID	.5	.5	N/A	mrad/hour

Data Entry Comments:

Reviewed by RKFulle
5/14/96

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

LABCORE Data Entry Template for Worklist# 6446

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

Final page for worklist # 6446

Analyst Signature Date 5-13-96

Analyst Signature Date 5/14/96

1120 Dig 1120 ICP

596T001236 → 596T001247 → 596T001255

1237 → 1248 → 1256

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# 6447

Analyst: [illegible] **Instrument:** H2O01 _____ **Book #** _____

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

Worklist Comment: TK#B-106,CORE 94,SEG 2U,2L, H2ODIG,H2OICP RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	1	0.100	N/A	g/L
95000096	B-106	2 SAMPLE	S96T001249	0 W	H2ODIG01	SOLID	N/A	4.7510		g/L
		.4751g → 0.100l								
95000096	B-106	3 SAMPLE	S96T001249	0	DOSE-02	SOLID	N/A	20		mrad/hour
95000096	B-106	4 DUP	S96T001249	0 W	H2ODIG01	SOLID	4.7510	4.7390	N/A	g/L
		.4739g → 0.100l								
95000096	B-106	5 DUP	S96T001249	0	DOSE-02	SOLID	20	20	N/A	mrad/hour
95000096	B-106	6 SAMPLE	S96T001257	0 I	H2OICP01	SOLID	N/A	4.6279		g/L
		4.751lr ÷ 1.0266								
95000096	B-106	7 SAMPLE	S96T001257	0	DOSE-02	SOLID	N/A	5		mrad/hour
					ICP					
95000096	B-106	8 DUP	S96T001257	0 I	H2OICP01	SOLID	4.6279	4.6162	N/A	g/L
		4.7390 ÷ 1.0266								
95000096	B-106	9 DUP	S96T001257	0	DOSE-02	SOLID	5	5	N/A	mrad/hour
95000096	B-106	10 SAMPLE	S96T001250	0 W	H2ODIG01	SOLID	N/A	5.0740		g/L
		.5074g → 0.100l								
95000096	B-106	11 SAMPLE	S96T001250	0	DOSE-02	SOLID	N/A	.5		mrad/hour
95000096	B-106	12 DUP	S96T001250	0 W	H2ODIG01	SOLID	5.0740	5.0020	N/A	g/L
		.5002g → 0.100l								
95000096	B-106	13 DUP	S96T001250	0	DOSE-02	SOLID	.5	.5	N/A	mrad/hour
95000096	B-106	14 SAMPLE	S96T001258	0 I	H2OICP01	SOLID	N/A	4.9425		g/L
		5.0740 ÷ 1.0266								
95000096	B-106	15 SAMPLE	S96T001258	0	DOSE-02	SOLID	N/A	5		mrad/hour
					ICP					
95000096	B-106	16 DUP	S96T001258	0 I	H2OICP01	SOLID	4.9425	4.8724	N/A	g/L
		5.0020 ÷ 1.0266								
95000096	B-106	17 DUP	S96T001258	0	DOSE-02	SOLID	.5	.5	N/A	mrad/hour

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# 6447

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

Final page for worklist # 6447

A D Murphy 5-13-96
Analyst Signature Date

Susan Bu 5/14/96
Analyst Signature Date

596T001238 → 596T001257
1239 → 1258

596T001238 → 596T001249 → 596T001257
596T001239 → 596T001250 → 596T001258

Data Entry Comments:

Reviewed by RKFuller 5/14/96

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

LABCORE Data Entry Template for Worklist# 6448

Analyst: [illegible] **Instrument:** H2O01 _____ **Book #** _____

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

Worklist Comment: TK#B-106,CORE93,SEG 1U,1L, H2ODIG,H2OICP RTS!

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK-PREP				H2ODIG01	SOLID	1	0.100	N/A	g/L
95000096	B-106	2	SAMPLE	S96T001200	0	W	H2ODIG01	SOLID	N/A	5.0780		g/L
			0.5078 g → 0.100l									
95000096	B-106	3	SAMPLE	S96T001200	0		DOSE-02	SOLID	N/A	5		mrad/hour
95000096	B-106	4	DUP	S96T001200	0	W	H2ODIG01	SOLID	5.0780	5.0460	N/A	g/L
			0.5046 g → 0.100l									
95000096	B-106	5	DUP	S96T001200	0		DOSE-02	SOLID	5	5	N/A	mrad/hour
95000096	B-106	6	SAMPLE	S96T001210	0	I	H2OICP01	SOLID	N/A	4.9464		g/L
			5.0780 ÷ 1.0266									
95000096	B-106	7	SAMPLE	S96T001210	0		DOSE-02	SOLID	N/A	.5		mrad/hour
95000096	B-106	8	DUP	S96T001210	0	I	H2OICP01	SOLID	4.9464	4.9153	N/A	g/L
			5.0460 ÷ 1.0266									
95000096	B-106	9	DUP	S96T001210	0		DOSE-02	SOLID	.5	.5	N/A	mrad/hour
95000096	B-106	10	SAMPLE	S96T001216	0	W	H2ODIG01	SOLID	N/A	4.7430		g/L
			0.4743 g → 0.100l									
95000096	B-106	11	SAMPLE	S96T001216	0		DOSE-02	SOLID	N/A	3		mrad/hour
95000096	B-106	12	DUP	S96T001216	0	W	H2ODIG01	SOLID	4.7430	4.5710	N/A	g/L
			0.4571 g → 0.100l									
95000096	B-106	13	DUP	S96T001216	0		DOSE-02	SOLID	3	2.5	N/A	mrad/hour
95000096	B-106	14	SAMPLE	S96T001221	0	I	H2OICP01	SOLID	N/A	4.6201		g/L
			4.7430 ÷ 1.0266									
95000096	B-106	15	SAMPLE	S96T001221	0		DOSE-02	SOLID	N/A	.5		mrad/hour
95000096	B-106	16	DUP	S96T001221	0	I	H2OICP01	SOLID	4.6201	4.4526	N/A	g/L
			4.5710 ÷ 1.0266									
95000096	B-106	17	DUP	S96T001221	0		DOSE-02	SOLID	.5	.5	N/A	mrad/hour

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# 6448

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

Final page for worklist # 6448

[signature] 5-13-96
Analyst Signature Date

Susan Bu 5/14/96
Analyst Signature Date

H2O DIG H2O ICP
S96T001198 → S96T001200 → S96T001210
1212 → 1216 → 1221

Data Entry Comments:

Reviewed by RK Fulla 5/14/96

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

LABCORE Data Entry Template for Worklist# 6450

Analyst: [illegible] **Instrument:** H2O01 _____ **Book #** _____

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

Worklist Comment: TK#B-106,CORE 93,SEG 2U,2L, H2ODIG,H2OICP RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	1	0.100	N/A	g/L
95000096	B-106	2 SAMPLE	S96T001244	0 W	H2ODIG01	SOLID	N/A	4.6160		g/L
		0.4616 g → 0.100 l								
95000096	B-106	3 SAMPLE	S96T001244	0	DOSE-02	SOLID	N/A	.5		mrad/hour
95000096	B-106	4 DUP	S96T001244	0 W	H2ODIG01	SOLID	4.6160	4.5960	N/A	g/L
		0.4596 g → 0.100 l								
95000096	B-106	5 DUP	S96T001244	0	DOSE-02	SOLID	.5	.5	N/A	mrad/hour
95000096	B-106	6 SAMPLE	S96T001222	0 I	H2OICP01	SOLID	N/A	4.4964		g/L
		4.6160 ÷ 1.0266 =								
95000096	B-106	7 SAMPLE	S96T001222	0	DOSE-02	SOLID	N/A	.5		mrad/hour
95000096	B-106	8 DUP	S96T001222	0 I	H2OICP01	SOLID	4.4964	4.4769	N/A	g/L
		4.5960 ÷ 1.0266 =								
95000096	B-106	9 DUP	S96T001222	0	DOSE-02	SOLID	.5	.5	N/A	mrad/hour
95000096	B-106	10 SAMPLE	S96T001223	0 I	H2OICP01	SOLID	N/A	5.2425		g/L
		5.3820 ÷ 1.0266								
95000096	B-106	11 SAMPLE	S96T001223	0	DOSE-02	SOLID	N/A	.5		mrad/hour
95000096	B-106	12 DUP	S96T001223	0 I	H2OICP01	SOLID	5.2425	5.1442	N/A	g/L
		5.2810 ÷ 1.0266								
95000096	B-106	13 DUP	S96T001223	0	DOSE-02	SOLID	.5	.5	N/A	mrad/hour
95000096	B-106	14 SAMPLE	S96T001245	0 W	H2ODIG01	SOLID	N/A	5.3820		g/L
		0.5382 g → 0.100 l								
95000096	B-106	15 SAMPLE	S96T001245	0	DOSE-02	SOLID	N/A	.5		mrad/hour
95000096	B-106	16 DUP	S96T001245	0 W	H2ODIG01	SOLID	5.3820	5.2810	N/A	g/L
		0.5281 g → 0.100 l								
95000096	B-106	17 DUP	S96T001245	0	DOSE-02	SOLID	.5	.5	N/A	mrad/hour

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# 6450

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

Final page for worklist # 6450

[signature] 5-13-96
Analyst Signature Date

[signature] 5/14/96
Analyst Signature Date

H2O Dig H2O ICP
S96T001225 → S96T001244 → S96T001222
1226 → 1245 → 1223

RHstrd

Reviewed by RKFulla 5/14/96

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 6451

Analyst: CAM **Instrument:** H2O01 _____ **Book #** _____

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

Worklist Comment: TK#B-106,CORE 93,SEG COMP,(SY-102,CORE 62,STRATUM B) RTS!

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	1	0.100	N/A	g/L
95000096	B-106	2 SAMPLE	S96T001246	0 W	H2ODIG01	SOLID	N/A	4.3920		g/L
		.4392 → 0.100l								
95000096	B-106	3 SAMPLE	S96T001246	0	DOSE-02	SOLID	N/A	5		mrad/hour
95000096	B-106	4 DUP	S96T001246	0 W	H2ODIG01	SOLID	4.3920	4.3800	N/A	g/L
		.4380 → 0.100l								
95000096	B-106	5 DUP	S96T001246	0	DOSE-02	SOLID	5	8	N/A	mrad/hour
95000096	B-106	6 SAMPLE	S96T001224	0 I	H2OICP01	SOLID	N/A	4.2779		g/L
		4.3920 ÷ 1.0266 =								
95000096	B-106	7 SAMPLE	S96T001224	0	DOSE-02	SOLID	N/A	-5		mrad/hour
95000096	B-106	8 DUP	S96T001224	0 I	H2OICP01	SOLID	4.2779	4.2662	N/A	g/L
		4.3800 ÷ 1.0266								
95000096	B-106	9 DUP	S96T001224	0	DOSE-02	SOLID	.5	.5	N/A	mrad/hour
96000065	SY-103	10 SAMPLE	S96T000599	0 W	H2ODIG01	SOLID	N/A	4.5450		g/L
		0.4545g → 0.100l								
96000065	SY-103	11 SAMPLE	S96T000599	0	DOSE-02	SOLID	N/A	25		mrad/hour
96000065	SY-103	12 DUP	S96T000599	0 W	H2ODIG01	SOLID	4.5450	4.598	N/A	g/L
		0.4598g → 0.100l								
96000065	SY-103	13 DUP	S96T000599	0	DOSE-02	SOLID	25	20	N/A	mrad/hour
96000065	SY-103	14 SAMPLE	S96T001319	0 I	H2OICP01	SOLID	N/A	4.4269		g/L
		4.5450 ÷ 1.0266								
96000065	SY-103	15 SAMPLE	S96T001319	0	DOSE-02	SOLID	N/A	5		mrad/hour
96000065	SY-103	16 DUP	S96T001319	0 I	H2OICP01	SOLID	4.4269	4.4785	N/A	g/L
		4.5980 ÷ 1.0266								
96000065	SY-103	17 DUP	S96T001319	0	DOSE-02	SOLID	5	5	N/A	mrad/hour

Data Entry Comments: Reviewed by RK Fuller 6/12/96

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

LABCORE Data Entry Template for Worklist# 6451

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

Final page for worklist # 6451

[signature] 5-13-96
Analyst Signature **Date**

[signature] 6-12-96
Analyst Signature **Date**

H2O DIG H2O ICP
S96T001227 → S96T001246 → S96T001224
0597 → 0599 → 1319

[illegible]

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# 7683

Analyst: JAM **Instrument:** H2O01 SN116355 **Book #** _____

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

Worklist Comment: B-106 C94 COMPOSITE H2ODIG01,H2OICP01 SKB

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	1	.100	N/A	g/L
95000096	B-106	2 SAMPLE	S96T001646	0 W	H2ODIG01	SOLID	N/A	4.8830		g/L
		0.4883 g → .100 l								
95000096	B-106	3 SAMPLE	S96T001646	0	DOSE-02	SOLID	N/A	10		mrad/hour
95000096	B-106	4 DUP	S96T001646	0 W	H2ODIG01	SOLID	4.8830	5.0850	N/A	g/L
		0.5085 g → .100 l								
95000096	B-106	5 DUP	S96T001646	0	DOSE-02	SOLID	10	3.5	N/A	mrad/hour
95000096	B-106	6 SAMPLE	S96T001648	0 I	H2OICP01	SOLID	N/A	4.7561		g/L
		RK7 ~~0.4883~~ 4.8830 ÷ 1.0266 =								
95000096	B-106	7 SAMPLE	S96T001648	0	DOSE-02	SOLID	N/A	.5		mrad/hour
95000096	B-106	8 DUP	S96T001648	0 I	H2OICP01	SOLID	4.7561	4.9529	N/A	g/L
		5.0850 ÷ 1.0266 =								
95000096	B-106	9 DUP	S96T001648	0	DOSE-02	SOLID	.5	.5	N/A	mrad/hour

1Gp

Final page for worklist # 7683

JAMurphy 4-23-96
Analyst Signature **Date**

Susan Ben 4/29/96
Analyst Signature **Date**

S96T001644 → S96T001646 → S96T001648

Reviewed by RK Fuller 5/6/96

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 10528

Analyst: RK **Instrument:** H2O01 _____ **Book #** _____

Method: LA-504-101 Rev/Mod E-0 WHC-SD-WM-DP-140, REV. 1

Worklist Comment: B-106 C94 H2ODIG01 H2OICP01 SKB

SUPER SUPER RUSH

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			H2ODIG01	SOLID	1	0.100	N/A	g/L
95000096	B-106	2 SAMPLE	S96T003626 .5255	0 W	H2ODIG01	SOLID	N/A	5.255		g/L
95000096	B-106	3 SAMPLE	S96T003626	0	DOSE-02	SOLID	N/A	5 mrad		mrad/hour
95000096	B-106	4 DUP	S96T003626 .5285	0 W	H2ODIG01	SOLID	5.255	5.285	N/A	g/L
95000096	B-106	5 DUP	S96T003626	0	DOSE-02	SOLID	5	5 mrad	N/A	mrad/hour
95000096	B-106	6 SAMPLE	S96T003627 .5255	0 I	H2OICP01	SOLID	N/A	5.118		g/L
95000096	B-106	7 SAMPLE	S96T003627	0	DOSE-02	SOLID	N/A	1 mrad		mrad/hour
95000096	B-106	8 DUP	S96T003627 .5285	0 I	H2OICP01	SOLID	5.118	5.148	N/A	g/L
95000096	B-106	9 DUP	S96T003627	0	DOSE-02	SOLID	1	1 mrad	N/A	mrad/hour

ICP

Final page for worklist # 10528

Rob King 7/14/96
Analyst Signature **Date**

RE Wright 7/15/96
Analyst Signature **Date**

S96T003624 → 3626 → 3627

Reviewed by RK Fuller 7/15/96

Data Entry Comments: added .400ml 1:1 HNO_3 to sample # S96T003627 + DUP

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# 6444

Analyst: SLH **Instrument:** ACD01 SN16355 **Book #** WHC-1A SOTJ
WHC-2 SOTL

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

Worklist Comment: TK#B-106,CORE 94,SEG 1U,1L,2U,2L, ACIDIG RTS!

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	g/L
95000096	B-106	3	SAMPLE	S96T001240	0	A	ACIDIG01	SOLID	N/A	5.4140		g/L
			~~0.2648~~ 0.2707 g → .050 l									
95000096	B-106	4	SAMPLE	S96T001240	0		DOSE-02	SOLID	N/A	80		mrad/hour
95000096	B-106	5	DUP	S96T001240	0	A	ACIDIG01	SOLID	5.4140	5.2960	N/A	g/L
			0.2648 g → .050 l									
95000096	B-106	6	DUP	S96T001240	0		DOSE-02	SOLID	80	75	N/A	mrad/hour
95000096	B-106	7	SPK	S96T001240	0	A	ACIDIG01	SOLID	20	20	N/A	g/L
			~~0.213~~ 0.2613 g → .050 l = 5.2260 g/l									
95000096	B-106	8	SPK	S96T001240	0		DOSE-02	SOLID	NA	75	N/A	mrad/hour
95000096	B-106	9	SAMPLE	S96T001241	0	A	ACIDIG01	SOLID	N/A	5.2280		g/L
			0.2614 g → .050 l									
95000096	B-106	10	SAMPLE	S96T001241	0		DOSE-02	SOLID	N/A	30		mrad/hour
95000096	B-106	11	DUP	S96T001241	0	A	ACIDIG01	SOLID	5.2280	4.9120	N/A	g/L
			0.2456 g → .050 l									
95000096	B-106	12	DUP	S96T001241	0		DOSE-02	SOLID	30	35	N/A	mrad/hour
95000096	B-106	13	SAMPLE	S96T001242	0	A	ACIDIG01	SOLID	N/A	5.0100		g/L
			0.2505 g → .050 l									
95000096	B-106	14	SAMPLE	S96T001242	0		DOSE-02	SOLID	N/A	290		mrad/hour
95000096	B-106	15	DUP	S96T001242	0	A	ACIDIG01	SOLID	5.0100	5.2720	N/A	g/L
			0.2636 g → .050 l									
95000096	B-106	16	DUP	S96T001242	0		DOSE-02	SOLID	290	350	N/A	mrad/hour
95000096	B-106	17	SAMPLE	S96T001243	0	A	ACIDIG01	SOLID	N/A	5.2060		g/L
			0.2603 g → .050 l									
95000096	B-106	18	SAMPLE	S96T001243	0		DOSE-02	SOLID	N/A	5		mrad/hour

Data Entry Comments:

WHC-1A 2.5ml STD + spike

WHC-2 2.5ml

Sample 1242 sample & Dup were Filtered, because of Cloudyness

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.

HPT: Jim Evans

LABCORE Data Entry Template for Worklist# 6444

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000096	B-106	19 DUP	S96T001243	0	A	ACIDIG01	SOLID	5.2060	5.0200	N/A	g/L
		0.2510 g → .0501									
95000096	B-106	20 DUP	S96T001243	0		DOSE-02	SOLID	5	5	N/A	mrad/hour

Final page for worklist # 6444

Sandra Hood Boatright
Analyst Signature Date 4-18-96

Keith Fuller 4/18/96
Analyst Signature Date

S96T001236 → S96T001240
1237 → 1241
1238 → 1242
1239 → 1243
RKF

Reviewed by RK Fuller 4/18/96

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 7682

Analyst: SLH **Instrument:** ACD01 SR016355 **Book #** WHC-1A SOTJ
WHC-2 SOTL

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

Worklist Comment: B-106 C94 COMPOSITE ACIDIG01 SKB

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	g/L
95000096	B-106	3 SAMPLE	S96T001645	0 A	ACIDIG01	SOLID	N/A	4.5640		g/L
		0.2282 g → .050l								
95000096	B-106	4 SAMPLE	S96T001645	0	DOSE-02	SOLID	N/A	50		mrad/hour
95000096	B-106	5 DUP	S96T001645	0 A	ACIDIG01	SOLID	4.5640	4.5280	N/A	g/L
		0.2264 g → .050l								
95000096	B-106	6 DUP	S96T001645	0	DOSE-02	SOLID	50	50	N/A	mrad/hour
95000096	B-106	7 SPK	S96T001645	0 A	ACIDIG01	SOLID	.20	.20	N/A	g/L
		0.2384 g → .050l = 4.7680 g/l								
95000096	B-106	8 SPK	S96T001645	0	DOSE-02	SOLID	NA	40	N/A	mrad/hour

Final page for worklist # 7682

Sandra Hood Boatright
Analyst Signature Date 4-18-96

Keith Fuller 4/18/96
Analyst Signature Date

S96T001644 → S96T001645

Reviewed by RK Fuller 4/18/96

Data Entry Comments:

WHC-1A 2.5 ml STD + spike

WHC-2 2.5 ml

HPT: Jim Evans

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# 8515

Analyst: _____ **Instrument:** ACD01 _____ **Book #** _____

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

Worklist Comment: B-106 C93 SEG 1U,1L,2U,2L COMP ACIDIG01

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	g/L
95000096	B-106	3 SAMPLE	S96T001199	0 A	ACIDIG01	SOLID	N/A	4.7620		g/L
		0.2381g → .050 l								
95000096	B-106	4 SAMPLE	S96T001199	0	DOSE-02	SOLID	N/A	50		mrad/hour
95000096	B-106	5 DUP	S96T001199	0 A	ACIDIG01	SOLID	4.7620	4.9440	N/A	g/L
		0.2472g → .050 l								
95000096	B-106	6 DUP	S96T001199	0	DOSE-02	SOLID	50	75	N/A	mrad/hour
95000096	B-106	7 SPK	S96T001199	0 A	ACIDIG01	SOLID	20	20	N/A	g/L
		0.2388g → .050 l = 4.7760g/l								
95000096	B-106	8 SPK	S96T001199	0	DOSE-02	SOLID	NA	75	N/A	mrad/hour
95000096	B-106	9 SAMPLE	S96T001214	0 A	ACIDIG01	SOLID	N/A	5.2700		g/L
		0.2635g → .050 l								
95000096	B-106	10 SAMPLE	S96T001214	0	DOSE-02	SOLID	N/A	120		mrad/hour
95000096	B-106	11 DUP	S96T001214	0 A	ACIDIG01	SOLID	5.2700	5.0800	N/A	g/L
		0.2540g → .050 l								
95000096	B-106	12 DUP	S96T001214	0	DOSE-02	SOLID	120	90	N/A	mrad/hour
95000096	B-106	13 SAMPLE	S96T001228	0 A	ACIDIG01	SOLID	N/A	5.3220		g/L
		0.2661g → .050 l								
95000096	B-106	14 SAMPLE	S96T001228	0	DOSE-02	SOLID	N/A	60		mrad/hour
95000096	B-106	15 DUP	S96T001228	0 A	ACIDIG01	SOLID	5.3220	5.4100	N/A	g/L
		0.2705g → .050 l								
95000096	B-106	16 DUP	S96T001228	0	DOSE-02	SOLID	60	50	N/A	mrad/hour
95000096	B-106	17 SAMPLE	S96T001229	0 A	ACIDIG01	SOLID	N/A	4.7680		g/L
		0.2384g → .050 l								
95000096	B-106	18 SAMPLE	S96T001229	0	DOSE-02	SOLID	N/A	10		mrad/hour

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# 8515

GROUP	PROJECT	S TYPE	SAMPLE#	R A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000096	B-106	19 DUP	S96T001229	0 A	ACIDIG01	SOLID	4.7680	4.7840	N/A	g/L
		0.2392 g → .050 l								
95000096	B-106	20 DUP	S96T001229	0	DOSE-02	SOLID	10	10	N/A	mrad/hour
95000096	B-106	21 SAMPLE	S96T001230	0 A	ACIDIG01	SOLID	N/A	5.3800		g/L
		0.2690 g → .050 l								
95000096	B-106	22 SAMPLE	S96T001230	0	DOSE-02	SOLID	N/A	8		mrad/hour
95000096	B-106	23 DUP	S96T001230	0 A	ACIDIG01	SOLID	5.3800	5.3240	N/A	g/L
		0.2662 g → .050 l								
95000096	B-106	24 DUP	S96T001230	0	DOSE-02	SOLID	8	75	N/A	mrad/hour

Final page for worklist # 8515

Analyst Signature Date

Susan Bu 5/10/96
Analyst Signature Date

S96T001198 → S96T001199
1212 → 1214
1225 → 1228
1226 → 1229
1227 → 1230

Reviewed by RKFuller 5/14/96

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 10527

Analyst: ADP **Instrument:** ACD01 **Book #** WHC1 WHC 2

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

Worklist Comment: B-106 C94 ACIDIG01 SKB

SUPER SUPER RUSH

GROUP	PROJECT	S TYPE	SAMPLE#	R A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1 BLNK-PREP			ACIDIG01	SOLID	1	0.050	N/A	g/L
		2 STD-PREP			ACIDIG01	SOLID	20	20	N/A	ADP ~~g/L~~ DF 7-15-96
95000096	B-106	3 SAMPLE 0.2991 → 0.050 l	S96T003625	0 A	ACIDIG01	SOLID	N/A	5.982		g/L
95000096	B-106	4 SAMPLE	S96T003625	0	DOSE-02	SOLID	N/A	75		mrad/hour
95000096	B-106	5 DUP 0.2780 → 0.050 l	S96T003625	0 A	ACIDIG01	SOLID	5.982	5.560	N/A	g/L
95000096	B-106	6 DUP	S96T003625	0	DOSE-02	SOLID	75	75	N/A	mrad/hour
95000096	B-106	7 SPK 0.2564 → 0.050 l	S96T003625	0 A	ACIDIG01	SOLID	20	20	N/A	ADP ~~g/L~~ DF 7-15-96
95000096	B-106	8 SPK	S96T003625	0	DOSE-02	SOLID	75	75	N/A	mrad/hour

Final page for worklist # 10527

[signature] 7-15-96
Analyst Signature **Date**

[signature] 7-15-96
Analyst Signature **Date**

S96T003624 → 3625

Data Entry Comments:

Reviewed by RK Fuller 7/16/96

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

INORGANIC ANALYSES

THIS PAGE WAS INTENTIONALLY LEFT BLANK

LABCORE Data Entry Template for Worklist# 7333

Analyst: SMF **Instrument:** DSC0 3 **Book #** 12N14B

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

Worklist Comment: B-106 FOR DSC PLEASE RUN UNDER N2

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-03	SOLID	28.45	27.51 *	N/A	Joules/g
95000096	B-106	2	SAMPLE	S96T001227	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000096	B-106	3	DUP	S96T001227	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g
95000096	B-106	4	SAMPLE	S96T001644	0		DSC-03	SOLID	N/A	Ø		Joules/g
95000096	B-106	5	DUP	S96T001644	0		DSC-03	SOLID	Ø	Ø	N/A	Joules/g

Final page for worklist # 7333

See attached for signatures
Analyst Signature **Date** 5-3-96 BDV

Gary Hammitt 5-4-96
Analyst Signature **Date**

Verified by H Anasto 5-7-96

Data Entry Comments: S96T001227 produced two endotherms, one at 98.5°C with a delta H of 675.9J/g and second at 145.2°C with a delta H of 87.5J/g the second endotherm was very sharp. S96T001644 produced two endotherms one at 124.4°C with a delta H of 1107.3J/g, and second at 296.3°C with a delta H of 18.33J/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.

WHC-SD-WM-DP-140, REV. 1

LABCORE Data Entry Template for Worklist# 7333

Analyst: SMF **Instrument:** DSC0 _____ **Book #** 12N14R

Method: LA-514-113 Rev/Mod _____

Worklist Comment: B-106 FOR DSC PLEASE RUN UNDER N2

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				DSC-01	SOLID			N/A	Joules/g
95000096	B-106	2	SAMPLE	S96T001227	0		DSC-01	SOLID	N/A			Joules/g
95000096	B-106	3	DUP	S96T001227	0		DSC-01	SOLID			N/A	Joules/g
95000096	B-106	4	SAMPLE	S96T001644	0		DSC-01	SOLID	N/A			Joules/g
95000096	B-106	5	DUP	S96T001644	0		DSC-01	SOLID			N/A	Joules/g

Final page for worklist # 7333

Susie M. Fulton 4-27-96

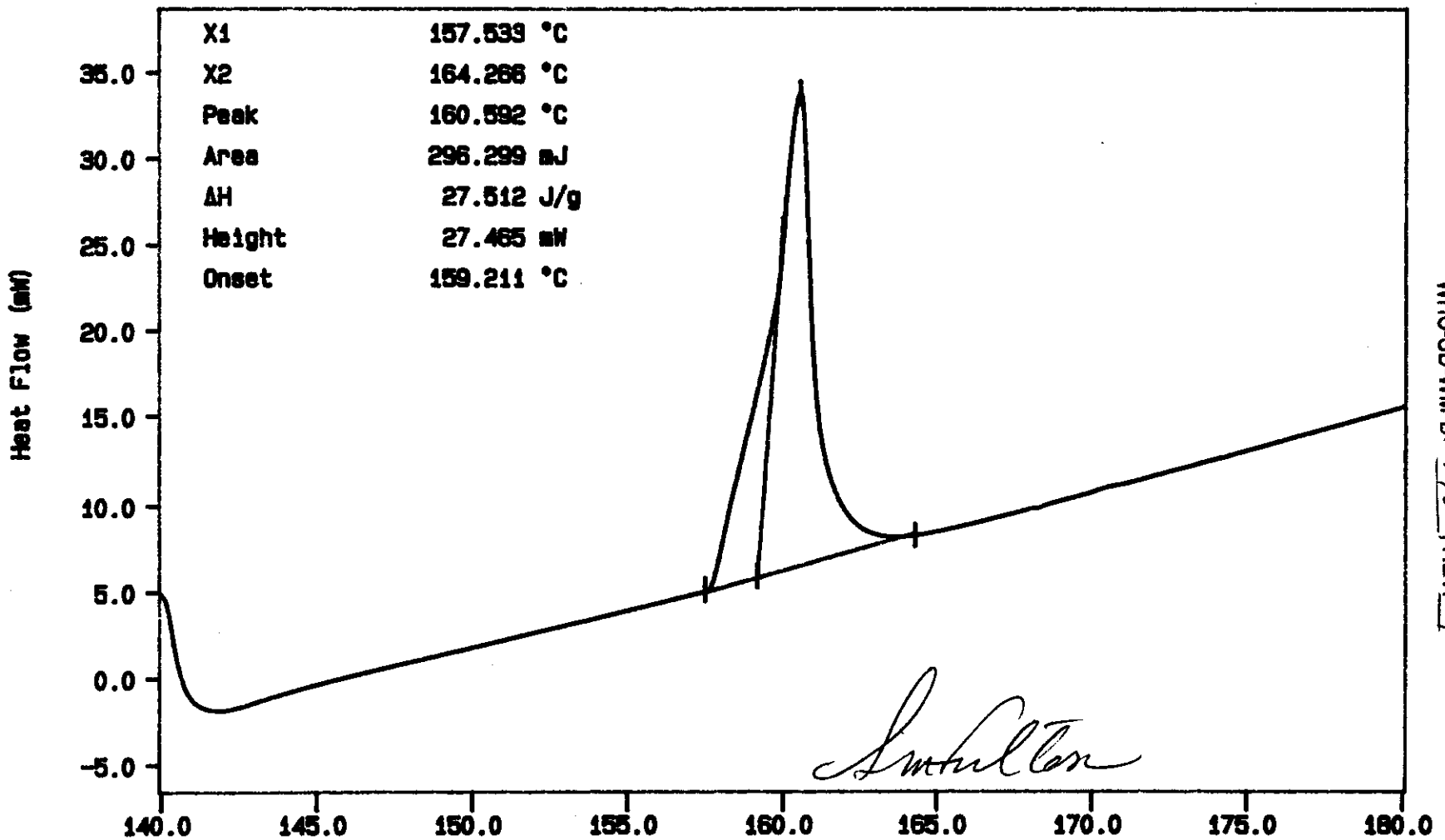
Analyst Signature **Date** **Analyst Signature** **Date**

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: ind042701 Sat Apr 27 08:26:56 1996
Sample Weight: 10.770 mg
12N14-B INDIUM

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 100 TO 105.

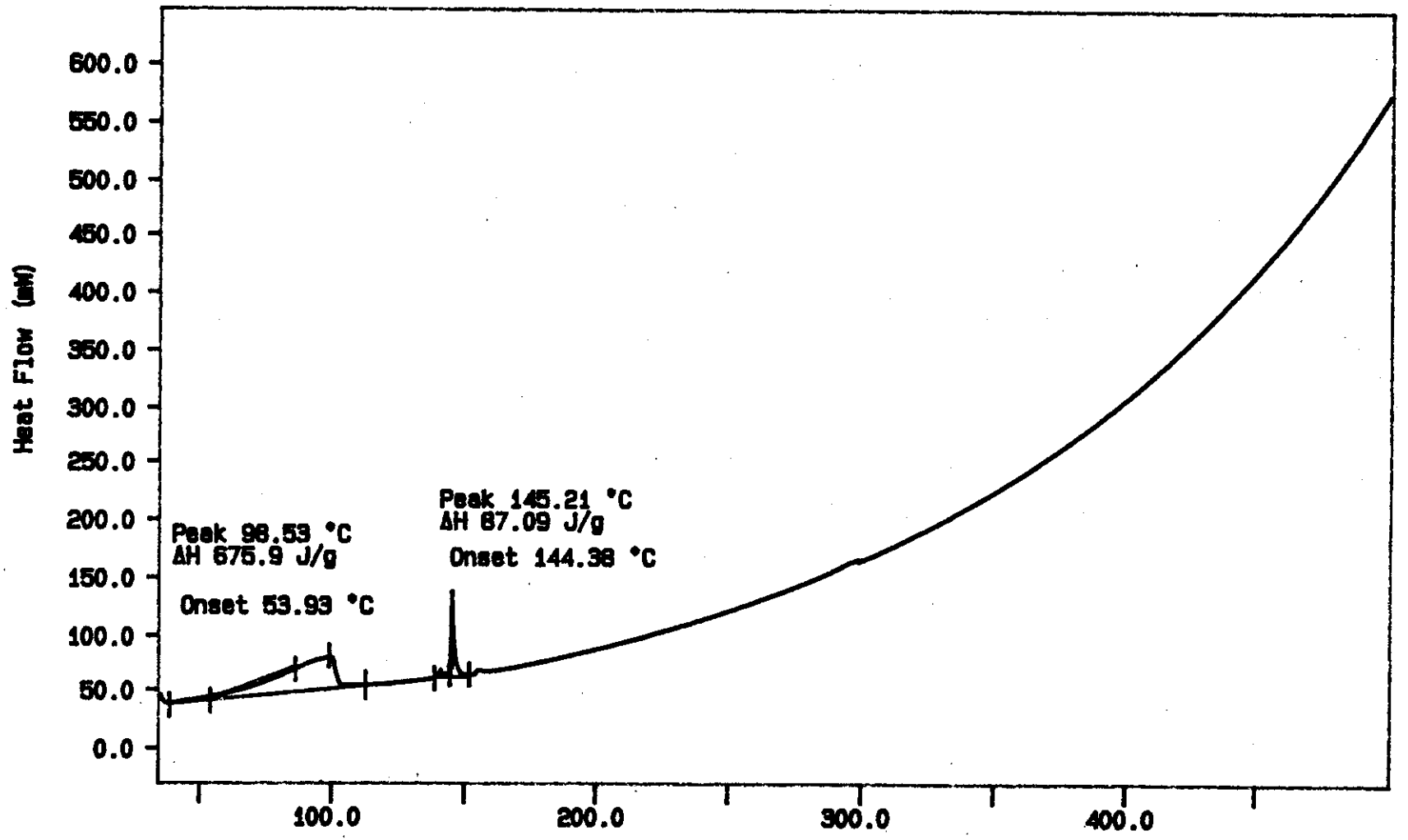


N2, EXOTHERM DOWN
TEMP1: 140.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 180.0 C

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Sat Apr 27 16:35:20 1996

WHC-SD-WM-DP-140, REV. 1

Curve 1: DSC
File info: SAM042704 Sat Apr 27 23:09:12 1996
Sample Weight: 6.420 mg
S96T001227

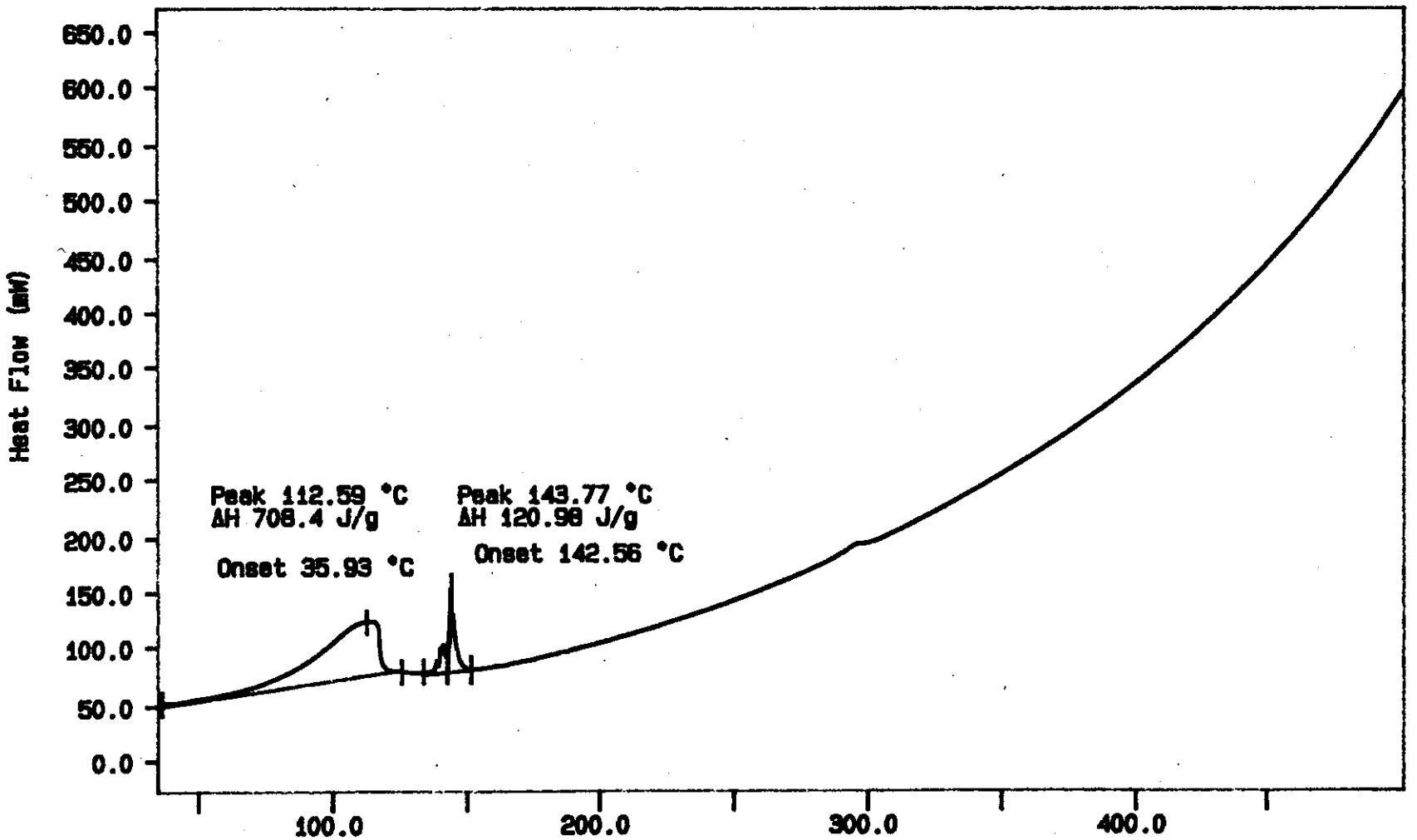


exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 650.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Apr 28 00:44:48 1996

WHC-SD-WM-DP-[illegible], REV. 1

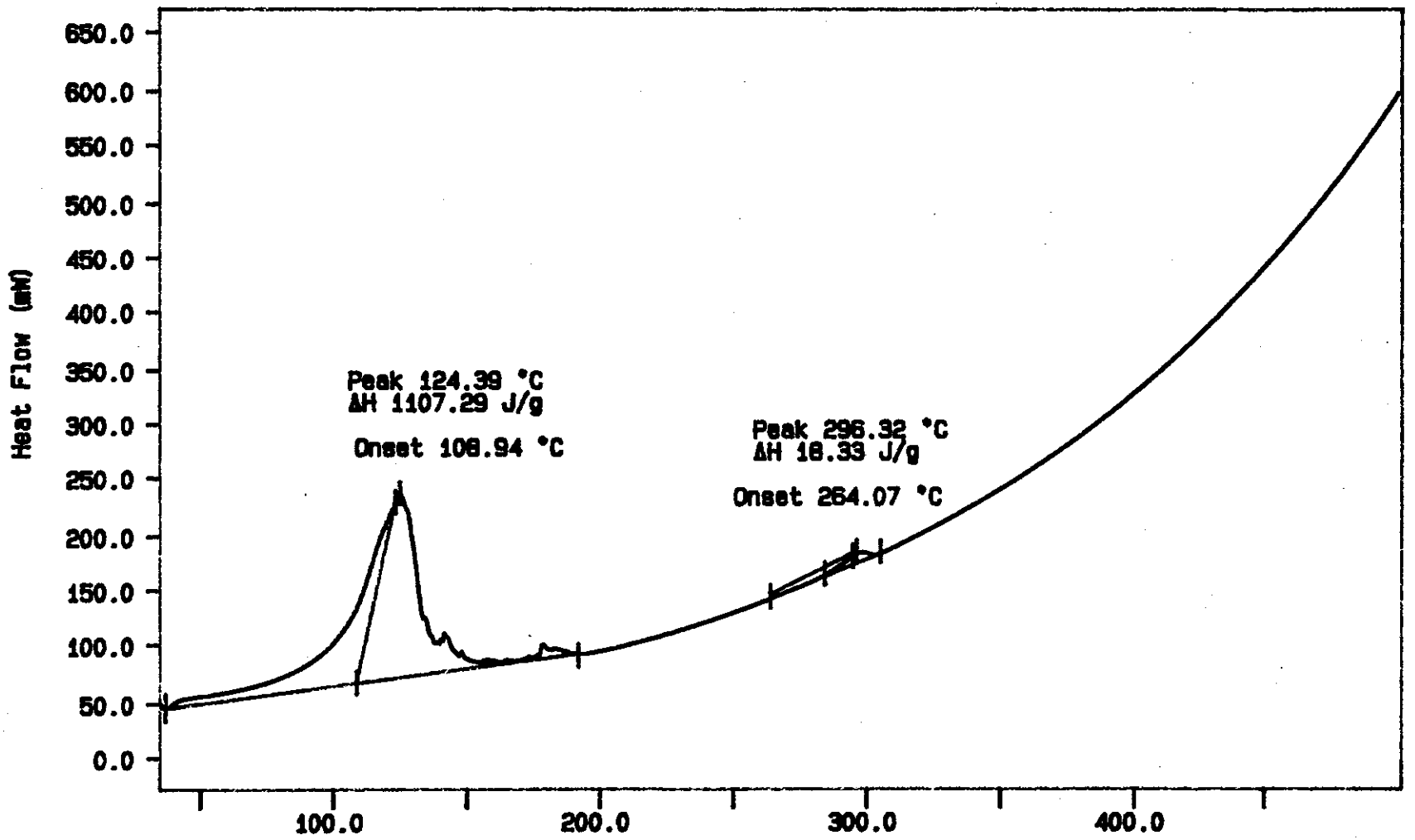
Curve 1: DSC
File info: SAM042705 Sun Apr 28 01:24:52 1996
Sample Weight: 11.550 mg
S96T001227 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 650.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Apr 28 02:00:36 1996

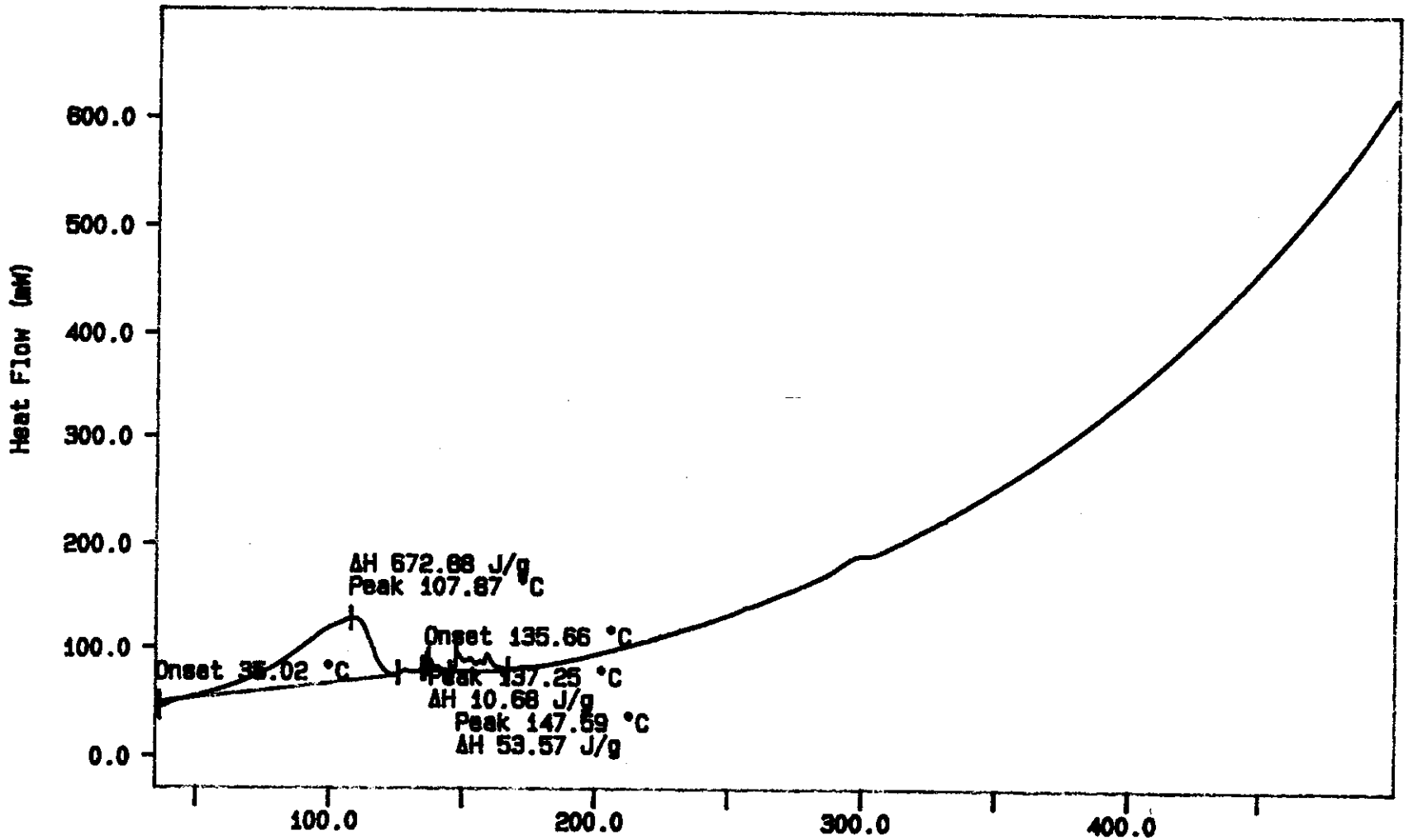
Curve 1: DSC
File info: SAM042706 Sun Apr 28 02:46:33 1996
Sample Weight: 26.230 mg
S96T001644



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Apr 28 03:34:27 1996

Curve 1: DSC
File info: SAM042707 Sun Apr 28 04:20:37 1996
Sample Weight: 17.570 mg
S96T001644 DUP



exotherm down, N2 purge gas
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 400.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Apr 28 05:33:09 1996

LABCORE Data Entry Template for Worklist# 10276

Analyst: BDV **Instrument:** DSC01 **Book #** —

Method: LA-514-113 Rev/Mod —

Worklist Comment: Dry DSC for B-106. bdv

GROUP	PROJECT	S TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000096	B-106	1 SAMPLE	S96T001644	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
95000096	B-106	2 DUP	S96T001644	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry
96000898	B-106	3 SAMPLE	S96T001227	0		DSC-02	SOLID	N/A	Ø		Joules/g Dry
96000898	B-106	4 DUP	S96T001227	0		DSC-02	SOLID	Ø	Ø	N/A	Joules/g Dry

Data entered + validated by **Final page for worklist # 10276**

Blandina Valenzuela

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# 7330

Analyst: SMF **Instrument:** TGA0 3 **Book #** 82N8A

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

Worklist Comment: B-106 FOR TGA PLEASE RUN UNDER N2

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-03	SOLID	59.2	57.99*	N/A	%
95000096	B-106	2	SAMPLE	S96T001227	0		TGA-03	SOLID	N/A	56.82		%
95000096	B-106	3	DUP	S96T001227	0		TGA-03	SOLID	56.82	57.26	N/A	%
95000096	B-106	4	SAMPLE	S96T001644	0		TGA-03	SOLID	N/A 57.95	~~58.17~~ 57.95 5-3-96 BDV		%
95000096	B-106	5	DUP	S96T001644	0		TGA-03	SOLID	~~58.17~~ 5-3-96 BDV	58.17	N/A	%

Final page for worklist # 7330

See attached for signatures
Analyst Signature **Date** 5-3-96 BDV

Analyst Signature **Date** 5-4-96

Verified by H Anastas 5-6-96

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 7330

Analyst: SMF **Instrument:** TGA0 _____ **Book #** 82N87

Method: LA-560-112 Rev/Mod _____

Worklist Comment: B-106 FOR TGA PLEASE RUN UNDER N2

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	STD				TGA-01	SOLID			N/A	%
95000096	B-106	2	SAMPLE	S96T001227	0		TGA-01	SOLID	N/A			%
95000096	B-106	3	DUP	S96T001227	0		TGA-01	SOLID			N/A	%
95000096	B-106	4	SAMPLE	S96T001644	0		TGA-01	SOLID	N/A			%
95000096	B-106	5	DUP	S96T001644	0		TGA-01	SOLID			N/A	%

Final page for worklist # 7330

Susie M. Dulton 4-27-96
Analyst Signature **Date**

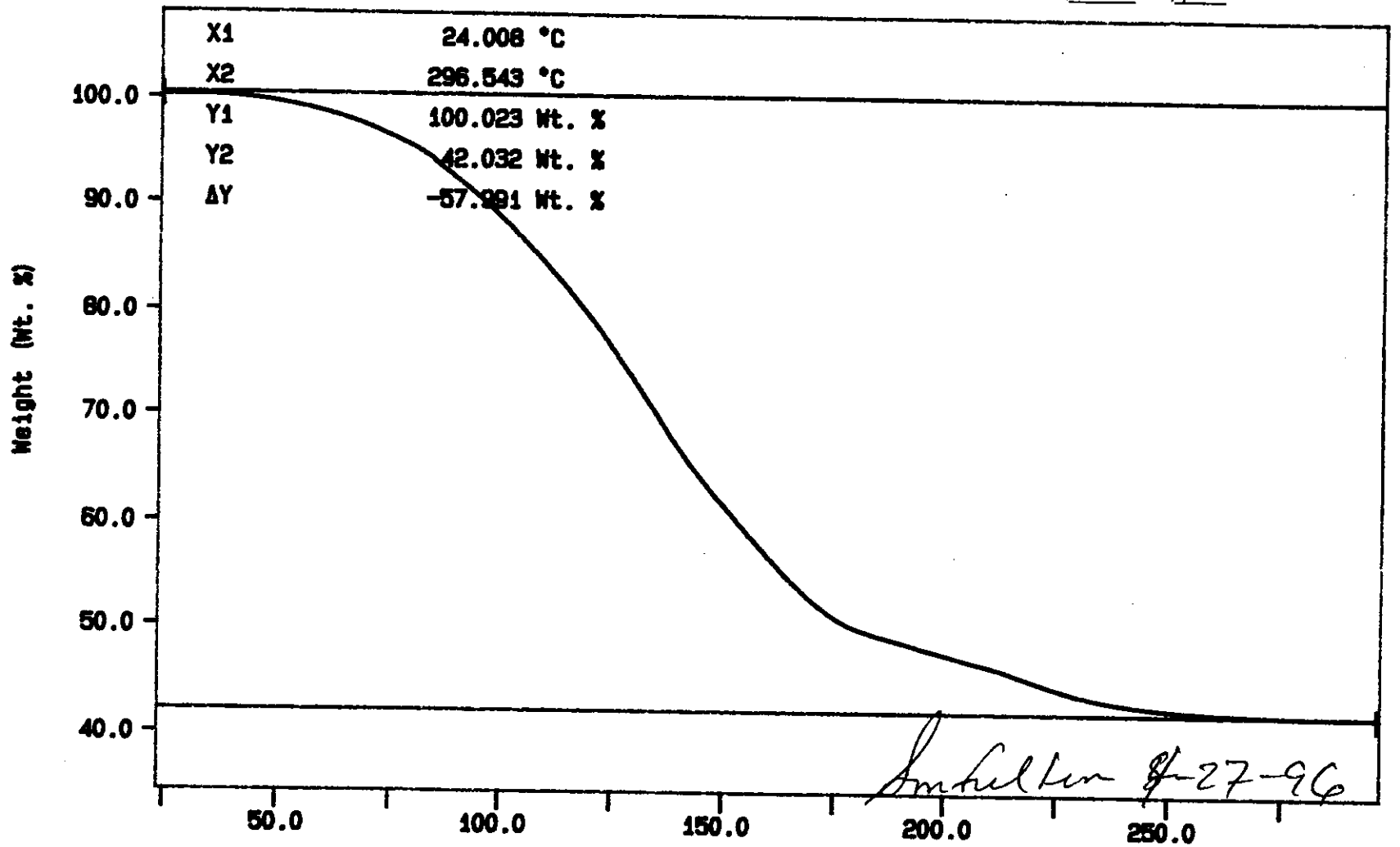
_____
Analyst Signature **Date**

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: TGA
File info: ter042701 Sat Apr 27 06:56:23 1996
Sample Weight: 18.077 mg
TGA STD 82N8-A

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 108 TO 112.



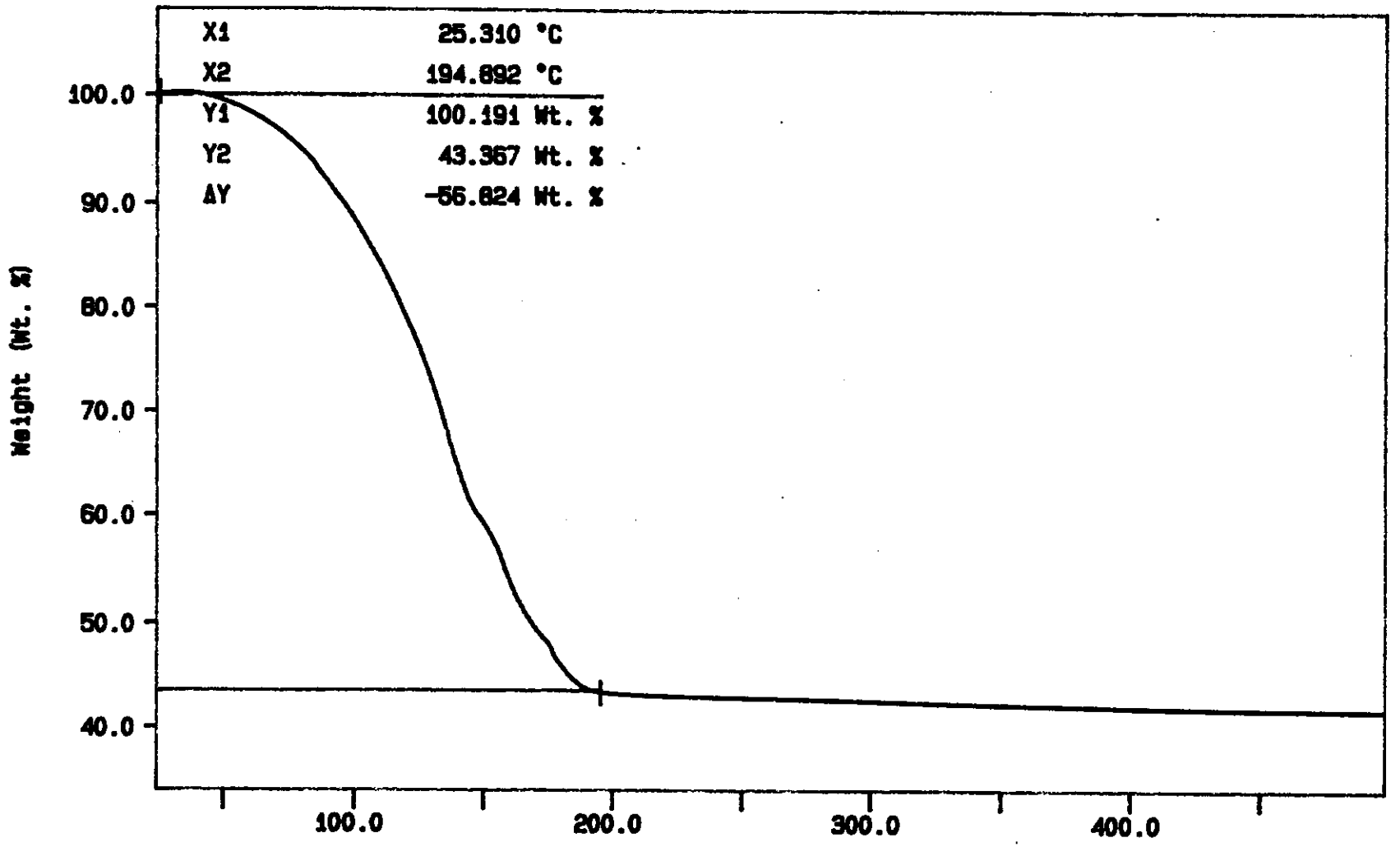
Smfulton 8-27-96

N2 10C/MIN
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 300.0 C

rd meyers
PERKIN-ELMER
7 Series Thermal Analysis System
Sat Apr 27 18:29:54 1996

WHC-SD-WM-DP-140, REV. 1

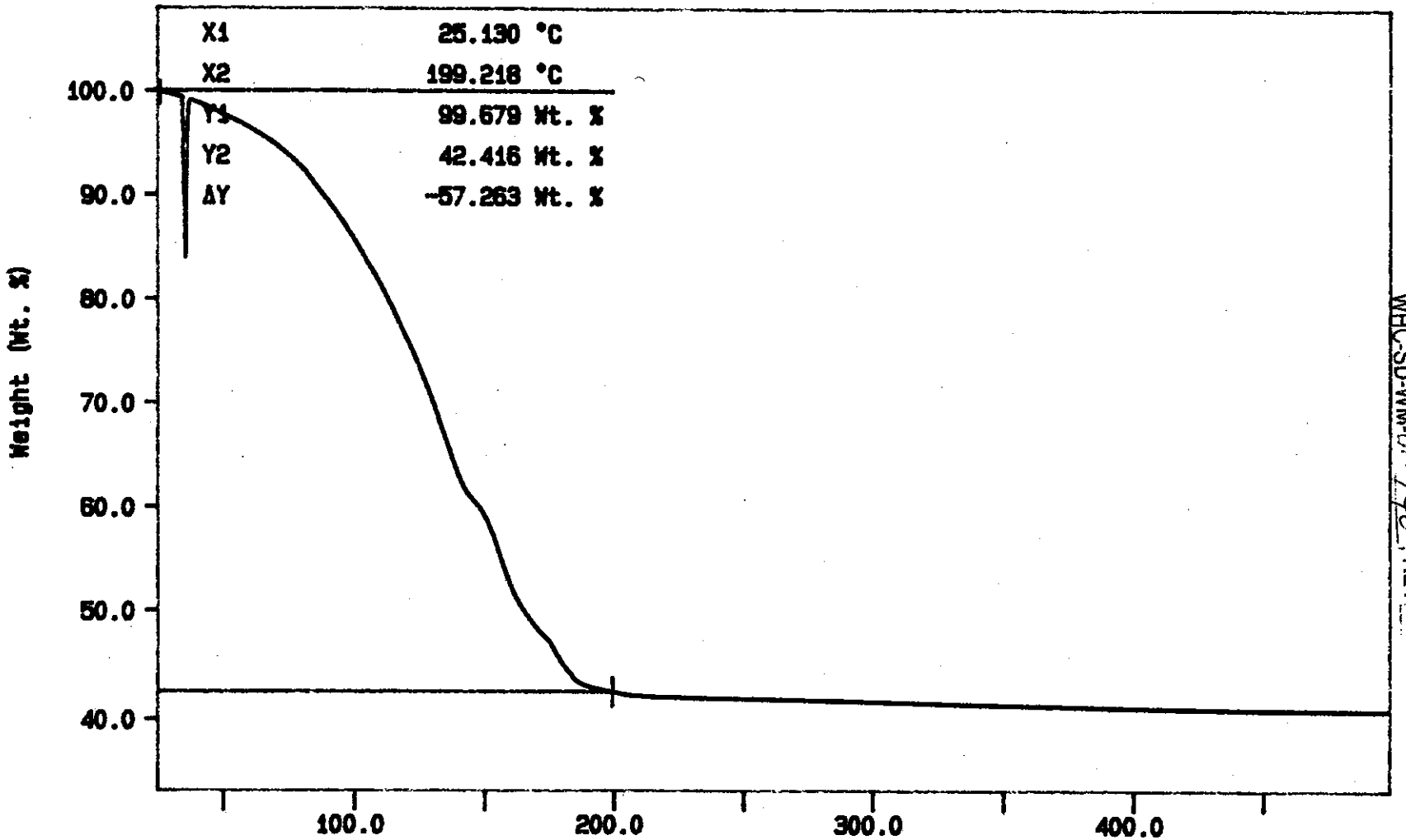
Curve 1: TGA
File info: SAM042705 Sat Apr 27 23:12:24 1996
Sample Weight: 19.985 mg
S96T001227



10C/MIN N2
TEMP: 30.0 C TIME: 0.0 min RATE: 10.0 C/min
TEMP: 400.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Apr 28 00:32:30 1996

Curve 1: TGA
File info: SAM042706 Sun Apr 28 01:27:04 1996
Sample Weight: 19.316 mg
S96T001227 DUP

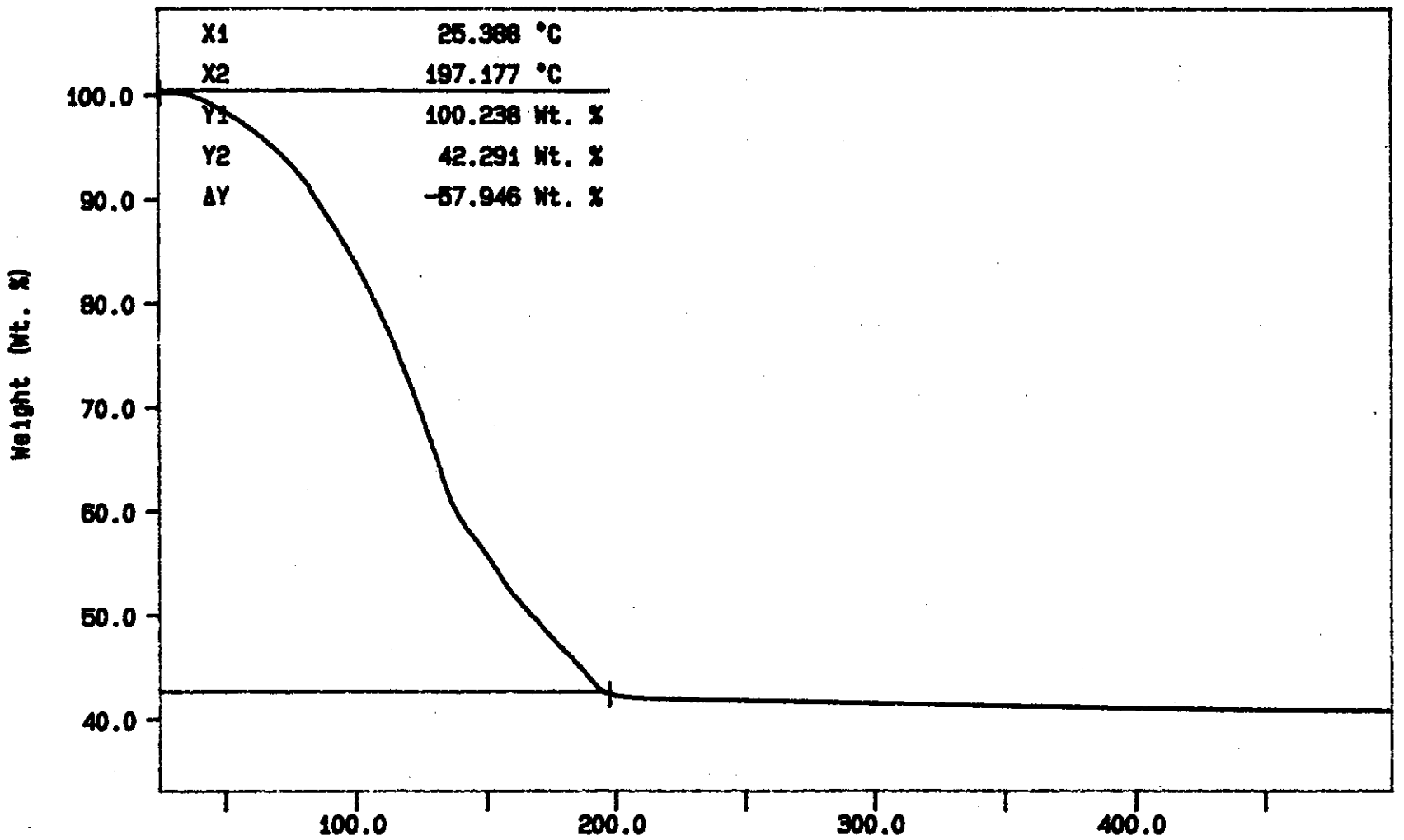


10C/MIN N2
TEMP1: 25.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 500.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Apr 28 01:54:57 1996

WHC-SD-WM-DP-140, REV 1

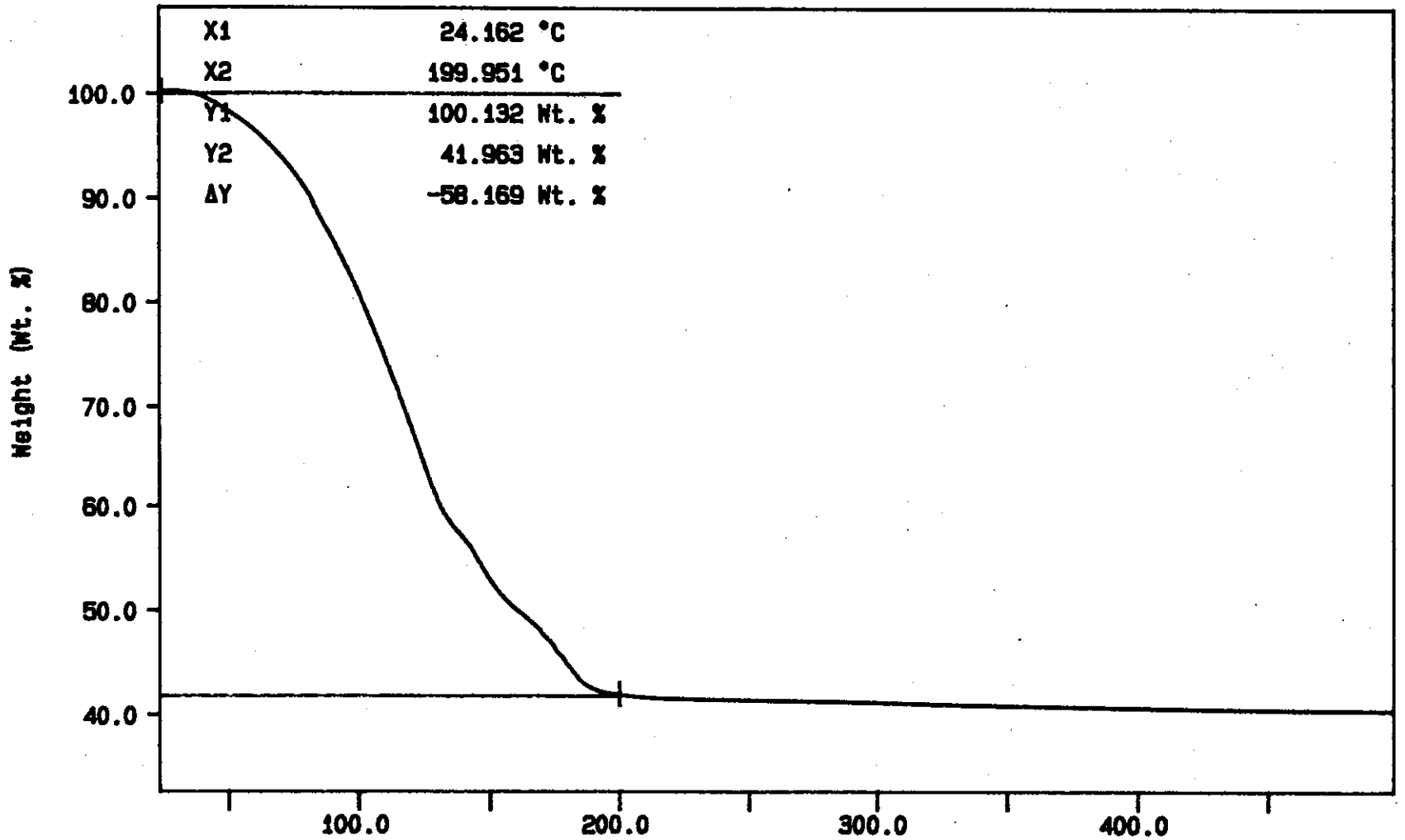
Curve 1: TGA
File info: SAM042707 Sun Apr 28 02:48:59 1996
Sample Weight: 17.309 mg
S96T001644



10C/MIN N2
TEMP1: 35.0 C TIME1: 0.0 min RATE1: 10.0 C/min
TEMP2: 550.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Sun Apr 28 03:27:59 1996

Curve 1: TGA
File info: SAM042708 Sun Apr 28 04:22:38 1996
Sample Weight: 13.516 mg
S96T001644 DUP



10C/MIN N2
TEMP: 35.0 C TIME: 0.0 min RATE: 10.0 C/min
TEMP: 600.0 C

SM FULTON
PERKIN-ELMER
7 Series Thermal Analysis System
Fri May 3 14:59:38 1996

WHC-SD-WM-DP-140, REV. 1

LABCORE Data Entry Template for Worklist# 8327

9605051.D01 → D06

Analyst: KRQ **Instrument:** IC00 IC01 **Book#** 13309F

Method: LA-533-105 **Rev/Mod** D-1

Worklist Comment: B-106 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S96T001646	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02			
5	DUP	S96T001646	0	W	@IC-01	SOLID		
6	SPK	S96T001646	0	W	@IC-01	SOLID		

Final page for worklist # 8327

Jenni Frye for Kathy Quinn

Analyst Signature **Date** 5/4/96 **Analyst Signature** **Date**

Exported 5/7

In shell 5/7 JMF

Uploaded 5/7/96 JMF

Validated 5/7/96 JMF

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-140, REV. 1

LABCORE Completed Worklist Report for Worklist# 8327

Analyst: KRQ **Instrument:** IC01 **Book#** 133109F

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-106 IC. RCJ

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC	1		<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL	QC	1		<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2	QC	1		<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR	QC	1		<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC	1		<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC	1		<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC	1		<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1		<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC	5.90e01		5.81e+01	98.475	% Recovery
2	CCV			0	@IC-QC	CL	QC	7.90e01		7.31e+01	92.532	% Recovery
2	CCV			0	@IC-QC	NO2	QC	5.37e02		5.36e+02	99.814	% Recovery
2	CCV			0	@IC-QC	BR	QC	5.75e02		5.60e+02	97.391	% Recovery
2	CCV			0	@IC-QC	NO3	QC	6.14e02		5.87e+02	95.603	% Recovery
2	CCV			0	@IC-QC	PO4	QC	5.46e02		5.41e+02	99.084	% Recovery
2	CCV			0	@IC-QC	SO4	QC	6.31e02		6.20e+02	98.257	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	5.09e02		5.06e+02	99.411	% 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		2.40e-02	0.024	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	S96T001646	W	0	@IC-01	F-02	SOLID	N/A		4.046e+03	55.900	ug/g
4	SAMPLE	S96T001646	W	0	@IC-01	CL-02	SOLID	N/A		1.230e+03	73.100	ug/g
4	SAMPLE	S96T001646	W	0	@IC-01	NO2-02	SOLID	N/A		7.261e+03	460.100	ug/g
4	SAMPLE	S96T001646	W	0	@IC-01	BR-02	SOLID	N/A	<	5.419e+02	541.800	ug/g
4	SAMPLE	S96T001646	W	0	@IC-01	NO3-02	SOLID	N/A		1.730e+05	601.600	ug/g
4	SAMPLE	S96T001646	W	0	@IC-01	PO4-02	SOLID	N/A		2.703e+04	511.400	ug/g
4	SAMPLE	S96T001646	W	0	@IC-01	SO4-02	SOLID	N/A		1.332e+04	584.400	ug/g
4	SAMPLE	S96T001646	W	0	@IC-01	OXALATE2	SOLID	N/A	<	4.516e+02	451.500	ug/g
5	DUP	S96T001646	W	0	@IC-01	F-02	SOLID	4.05e+03		4.15e+03	2.439	RPD
5	DUP	S96T001646	W	0	@IC-01	CL-02	SOLID	1.23e+03		1.25e+03	1.613	RPD
5	DUP	S96T001646	W	0	@IC-01	NO2-02	SOLID	7.26e+03		7.58e+03	4.313	RPD
5	DUP	S96T001646	W	0	@IC-01	BR-02	SOLID	<5.42e2		<5.20e2		RPD
5	DUP	S96T001646	W	0	@IC-01	NO3-02	SOLID	1.73e+05		1.81e+05	4.520	RPD
5	DUP	S96T001646	W	0	@IC-01	PO4-02	SOLID	2.70e+04		2.80e+04	3.636	RPD
5	DUP	S96T001646	W	0	@IC-01	SO4-02	SOLID	1.33e+04		1.40e+04	5.128	RPD
5	DUP	S96T001646	W	0	@IC-01	OXALATE2	SOLID	<4.52e2		<4.34e2		RPD
6	SPK	S96T001646	W	0	@IC-01	F-02	SOLID	5.90e01		5.91e+01	100.169	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

WHC-SD-WM-DP-140, REV. 1

LABCORE Completed Worklist Report for Worklist# 8327

Seq	Type	Sample#	R	A	Test		Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S96T001646	0	W	@IC-01	CL-02	SOLID	7.90e01	7.04e+01	89.114	% Recovery
6	SPK	S96T001646	0	W	@IC-01	NO2-02	SOLID	5.37e02	5.46e+02	101.676	% Recovery
6	SPK	S96T001646	0	W	@IC-01	BR-02	SOLID	5.75e02	5.46e+02	94.957	% Recovery
6	SPK	S96T001646	0	W	@IC-01	NO3-02	SOLID	6.14e02	6.38e+02	103.909	% Recovery
6	SPK	S96T001646	0	W	@IC-01	PO4-02	SOLID	5.46e02	5.52e+02	101.099	% Recovery
6	SPK	S96T001646	0	W	@IC-01	SO4-02	SOLID	6.31e02	6.26e+02	99.208	% Recovery
6	SPK	S96T001646	0	W	@IC-01	OXALATE2	SOLID	5.09e02	5.02e+02	98.625	% Recovery

Final page for worklist# 8327

Analyst Signature **Date**

Analyst Signature **Date**

Jana M. Faye 5/7/96
Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

Data Reprocessed On 05/07/1996 09:57:18

Sample Name: BLANK	Date: 05/04/1996 16:58:37
Data File : C:\DX\DATA\96050501.d01	WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\AUTOMEL.met	
ACI Address: 1 System: 1 Inject#: 1	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

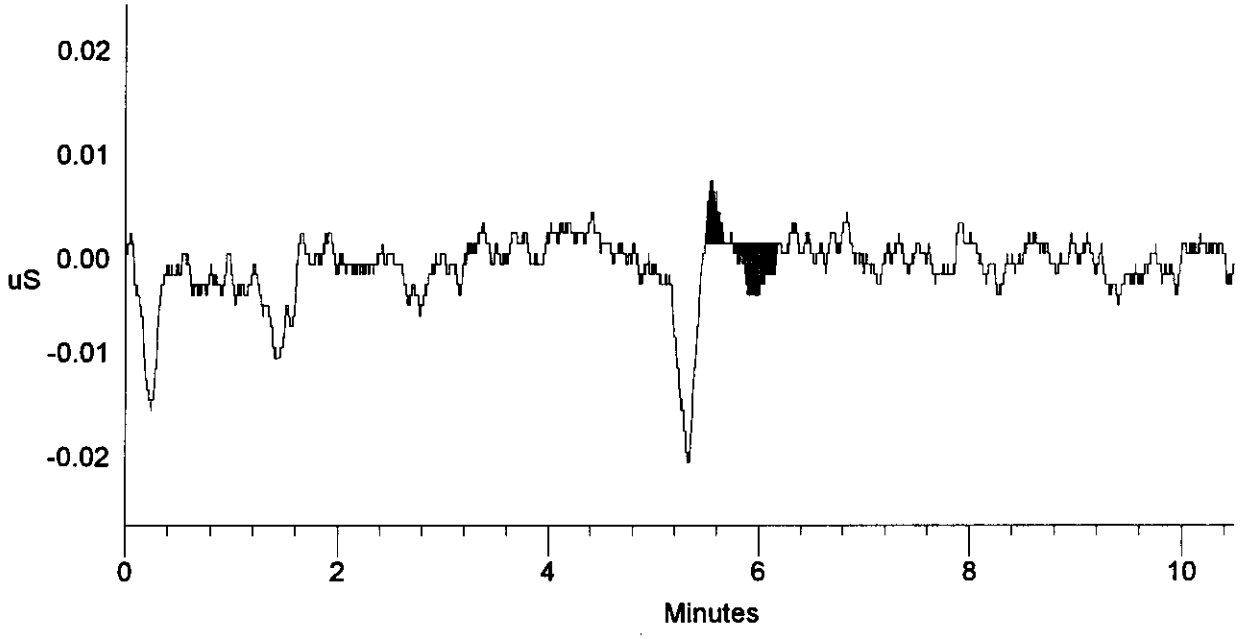
HAnastn for KR Querin 5.21.96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3150	5Hz	0.00	10.50	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: 96050501.d01 Sample: BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 116 TO 121.

Data Reprocessed On 05/07/1996 09:57:20

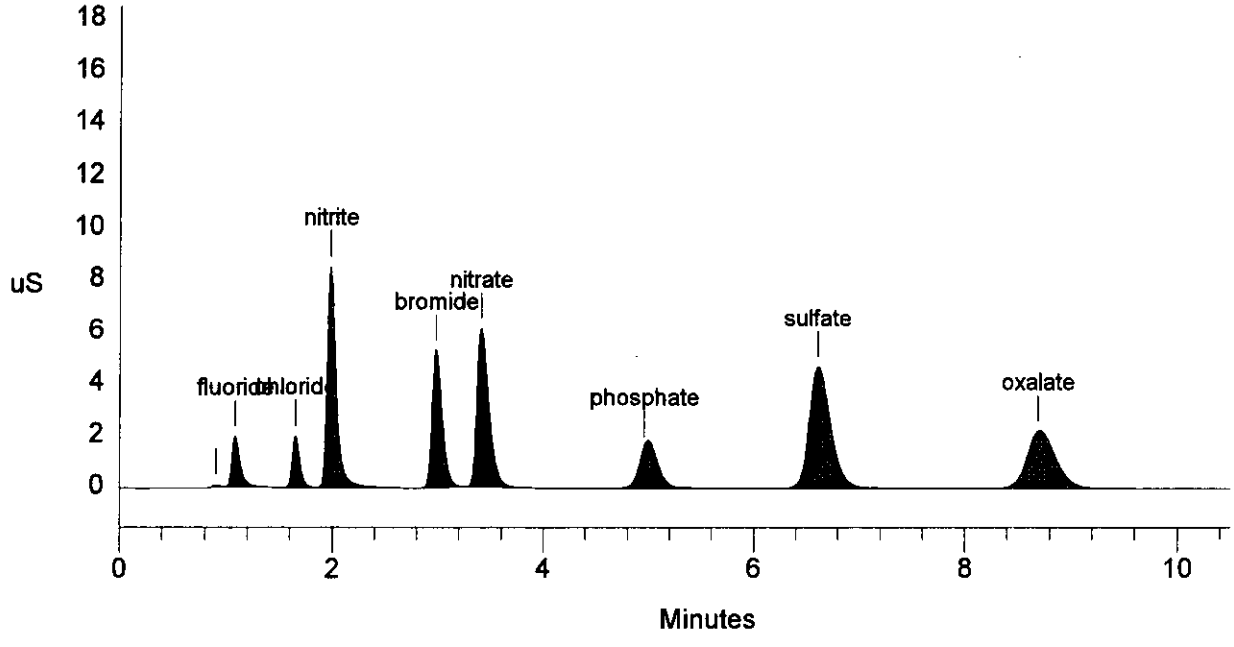
Sample Name: CCV 133N9-F	Date: 05/04/1996 17:11:50
Data File : C:\DX\DATA\96050501.d02	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 2	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3150	5Hz	0.00	10.50		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	77	368	2	
2	1.09	fluoride	58.149	1938	10404	2	1.56
3	1.65	chloride	73.084	1978	9741	1	0.00
4	1.99	nitrite	536.213	8503	49839	1	-1.32
5	2.98	bromide	560.209	5278	34939	1	0.68
6	3.41	nitrate	586.713	6095	47957	1	2.82
7	4.96	phosphate	541.286	1582	22082	1	0.54
8	6.61	sulfate	619.860	4674	66273	1	1.64
9	8.69	oxalate	505.935	2216	42327	1	1.88
		Totals	3481.449	32342	283929		

File: 96050501.d02 Sample: CCV 133N9-F



Data Reprocessed On 05/07/1996 09:57:22

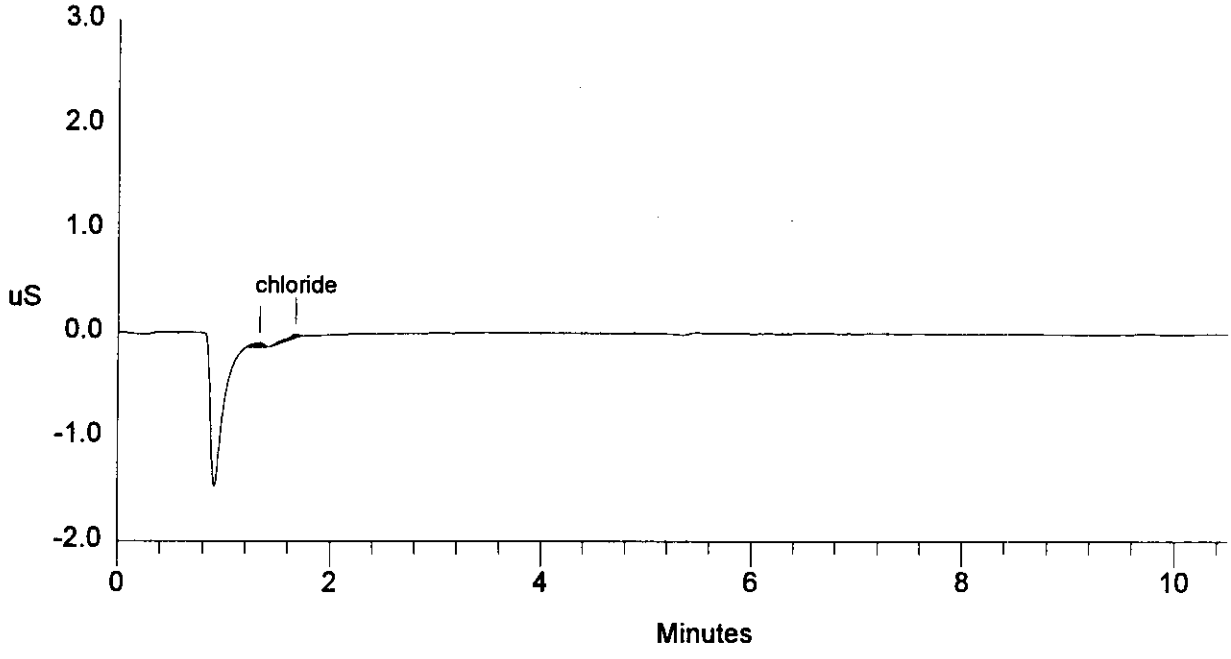
Sample Name: PREP-BLANK	Date: 05/04/1996 17:25:01
Data File : C:\DX\DATA\96050501.d03	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 3	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.33		0.000	40	291	1	
2	1.67	chloride	0.024	32	316	1	1.21
		Totals	0.024	72	607		

File: 96050501.d03 Sample: PREP-BLANK



Data Reprocessed On 05/07/1996 09:57:24

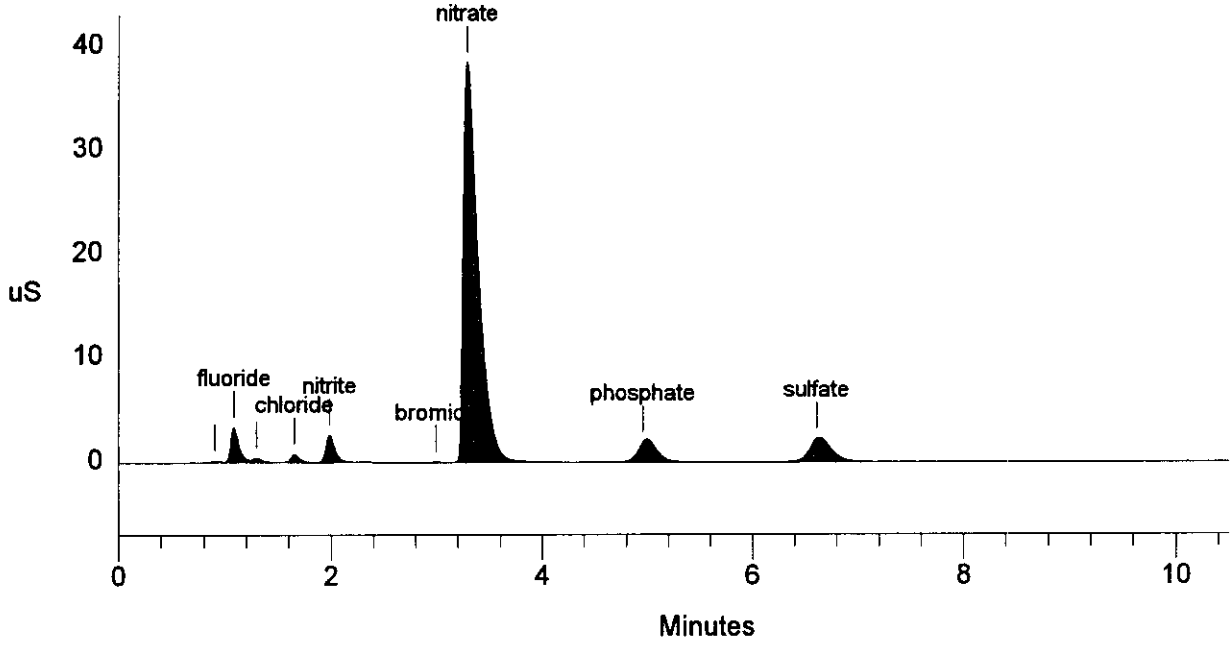
Sample Name: S96T001646 SAM	Date: 05/04/1996 17:38:13
Data File : C:\DX\DATA\96050501.d04	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 4	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3150	5Hz	0.00	10.50		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	82	405	2	
2	1.09	fluoride	19.759	3294	17423	3	1.56
3	1.30		0.000	344	1876	4	
4	1.65	chloride	6.006	756	3819	1	0.00
5	1.99	nitrite	35.454	2581	15103	1	-1.32
6	2.99	bromide	2.465	30	153	1	1.13
7	3.29	nitrate	844.689	38460	375109	1	-0.80
8	4.96	phosphate	132.011	1873	26008	1	0.54
9	6.61	sulfate	65.031	2205	32800	1	1.64
		Totals	1105.414	49623	472696		

File: 96050501.d04 Sample: S96T001646 SAM



Data Reprocessed On 05/07/1996 09:57:26

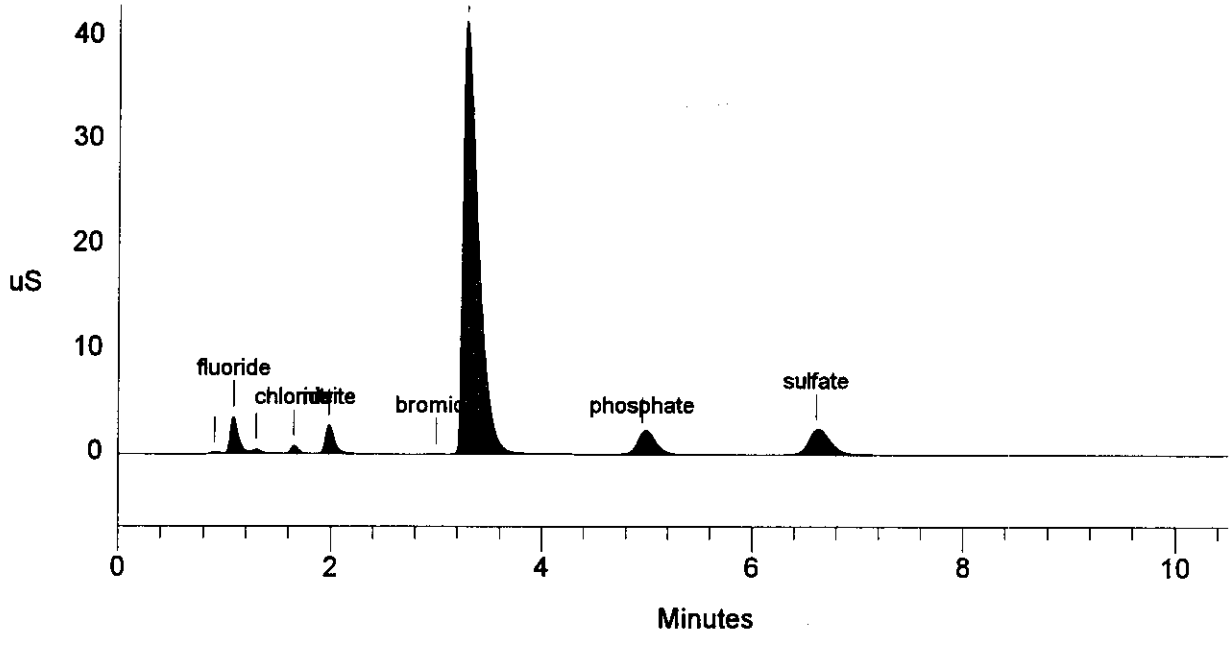
Sample Name: S96T001646 DUP	Date: 05/04/1996 17:51:27
Data File : C:\DX\DATA\96050501.d05	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 5	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	3150	5Hz	0.00	10.50	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	90	445	2	
2	1.09	fluoride	21.080	3540	18651	3	1.56
3	1.30		0.000	372	1954	4	
4	1.65	chloride	6.338	803	4032	1	0.00
5	1.99	nitrite	38.550	2806	16507	1	-1.32
6	3.00	bromide	2.579	34	188	1	1.35
7	3.28	nitrate	919.067	41513	413483	1	-1.01
8	4.96	phosphate	142.308	2078	28095	1	0.54
9	6.61	sulfate	71.220	2446	36017	1	1.64
		Totals	1201.143	53683	519371		

File: 96050501.d05 Sample: S96T001646 DUP



Data Reprocessed On 05/07/1996 09:57:29

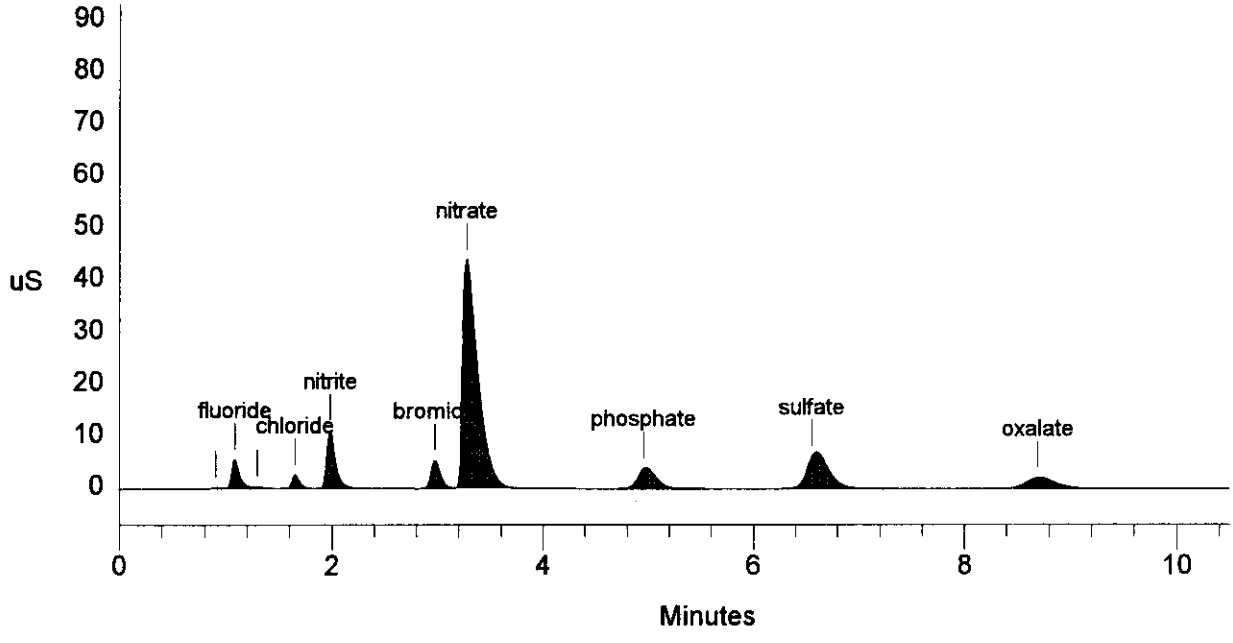
Sample Name: S96T001646 SPK Date: 05/04/1996 18:04:38
Data File : C:\DX\DATA\96050501.d06
Method : C:\DX\METHOD\AUTOMEL.met WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 6 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3150	5Hz	0.00	10.50		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	148	718	2	
2	1.09	fluoride	31.587	5517	28630	3	1.56
3	1.30		0.000	352	2013	4	
4	1.65	chloride	20.095	2639	12938	1	0.00
5	1.99	nitrite	144.691	11117	65181	1	-1.32
6	2.97	bromide	109.285	5364	32706	1	0.45
7	3.27	nitrate	972.298	43837	441663	1	-1.21
8	4.96	phosphate	242.315	3954	48766	1	0.54
9	6.56	sulfate	190.223	6215	99043	1	0.82
10	8.69	oxalate	100.350	2111	40342	1	1.88
		Totals	1810.846	81253	771998		

File: 96050501.d06 Sample: S96T001646 SPK



05/16/96 07:12
A-0004-1

WHC-SD-WM-DP-140, REV. 1

LABCORE Data Entry Template for Worklist# 8754

Analyst: EAL **Instrument:** IC00 IC01 **Book#** 136N9-A

Method: LA-533-105 **Rev/Mod** D-1

Worklist Comment: B-106 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
	Blank Preps (fixed)							
3	SAMPLE	S96T001200	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
4	DUP	S96T001200	0	W	@IC-01	SOLID		
5	SPK	S96T001200	0	W	@IC-01	SOLID		
6	SAMPLE	S96T001216	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
7	DUP	S96T001216	0	W	@IC-01	SOLID		

Final page for worklist # 8754

A Lambel 5.22.96
Analyst Signature **Date**

Analyst Signature **Date**

Exported ~~8754 mag.csv~~ JMF 5/23/96 8754myl.CSV

In shell 5/23/96 JMF

Uploaded 5/24/96 NDS

Data Entry Comments: 96052201.D01 → D09

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 8754

Analyst: eal **Instrument:** IC01 **Book#** 136N9-A

Method: IA-533-105 Rev/Mod D-1

Worklist Comment: B-106 IC. RCJ

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC	1		<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL	QC	1		<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2	QC	1		<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR	QC	1		<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC	1		<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC	1		<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC	1		<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1		<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC	5.90e01		5.90e+01	100.000	% Recovery
2	CCV			0	@IC-QC	CL	QC	7.90e01		7.31e+01	92.532	% Recovery
2	CCV			0	@IC-QC	NO2	QC	5.48e02		5.30e+02	96.715	% Recovery
2	CCV			0	@IC-QC	BR	QC	5.75e02		5.68e+02	98.783	% Recovery
2	CCV			0	@IC-QC	NO3	QC	6.14e02		5.91e+02	96.254	% Recovery
2	CCV			0	@IC-QC	PO4	QC	5.46e02		5.31e+02	97.253	% Recovery
2	CCV			0	@IC-QC	SO4	QC	6.31e02		6.17e+02	97.781	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	5.15e02		5.11e+02	99.223	% 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	S96T001200	W	0	@IC-01	F-02	SOLID	N/A		7.192e+02	105.000	ug/g
4	SAMPLE	S96T001200	W	0	@IC-01	CL-02	SOLID	N/A	<	1.373e+02	137.300	ug/g
4	SAMPLE	S96T001200	W	0	@IC-01	NO2-02	SOLID	N/A	<	8.639e+02	863.900	ug/g
4	SAMPLE	S96T001200	W	0	@IC-01	BR-02	SOLID	N/A	<	1.017e+03	1017.000	ug/g
4	SAMPLE	S96T001200	W	0	@IC-01	NO3-02	SOLID	N/A		1.840e+05	1130.000	ug/g
4	SAMPLE	S96T001200	W	0	@IC-01	PO4-02	SOLID	N/A		4.305e+04	959.800	ug/g
4	SAMPLE	S96T001200	W	0	@IC-01	SO4-02	SOLID	N/A		1.437e+04	1097.000	ug/g
4	SAMPLE	S96T001200	W	0	@IC-01	OXALATE2	SOLID	N/A	<	8.478e+02	847.900	ug/g
5	DUP	S96T001200	W	0	@IC-01	F-02	SOLID	7.19e+02		9.81e+02	30.824	RPD
5	DUP	S96T001200	W	0	@IC-01	CL-02	SOLID	<1.37e2		4.67e+03		RPD
5	DUP	S96T001200	W	0	@IC-01	NO2-02	SOLID	<8.64e2		1.35e+04		RPD
5	DUP	S96T001200	W	0	@IC-01	BR-02	SOLID	<1.02e3		<1.02e3		RPD
5	DUP	S96T001200	W	0	@IC-01	NO3-02	SOLID	1.84e+05		2.96e+05	46.667	RPD
5	DUP	S96T001200	W	0	@IC-01	PO4-02	SOLID	4.30e+04		5.95e+04	32.195	RPD
5	DUP	S96T001200	W	0	@IC-01	SO4-02	SOLID	1.44e+04		2.20e+04	41.758	RPD
5	DUP	S96T001200	W	0	@IC-01	OXALATE2	SOLID	<8.48e2		<8.53e2		RPD
6	SPK	S96T001200	W	0	@IC-01	F-02	SOLID	5.90e01		5.86e+01	99.322	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 8754

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
6	SPK	S96T001200	0	W	@IC-01	CL-02	SOLID	7.90e01		8.99e+01	113.797	% Recovery
6	SPK	S96T001200	0	W	@IC-01	NO2-02	SOLID	5.48e02		6.45e+02	117.701	% Recovery
6	SPK	S96T001200	0	W	@IC-01	BR-02	SOLID	5.75e02		5.56e+02	96.696	% Recovery
6	SPK	S96T001200	0	W	@IC-01	NO3-02	SOLID	6.14e02		6.41e+02	104.397	% Recovery
6	SPK	S96T001200	0	W	@IC-01	PO4-02	SOLID	5.46e02		5.47e+02	100.183	% Recovery
6	SPK	S96T001200	0	W	@IC-01	SO4-02	SOLID	6.31e02		6.12e+02	96.989	% Recovery
6	SPK	S96T001200	0	W	@IC-01	OXALATE2	SOLID	5.15e02		5.12e+02	99.417	% Recovery
7	SAMPLE	S96T001216	0	W	@IC-01	F-02	SOLID	N/A		8.543e+02	112.400	ug/g
7	SAMPLE	S96T001216	0	W	@IC-01	CL-02	SOLID	N/A		1.368e+03	146.900	ug/g
7	SAMPLE	S96T001216	0	W	@IC-01	NO2-02	SOLID	N/A		8.272e+03	925.000	ug/g
7	SAMPLE	S96T001216	0	W	@IC-01	BR-02	SOLID	N/A	<	1.089e+03	1089.000	ug/g
7	SAMPLE	S96T001216	0	W	@IC-01	NO3-02	SOLID	N/A		1.816e+05	1210.000	ug/g
7	SAMPLE	S96T001216	0	W	@IC-01	PO4-02	SOLID	N/A		2.884e+04	1028.000	ug/g
7	SAMPLE	S96T001216	0	W	@IC-01	SO4-02	SOLID	N/A		1.403e+04	1175.000	ug/g
7	SAMPLE	S96T001216	0	W	@IC-01	OXALATE2	SOLID	N/A	<	9.077e+02	907.700	ug/g
8	DUP	S96T001216	0	W	@IC-01	F-02	SOLID	8.54e+02		9.52e+02	10.853	RPD
8	DUP	S96T001216	0	W	@IC-01	CL-02	SOLID	1.37e+03		1.54e+03	11.684	RPD
8	DUP	S96T001216	0	W	@IC-01	NO2-02	SOLID	8.27e+03		9.23e+03	10.971	RPD
8	DUP	S96T001216	0	W	@IC-01	BR-02	SOLID	<1.09e3		<1.13e3		RPD
8	DUP	S96T001216	0	W	@IC-01	NO3-02	SOLID	1.82e+05		2.07e+05	12.853	RPD
8	DUP	S96T001216	0	W	@IC-01	PO4-02	SOLID	2.88e+04		3.26e+04	12.378	RPD
8	DUP	S96T001216	0	W	@IC-01	SO4-02	SOLID	1.40e+04		1.61e+04	13.953	RPD
8	DUP	S96T001216	0	W	@IC-01	OXALATE2	SOLID	<9.08e2		<9.42e2		RPD

Comments Section:

Comments for sample# S96T001200 **and test** @IC-01 .
Dups are poor. Reprep and rerun are required. nds

Final page for worklist# 8754

Analyst Signature **Date** **Analyst Signature** **Date**

Joel Smith 5/24/96
Reviewer Signature **Date**
Validated 5/24/96

Units shown for QC (BLK/BKG) may not reflect the actual units.

A-0010-IC DATA FILE/WORKLIST RESOLUTION 24-May-96

Worklist#: 8754

	Seq	Type	Sample #
=>	1	CCB	
=>	2	CCV	
=>	3	BLNK-PREP	
=>	4	SAMPLE	S96T001200
=>	5	DUP	S96T001200
=>	6	SPK	S96T001200
=>	7	SAMPLE	S96T001216
=>	8	DUP	S96T001216

Data File: 8754MY1.CSV

Seq#	Data File	Sample Name	Dilution
1	96052201.d01	INST. BLANK	1.00
2	96052201.d02	136N9-A STD.	101.00
3	96052201.d03	PREP BLANK	1.00
4	96052201.d04	S96T001200	41.00
5	96052201.d05	S96T001200 DUP	41.00
	96052201.d06	S96T001200 SPIKE	41.00
6	96052201.d07	S96T001200 SPIKE	41.00
7	96052201.d08	S96T001216	41.00
8	96052201.d09	S96T001216 DUP	41.00

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Data Reprocessed On 05/23/1996 11:26:45

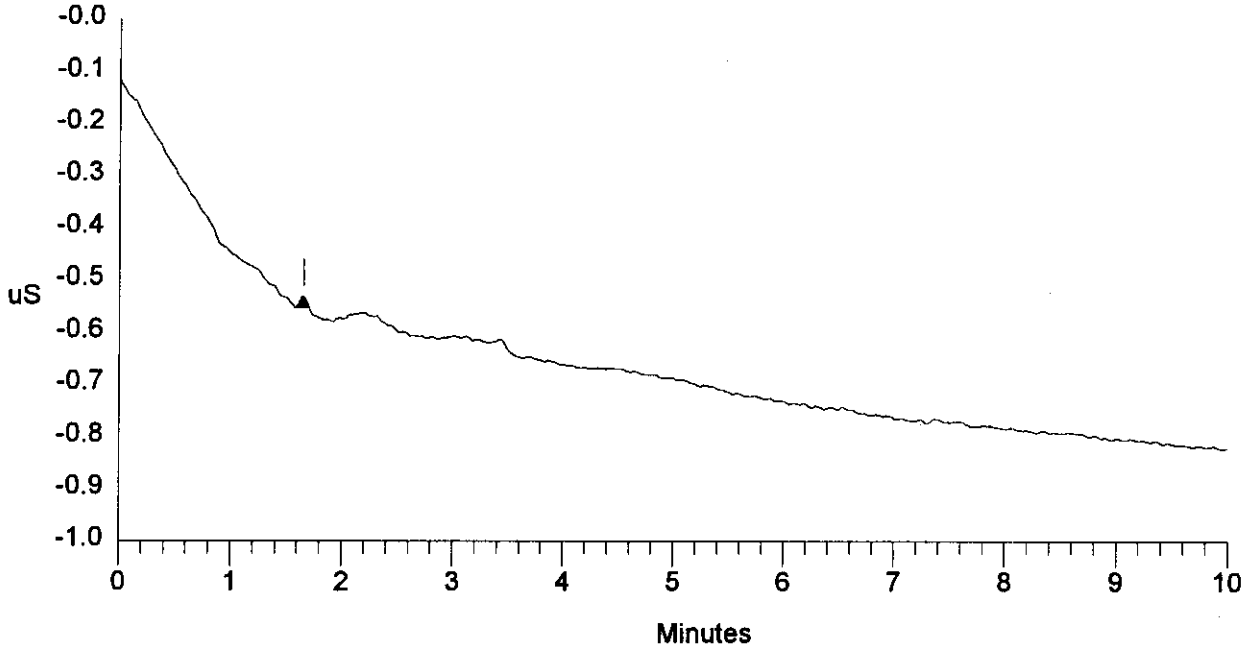
Sample Name: INST. BLANK	Date: 05/22/1996 09:25:46
Data File : C:\DX\DATA\96052201.d01	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140 REV. 1
ACI Address: 1 System: 1 Inject#: 1	~~Detector:~~ CDM-1
Analyst : Y Smith STCM for EAL	Column: AG4A/AS4A anion column

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: 96052201.d01 Sample: INST. BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 126 TO 134. -

Data Reprocessed On 05/23/1996 11:26:49

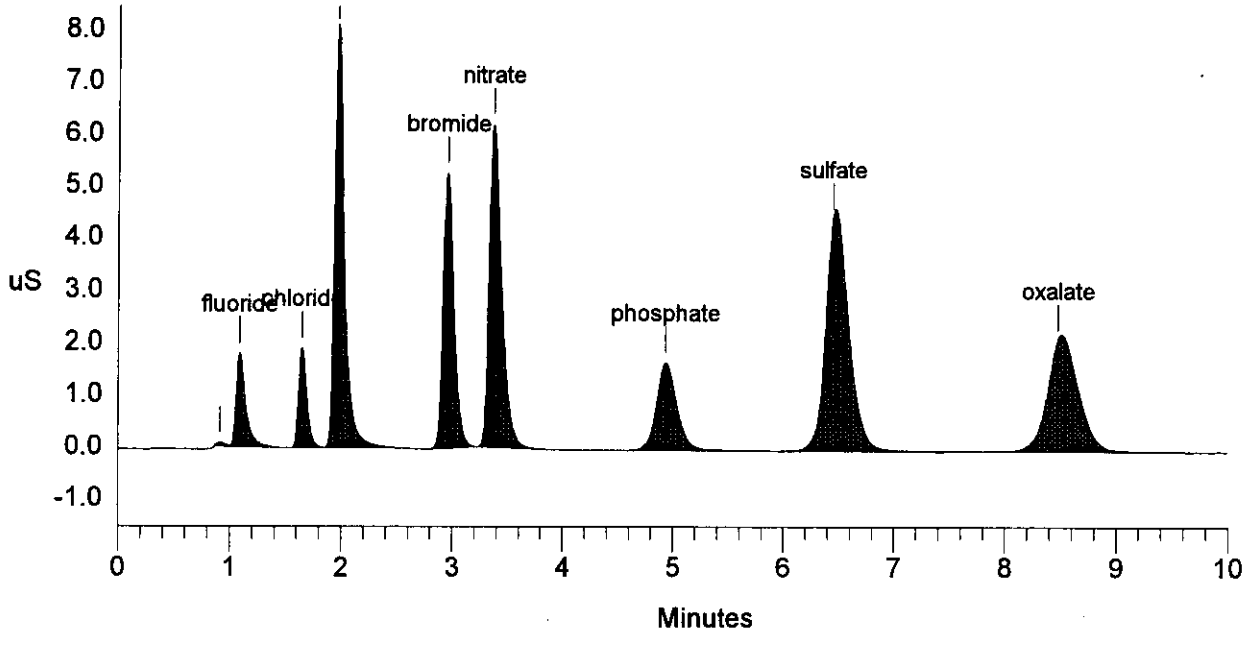
Sample Name: 136N9-A STD. Date: 05/22/1996 09:52:59
Data File : C:\DX\DATA\96052201.d02
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV.1
ACI Address: 1 System: 1 Inject#: 2 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

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	0.91		0.000	75	372	2	
2	1.09	fluoride	58.964	1787	10557	2	1.88
3	1.65	chloride	73.145	1914	9749	1	-0.40
4	1.97	nitrite	529.790	8047	49225	1	-2.32
5	2.96	bromide	568.188	5280	35454	1	0.00
6	3.37	nitrate	591.296	6198	48345	1	1.81
7	4.93	phosphate	531.314	1687	21666	1	0.00
8	6.45	sulfate	617.471	4447	66010	1	-0.82
9	8.48	oxalate	510.538	2133	42719	1	-0.62
		Totals	3480.704	31569	284098		

File: 96052201.d02 Sample: 136N9-A STD.



Data Reprocessed On 05/23/1996 11:26:52

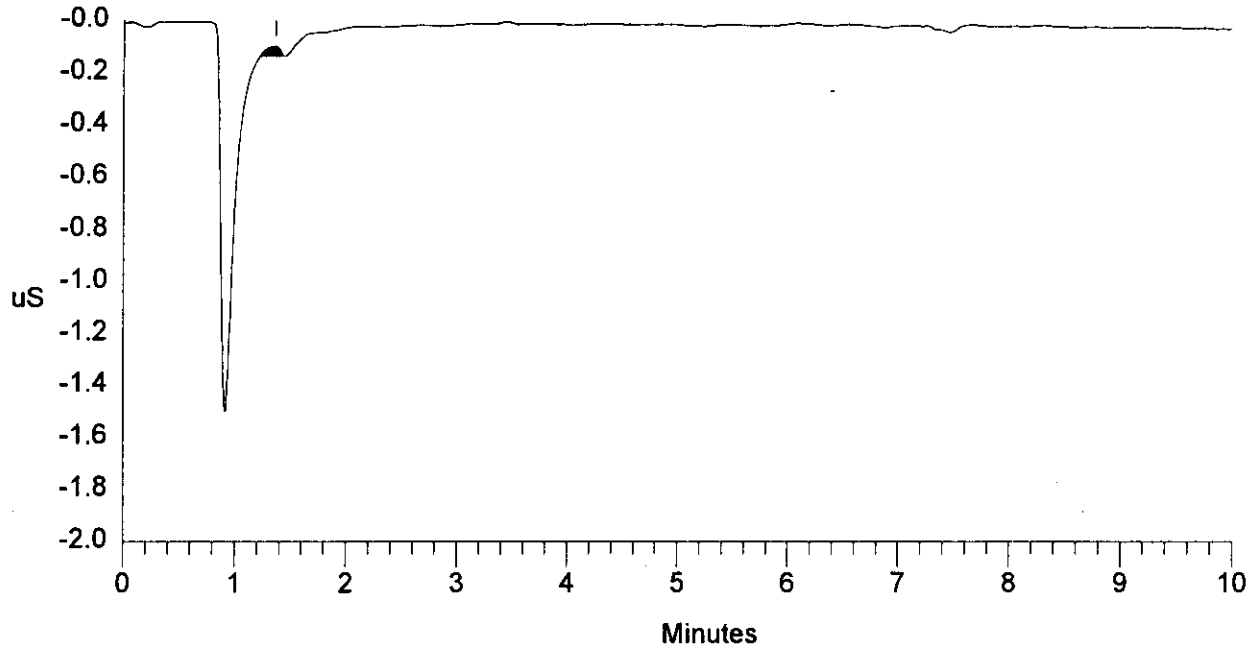
Sample Name: PREP BLANK	Date: 05/22/1996 10:12:40
Data File : C:\DX\DATA\96052201.d03	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 3	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

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	1.36		0.000	39	331	1	
		Totals	0.000	39	331		

File: 96052201.d03 Sample: PREP BLANK



Data Reprocessed On 05/23/1996 11:26:54

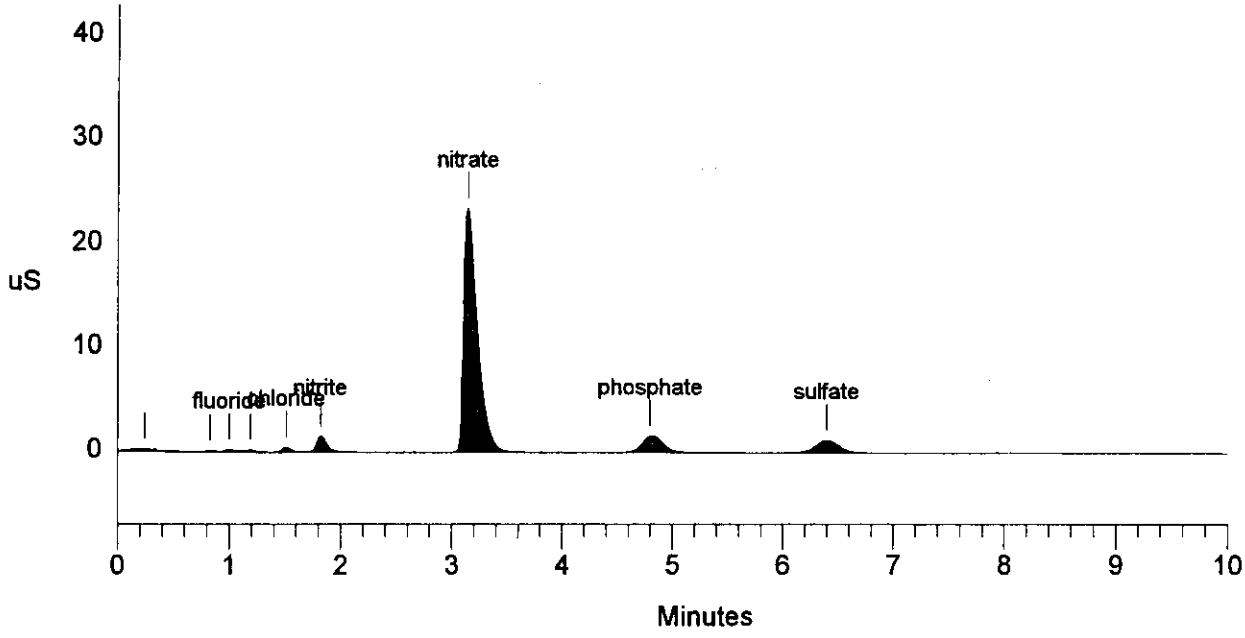
Sample Name: S96T001200 Date: 05/22/1996 13:08:41
Data File : C:\DX\DATA\96052201.d04
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 4 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3000	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	0.24		0.000	213	3455	1	
2	0.83		0.000	62	335	2	
3	1.00	fluoride	3.652	222	1323	2	-6.25
4	1.19		0.000	183	980	2	
5	1.51	chloride	7.461	478	2425	1	0.22
6	1.82	nitrite	45.959	1541	9709	1	0.00
7	3.15	nitrate	934.290	23486	200428	1	-5.03
8	4.80	phosphate	218.630	1632	21969	1	-2.70
9	6.40	sulfate	72.993	1238	18501	1	-1.64
		Totals	1282.984	29056	259124		

File: 96052201.d04 Sample: S96T001200



Data Reprocessed On 05/23/1996 11:26:58

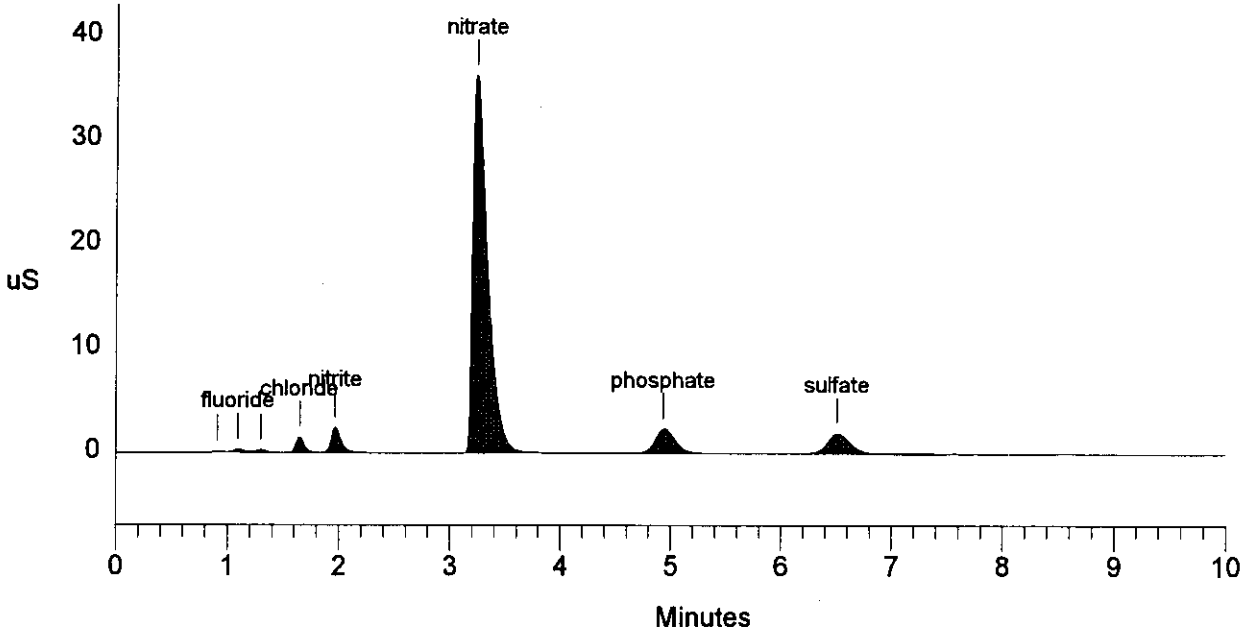
Sample Name: S96T001200 DUP
Date: 05/22/1996 13:19:28
Data File : C:\DX\DATA\96052201.d05
Method : C:\DX\METHOD\KIT.MET
WHC-SD-WM-DP-140, REV.1
ACI Address: 1 System: 1 Inject#: 5
Detector:CDM-1
Analyst :
Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	106	584	2	
2	1.09	fluoride	4.950	299	1905	2	2.50
3	1.30		0.000	279	1686	2	
4	1.65	chloride	23.562	1492	7715	1	-0.40
5	1.97	nitrite	68.233	2412	14874	1	-2.32
6	3.24	nitrate	1495.612	36246	335706	1	-2.21
7	4.93	phosphate	300.150	2340	30420	1	0.00
8	6.51	sulfate	111.023	1938	28565	1	0.00
		Totals	2003.530	45111	421454		

File: 96052201.d05 Sample: S96T001200 DUP



Data Reprocessed On 05/23/1996 11:27:01

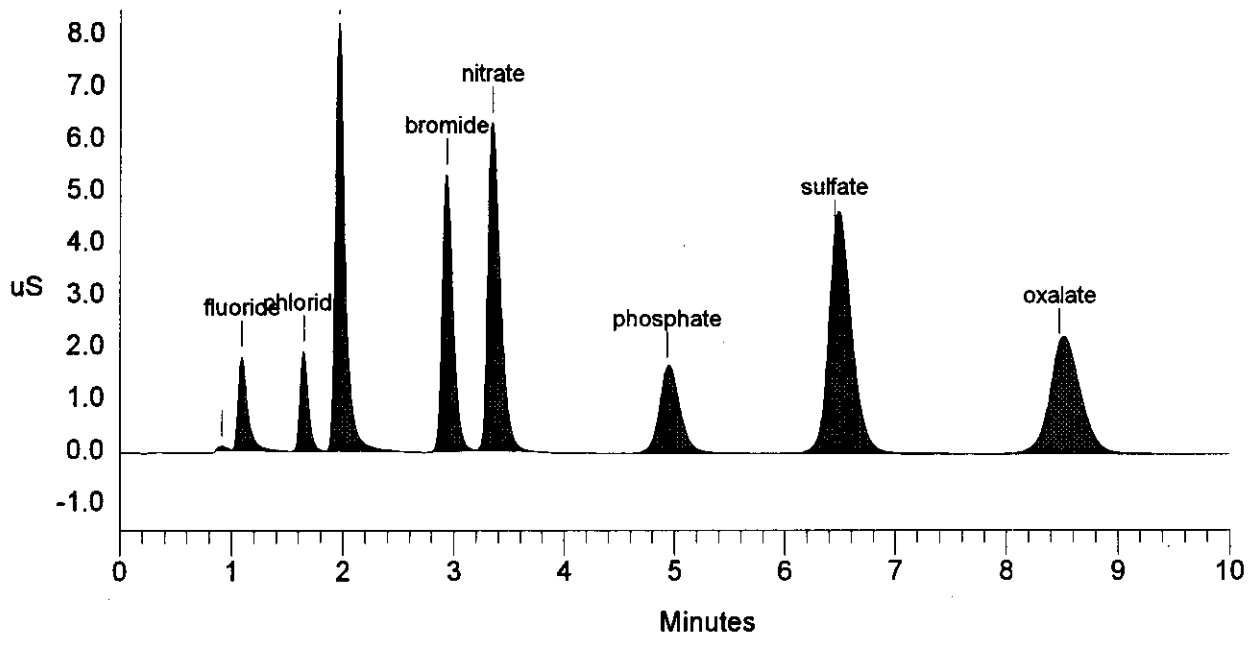
Sample Name: S96T001200 SPIKE Date: 05/22/1996 13:30:14
Data File : C:\DX\DATA\96052201.d06
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 6 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3000	5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	76	379	2	
2	1.09	fluoride	23.649	1791	10424	2	2.50
3	1.65	chloride	29.220	1906	9592	1	-0.40
4	1.97	nitrite	215.595	8217	49350	1	-2.32
5	2.93	bromide	231.079	5328	35523	1	-0.90
6	3.35	nitrate	241.543	6306	48661	1	1.01
7	4.93	phosphate	217.399	1638	21842	1	0.00
8	6.45	sulfate	252.146	4191	66414	1	-0.82
9	8.48	oxalate	207.882	2109	42852	1	-0.62
		Totals	1418.514	31563	285038		

File: 96052201.d06 Sample: S96T001200 SPIKE



Data Reprocessed On 05/23/1996 11:27:03

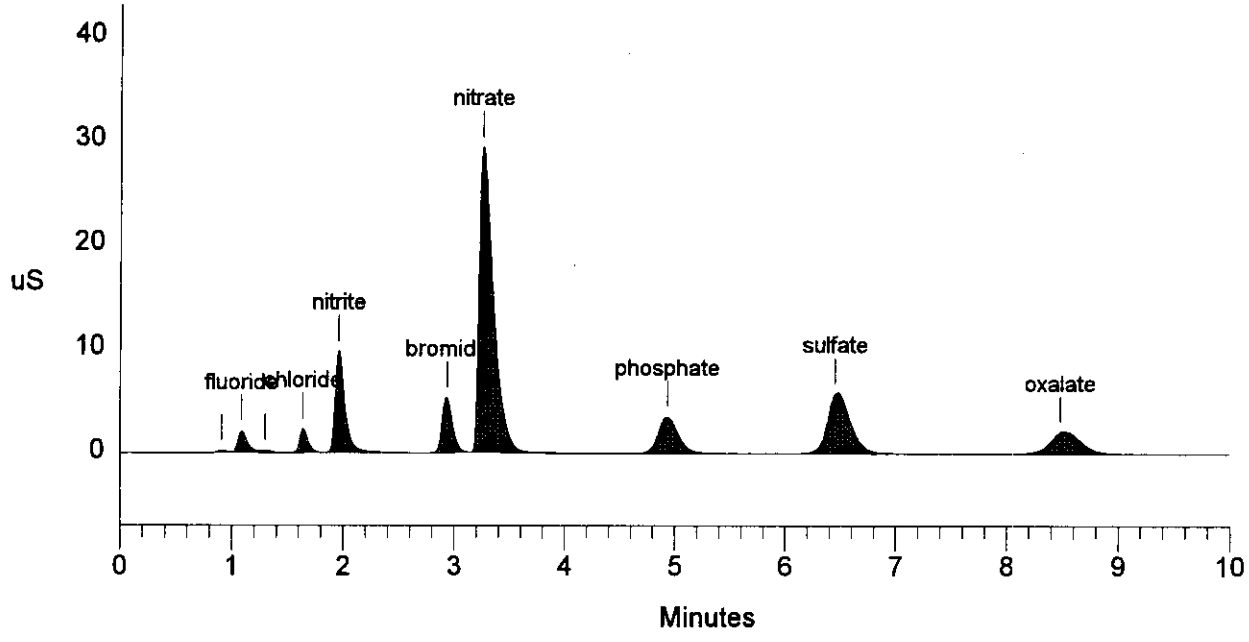
Sample Name: S96T001200 SPIKE
Date: 05/22/1996 13:41:31
Data File : C:\DX\DATA\96052201.d07
Method : C:\DX\METHOD\KIT.MET
WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 7
Detector:CDM-1
Analyst :
Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	137	721	2	
2	1.09	fluoride	27.091	2021	12022	3	1.88
3	1.30		0.000	185	1030	4	
4	1.64	chloride	35.946	2289	11836	1	-0.81
5	1.96	nitrite	258.022	9774	59376	1	-2.65
6	2.93	bromide	222.332	5338	34130	1	-0.90
7	3.26	nitrate	1190.650	29370	260635	1	-1.61
8	4.93	phosphate	437.587	3551	44951	1	0.00
9	6.45	sulfate	317.858	5768	84319	1	-0.82
10	8.48	oxalate	204.880	2077	42222	1	-0.62
		Totals	2694.365	60510	551243		

File: 96052201.d07 Sample: S96T001200 SPIKE



Data Reprocessed On 05/23/1996 11:27:07

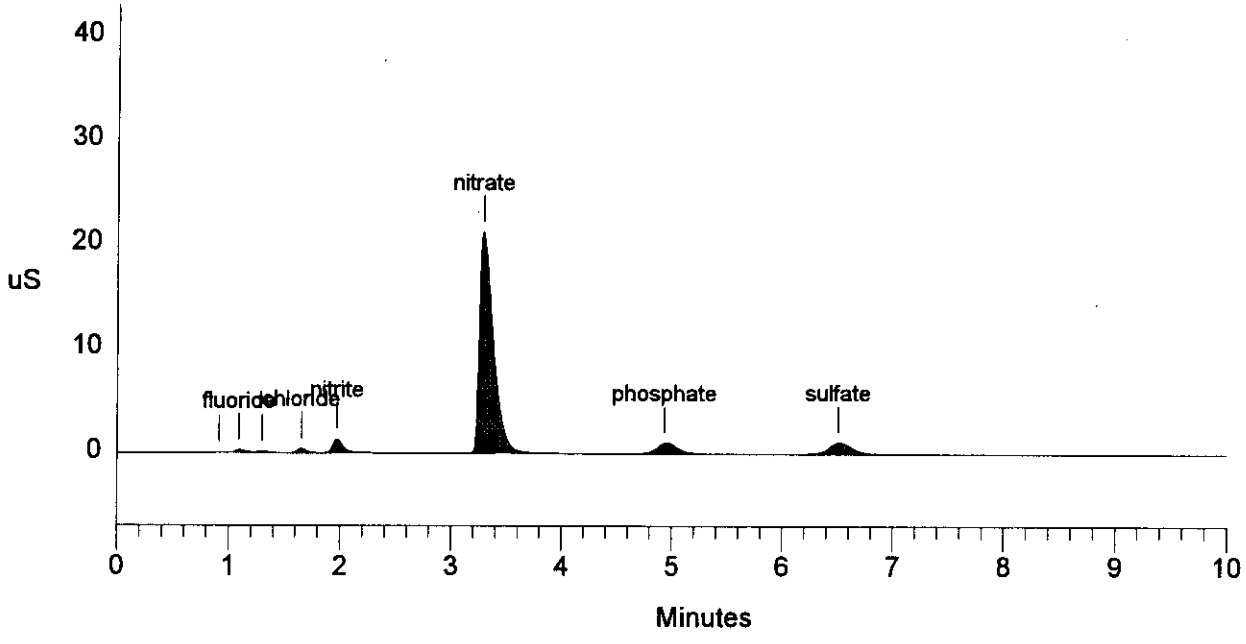
Sample Name: S96T001216 Date: 05/22/1996 13:57:53
Data File : C:\DX\DATA\96052201.d08
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 8 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	42	217	2	
2	1.09	fluoride	4.052	251	1502	2	2.50
3	1.30		0.000	148	808	2	
4	1.65	chloride	6.488	412	2108	1	0.00
5	1.97	nitrite	39.235	1328	8153	1	-1.99
6	3.29	nitrate	861.270	21179	183716	1	-0.60
7	4.93	phosphate	136.776	1011	13603	1	0.00
8	6.51	sulfate	66.532	1099	16797	1	0.00
		Totals	1114.354	25470	226903		

File: 96052201.d08 Sample: S96T001216



Data Reprocessed On 05/23/1996 11:27:09

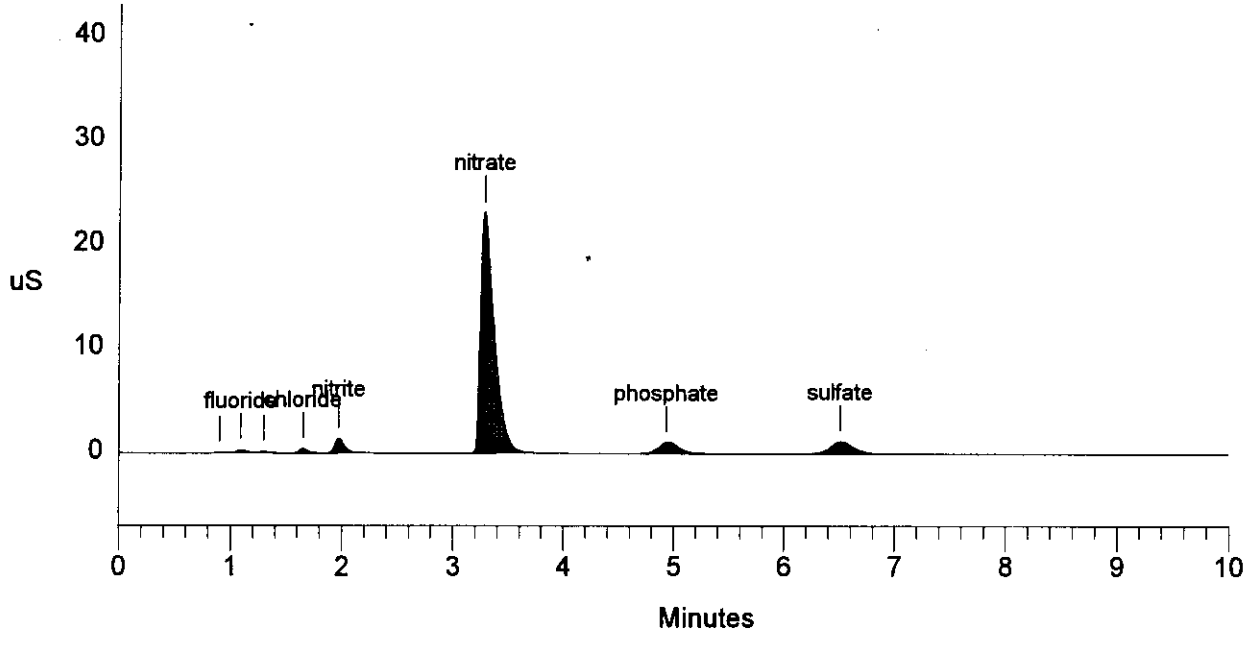
Sample Name: S96T001216 DUP
Date: 05/22/1996 14:11:11
Data File : C:\DX\DATA\96052201.d09
Method : C:\DX\METHOD\KIT.MET
WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 9
Detector:CDM-1
Analyst :
Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3000	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	0.90		0.000	49	256	2	
2	1.09	fluoride	4.350	274	1636	2	2.50
3	1.30		0.000	156	861	2	
4	1.65	chloride	7.046	448	2289	1	0.00
5	1.97	nitrite	42.176	1442	8833	1	-1.99
6	3.29	nitrate	944.808	23178	202851	1	-0.80
7	4.93	phosphate	149.190	1113	14865	1	0.00
8	6.51	sulfate	73.606	1225	18663	1	0.00
		Totals	1221.176	27886	250253		

File: 96052201.d09 Sample: S96T001216 DUP



LABCORE Data Entry Template for Worklist# 8755

Analyst: pjm **Instrument:** IC00 IC01 **Book#** 136N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-106 IC. nds

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	S96T001244	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02			
5	DUP	S96T001244	0	W	@IC-01	SOLID		
6	SAMPLE	S96T001245	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02			
7	DUP	S96T001245	0	W	@IC-01	SOLID		

Final page for worklist # 8755

See Attached for Signatures

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 8755

Analyst: pjm **Instrument:** IC01 **Book#** 136N9A

Method: LA533105 Rev/Mod D-1

Worklist Comment: B-106 IC. nds

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC	1		<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL	QC	1		<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2	QC	1		<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR	QC	1		<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC	1		<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC	1		<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC	1		<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1		<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC	5.90e01		5.92e+01	100.339	% Recovery
2	CCV			0	@IC-QC	CL	QC	7.90e01		7.31e+01	92.532	% Recovery
2	CCV			0	@IC-QC	NO2	QC	5.48e02		5.35e+02	97.628	% Recovery
2	CCV			0	@IC-QC	BR	QC	5.75e02		5.74e+02	99.826	% Recovery
2	CCV			0	@IC-QC	NO3	QC	6.14e02		5.97e+02	97.231	% Recovery
2	CCV			0	@IC-QC	PO4	QC	5.46e02		5.41e+02	99.084	% Recovery
2	CCV			0	@IC-QC	SO4	QC	6.31e02		6.26e+02	99.208	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	5.15e02		5.19e+02	100.777	% 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		2.02e-01	0.202	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	S96T001244	W	0	@IC-01	F-02	SOLID	N/A		1.968e+03	59.140	ug/g
4	SAMPLE	S96T001244	W	0	@IC-01	CL-02	SOLID	N/A		1.402e+03	77.340	ug/g
4	SAMPLE	S96T001244	W	0	@IC-01	NO2-02	SOLID	N/A		8.298e+03	486.800	ug/g
4	SAMPLE	S96T001244	W	0	@IC-01	BR-02	SOLID	N/A	<	5.732e+02	573.300	ug/g
4	SAMPLE	S96T001244	W	0	@IC-01	NO3-02	SOLID	N/A		1.922e+05	636.500	ug/g
4	SAMPLE	S96T001244	W	0	@IC-01	PO4-02	SOLID	N/A		3.004e+04	541.000	ug/g
4	SAMPLE	S96T001244	W	0	@IC-01	SO4-02	SOLID	N/A		1.421e+04	618.200	ug/g
4	SAMPLE	S96T001244	W	0	@IC-01	OXALATE2	SOLID	N/A	<	4.777e+02	477.800	ug/g
5	DUP	S96T001244	W	0	@IC-01	F-02	SOLID	1.97e+03		1.83e+03	7.358	RPD
5	DUP	S96T001244	W	0	@IC-01	CL-02	SOLID	1.40e+03		1.36e+03	2.899	RPD
5	DUP	S96T001244	W	0	@IC-01	NO2-02	SOLID	8.30e+03		7.88e+03	5.192	RPD
5	DUP	S96T001244	W	0	@IC-01	BR-02	SOLID	<5.73e2		<5.76e2		RPD
5	DUP	S96T001244	W	0	@IC-01	NO3-02	SOLID	1.92e+05		1.84e+05	4.255	RPD
5	DUP	S96T001244	W	0	@IC-01	PO4-02	SOLID	3.00e+04		2.81e+04	6.540	RPD
5	DUP	S96T001244	W	0	@IC-01	SO4-02	SOLID	1.42e+04		1.32e+04	7.299	RPD
5	DUP	S96T001244	W	0	@IC-01	OXALATE2	SOLID	<4.78e2		<4.80e2		RPD
6	SAMPLE	S96T001245	W	0	@IC-01	F-02	SOLID	N/A		6.077e+03	50.720	ug/g

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 8755

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
6	SAMPLE	S96T001245	0	W	@IC-01	CL-02	SOLID	N/A		1.156e+03	66.340	ug/g
6	SAMPLE	S96T001245	0	W	@IC-01	NO2-02	SOLID	N/A		6.715e+03	417.500	ug/g
6	SAMPLE	S96T001245	0	W	@IC-01	BR-02	SOLID	N/A	<	4.916e+02	491.600	ug/g
6	SAMPLE	S96T001245	0	W	@IC-01	NO3-02	SOLID	N/A		1.684e+05	545.800	ug/g
6	SAMPLE	S96T001245	0	W	@IC-01	PO4-02	SOLID	N/A		1.646e+04	463.900	ug/g
6	SAMPLE	S96T001245	0	W	@IC-01	SO4-02	SOLID	N/A		1.295e+04	530.200	ug/g
6	SAMPLE	S96T001245	0	W	@IC-01	OXALATE2	SOLID	N/A	<	4.097e+02	409.700	ug/g
7	DUP	S96T001245	0	W	@IC-01	F-02	SOLID	6.08e+03		1.18e+04	63.982	RPD
7	DUP	S96T001245	0	W	@IC-01	CL-02	SOLID	1.16e+03		1.21e+03	4.219	RPD
7	DUP	S96T001245	0	W	@IC-01	NO2-02	SOLID	6.72e+03		7.06e+03	4.935	RPD
7	DUP	S96T001245	0	W	@IC-01	BR-02	SOLID	<4.92e2		<5.01e2		RPD
7	DUP	S96T001245	0	W	@IC-01	NO3-02	SOLID	1.68e+05		1.77e+05	5.217	RPD
7	DUP	S96T001245	0	W	@IC-01	PO4-02	SOLID	1.65e+04		2.35e+04	35.000	RPD
7	DUP	S96T001245	0	W	@IC-01	SO4-02	SOLID	1.30e+04		1.44e+04	10.219	RPD
7	DUP	S96T001245	0	W	@IC-01	OXALATE2	SOLID	<4.10e2		<4.18e2		RPD

Comments Section:

Comments for sample# S96T001245 **and test** @IC-01 .
Spk failures due to matrix interferences. hla

Final page for worklist# 8755

Analyst Signature **Date**

Analyst Signature **Date**

H Anaston 5-30-96
Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 8755

Analyst: RLMcCown **Instrument:** IC00 _____ **Book#** 136N9A

Method: LA-533-105 **Rev/Mod** D-1

Worklist Comment: B-106 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	SAMPLE	S96T001244	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02			
4	DUP	S96T001244	0	W	@IC-01	SOLID		
5	SAMPLE	S96T001245	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02			
6	DUP	S96T001245	0	W	@IC-01	SOLID		

Final page for worklist # 8755

RLMcCown 5/24/96
Analyst Signature **Date**

Analyst Signature **Date**

Uploaded 5-30-96 Hea
Validated 5-30-96 Hea

Data Entry Comments: Batch 96(N47)56

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

May. 24. 1996 9:57AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 1/16

Sample Name: CCB ELUENT BLANK	Date: 05/23/1996 19:38:47
Data File : C:\DX\DATA\96052311.D01	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 1	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

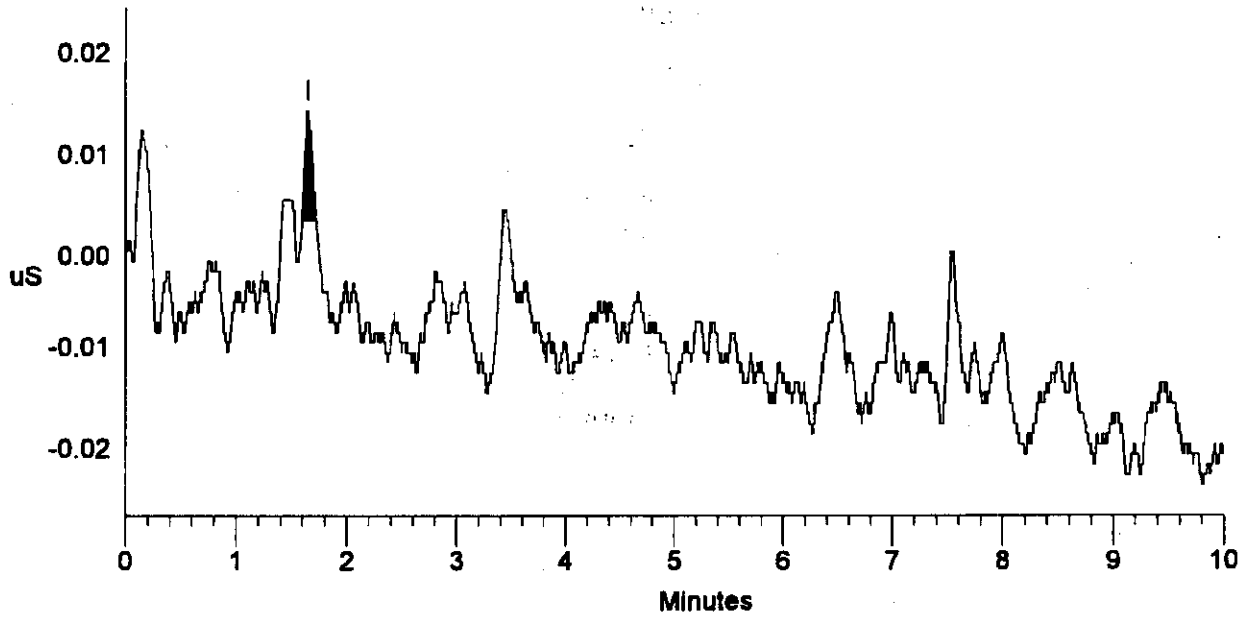
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

DIRECT RJ McCoon 5/24/96

File: 96052311.D01 Sample: CCB ELUENT BLANK



May. 24. 1996 9:57AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 2/16

Sample Name:	CCV STD 136N9-A	Date:	05/23/1996 19:55:14
Data File :	C:\DX\DATA\96052311.D02		
Method :	C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140, REV. 1	
ACI Address:	1 System: 1 Inject#: 2	Detector:	CDM-1
Analyst :	Column: AG4A/AS4A anion column		

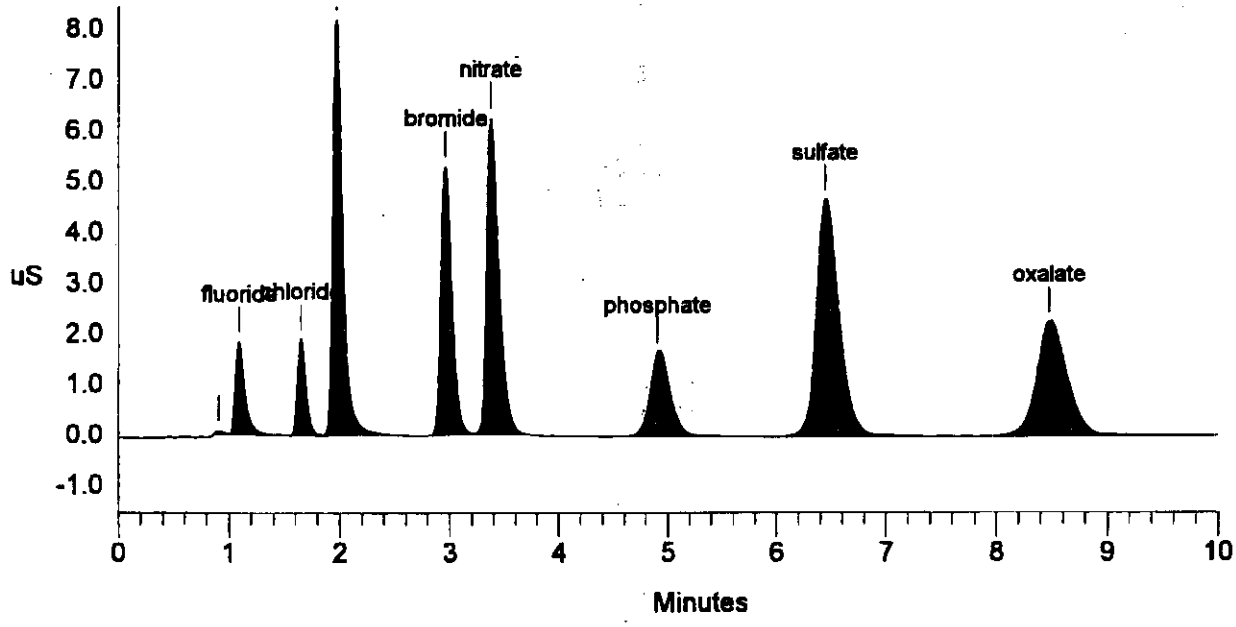
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	75	372	2	
2	1.09	fluoride	59.170	1830	10596	2	2.50
3	1.65	chloride	73.097	1895	9743	1	-0.40
4	1.97	nitrite	535.140	8202	49737	1	-1.99
5	2.97	bromide	574.409	5310	35857	1	0.23
6	3.38	nitrate	596.695	6249	48803	1	2.01
7	4.91	phosphate	540.894	1660	22066	1	-0.54
8	6.45	sulfate	625.773	4678	66924	1	-0.82
9	8.48	oxalate	519.212	2267	43459	1	-0.62
		Totals	3524.389	32166	287556		

.100mL-10mL RJ McCown 5/24/96

File: 96052311.D02 Sample: CCV STD 136N9-A



May. 24. 1996 9:58AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 3/16

Sample Name: PREP BLANK	Date: 05/23/1996 22:08:32
Data File : C:\DX\DATA\96052311.D03	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 3	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

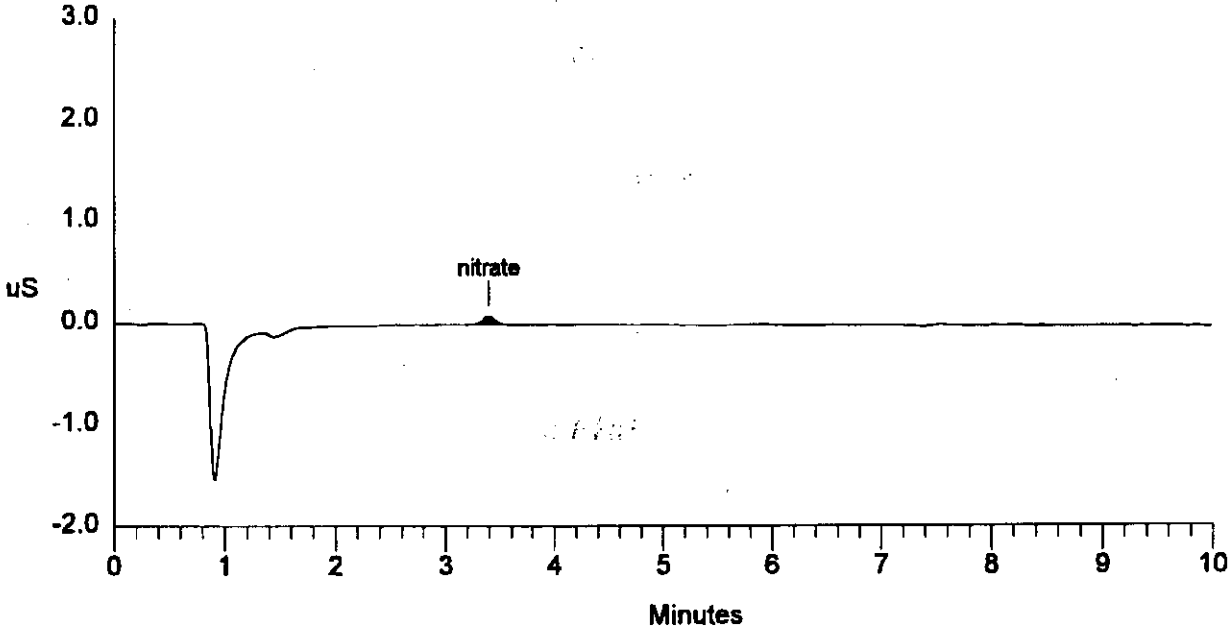
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	3.40	nitrate	0.202	83	605	1	2.62
		Totals	0.202	83	605		

DIRECT RL McLown 5/24/96

File: 96052311.D03 Sample: PREP BLANK



May. 24. 1996 9:58AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 4/16

Sample Name: S96T001244 SAMPLE Date: 05/23/1996 22:37:58
Data File : C:\DX\DATA\96052311.D05
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 5 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column

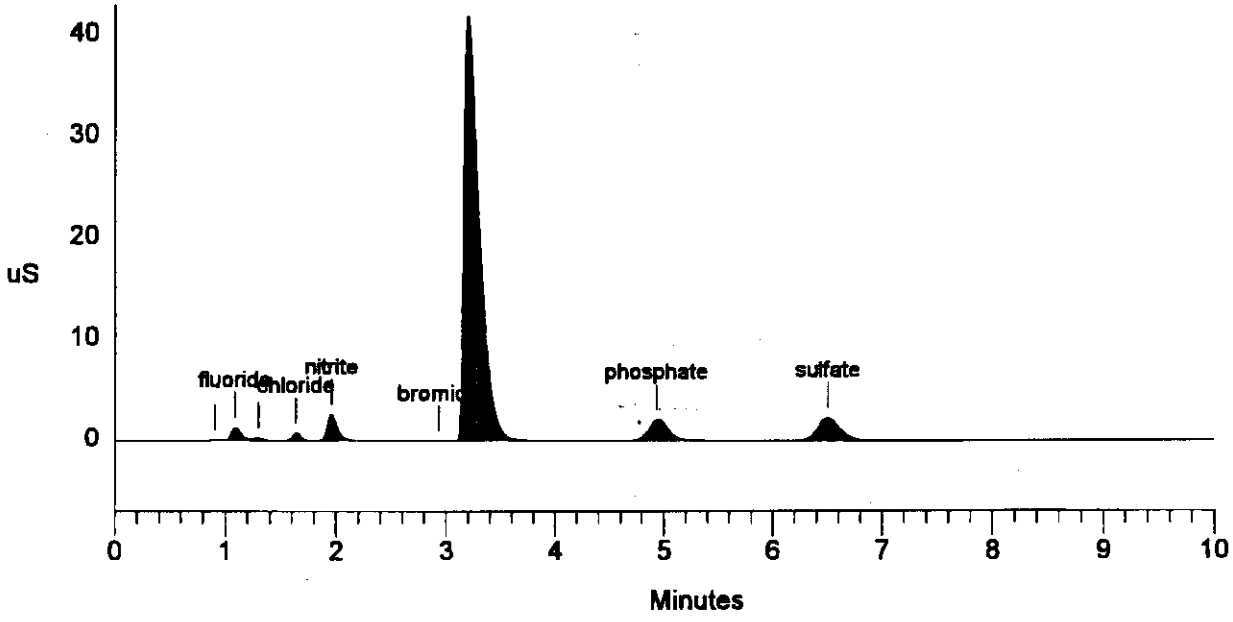
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	91	465	2	
2	1.09	fluoride	9.086	1314	7704	2	1.88
3	1.30		0.000	335	1952	2	
4	1.64	chloride	6.471	772	4117	1	-0.81
5	1.96	nitrite	38.302	2625	16394	1	-2.65
6	2.93	bromide	2.472	29	156	1	-0.90
7	3.21	nitrate	887.279	41997	396944	1	-3.22
8	4.93	phosphate	138.685	2107	27360	1	0.00
9	6.51	sulfate	65.589	2307	33090	1	0.00
		Totals	1147.886	51576	488182		

.500mL - 10mL RJ McCown 5/24/96

File: 96052311.D05 Sample: S96T001244 SAMPLE



May. 24. 1996 9:58AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 5/16

Sample Name: S96T001244 DUPLICATE Date: 05/23/1996 22:48:45
Data File : C:\DX\DATA\96052311.D06
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 6 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column

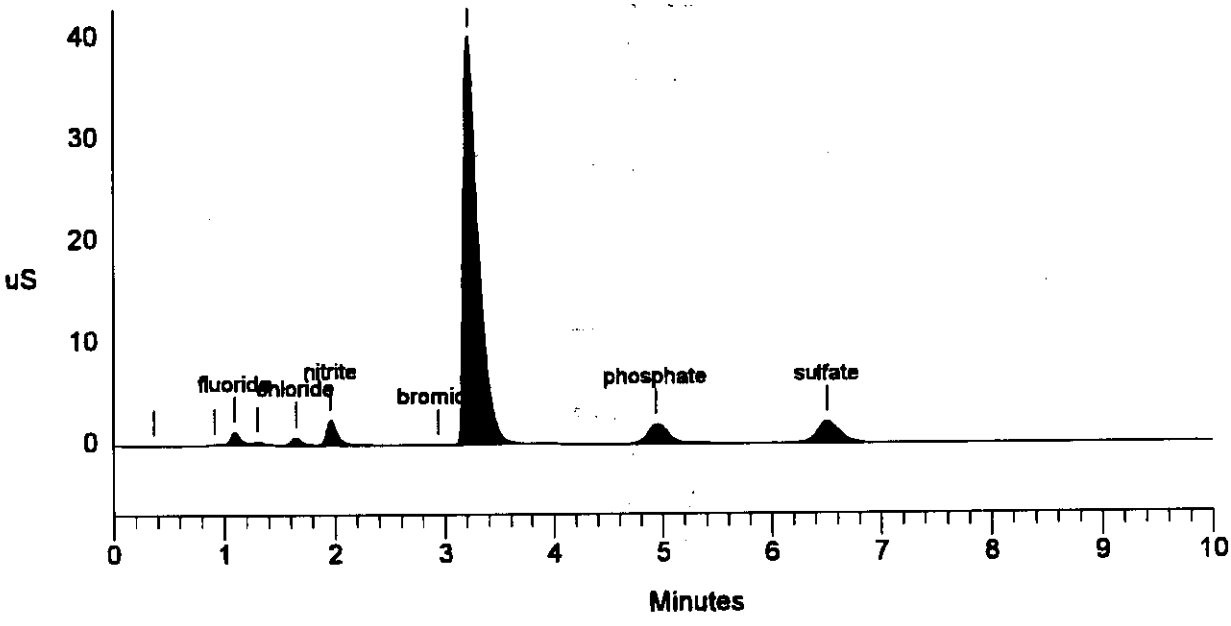
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.37		0.000	16	175	1	
2	0.91		0.000	76	367	2	
3	1.09	fluoride	8.388	1232	7080	2	2.50
4	1.30		0.000	315	1822	2	
5	1.65	chloride	6.254	759	3977	1	-0.40
6	1.96	nitrite	36.205	2491	15444	1	-2.65
7	2.94	bromide	2.448	27	148	1	-0.68
8	3.21	nitrate	846.669	40162	376117	1	-3.02
9	4.93	phosphate	129.252	1907	25450	1	0.00
10	6.51	sulfate	60.857	2149	30634	1	0.00
		Totals	1090.073	49132	461213		

-500mL -10mL RJ McCown 5/24/96

File: 96052311.D06 Sample: S96T001244 DUPLICATE



May. 24. 1996 9:59AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 6/16

Sample Name: S96T001245 SAMPLE	Date: 05/23/1996 23:20:24
Data File : C:\DX\DATA\96052311.D07	WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 7	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

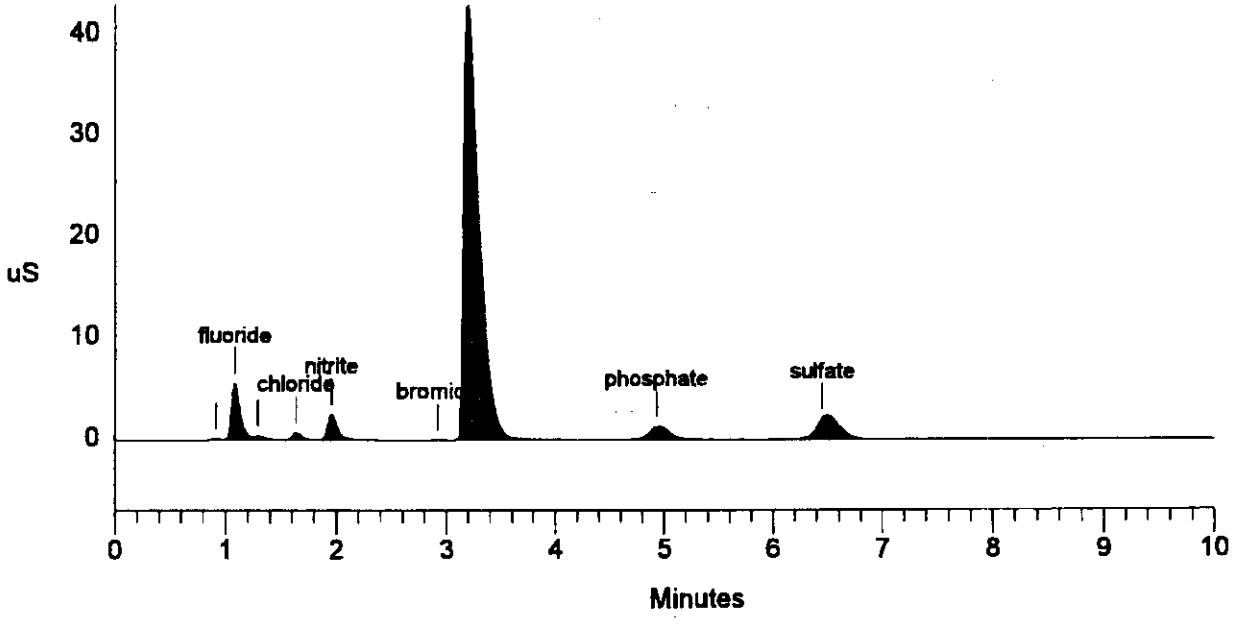
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	90	452	2	
2	1.09	fluoride	32.708	5512	29718	3	1.88
3	1.29		0.000	337	1979	4	
4	1.64	chloride	6.222	758	3957	1	-0.81
5	1.96	nitrite	36.142	2537	15415	1	-2.65
6	2.93	bromide	2.502	33	165	1	-1.13
7	3.20	nitrate	906.179	42859	406752	1	-3.42
8	4.93	phosphate	88.607	1287	17291	1	0.00
9	6.45	sulfate	69.694	2043	35223	1	-0.82
		Totals	1142.054	55457	510951		

.500mL - 10mL [signature] 5/24/96

File: 96052311.D07 Sample: S96T001245 SAMPLE



May. 24. 1996 9:59AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 7/16

Sample Name: S96T001245 DUPLICATE	Date: 05/23/1996 23:32:41
Data File : C:\DX\DATA\96052311.D08	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140 REV 1
ACI Address: 1 System: 1 Inject#: 8	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

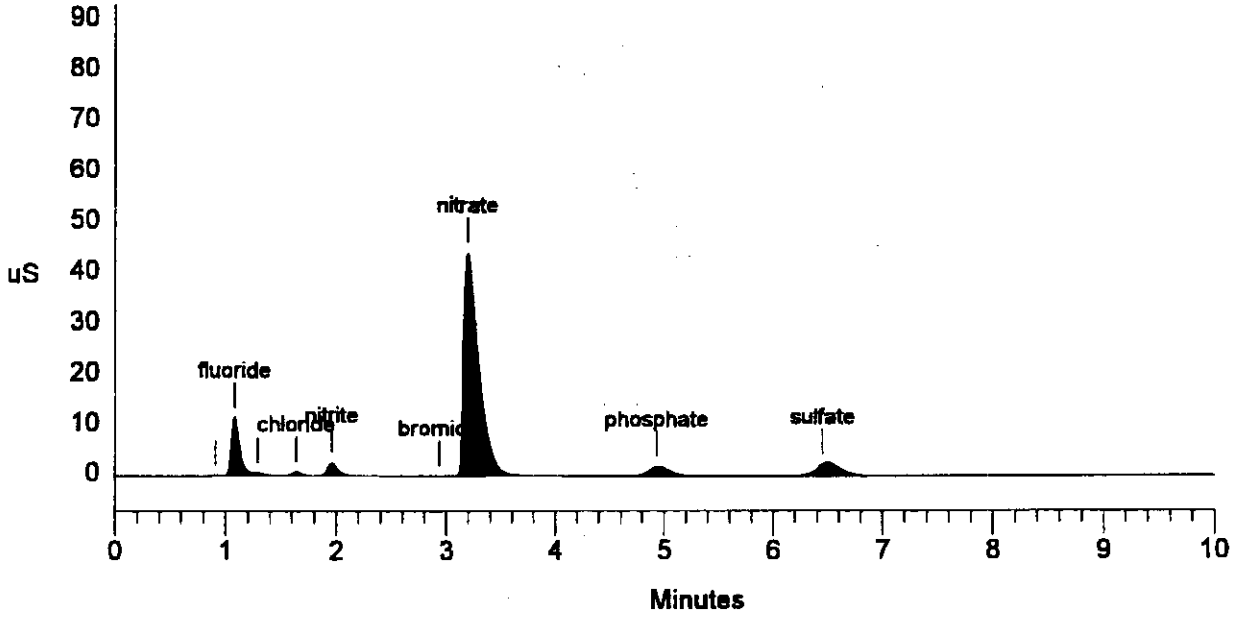
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1		21	3000 5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	91	415	2	
2	1.08	fluoride	62.116	11506	60160	3	1.25
3	1.29		0.000	356	2232	4	
4	1.64	chloride	6.400	790	4071	1	-0.81
5	1.96	nitrite	37.293	2630	15937	1	-2.65
6	2.93	bromide	2.617	34	199	1	-0.90
7	3.20	nitrate	936.069	44095	422416	1	-3.42
8	4.93	phosphate	123.871	1864	24363	1	0.00
9	6.45	sulfate	75.994	2288	38503	1	-0.82
		Totals	1244.359	63655	568294		

. 500mL - 10mL RJ McCown 5/24/96

File: 96052311.D08 Sample: S96T001245 DUPLICATE



May. 24. 1996 9:59AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 8/16

LABCORE Data Entry Template for Worklist# 8756

Analyst: ~~JLF~~ RJ **Instrument:** IC00 IC01 **Book#** 136NG-A

Method: LA-533-105 **Rev/Mod** D-1

Worklist Comment: B-106 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	SAMPLE	S96T001247	0	W	@IC-01	SOLID	95000096	B-106
		Analytes Requested: BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02						
4	DUP	S96T001247	0	W	@IC-01	SOLID		
5	SAMPLE	S96T001248	0	W	@IC-01	SOLID	95000096	B-106
		Analytes Requested: BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02						
6	DUP	S96T001248	0	W	@IC-01	SOLID		

Prep Blank — Prep Blank

Spiked

Final page for worklist # 8756

Rae Ann Green 5-29-96

~~[illegible] 5-29-96~~ RJ

Analyst Signature **Date** **Analyst Signature** **Date**

Exported 8756jun.csv

Install

Uploaded 6/12/96 JMFye

Data Entry Comments: ~~9608~~ JMF 96060811.D01, 96052901.D04, D06->D08, D12, D13

Blank prep was not run originally, but was run later and added to batch, because it had been left off the worklist. JMF

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 8756

Analyst: rag **Instrument:** IC01 **Book#** 136N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-106 IC. RCJ

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC	1		<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL	QC	1		<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2	QC	1		<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR	QC	1		<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC	1		<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC	1		<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC	1		<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1		<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC	5.90e01		6.10e+01	103.390	% Recovery
2	CCV			0	@IC-QC	CL	QC	7.90e01		7.37e+01	93.291	% Recovery
2	CCV			0	@IC-QC	NO2	QC	5.48e02		5.42e+02	98.905	% Recovery
2	CCV			0	@IC-QC	BR	QC	5.75e02		5.81e+02	101.043	% Recovery
2	CCV			0	@IC-QC	NO3	QC	6.14e02		6.18e+02	100.651	% Recovery
2	CCV			0	@IC-QC	PO4	QC	5.46e02		5.49e+02	100.549	% Recovery
2	CCV			0	@IC-QC	SO4	QC	6.31e02		6.32e+02	100.158	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	5.15e02		5.30e+02	102.913	% 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		1.81e-01	0.181	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	S96T001247	W	0	@IC-01	F-02	SOLID	N/A		7.192e+02	102.100	ug/g
4	SAMPLE	S96T001247	W	0	@IC-01	CL-02	SOLID	N/A		1.237e+03	133.500	ug/g
4	SAMPLE	S96T001247	W	0	@IC-01	NO2-02	SOLID	N/A		7.271e+03	840.500	ug/g
4	SAMPLE	S96T001247	W	0	@IC-01	BR-02	SOLID	N/A	<	9.897e+02	989.700	ug/g
4	SAMPLE	S96T001247	W	0	@IC-01	NO3-02	SOLID	N/A		1.559e+05	1099.000	ug/g
4	SAMPLE	S96T001247	W	0	@IC-01	PO4-02	SOLID	N/A		2.416e+04	934.000	ug/g
4	SAMPLE	S96T001247	W	0	@IC-01	SO4-02	SOLID	N/A		1.211e+04	1067.000	ug/g
4	SAMPLE	S96T001247	W	0	@IC-01	OXALATE2	SOLID	N/A	<	8.247e+02	824.500	ug/g
5	DUP	S96T001247	W	0	@IC-01	F-02	SOLID	7.19e+02		7.10e+02	1.260	RPD
5	DUP	S96T001247	W	0	@IC-01	CL-02	SOLID	1.24e+03		1.27e+03	2.390	RPD
5	DUP	S96T001247	W	0	@IC-01	NO2-02	SOLID	7.27e+03		7.62e+03	4.701	RPD
5	DUP	S96T001247	W	0	@IC-01	BR-02	SOLID	<9.90e2		<9.63e2		RPD
5	DUP	S96T001247	W	0	@IC-01	NO3-02	SOLID	1.56e+05		1.76e+05	12.048	RPD
5	DUP	S96T001247	W	0	@IC-01	PO4-02	SOLID	2.42e+04		2.78e+04	13.846	RPD
5	DUP	S96T001247	W	0	@IC-01	SO4-02	SOLID	1.21e+04		1.33e+04	9.449	RPD
5	DUP	S96T001247	W	0	@IC-01	OXALATE2	SOLID	<8.25e2		<8.03e2		RPD
6	SAMPLE	S96T001248	W	0	@IC-01	F-02	SOLID	N/A		4.982e+02	110.700	ug/g

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 8756

Seq	Type	Sample#	R	A	Test		Matrix	Actual	Found	DL or Yield	Unit
6	SAMPLE	S96T001248	0	W	@IC-01	CL-02	SOLID	N/A	1.362e+03	144.700	ug/g
6	SAMPLE	S96T001248	0	W	@IC-01	NO2-02	SOLID	N/A	8.528e+03	910.600	ug/g
6	SAMPLE	S96T001248	0	W	@IC-01	BR-02	SOLID	N/A <	1.072e+03	1073.000	ug/g
6	SAMPLE	S96T001248	0	W	@IC-01	NO3-02	SOLID	N/A	1.950e+05	1191.000	ug/g
6	SAMPLE	S96T001248	0	W	@IC-01	PO4-02	SOLID	N/A	2.656e+04	1012.000	ug/g
6	SAMPLE	S96T001248	0	W	@IC-01	SO4-02	SOLID	N/A	1.539e+04	1157.000	ug/g
6	SAMPLE	S96T001248	0	W	@IC-01	OXALATE2	SOLID	N/A <	8.937e+02	893.800	ug/g
7	DUP	S96T001248	0	W	@IC-01	F-02	SOLID	4.98e+02	4.94e+02	0.806	RPD
7	DUP	S96T001248	0	W	@IC-01	CL-02	SOLID	1.36e+03	1.24e+03	9.231	RPD
7	DUP	S96T001248	0	W	@IC-01	NO2-02	SOLID	8.53e+03	7.33e+03	15.132	RPD
7	DUP	S96T001248	0	W	@IC-01	BR-02	SOLID	<1.07e3	<1.08e3		RPD
7	DUP	S96T001248	0	W	@IC-01	NO3-02	SOLID	1.95e+05	1.80e+05	8.000	RPD
7	DUP	S96T001248	0	W	@IC-01	PO4-02	SOLID	2.66e+04	2.52e+04	5.405	RPD
7	DUP	S96T001248	0	W	@IC-01	SO4-02	SOLID	1.54e+04	1.45e+04	6.020	RPD
7	DUP	S96T001248	0	W	@IC-01	OXALATE2	SOLID	<8.94e2	9.26e+02		RPD

Final page for worklist# 8756

Analyst Signature Date

Analyst Signature Date

Reviewer Signature Date

Validated 6/12/96 JM Frye

Units shown for QC (BLK/BKG) may not reflect the actual units.

A-0010-IC DATA FILE/WORKLIST RESOLUTION 12-Jun-96

Worklist#: 8756

		Seq	Type	Sample #
-	=>	1	CCB	
	=>	2	CCV	
	=>	3	BLNK-PREP	
	=>	4	SAMPLE	S96T001247
	=>	5	DUP	S96T001247
	=>	6	SAMPLE	S96T001248
	=>	7	DUP	S96T001248
+				

Data File: 8756JUN.CSV

	Seq#	Data File	Sample Name	Dilution
-		96052901.d03	STD 136N9-A	101.00
	2	96052901.d04	STD 136N9-A	101.00
	4	96052901.d06	S96T001247	41.00
	5	96052901.d07	S96T001247 DUP	41.00
	6	96052901.d08	S96T001248	41.00
	7	96052901.d12	S96T001248 DUP	41.00
	1	96052901.d13	BLANK	1.00
	3	96060811.d01	PREP. BLANK	1.00
+				

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Data Reprocessed On 06/10/1996 08:46:17

Sample Name: CCB	Date: 06/01/1996 06:38:59
Data File : C:\DX\DATA\96060161.d09	WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 9	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

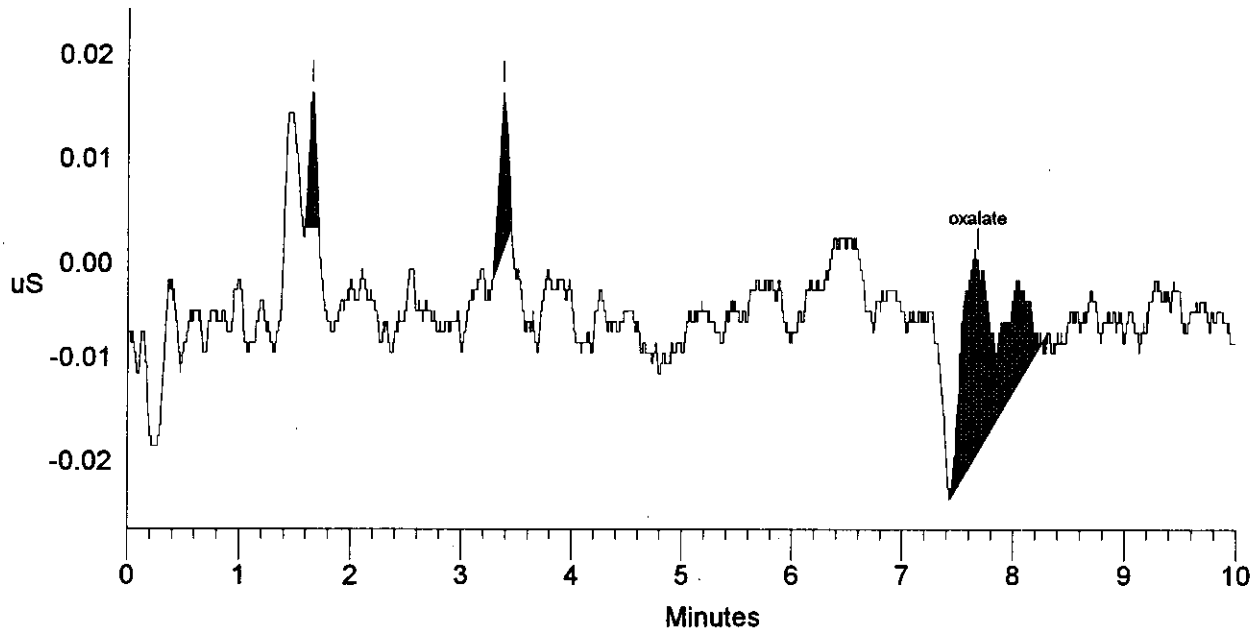
HAnastas for rag 6-17-96

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
3	7.68	oxalate	0.108	19	471	1	-10.00
		Totals	0.108	19	471		

File: 96060161.d09 Sample: CCB



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 150 TO 158.

Data Reprocessed On 06/10/1996 08:46:20

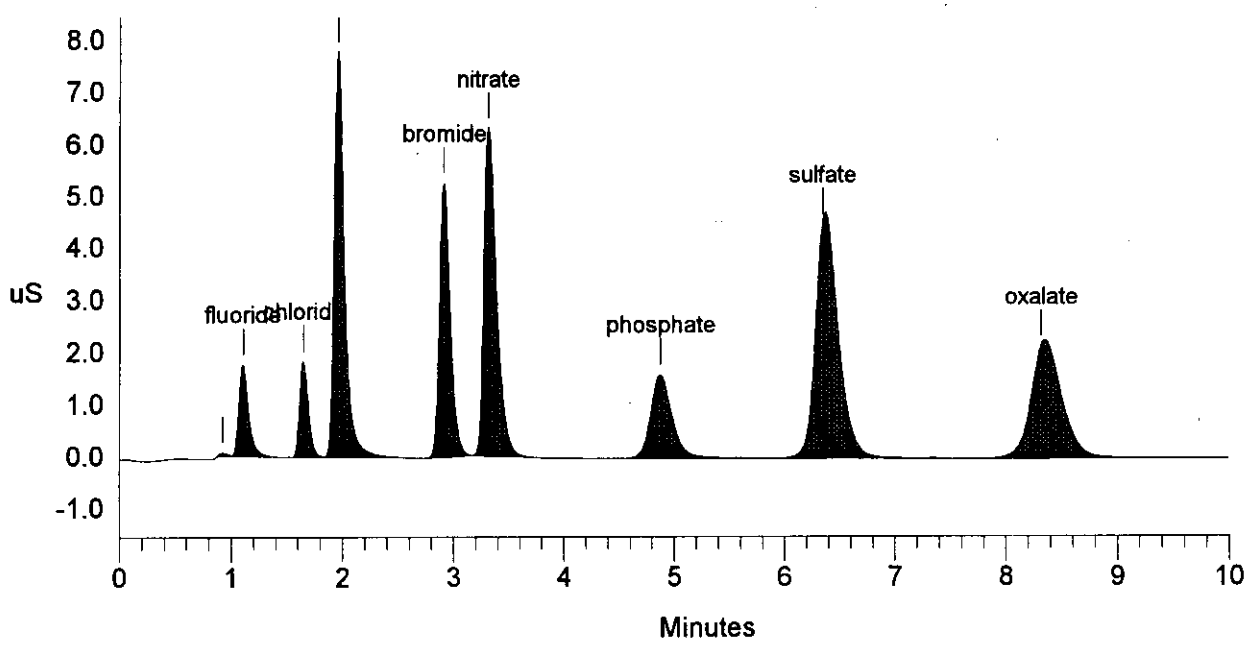
Sample Name: CCV 136N9-A	Date: 06/01/1996 07:29:50
Data File : C:\DX\DATA\96060161.d12	WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 12	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	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	0.93		0.000	65	310	2	
2	1.11	fluoride	58.802	1763	10527	2	3.75
3	1.65	chloride	74.507	1839	9933	1	-0.40
4	1.96	nitrite	539.328	7794	50138	1	-2.65
5	2.91	bromide	562.660	5268	35097	1	-1.58
6	3.31	nitrate	609.263	6293	49870	1	0.00
7	4.88	phosphate	538.501	1618	21966	1	-1.08
8	6.35	sulfate	632.980	4512	67717	1	-2.46
9	8.32	oxalate	526.924	2173	44117	1	-2.50
		Totals	3542.965	31323	289675		

File: 96060161.d12 Sample: CCV 136N9-A



Data Reprocessed On 06/10/1996 08:46:23

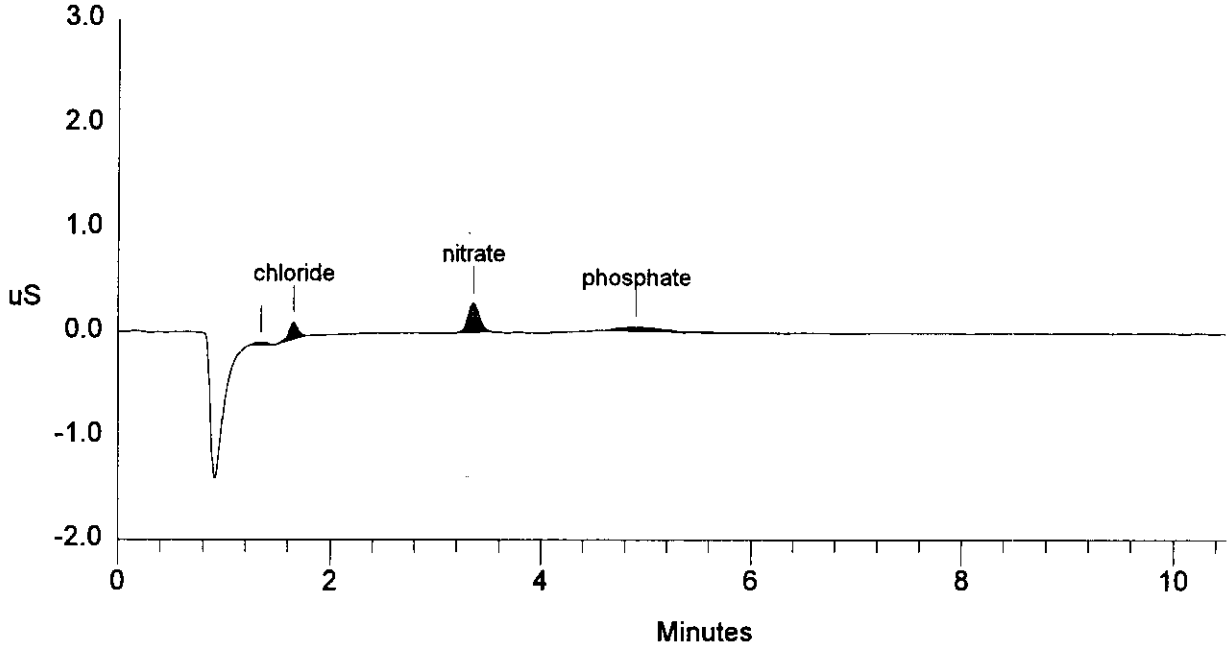
Sample Name: BLANK PREP
Date: 06/01/1996 08:23:30
Data File : C:\DX\DATA\96060191.d01
Method : C:\DX\METHOD\AUTOMEL.met
WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 1
Detector:CDM-1
Analyst :
Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3150	5Hz	0.00	10.50	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.35		0.000	31	250	1	
2	1.65	chloride	0.070	162	934	1	0.00
3	3.35	nitrate	0.385	281	2122	1	1.21
4	4.91	phosphate	0.249	39	894	1	-0.54
		Totals	0.704	514	4200		

File: 96060191.d01 Sample: BLANK PREP



Data Reprocessed On 06/10/1996 08:46:25

Sample Name: S96T001412 SAMPLE	Date: 06/01/1996 09:43:31
Data File : C:\DX\DATA\96060201.d02	
Method : C:\DX\METHOD\AUTOMEL.met	
ACI Address: 1 System: 1 Inject#: 2	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

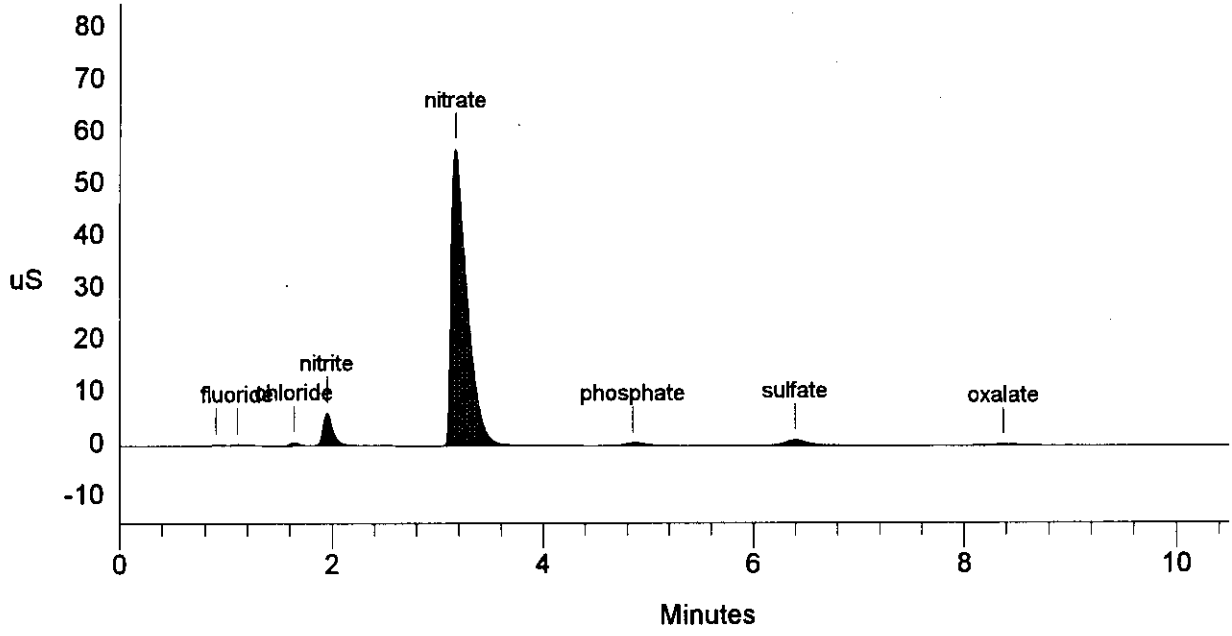
140 REV 1 WHC-SD-WM-DP

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3150	5Hz	0.00	10.50		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	179	962	1	
2	1.11	fluoride	2.124	151	639	1	3.43
3	1.64	chloride	12.311	708	4011	1	-0.81
4	1.95	nitrite	179.475	6295	40850	1	-2.98
5	3.17	nitrate	2410.780	56933	591023	1	-4.43
6	4.85	phosphate	76.559	529	7523	1	-1.62
7	6.40	sulfate	62.405	1050	15709	1	-1.64
8	8.37	oxalate	21.858	206	4071	1	-1.87
		Totals	2765.511	66050	664788		

File: 96060201.d02 Sample: S96T001412 SAMPLE



Data Reprocessed On 06/10/1996 08:46:28

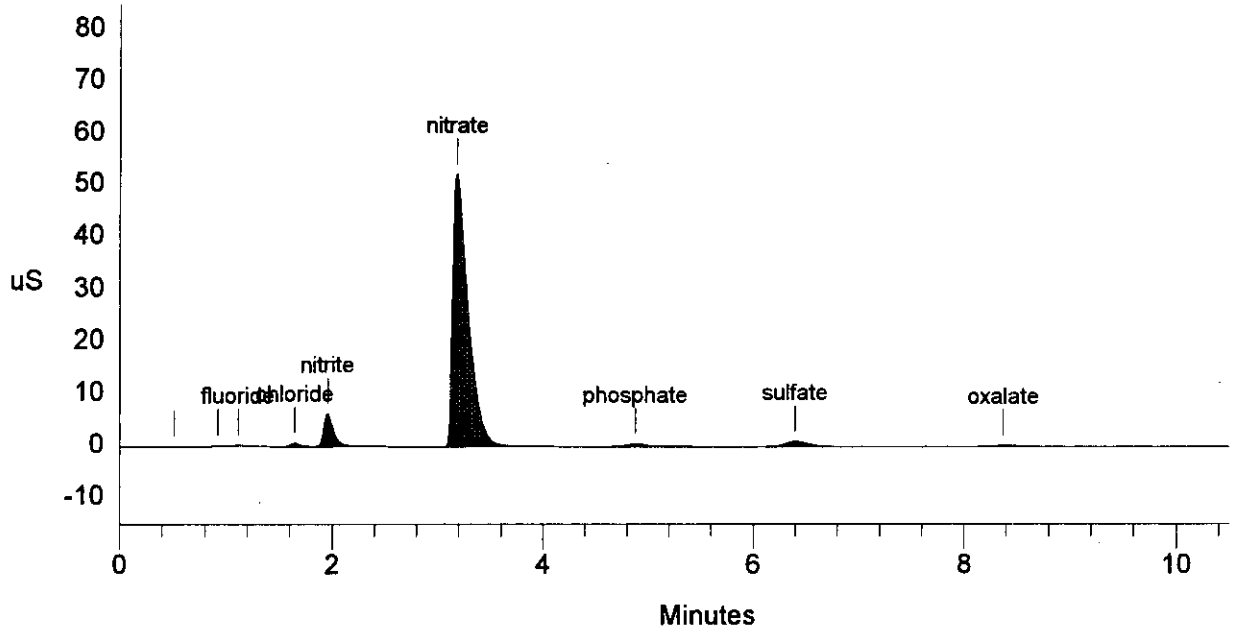
Sample Name: S96T001412 DUP	Date: 06/01/1996 09:56:45
Data File : C:\DX\DATA\96060201.d03	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 3	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3150	5Hz	0.00	10.50	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.51		0.000	19	218	1	
2	0.92		0.000	164	868	1	
3	1.11	fluoride	1.948	135	561	1	4.05
4	1.65	chloride	11.846	705	3858	1	-0.40
5	1.96	nitrite	180.607	6337	41116	1	-2.65
6	3.18	nitrate	2214.956	52281	531700	1	-4.02
7	4.88	phosphate	76.110	498	7478	1	-1.08
8	6.40	sulfate	59.426	1006	14924	1	-1.64
9	8.37	oxalate	19.207	183	3523	1	-1.87
		Totals	2564.100	61328	604246		

File: 96060201.d03 Sample: S96T001412 DUP



Data Reprocessed On 06/10/1996 08:46:31

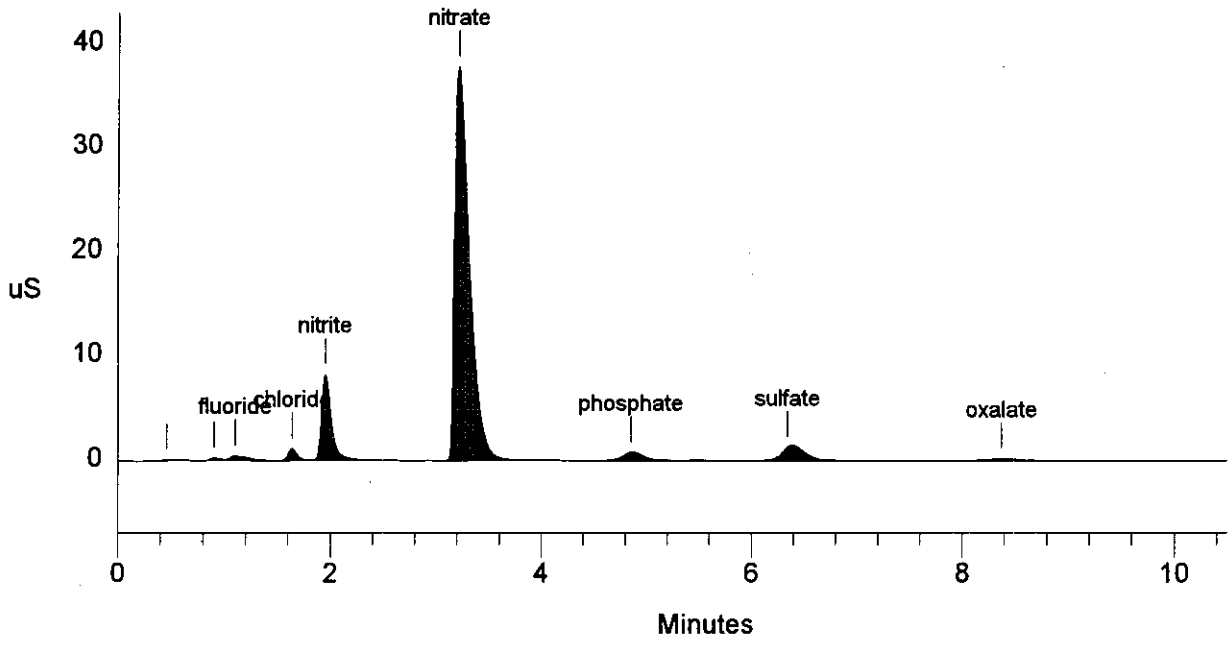
Sample Name: S96T001659 SAMPLE	Date: 06/01/1996 10:09:57
Data File : C:\DX\DATA\96060201.d04	WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\AUTOMEL.met	
ACI Address: 1 System: 1 Inject#: 4	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3150	5Hz	0.00	10.50	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.46		0.000	75	690	1	
2	0.91		0.000	171	1031	2	
3	1.11	fluoride	11.226	459	4735	2	3.43
4	1.64	chloride	19.760	1173	6459	1	-0.81
5	1.95	nitrite	228.400	8235	52371	1	-2.98
6	3.21	nitrate	1611.039	37833	365220	1	-3.02
7	4.85	phosphate	117.087	806	11609	1	-1.62
8	6.35	sulfate	87.002	1283	22201	1	-2.46
9	8.37	oxalate	22.156	206	4133	1	-1.87
		Totals	2096.671	50240	468449		

File: 96060201.d04 Sample: S96T001659 SAMPLE



Data Reprocessed On 06/10/1996 08:46:33

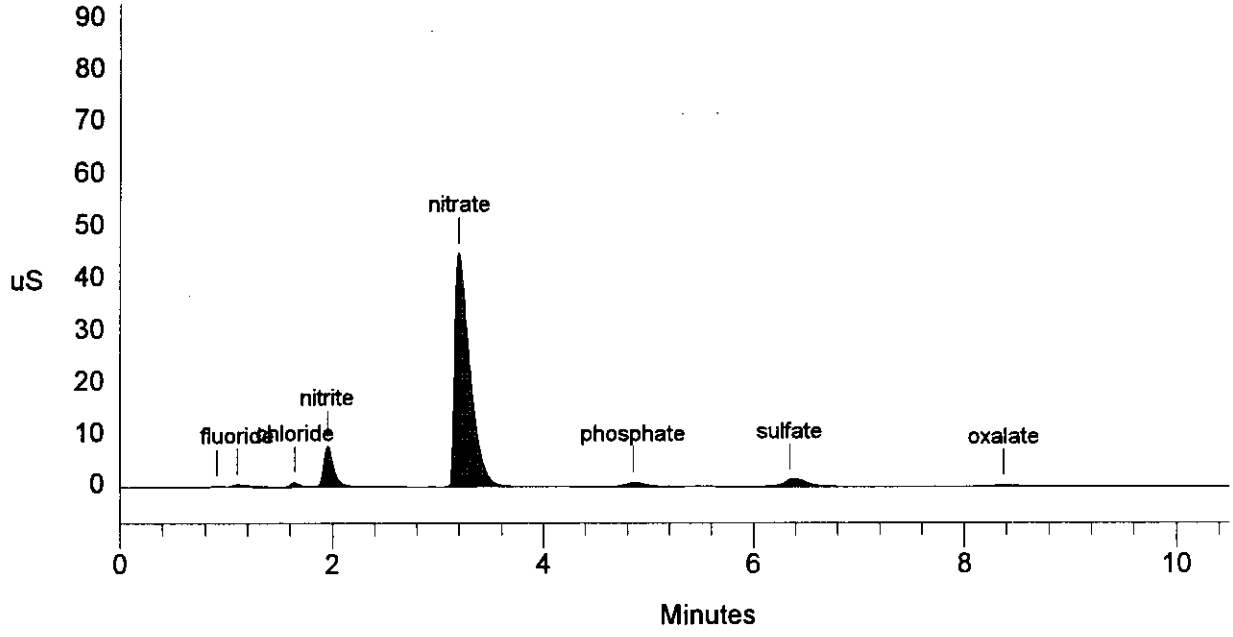
Sample Name: S96T001659 DUP	Date: 06/01/1996 10:23:08
Data File : C:\DX\DATA\96060201.d05	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 5	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3150	5Hz	0.00	10.50	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	197	1148	2	
2	1.11	fluoride	11.070	473	4664	2	3.43
3	1.65	chloride	16.252	943	5304	1	-0.40
4	1.95	nitrite	223.852	7849	51298	1	-2.98
5	3.20	nitrate	1917.820	45053	447027	1	-3.42
6	4.85	phosphate	107.896	782	10680	1	-1.62
7	6.35	sulfate	86.407	1305	22044	1	-2.46
8	8.37	oxalate	23.143	214	4337	1	-1.87
		Totals	2386.439	56816	546501		

File: 96060201.d05 Sample: S96T001659 DUP



Data Reprocessed On 06/10/1996 08:46:38

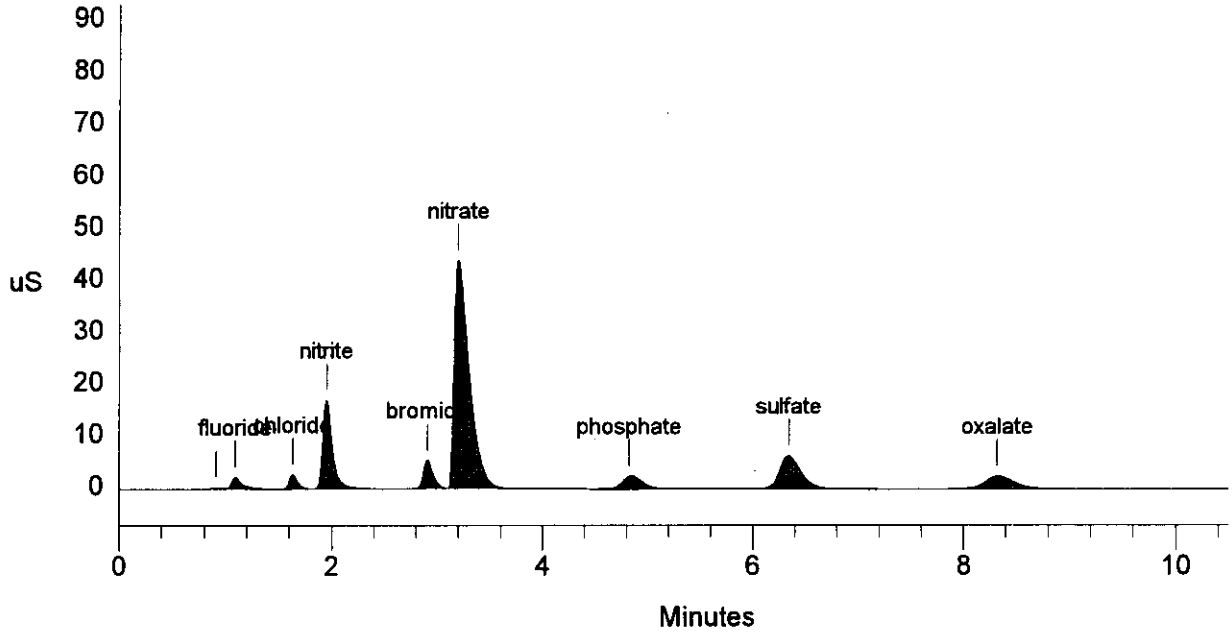
Sample Name: S96T001659 SPIKE Date: 06/01/1996 10:36:21
Data File : C:\DX\DATA\96060191.d06 WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\AUTOMEL.met
ACI Address: 1 System: 1 Inject#: 6 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3150	5Hz	0.00	10.50	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	245	1397	2	
2	1.09	fluoride	0.831	2199	15293	2	2.18
3	1.63	chloride	1.106	2783	14993	1	-1.21
4	1.95	nitrite	11.279	17047	108343	1	-2.98
5	2.91	bromide	5.419	5426	34104	1	-1.80
6	3.20	nitrate	45.379	43969	431350	1	-3.42
7	4.83	phosphate	8.217	2459	34270	1	-2.16
8	6.35	sulfate	8.359	6432	91141	1	-2.46
9	8.32	oxalate	5.557	2472	47043	1	-2.50
		Totals	86.146	83031	777935		

File: 96060191.d06 Sample: S96T001659 SPIKE



LABCORE Data Entry Template for Worklist# 8757

Analyst: pjm **Instrument:** IC00 IC01 **Book#** 136N9A

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-106 IC. nds

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	S96T001249	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
5	DUP	S96T001249	0	W	@IC-01	SOLID		
6	SAMPLE	S96T001250	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
7	DUP	S96T001250	0	W	@IC-01	SOLID		

Final page for worklist # 8757

See Attached for Signatures

Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 8757

Analyst: RJ McCown **Instrument:** IC00 _____ **Book#** 136N9A

Method: LA-533-105 **Rev/Mod** D-1

Worklist Comment: B-106 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	SAMPLE	S96T001249	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02			
4	DUP	S96T001249	0	W	@IC-01	SOLID		
5	SAMPLE	S96T001250	0	W	@IC-01	SOLID	95000096	B-106
	Analytes Requested:				BR-02, CL-02, F-02, NO2-02, NO3-02, OXALATE2, PO4-02, SO4-02			
6	DUP	S96T001250	0	W	@IC-01	SOLID		

Final page for worklist # 8757

RJ McCown 5/24/96
Analyst Signature **Date**

Analyst Signature **Date**

uploaded HLA 5-31-96
Validated HLA 5-31-96

Data Entry Comments: 9600 4758

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

May. 24. 1996 9:59AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 9/16

LABCORE Completed Worklist Report for Worklist# 8757

Analyst: pjm **Instrument:** IC01 **Book#** 136N9A

Method: UA-533-105 Rev/Mod D-1

Worklist Comment: B-106 IC. nds

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC	1		<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL	QC	1		<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2	QC	1		<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR	QC	1		<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC	1		<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC	1		<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC	1		<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1		<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC	5.90e01		5.49e+01	93.051	% Recovery
2	CCV			0	@IC-QC	CL	QC	7.90e01		7.49e+01	94.810	% Recovery
2	CCV			0	@IC-QC	NO2	QC	5.48e02		5.39e+02	98.358	% Recovery
2	CCV			0	@IC-QC	BR	QC	5.75e02		5.55e+02	96.522	% Recovery
2	CCV			0	@IC-QC	NO3	QC	6.14e02		6.19e+02	100.814	% Recovery
2	CCV			0	@IC-QC	PO4	QC	5.46e02		5.45e+02	99.817	% Recovery
2	CCV			0	@IC-QC	SO4	QC	6.31e02		6.22e+02	98.574	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	5.15e02		5.16e+02	100.194	% 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		1.69e-01	0.169	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	S96T001249	W	0	@IC-01	F-02	SOLID	N/A		4.069e+02	30.100	ug/g
4	SAMPLE	S96T001249	W	0	@IC-01	CL-02	SOLID	N/A		5.001e+02	39.360	ug/g
4	SAMPLE	S96T001249	W	0	@IC-01	NO2-02	SOLID	N/A		2.691e+04	247.700	ug/g
4	SAMPLE	S96T001249	W	0	@IC-01	BR-02	SOLID	N/A	<	2.917e+02	291.700	ug/g
4	SAMPLE	S96T001249	W	0	@IC-01	NO3-02	SOLID	N/A		1.669e+04	323.900	ug/g
4	SAMPLE	S96T001249	W	0	@IC-01	PO4-02	SOLID	N/A		1.972e+03	275.300	ug/g
4	SAMPLE	S96T001249	W	0	@IC-01	SO4-02	SOLID	N/A		3.622e+03	314.600	ug/g
4	SAMPLE	S96T001249	W	0	@IC-01	OXALATE2	SOLID	N/A		2.516e+03	243.100	ug/g
5	DUP	S96T001249	W	0	@IC-01	F-02	SOLID	4.07e+02		4.12e+02	1.221	RPD
5	DUP	S96T001249	W	0	@IC-01	CL-02	SOLID	5.00e+02		4.89e+02	2.224	RPD
5	DUP	S96T001249	W	0	@IC-01	NO2-02	SOLID	2.69e+04		2.64e+04	1.876	RPD
5	DUP	S96T001249	W	0	@IC-01	BR-02	SOLID	<2.92e2		<2.92e2		RPD
5	DUP	S96T001249	W	0	@IC-01	NO3-02	SOLID	1.67e+04		1.61e+04	3.659	RPD
5	DUP	S96T001249	W	0	@IC-01	PO4-02	SOLID	1.97e+03		2.03e+03	3.000	RPD
5	DUP	S96T001249	W	0	@IC-01	SO4-02	SOLID	3.62e+03		3.42e+03	5.682	RPD
5	DUP	S96T001249	W	0	@IC-01	OXALATE2	SOLID	2.52e+03		4.77e+03	61.728	RPD
6	SAMPLE	S96T001250	W	0	@IC-01	F-02	SOLID	N/A		1.228e+04	53.800	ug/g

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 8757

Seq	Type	Sample#	R	A	Test		Matrix	Actual	Found	DL or Yield	Unit
6	SAMPLE	S96T001250	0	W	@IC-01	CL-02	SOLID	N/A	1.035e+03	70.350	ug/g
6	SAMPLE	S96T001250	0	W	@IC-01	NO2-02	SOLID	N/A	6.227e+03	442.900	ug/g
6	SAMPLE	S96T001250	0	W	@IC-01	BR-02	SOLID	N/A	6.628e+02	521.400	ug/g
6	SAMPLE	S96T001250	0	W	@IC-01	NO3-02	SOLID	N/A	1.651e+05	579.000	ug/g
6	SAMPLE	S96T001250	0	W	@IC-01	PO4-02	SOLID	N/A	1.454e+04	492.000	ug/g
6	SAMPLE	S96T001250	0	W	@IC-01	SO4-02	SOLID	N/A	1.391e+04	562.400	ug/g
6	SAMPLE	S96T001250	0	W	@IC-01	OXALATE2	SOLID	N/A <	4.346e+02	434.500	ug/g
7	DUP	S96T001250	0	W	@IC-01	F-02	SOLID	1.23e+04	1.04e+04	16.740	RPD
7	DUP	S96T001250	0	W	@IC-01	CL-02	SOLID	1.04e+03	2.48e+03	81.818	RPD
7	DUP	S96T001250	0	W	@IC-01	NO2-02	SOLID	6.23e+03	6.59e+03	5.616	RPD
7	DUP	S96T001250	0	W	@IC-01	BR-02	SOLID	6.63e+02	6.49e+02	2.134	RPD
7	DUP	S96T001250	0	W	@IC-01	NO3-02	SOLID	1.65e+05	1.70e+05	2.985	RPD
7	DUP	S96T001250	0	W	@IC-01	PO4-02	SOLID	1.45e+04	1.58e+04	8.581	RPD
7	DUP	S96T001250	0	W	@IC-01	SO4-02	SOLID	1.39e+04	1.46e+04	4.912	RPD
7	DUP	S96T001250	0	W	@IC-01	OXALATE2	SOLID	<4.35e2	<4.41e2		RPD

Comments Section:

Comments for sample# S96T001249 **and test** @IC-01 .
Dup failure noted probably due to matrix interferences. hla

Final page for worklist# 8757

Analyst Signature **Date**

Analyst Signature **Date**

H Anastor 5-31-96
Reviewer Signature **Date**

Validated 5-31-96 Hla

Units shown for QC (BLK/BKG) may not reflect the actual units.

A-0010-IC DATA FILE/WORKLIST RESOLUTION 30-May-96

Worklist#: 8757

	Seq	Type	Sample #
=>	1	CCB	
=>	2	CCV	
=>	3	BLNK-PREP	
=>	4	SAMPLE	S96T001249
=>	5	DUP	S96T001249
=>	6	SAMPLE	S96T001250
=>	7	DUP	S96T001250

Data File: 8757MAY.CSV

Seq#	Data File	Sample Name	Dilution
1	96052311.d10	CCB ELUENT BLANK	1.00
2	96052311.d11	CCV 136N9A STD	101.00
3	96052311.d12	PREP BLANK	1.00
4	96052311.d14	S96T001249 SAMPL	11.00
5	96052311.d15	S96T001249 DUPLI	11.00
6	96052311.d17	S96T001250 SAMPL	21.00
7	96052311.d18	S96T001250 DUPLI	21.00

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Sample Name: CCB ELUENT BLANK	Date: 05/24/1996 01:51:44
Data File : C:\DX\DATA\96052311.D10	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 10	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

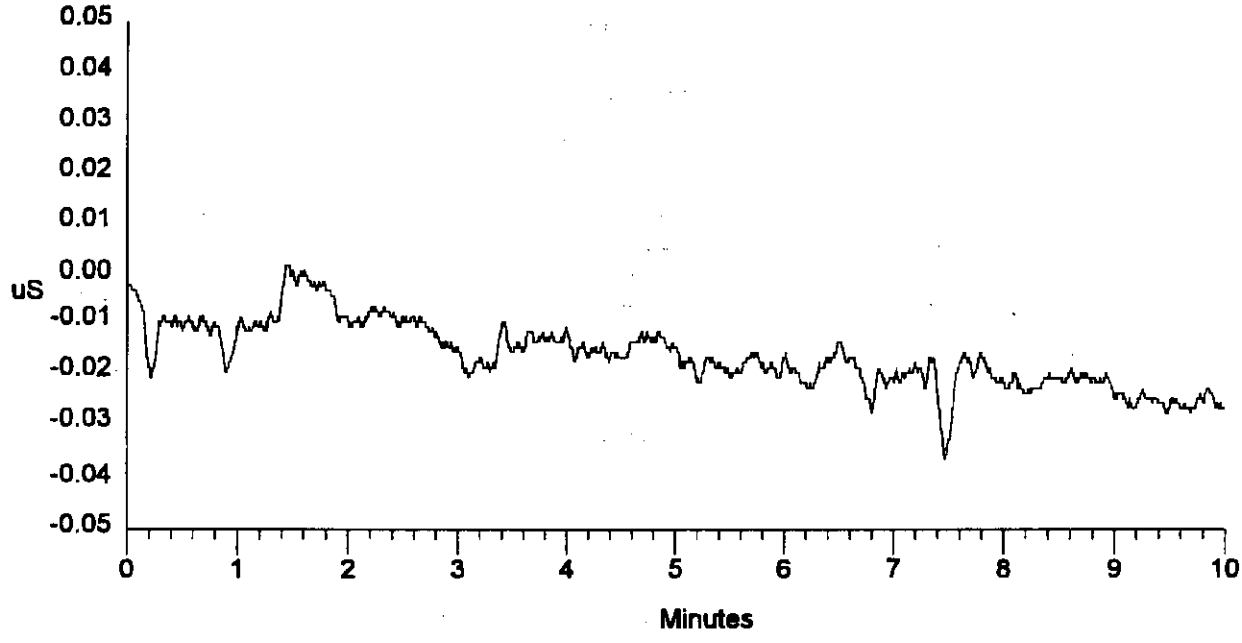
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

DIRECT RJ McCown 5/24/96

File: 96052311.D10 Sample: CCB ELUENT BLANK



May. 24. 1996 10:00AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 10/16

Sample Name: CCV 136N9A STD Date: 05/24/1996 02:04:07
Data File : C:\DX\DATA\96052311.D11
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 11 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column

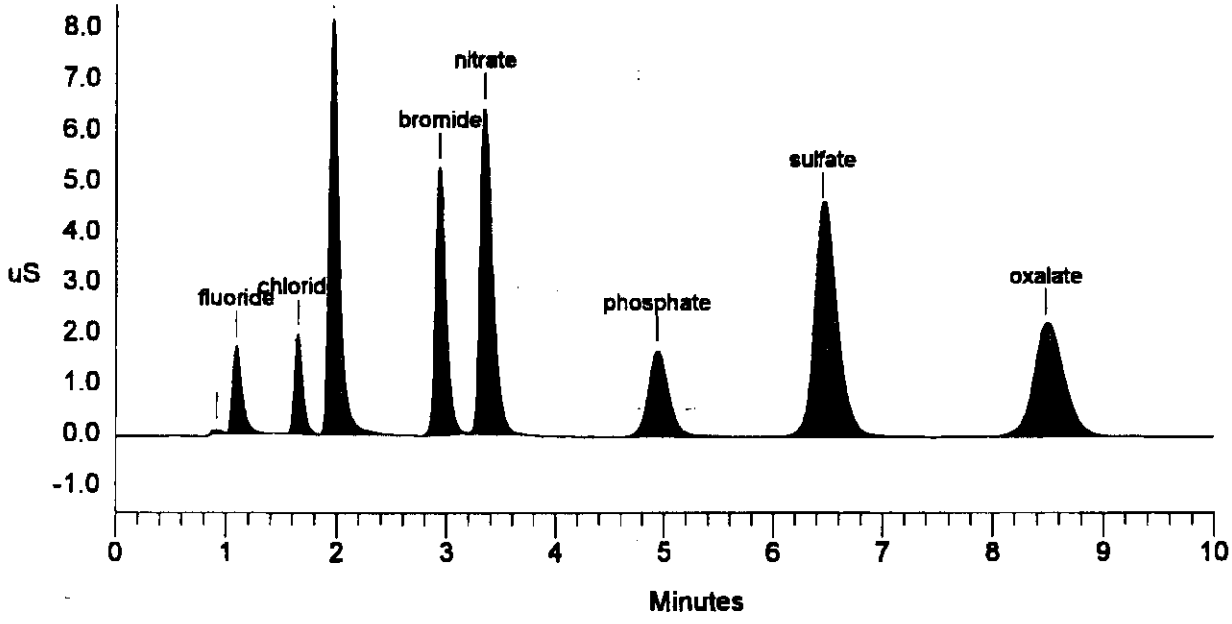
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3000	5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	93	470	2	
2	1.09	fluoride	54.947	1726	9803	2	2.50
3	1.65	chloride	74.916	1960	9989	1	-0.40
4	1.97	nitrite	538.974	8201	50104	1	-2.32
5	2.93	bromide	554.859	5287	34593	1	-0.90
6	3.35	nitrate	619.158	6424	50711	1	1.01
7	4.93	phosphate	544.674	1707	22224	1	0.00
8	6.45	sulfate	621.907	4551	66498	1	-0.82
9	8.48	oxalate	516.170	2237	43199	1	-0.62
		Totals	3525.605	32186	287591		

• 100mL – 10mL RJ McCown 5/24/96

File: 96052311.D11 Sample: CCV 136N9A STD



May. 24. 1996 10:00AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 11/16

Sample Name: PREP BLANK	Date: 05/24/1996 02:18:24
Data File : C:\DX\DATA\96052311.D12	WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 12	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

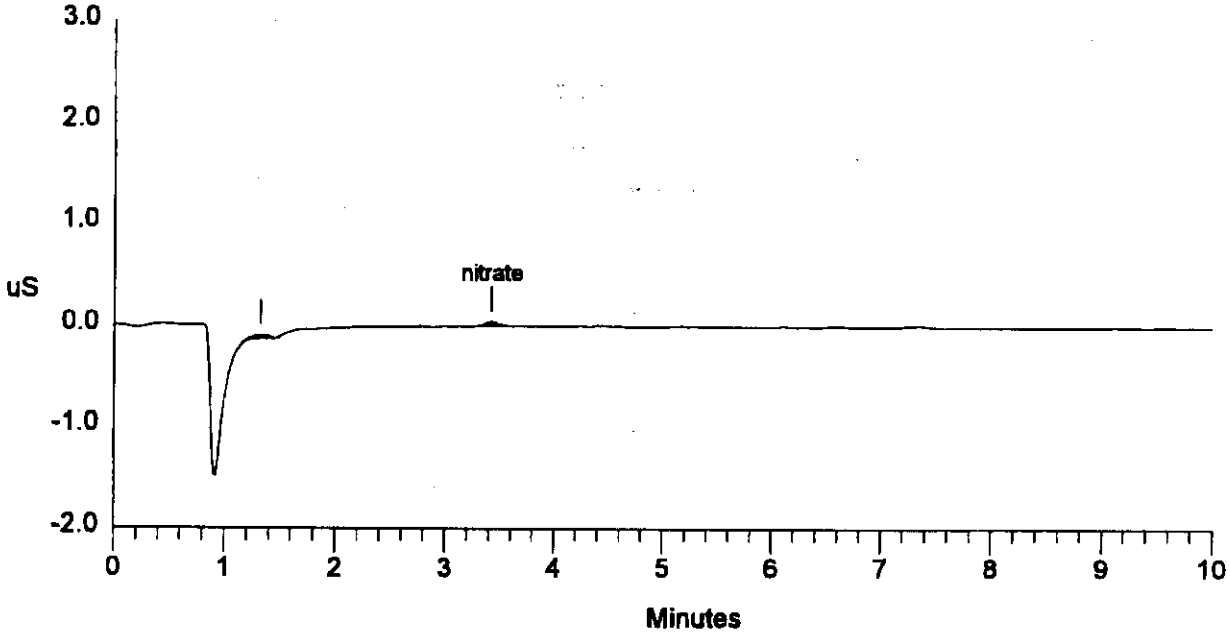
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.33		0.000	40	369	1	
2	3.43	nitrate	0.169	48	327	1	3.42
		Totals	0.169	88	696		

DIRECT RJ McCown 5/24/96

File: 96052311.D12 Sample: PREP BLANK



May. 24. 1996 10:00AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 12/16

Sample Name: S96T001249 SAMPLE Date: 05/24/1996 02:49:45
Data File : C:\DX\DATA\96052311.D14
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV.1
ACI Address: 1 System: 1 Inject#: 14 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

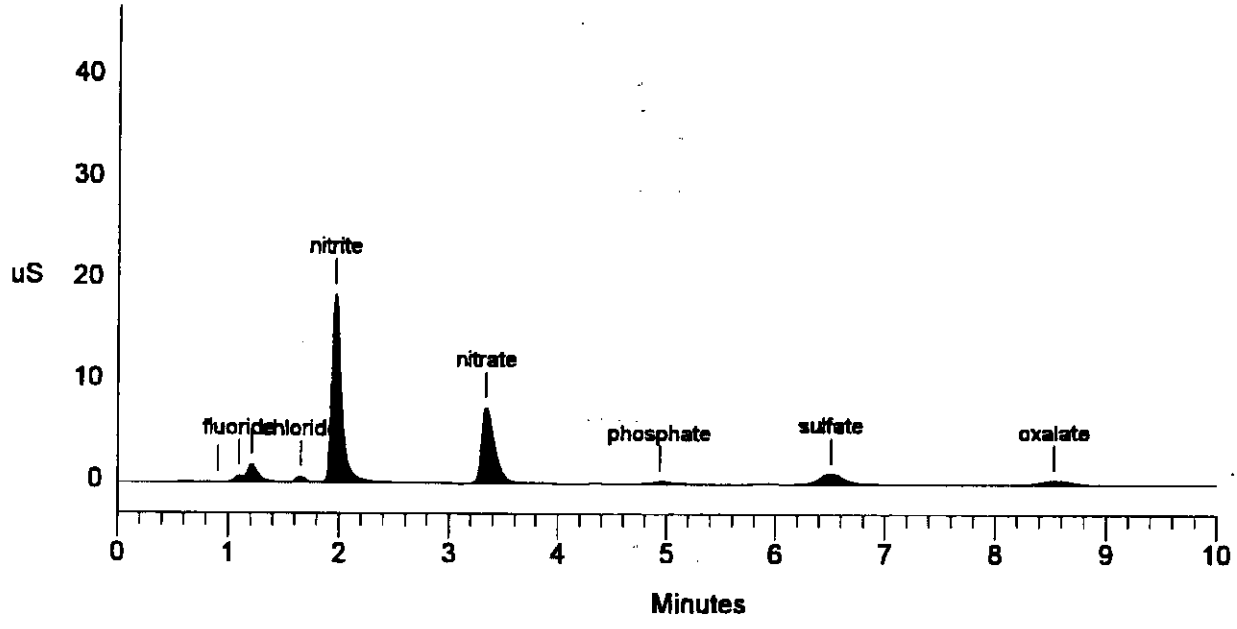
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	3000	5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	37	173	1	
2	1.10	fluoride	1.933	637	2918	2	3.13
3	1.21		0.000	1712	11110	2	
4	1.65	chloride	2.376	564	2880	1	0.00
5	1.97	nitrite	127.840	18687	111753	1	-2.32
6	3.34	nitrate	79.282	7505	59980	1	0.80
7	4.93	phosphate	9.369	250	3354	1	0.00
8	6.51	sulfate	17.209	1068	16167	1	0.00
9	8.53	oxalate	11.952	433	8771	1	0.00
		Totals	249.961	30893	217106		

1mL - 10mL RL McCown 5/24/96

File: 96052311.D14 Sample: S96T001249 SAMPLE



May. 24. 1996 10:01AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 13/16

Sample Name: S96T001249 DUPLICATE Date: 05/24/1996 03:00:46
Data File : C:\DX\DATA\96052311.D15
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 15 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

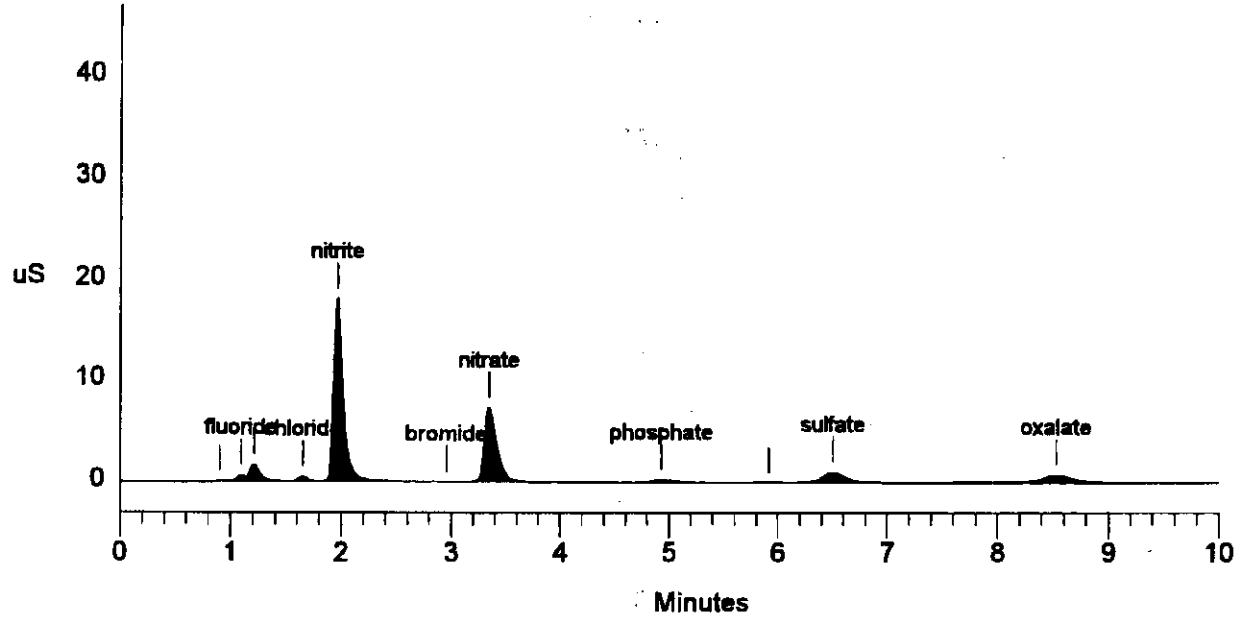
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	11	3000	5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	40	196	1	
2	1.10	fluoride	1.951	634	2948	2	3.13
3	1.21		0.000	1684	11008	2	
4	1.65	chloride	2.317	541	2808	1	0.00
5	1.97	nitrite	124.980	18221	109167	1	-2.32
6	2.96	bromide	1.204	20	104	1	0.00
7	3.35	nitrate	76.242	7342	57597	1	1.01
8	4.93	phosphate	9.633	250	3452	1	0.00
9	5.92		0.000	23	371	1	
10	6.51	sulfate	16.230	1033	15205	1	0.00
11	8.53	oxalate	22.616	802	17024	1	0.00
		Totals	255.173	30589	219881		

1mL-10mL RJ McCown 5/24/96

File: 96052311.D15 Sample: S96T001249 DUPLICATE



May. 24. 1996 10:01AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 14/16

Sample Name: S96T001250 SAMPLE Date: 05/24/1996 03:37:25
Data File : C:\DX\DATA\96052311.D17
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140 REV. 1
ACI Address: 1 System: 1 Inject#: 17 Detector: CDM-1
Analyst : Column: AG4A/AS4A anion column

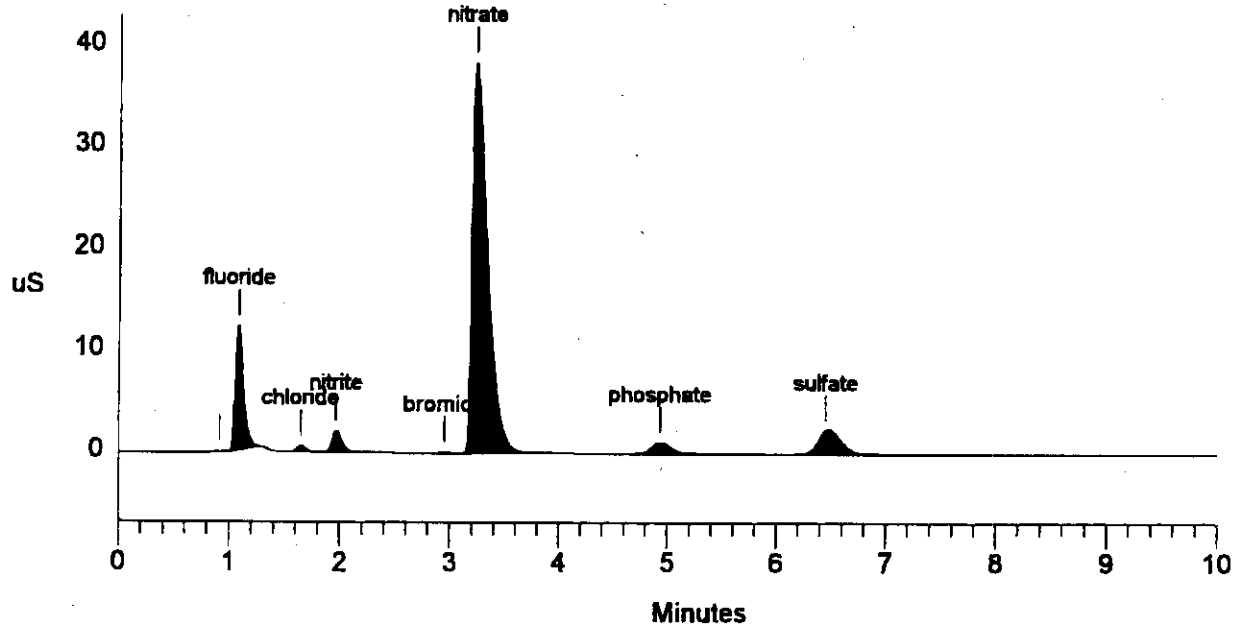
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	21	3000	5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.91		0.000	79	369	1	
2	1.09	fluoride	62.317	12309	60382	1	1.88
3	1.65	chloride	5.253	637	3337	1	-0.40
4	1.97	nitrite	31.597	2138	13356	1	-2.32
5	2.95	bromide	3.363	68	422	1	-0.23
6	3.24	nitrate	837.812	38519	371617	1	-2.21
7	4.93	phosphate	73.759	1112	14338	1	0.00
8	6.45	sulfate	70.598	2313	35694	1	-0.82
		Totals	1084.699	57174	499515		

·500 mL – 10 mL RJ McCown 5/24/96

File: 96052311.D17 Sample: S96T001250 SAMPLE



May. 24. 1996 10:01AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 15/16

Sample Name: S96T001250 DUPLICATE	Date: 05/24/1996 03:55:20
Data File : C:\DX\DATA\96052311.D18	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 18	Detector: CDM-1
Analyst :	Column: AG4A/AS4A anion column

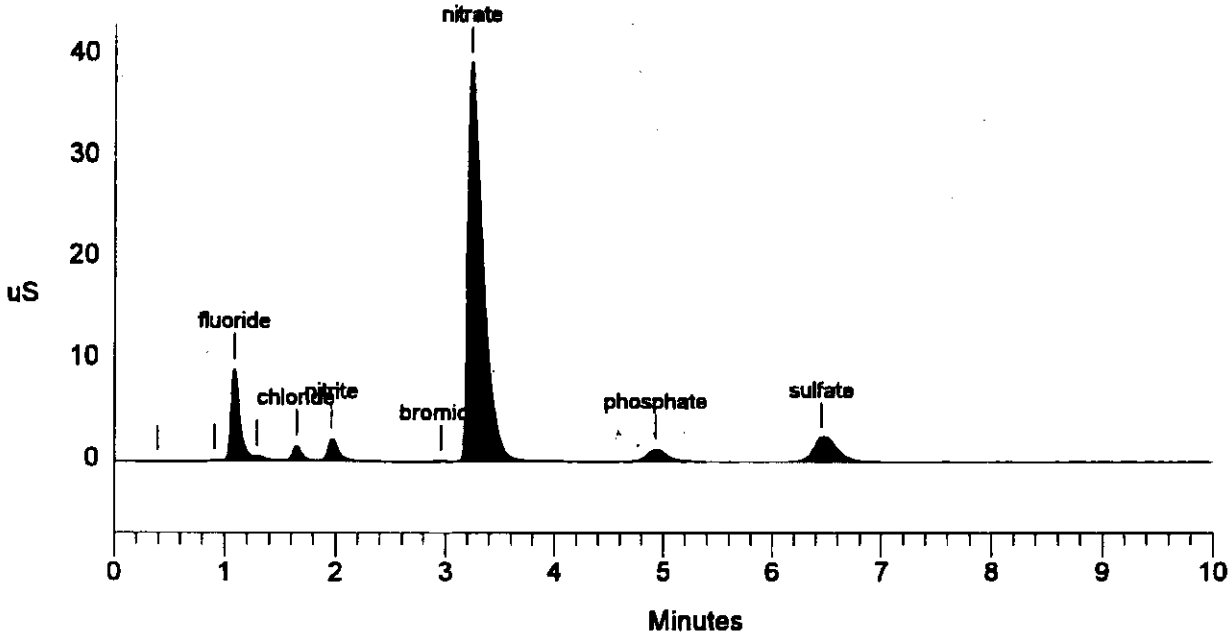
Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	21	3000	5Hz	0.00	10.00	100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.39		0.000	17	126	1	
2	0.91		0.000	71	327	2	
3	1.09	fluoride	52.233	8999	49483	3	1.88
4	1.29		0.000	337	2155	4	
5	1.65	chloride	12.409	1524	7935	1	-0.40
6	1.97	nitrite	32.955	2188	13971	1	-2.32
7	2.96	bromide	3.246	67	387	1	0.00
8	3.24	nitrate	848.192	39396	376891	1	-2.21
9	4.93	phosphate	78.973	1192	15373	1	0.00
10	6.45	sulfate	73.233	2415	37065	1	-0.82
		Totals	1101.240	56206	503713		

• 500mL - 10mL RJ McCown 5/24/96

File: 96052311.D18 Sample: S96T001250 DUPLICATE



May. 24. 1996 10:02AM WHC 222S LAB ROOM 2F BACKSIDE No. 1159 P. 16/16

06/14/96 10:18
A-0004-1

WHC-SD-WM-DP-140, REV. 1

Page: 1

LABCORE Data Entry Template for Worklist# 9960

Analyst: EAL **Instrument:** IC00 _____ **Book#** 136N9-D

Method: LA-533-105 Rev/Mod D-1

Worklist Comment: B-106 @IC-01

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	SAMPLE	S96T001246	0	W	@IC-01	SOLID	95000096	B-106
		Analytes Requested: BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02						
4	DUP	S96T001246	0	W	@IC-01	SOLID		
5	SPK	S96T001246	0	W	@IC-01	SOLID		

Blank-Prep

Final page for worklist # 9960

A. Lambel 06-17-96
Analyst Signature **Date**

Analyst Signature **Date**

9960 jun.csv

In shell 6/19

Uploaded 6/19/96 [signature]

Data Entry Comments: 96061701.D01 → D07

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 9960

Seq	Type	Sample#	R	A	Test		Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S96T001246	0	W	@IC-01	CL-02	SOLID	7.90e01	7.55e+01	95.570	% Recovery
6	SPK	S96T001246	0	W	@IC-01	NO2-02	SOLID	5.37e02	5.19e+02	96.648	% Recovery
6	SPK	S96T001246	0	W	@IC-01	BR-02	SOLID	5.75e02	5.47e+02	95.130	% Recovery
6	SPK	S96T001246	0	W	@IC-01	NO3-02	SOLID	6.14e02	6.05e+02	98.534	% Recovery
6	SPK	S96T001246	0	W	@IC-01	PO4-02	SOLID	5.46e02	5.52e+02	101.099	% Recovery
6	SPK	S96T001246	0	W	@IC-01	SO4-02	SOLID	6.31e02	6.33e+02	100.317	% Recovery
6	SPK	S96T001246	0	W	@IC-01	OXALATE2	SOLID	5.04e02	4.90e+02	97.222	% Recovery

Final page for worklist# 9960

Analyst Signature **Date**

Analyst Signature **Date**

Jann Luye 6/19/96
Reviewer Signature **Date**

Validated 6/19/96 JMF

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 9960

Analyst: eal **Instrument:** IC01 **Book#** 136N9D

Method: IA-533-705 Rev/Mod D-1

Worklist Comment: B-106 @IC-01

Seq	Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC	1		<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL	QC	1		<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2	QC	1		<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR	QC	1		<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC	1		<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC	1		<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC	1		<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1		<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC	5.90e01		5.81e+01	98.475	% Recovery
2	CCV			0	@IC-QC	CL	QC	7.90e01		7.31e+01	92.532	% Recovery
2	CCV			0	@IC-QC	NO2	QC	5.37e02		5.00e+02	93.110	% Recovery
2	CCV			0	@IC-QC	BR	QC	5.75e02		5.61e+02	97.565	% Recovery
2	CCV			0	@IC-QC	NO3	QC	6.14e02		6.01e+02	97.883	% Recovery
2	CCV			0	@IC-QC	PO4	QC	5.46e02		5.21e+02	95.421	% Recovery
2	CCV			0	@IC-QC	SO4	QC	6.31e02		6.24e+02	98.891	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	5.04e02		4.91e+02	97.421	% 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		1.89e-01	0.189	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	S96T001246		0 W	@IC-01	F-02	SOLID	N/A		5.663e+03	62.160	ug/g
4	SAMPLE	S96T001246		0 W	@IC-01	CL-02	SOLID	N/A		1.272e+03	81.290	ug/g
4	SAMPLE	S96T001246		0 W	@IC-01	NO2-02	SOLID	N/A		7.683e+03	511.600	ug/g
4	SAMPLE	S96T001246		0 W	@IC-01	BR-02	SOLID	N/A	<	6.025e+02	602.500	ug/g
4	SAMPLE	S96T001246		0 W	@IC-01	NO3-02	SOLID	N/A		1.833e+05	668.900	ug/g
4	SAMPLE	S96T001246		0 W	@IC-01	PO4-02	SOLID	N/A		3.267e+04	568.500	ug/g
4	SAMPLE	S96T001246		0 W	@IC-01	SO4-02	SOLID	N/A		1.386e+04	649.700	ug/g
4	SAMPLE	S96T001246		0 W	@IC-01	OXALATE2	SOLID	N/A	<	5.020e+02	502.100	ug/g
5	DUP	S96T001246		0 W	@IC-01	F-02	SOLID	5.66e+03		5.82e+03	2.787	RPD
5	DUP	S96T001246		0 W	@IC-01	CL-02	SOLID	1.27e+03		1.31e+03	3.101	RPD
5	DUP	S96T001246		0 W	@IC-01	NO2-02	SOLID	7.68e+03		7.90e+03	2.824	RPD
5	DUP	S96T001246		0 W	@IC-01	BR-02	SOLID	<6.02e2		<6.04e2		RPD
5	DUP	S96T001246		0 W	@IC-01	NO3-02	SOLID	1.83e+05		1.86e+05	1.626	RPD
5	DUP	S96T001246		0 W	@IC-01	PO4-02	SOLID	3.27e+04		3.38e+04	3.308	RPD
5	DUP	S96T001246		0 W	@IC-01	SO4-02	SOLID	1.39e+04		1.43e+04	2.837	RPD
5	DUP	S96T001246		0 W	@IC-01	OXALATE2	SOLID	<5.02e2		<5.03e2		RPD
6	SPK	S96T001246		0 W	@IC-01	F-02	SOLID	5.90e01		4.07e+01	68.983	% Recovery

Units shown for QC (BLK/BKG) may not reflect the actual units.

A-0010-IC DATA FILE/WORKLIST RESOLUTION 19-Jun-96

Worklist#: 9960

		Seq	Type	Sample #
-	=>	1	CCB	
	=>	2	CCV	
	=>	3	BLNK-PREP	
	=>	4	SAMPLE	S96T001246
	=>	5	DUP	S96T001246
	=>	6	SPK	S96T001246
+				

Data File: 9960UN.CSV

	Seq#	Data File	Sample Name	Dilution
-	1	96061701.d01	INST. BLANK	1.00
	2	96061701.d02	136N9-D STD.	101.00
	3	96061701.d03	PREP-BLNK	1.00
		96061701.d04	S96T001246	101.00
	4	96061701.d05	S96T001246	21.00
	5	96061701.d06	S96T001246 DUP	21.00
	6	96061701.d07	S96T001246 SPK	21.00
+				

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Data Reprocessed On 06/19/1996 09:50:19

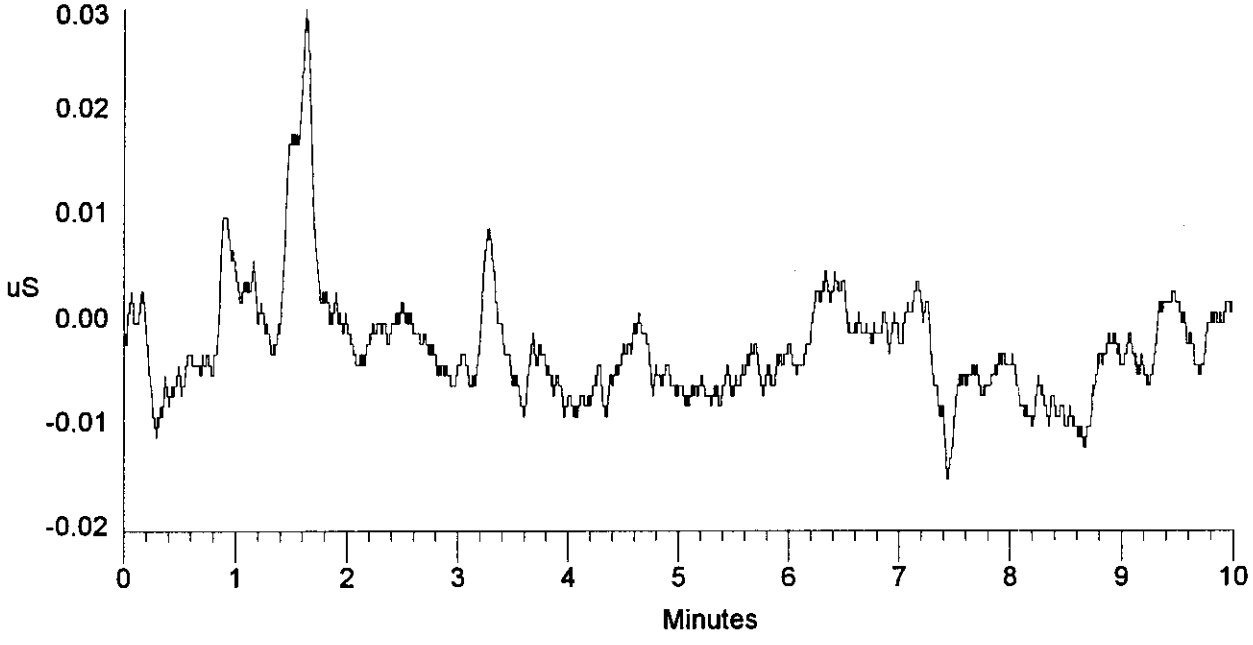
Sample Name: INST. BLANK	Date: 06/17/1996 10:49:14
Data File : C:\DX\DATA\96061701.d01	WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 1	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3000	5Hz	0.00	10.00		100

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 96061701.d01 Sample: INST. BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 174 TO 180.

Data Reprocessed On 06/19/1996 09:50:21

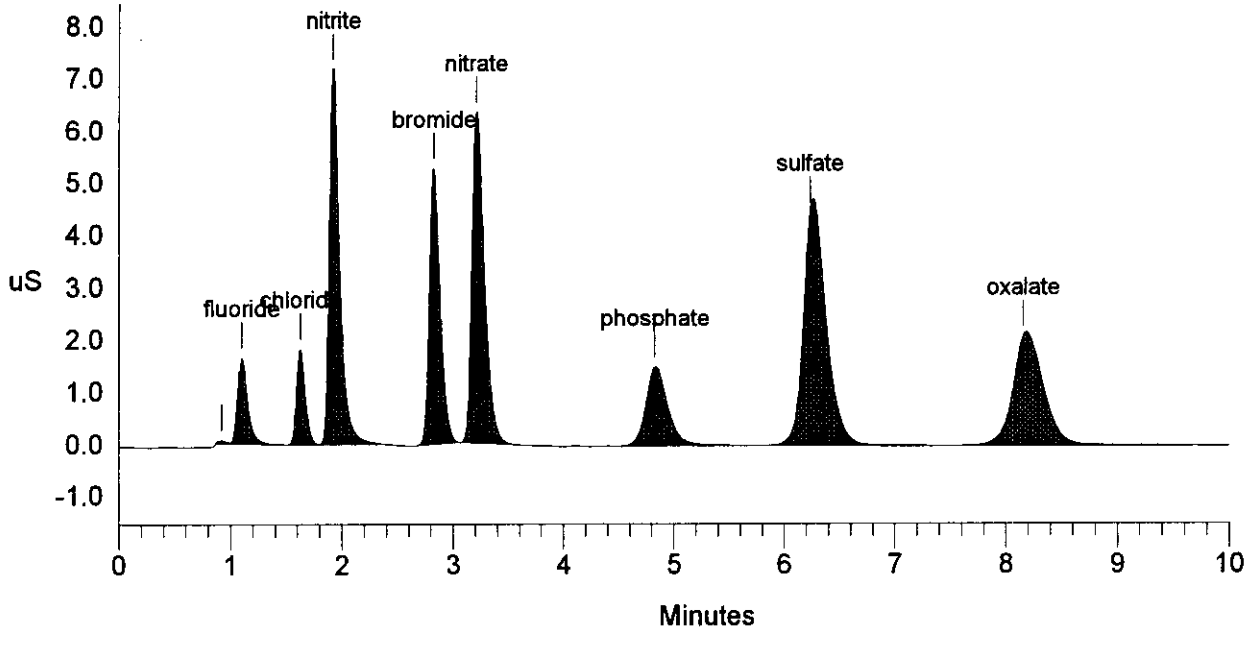
Sample Name: 136N9-D STD.	Date: 06/17/1996 11:00:17
Data File : C:\DX\DATA\96061701.d02	WHC-SD-WM-DP-140, REV.1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 2	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

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	0.92		0.000	58	280	2	
2	1.10	fluoride	58.104	1640	10396	2	0.92
3	1.63	chloride	73.102	1822	9743	1	0.41
4	1.92	nitrite	500.278	7174	46402	1	0.00
5	2.83	bromide	561.035	5278	34992	1	0.24
6	3.21	nitrate	600.872	6332	49158	1	0.10
7	4.83	phosphate	520.555	1512	21217	1	0.56
8	6.24	sulfate	624.119	4469	66742	1	0.81
9	8.16	oxalate	490.578	2103	41018	1	0.62
		Totals	3428.642	30388	279947		

File: 96061701.d02 Sample: 136N9-D STD.



Data Reprocessed On 06/19/1996 09:50:24

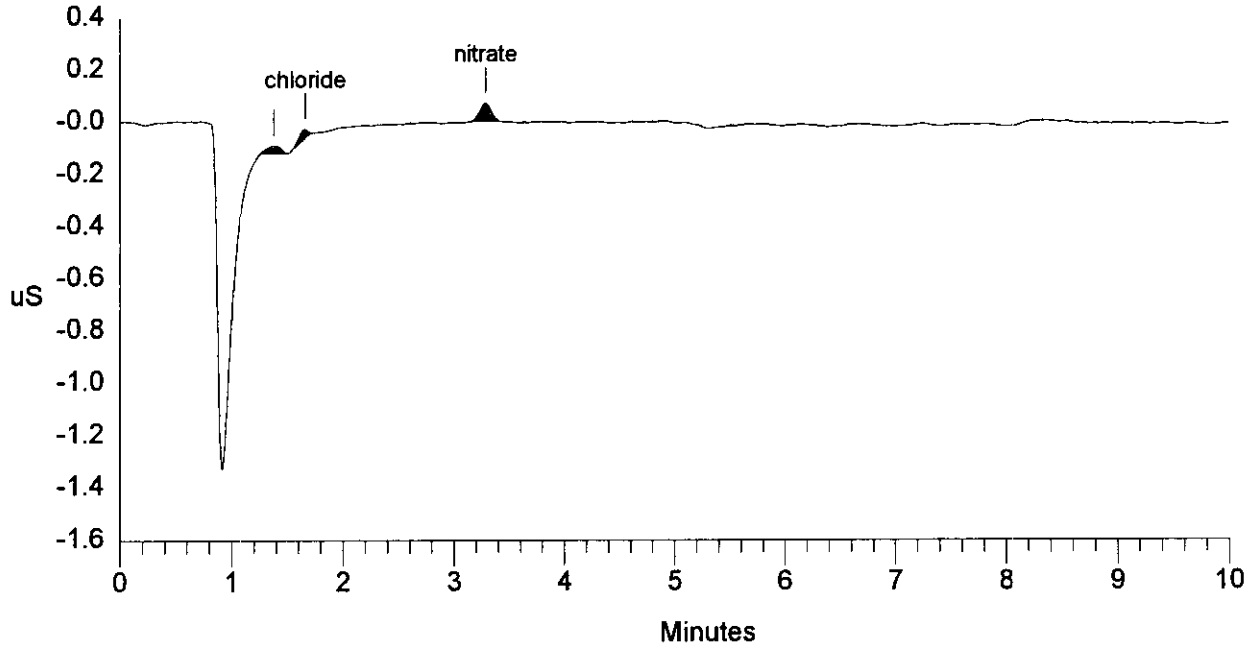
Sample Name: PREP-BLNK	Date: 06/17/1996 11:14:28
Data File : C:\DX\DATA\96061701.d03	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 3	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

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	1.38		0.000	28	244	1	
2	1.66	chloride	0.016	35	209	1	2.47
3	3.29	nitrate	0.189	69	491	1	2.39
		Totals	0.205	132	944		

File: 96061701.d03 Sample: PREP-BLNK



Data Reprocessed On 06/19/1996 09:50:27

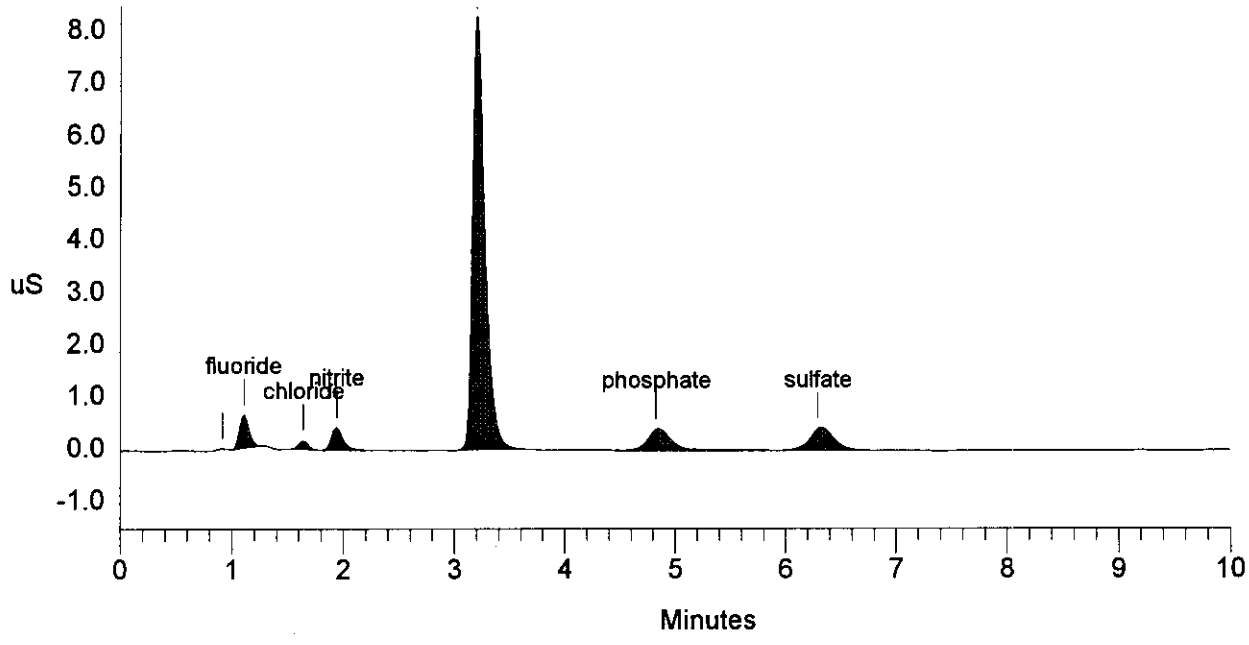
Sample Name: S96T001246 Date: 06/17/1996 11:27:30
Data File : C:\DX\DATA\96061701.d04
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 4 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

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
2	1.11	fluoride	22.322	629	3756	1	1.53
3	1.64	chloride	7.258	168	955	1	1.23
4	1.94	nitrite	42.126	432	3035	1	1.04
5	3.20	nitrate	776.982	8263	64174	1	-0.31
6	4.83	phosphate	152.652	397	6059	1	0.56
7	6.29	sulfate	68.585	416	6625	1	1.67
		Totals	1069.926	10304	84603		

File: 96061701.d04 Sample: S96T001246



Data Reprocessed On 06/19/1996 09:50:30

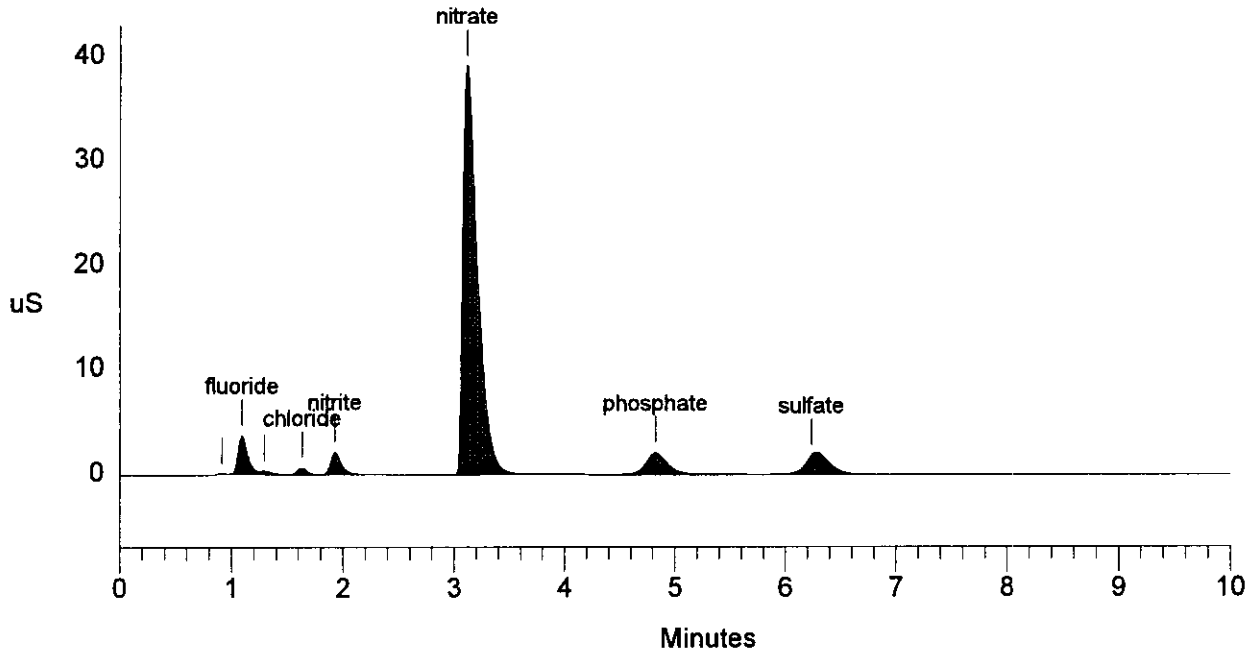
Sample Name: S96T001246 Date: 06/17/1996 11:38:59
Data File : C:\DX\DATA\96061701.d05
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 5 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

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	0.91		0.000	59	263	2	
2	1.09	fluoride	24.870	3692	22207	3	0.31
3	1.29		0.000	247	1512	4	
4	1.63	chloride	5.587	644	3551	1	0.82
5	1.93	nitrite	33.742	2146	14327	1	0.35
6	3.12	nitrate	804.898	39153	355029	1	-2.80
7	4.83	phosphate	143.478	2073	28332	1	0.56
8	6.24	sulfate	60.859	1835	30635	1	0.81
		Totals	1073.434	49848	455856		

File: 96061701.d05 Sample: S96T001246



Data Reprocessed On 06/19/1996 09:50:32

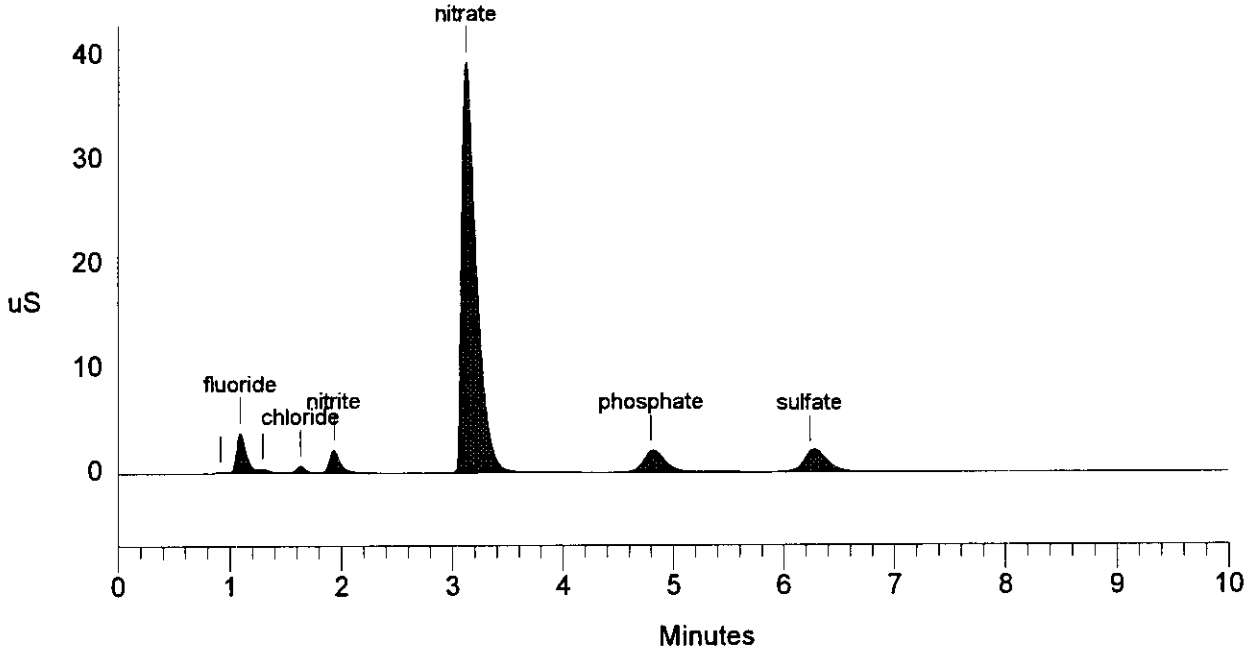
Sample Name: S96T001246 DUP	Date: 06/17/1996 11:51:06
Data File : C:\DX\DATA\96061701.d06	WHC-SD-WM-DP-140, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 6	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

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	0.91		0.000	60	266	2	
2	1.09	fluoride	25.470	3773	22774	3	0.31
3	1.29		0.000	251	1576	4	
4	1.63	chloride	5.723	655	3638	1	0.82
5	1.93	nitrite	34.584	2177	14709	1	0.69
6	3.13	nitrate	815.880	39381	360541	1	-2.60
7	4.80	phosphate	147.911	2036	29233	1	0.00
8	6.24	sulfate	62.423	1916	31446	1	0.81
		Totals	1091.991	50248	464183		

File: 96061701.d06 Sample: S96T001246 DUP



Data Reprocessed On 06/19/1996 09:50:35

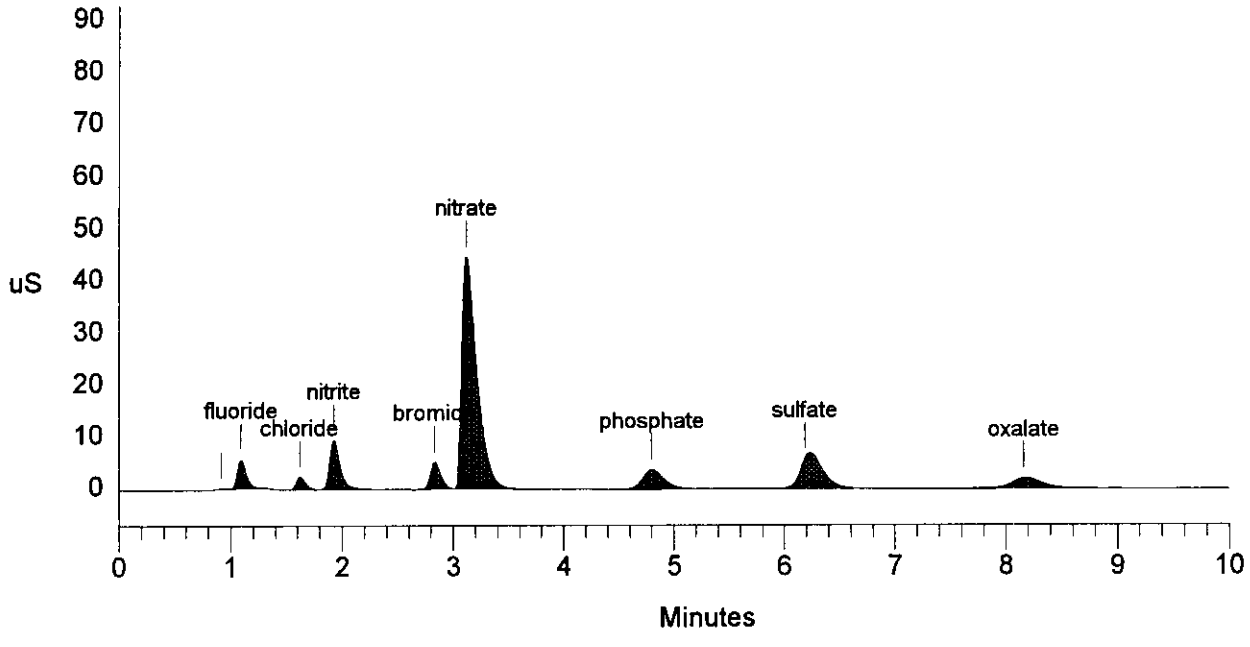
Sample Name: S96T001246 SPK	Date: 06/17/1996 12:02:09
Data File : C:\DX\DATA\96061701.d07	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-140, REV. 1
ACI Address: 1 System: 1 Inject#: 7	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

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	0.91		0.000	107	462	1	
2	1.09	fluoride	33.009	5558	30011	1	0.31
3	1.62	chloride	20.681	2385	13321	1	0.00
4	1.93	nitrite	137.500	9406	61849	1	0.35
5	2.83	bromide	109.446	5171	32755	1	0.47
6	3.12	nitrate	925.937	44685	417085	1	-2.80
7	4.80	phosphate	253.954	3769	51221	1	0.00
8	6.19	sulfate	187.558	5776	97606	1	-0.05
9	8.16	oxalate	98.028	2084	39390	1	0.62
		Totals	1766.113	78941	743700		

File: 96061701.d07 Sample: S96T001246 SPK



LABCORE Data Entry Template for Worklist# 10836

Analyst: dss **Instrument:** IC00 IC03 **Book#** 142N9-B

Method: LA-533-105 **Rev/Mod** D-1

Worklist Comment: B-106 IC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S96T003626	0	W	@IC-01	SOLID	95000096	B-106
		Analytes Requested:			BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
5	DUP	S96T003626	0	W	@IC-01	SOLID		
6	SPK	S96T003626	0	W	@IC-01	SOLID		

Final page for worklist # 10836

D S Suffer 7-17-96
Analyst Signature **Date**

Analyst Signature **Date**

10836jy.csv
In shell
Uploaded 7/19/96 JMF
Validated 7/19/96 JMF

Data Entry Comments: 96071711.D07 ⇒ D12

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 10836

Analyst: dgg **Instrument:** IC03 **Book#** 142N98

Method: IA-533-105 Rev/Mod D-1

Worklist Comment: B-106 IC. RCJ

Seq	Type	Sample#	R	A	Test		Matrix	Actual	Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F	QC	1	<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL	QC	1	<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2	QC	1	<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR	QC	1	<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC	1	<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC	1	<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC	1	<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1	<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC	5.90e01	6.37e+01	107.966	% Recovery
2	CCV			0	@IC-QC	CL	QC	7.90e01	8.52e+01	107.848	% Recovery
2	CCV			0	@IC-QC	NO2	QC	5.37e02	5.42e+02	100.931	% Recovery
2	CCV			0	@IC-QC	BR	QC	5.89e02	6.11e+02	103.735	% Recovery
2	CCV			0	@IC-QC	NO3	QC	5.94e02	6.16e+02	103.704	% Recovery
2	CCV			0	@IC-QC	PO4	QC	5.45e02	5.68e+02	104.220	% Recovery
2	CCV			0	@IC-QC	SO4	QC	6.31e02	6.68e+02	105.864	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	5.08e02	5.48e+02	107.874	% 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
5	DUP	S96T003626	W	0	@IC-01	F-02	SOLID	2.76e+03	2.84e+03	2.857	RPD
5	DUP	S96T003626	W	0	@IC-01	CL-02	SOLID	1.45e+03	1.36e+03	6.406	RPD
5	DUP	S96T003626	W	0	@IC-01	NO2-02	SOLID	7.84e+03	7.41e+03	5.639	RPD
5	DUP	S96T003626	W	0	@IC-01	BR-02	SOLID	<9.83e2	<9.77e2		RPD
5	DUP	S96T003626	W	0	@IC-01	NO3-02	SOLID	1.96e+05	1.90e+05	3.109	RPD
5	DUP	S96T003626	W	0	@IC-01	PO4-02	SOLID	3.16e+04	2.97e+04	6.199	RPD
5	DUP	S96T003626	W	0	@IC-01	SO4-02	SOLID	1.48e+04	1.45e+04	2.048	RPD
5	DUP	S96T003626	W	0	@IC-01	OXALATE2	SOLID	<8.19e2	<8.15e2		RPD
6	SPK	S96T003626	W	0	@IC-01	F-02	SOLID	5.90e01	6.59e+01	111.695	% Recovery
6	SPK	S96T003626	W	0	@IC-01	CL-02	SOLID	7.90e01	8.62e+01	109.114	% Recovery
6	SPK	S96T003626	W	0	@IC-01	NO2-02	SOLID	5.37e02	5.71e+02	106.331	% Recovery
6	SPK	S96T003626	W	0	@IC-01	BR-02	SOLID	5.89e02	6.09e+02	103.396	% Recovery
6	SPK	S96T003626	W	0	@IC-01	NO3-02	SOLID	5.94e02	6.71e+02	112.963	% Recovery
6	SPK	S96T003626	W	0	@IC-01	PO4-02	SOLID	5.45e02	5.71e+02	104.771	% Recovery
6	SPK	S96T003626	W	0	@IC-01	SO4-02	SOLID	6.31e02	6.93e+02	109.826	% Recovery
6	SPK	S96T003626	W	0	@IC-01	OXALATE2	SOLID	5.08e02	5.37e+02	105.709	% Recovery
	SAMPLE	S96T003626	W	0	@IC-01	F-02	SOLID	N/A	2.765e+03	101.400	ug/g

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Completed Worklist Report for Worklist# 10836

Seq Type	Sample#	R	A	Test		Matrix	Actual		Found	DL or Yield	Unit
SAMPLE	S96T003626	0	W	@IC-01	CL-02	SOLID	N/A		1.451e+03	132.600	ug/g
SAMPLE	S96T003626	0	W	@IC-01	NO2-02	SOLID	N/A		7.836e+03	834.800	ug/g
SAMPLE	S96T003626	0	W	@IC-01	BR-02	SOLID	N/A	<	9.831e+02	983.200	ug/g
SAMPLE	S96T003626	0	W	@IC-01	NO3-02	SOLID	N/A		1.960e+05	1091.000	ug/g
SAMPLE	S96T003626	0	W	@IC-01	PO4-02	SOLID	N/A		3.159e+04	927.800	ug/g
SAMPLE	S96T003626	0	W	@IC-01	SO4-02	SOLID	N/A		1.479e+04	1060.000	ug/g
SAMPLE	S96T003626	0	W	@IC-01	OXALATE2	SOLID	N/A	<	8.192e+02	819.200	ug/g

Final page for worklist# 10836

Analyst Signature Date

Analyst Signature Date

Reviewer Signature Date 7/19/96

Units shown for QC (BLK/BKG) may not reflect the actual units.

A-0010-IC DATA FILE/WORKLIST RESOLUTION 19-Jul-96

Worklist#: 10836

		Seq	Type	Sample #
-	=>	1	CCB	
	=>	2	CCV	
	=>	3	BLNK-PREP	
	=>	4	SAMPLE	S96T003626
	=>	5	DUP	S96T003626
	=>	6	SPK	S96T003626
+				

Data File: 10836JY.CSV

	Seq#	Data File	Sample Name	Dilution
-	1	96071711.d07	BASELINE BLANK	1.00
	2	96071711.d08	STD. 142N9-B	101.00
	3	96071711.d09	PREP-BLANK	1.00
	4	96071711.d10	S96T003626	41.00
	5	96071711.d11	S96T003626 DUP	41.00
	6	96071711.d12	S96T003626 SPK	41.00
+				

Save(F4) Abort(Shift-F3) ListFiles(Shift-F1) UploadFile(F8)

Data Reprocessed On 07/19/1996 10:56:41

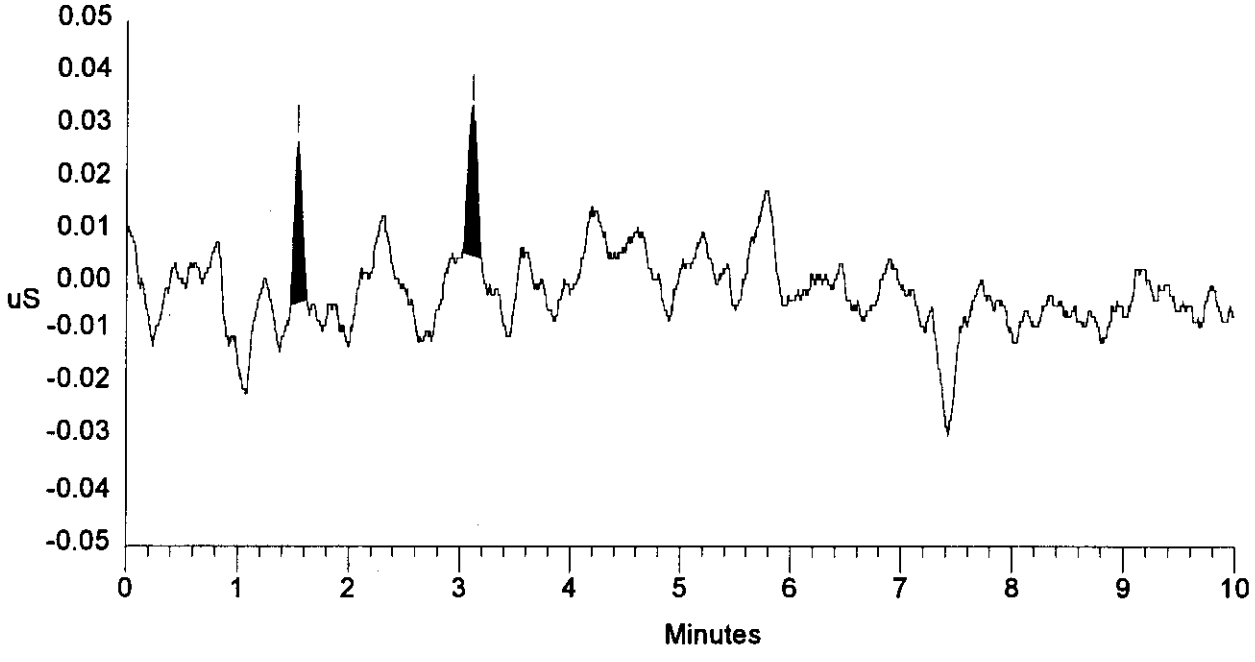
Sample Name: BASELINE BLANK	Date: 07/17/1996 10:55:50	
Data File : E:\DATA\96071711.d07		
Method : C:\DX\METHOD\ANIONS.MET		
ACI Address: 1 System: 2 Inject#: 7		Detector:CDM-1
Analyst : Jason Luye for DJS 7/19/96	Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
		Totals	0.000	0	0		

File: 96071711.d07 Sample: BASELINE BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 185 TO 190.

Data Reprocessed On 07/19/1996 10:56:43

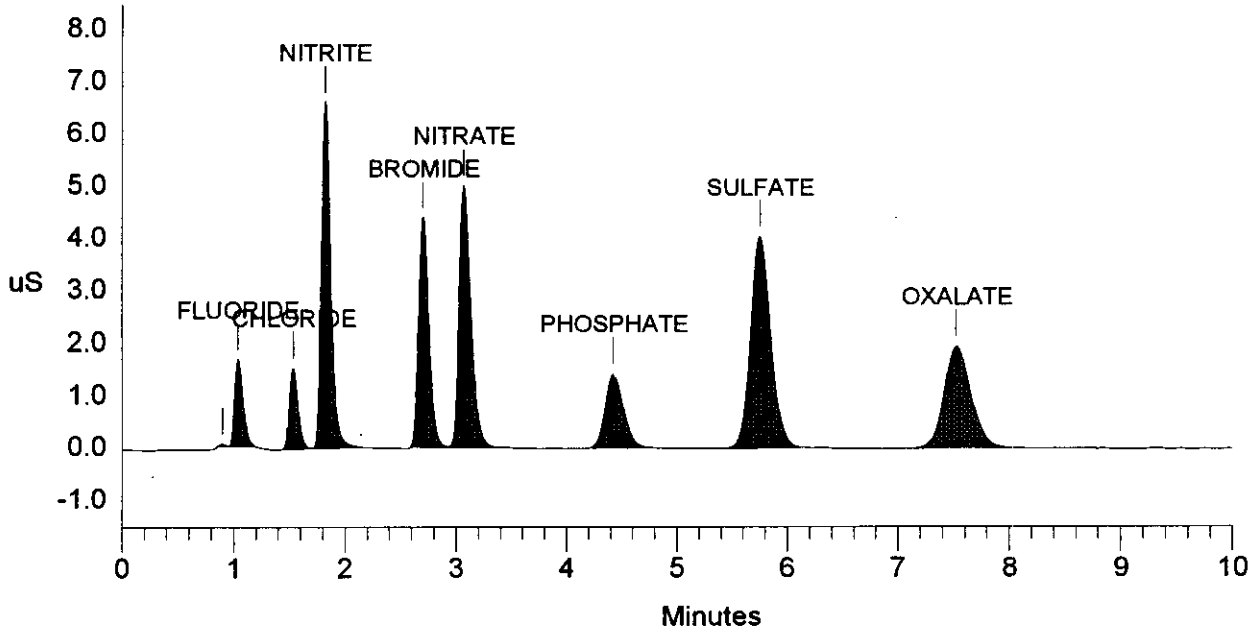
Sample Name: STD. 142N9-B	Date: 07/17/1996 11:08:37
Data File : E:\DATA\96071711.d08	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 8	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	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
2	1.04	FLUORIDE	63.723	1638	8700	2	-0.32
3	1.54	CHLORIDE	85.192	1527	8175	1	-0.86
4	1.82	NITRITE	542.219	6601	38241	1	-1.44
5	2.70	BROMIDE	611.063	4366	28171	2	0.87
6	3.07	NITRATE	616.197	4998	36641	2	0.99
7	4.42	PHOSPHATE	568.000	1404	16178	1	-1.26
8	5.76	SULFATE	667.508	4038	50706	1	-0.40
9	7.53	OXALATE	547.606	1933	32247	1	-1.95
		Totals	3701.508	26505	219058		

File: 96071711.d08 Sample: STD. 142N9-B



Data Reprocessed On 07/19/1996 10:56:45

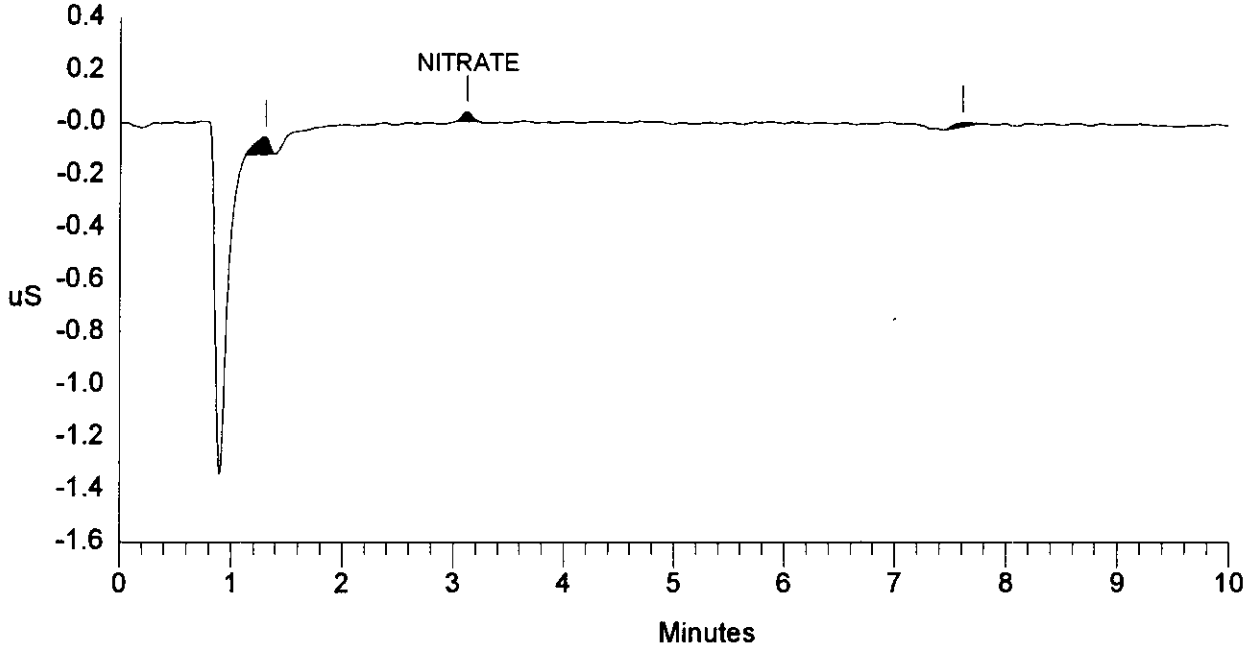
Sample Name:	PREP-BLANK	Date: 07/17/1996 11:21:47	
Data File :	E:\DATA\96071711.d09		
Method :	C:\DX\METHOD\ANIONS.MET		
ACI Address:	1 System: 2 Inject#: 9	Detector:CDM-1	
Analyst :	Column:		

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.30		0.000	67	587	1	
2	3.12	NITRATE	0.035	34	207	1	2.74
		Totals	0.035	101	794		

File: 96071711.d09 Sample: PREP-BLANK



Data Reprocessed On 07/19/1996 10:56:47

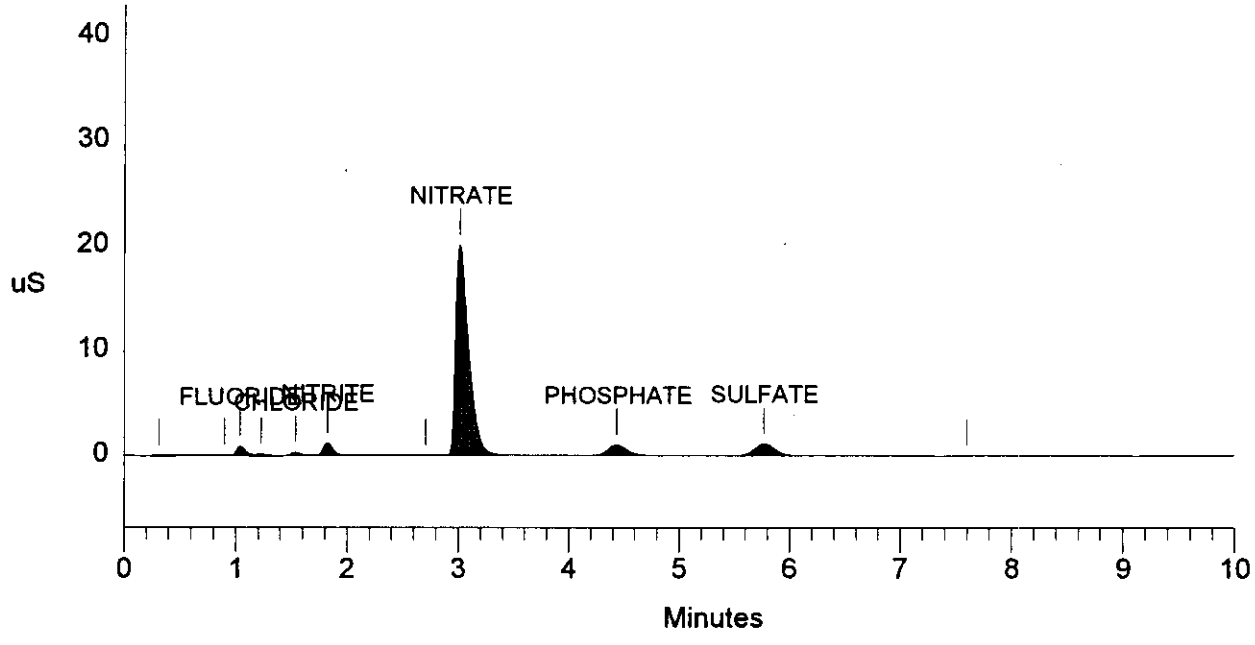
Sample Name: S96T003626	Date: 07/17/1996 11:34:23
Data File : E:\DATA\96071711.d10	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 10	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.31		0.000	17	213	1	
3	1.04	FLUORIDE	14.529	876	4857	3	-0.32
4	1.22		0.000	156	969	4	
5	1.54	CHLORIDE	7.627	339	1779	1	-0.86
6	1.82	NITRITE	41.176	1177	7063	1	-1.44
8	3.02	NITRATE	1030.239	20076	161668	1	-0.77
9	4.44	PHOSPHATE	166.010	1001	11578	1	-0.97
10	5.77	SULFATE	77.746	1122	14336	1	-0.17
		Totals	1337.328	24763	202464		

File: 96071711.d10 Sample: S96T003626



Data Reprocessed On 07/19/1996 10:56:49

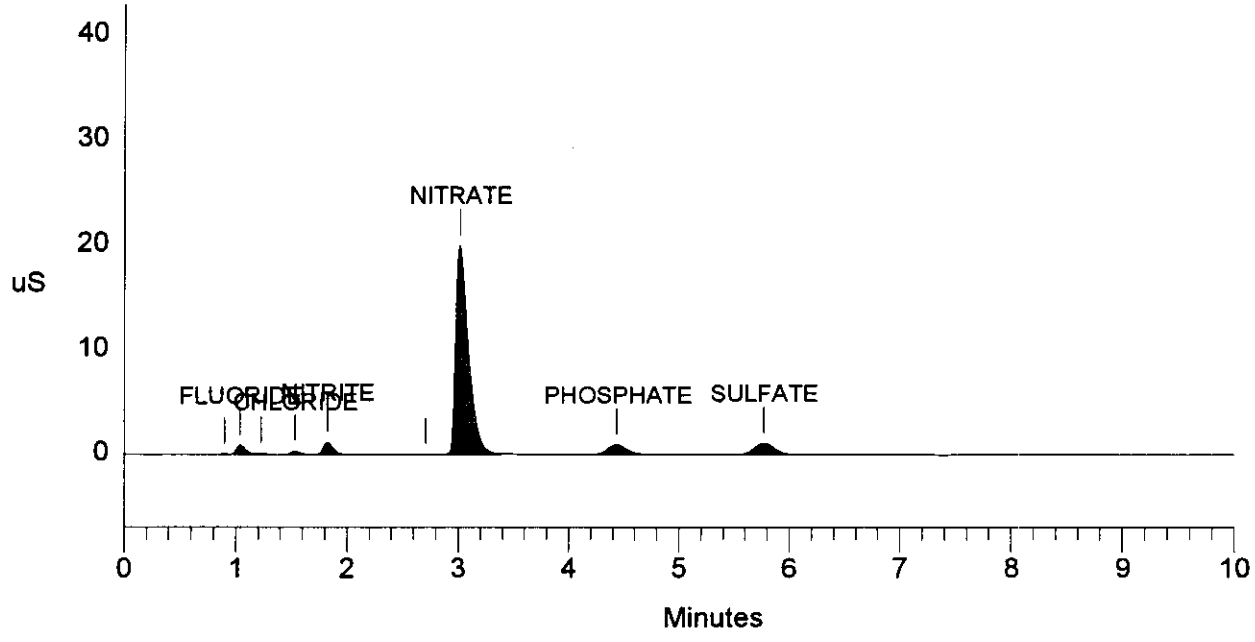
Sample Name: S96T003626 DUP	Date: 07/17/1996 11:48:23
Data File : E:\DATA\96071711.d11	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 11	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3000	5Hz	0.00	10.00		200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.04	FLUORIDE	15.009	889	5019	3	-0.32
3	1.22		0.000	158	962	4	
4	1.53	CHLORIDE	7.173	320	1673	1	-1.29
5	1.82	NITRITE	39.178	1168	6720	1	-1.44
7	3.02	NITRATE	1003.917	19990	157132	1	-0.77
8	4.44	PHOSPHATE	157.026	939	10943	1	-0.97
9	5.77	SULFATE	76.759	1113	14153	1	-0.17
		Totals	1299.062	24576	196601		

File: 96071711.d11 Sample: S96T003626 DUP



Data Reprocessed On 07/19/1996 10:56:51

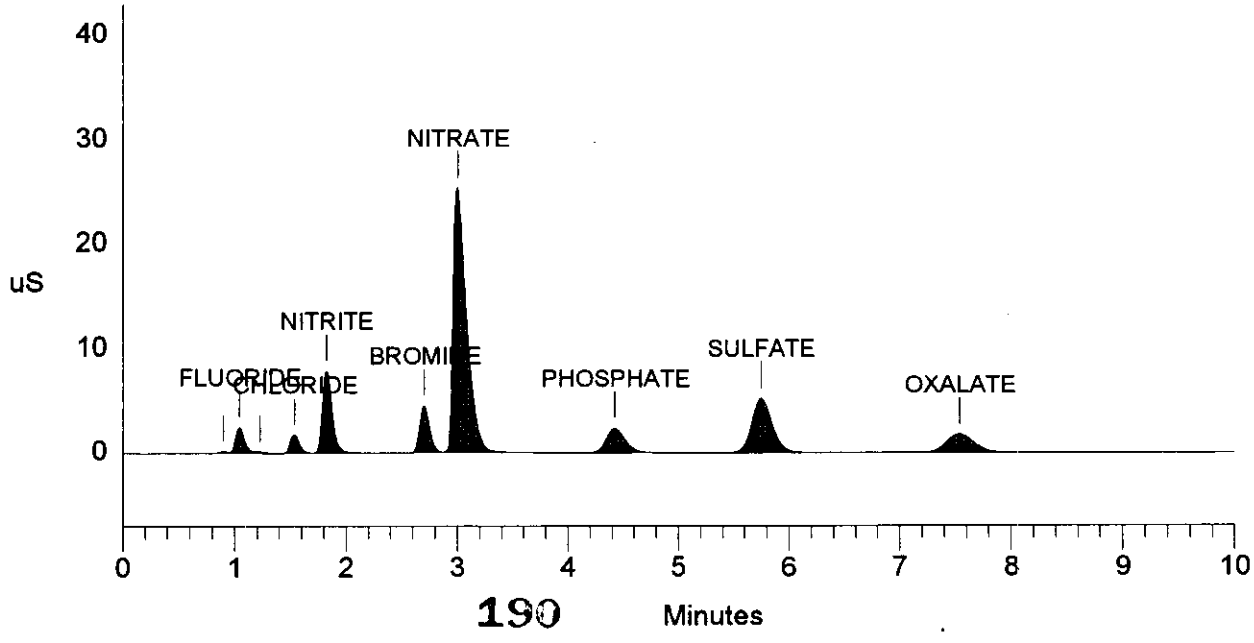
Sample Name: S96T003626 SPK	Date: 07/17/1996 13:25:03
Data File : E:\DATA\96071711.d12	
Method : C:\DX\METHOD\ANIONS.MET	
ACI Address: 1 System: 2 Inject#: 12	Detector:CDM-1
Analyst : Column:	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3000	5Hz	0.00	10.00	200

********** Peak Report: All Peaks **********

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.90		0.000	101	420	2	
2	1.04	FLUORIDE	40.892	2536	13865	3	0.32
3	1.22		0.000	161	1009	4	
4	1.54	CHLORIDE	42.126	1826	9996	1	-0.86
5	1.82	NITRITE	269.625	7950	47013	1	-1.44
6	2.70	BROMIDE	243.704	4547	27666	2	0.87
7	3.00	NITRATE	1298.616	25386	209494	2	-1.21
8	4.42	PHOSPHATE	394.528	2427	28122	1	-1.26
9	5.75	SULFATE	354.834	5305	66839	1	-0.52
10	7.54	OXALATE	214.876	1844	31157	1	-1.78
		Totals	2859.201	52082	435580		

File: 96071711.d12 Sample: S96T003626 SPK



FILE # 09508038

LABCORE Data Entry Template for Worklist# 1878

Analyst: B. GOECKE **Instrument:** ~~ICP01~~ ICP02 **Book#** 46848A

Method: LA-505-~~151~~ 161 Rev/Mod A-1

Worklist Comment: ICP B-106 FUSION (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	PREPBLKTJA				@ICP-F03	SOLID		
6	SAMPLE	S95T001277	0	F	@ICP-F03	SOLID	95000096	B-106
	Analytes Requested: LI-F-01							
7	DUP	S95T001277	0	F	@ICP-F03	SOLID		
8	SPK	S95T001277	0	F	@ICP-F03	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T001279	0	F	@ICP-F03	SOLID	95000096	B-106
	Analytes Requested: LI-F-01							
12	DUP	S95T001279	0	F	@ICP-F03	SOLID		
13	SPK	S95T001279	0	F	@ICP-F03	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1878

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 1878

Analyst Signature: [signature] Date: 8-3-95

Validated By: [signature] Analyst Signature: [signature] Date: 8/8/95

		DF
PREPOLR TSA	1mL - 5mL	10
S95T001277-L	.5245g in 250mL - 1mL - 5mL - 2mL - 5mL	23832
S95T001277	.5245g in 250mL - 1mL - 5mL	4766
S95T001277-D	.5270g in 250mL - 1mL - 5mL	4744
S95T001277-A	.5245g in 250mL - 1mL - 2mL - 2mL	4766
S95T001278-L	.5281g in 250mL - 1mL - 5mL - 2mL - 5mL	23670
S95T001278	.5281g in 250mL - 1mL - 5mL	4734
S95T001278-D	.5355g in 250mL - 1mL - 5mL	4668
S95T001278-A	.5281g in 250mL - 1mL - 2mL - 2mL	4734

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950803B	ICP2	08/03/95	13:30	BJG	Q	CONC
2	ICB	950803B	ICP2	08/03/95	13:34	BJG	Q	CONC
3	ICSA	950803B	ICP2	08/03/95	13:39	BJG	Q	CONC
4	ICSAB	950803B	ICP2	08/03/95	13:42	BJG	Q	CONC
5	PREPBLKTJA	950803B	ICP2	08/03/95	13:51	BJG	S	CONC
6	S95T001277_L	950803B	ICP2	08/03/95	13:58	BJG	S	CONC
7	S95T001277	950803B	ICP2	08/03/95	14:02	BJG	S	CONC
8	S95T001277_D	950803B	ICP2	08/03/95	14:07	BJG	S	CONC
9	S95T001277_A	950803B	ICP2	08/03/95	14:11	BJG	S	CONC
10	CCV	950803B	ICP2	08/03/95	14:40	BJG	Q	CONC
11	CCB	950803B	ICP2	08/03/95	14:45	BJG	Q	CONC
12	S95T001279_L	950803B	ICP2	08/03/95	14:49	BJG	S	CONC
13	S95T001279	950803B	ICP2	08/03/95	14:56	BJG	S	CONC
14	S95T001279_D	950803B	ICP2	08/03/95	14:59	BJG	S	CONC
15	S95T001279_A	950803B	ICP2	08/03/95	15:03	BJG	S	CONC
16	ICSA	950803B	ICP2	08/03/95	15:09	BJG	Q	CONC
17	ICSAB	950803B	ICP2	08/03/95	15:12	BJG	Q	CONC
18	CCV_1	950803B	ICP2	08/03/95	15:17	BJG	Q	CONC
19	CCV_1	950803B	ICP2	08/03/95	15:27	BJG	Q	CONC
20	CCB_1	950803B	ICP2	08/03/95	15:31	BJG	Q	CONC

DK Lee
For B.J. Goecke
08-03-95

WHC-SD-WM-DP-140, REV. 1

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 193 TO 197.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.936	4.921	5.042	4.927	4.826	5.120
2	ICB	.0019	.0131	.0170	-.0014	.0001	.0001
3	ICSA	.0012	240.3	-.0299	-.0034	.0019	.0001
4	ICSAB	.9384	240.6	-.0281	-.0091	.4503	.4667
5	PREPBLKTJA	.0124	.1166	.0859	.0087	.0168	.0006
6	S95T001277_L	28.14	1909.	99.41	-27.09	41.67	.5629
7	S95T001277_	2.172	1719.	59.21	-3.217	37.79	-.3943
8	S95T001277_D	1.910	1706.	-.6241	34.92	37.46	-.4068
9	S95T001277_A	3796.	5516.	4899.	4116.	3721.	4512.
10	CCV	5.018	5.068	5.248	5.048	5.058	5.254
11	CCB	.0011	.0048	.0042	-.0029	-.0000	-.0000
12	S95T001279_L	9.725	2261.	133.3	-50.84	45.12	-.2014
13	S95T001279_	9.926	2222.	-12.04	28.97	43.96	.2482
14	S95T001279_D	2.434	2432.	60.59	62.20	49.46	.7129
15	S95T001279_A	3585.	6501.	4699.	4357.	4317.	4516.
16	ICSA	-.0017	263.1	-.1954	-.0147	.0020	-.0000
17	ICSAB	.9973	261.0	-.1825	-.0048	.5014	.5081
18	CCV_1	5.302	5.400	Q5.619	5.443	5.453	Q5.684
19	CCV_1	4.892	4.916	5.052	4.917	4.862	5.072
20	CCB_1	.0010	.0071	-.0035	-.0014	.0002	.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.086	5.022	5.056	4.973	5.080	5.058
2	ICB	.0195	.0025	.0004	.0054	-.0004	.0011
3	ICSA	-.0072	234.8	.0015	.0141	.0007	.0066
4	ICSAB	-.0121	234.3	.9219	.0107	.4539	.4666
5	PREPBLKTJA	.1608	.2147	-.0065	.0318	.0026	.0007
6	S95T001277_L	453.4	4249.	-2.903	185.6	.3167	132.7
7	S95T001277_	240.6	3773.	-4.278	-56.64	6.353	131.0
8	S95T001277_D	330.7	4075.	-9.232	-23.44	13.71	143.0
9	S95T001277_A	4672.	9192.	5049.	3931.	4857.	4965.
10	CCV	5.121	5.165	5.197	5.142	5.226	5.177
11	CCB	-.0110	-.0004	.0008	-.0041	-.0003	-.0007
12	S95T001279_L	720.7	4071.	17.49	12.42	-63.04	384.3
13	S95T001279_	262.1	4089.	5.585	45.84	12.89	427.7
14	S95T001279_D	437.3	4128.	14.38	132.0	42.96	449.5
15	S95T001279_A	4872.	8121.	4472.	4359.	4507.	4879.
16	ICSA	.0371	246.9	-.0025	.0044	.0013	.0056
17	ICSAB	-.0541	247.7	.9823	.0118	.4946	.5018
18	CCV_1	5.404	Q5.507	Q5.513	Q5.540	Q5.542	Q5.509
19	CCV_1	5.030	5.009	5.060	4.957	5.089	5.040
20	CCB_1	.0311	-.0022	.0003	-.0085	.0005	-.0002

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	4.948	.0076	5.046	4.731	4.964	4.920
2	ICB	.0006	.0012	.0020	.1214	.0013	.0011
3	ICSA	-.0094	.0055	90.61	.2429	-.0030	.0026
4	ICSAB	.4686	.0086	90.06	.0674	-.0038	.9659
5	PREPBLKTJA	.0211	.0267	.1243	14920.	.0017	.0175

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

#	Sample Name	Cu	Eu	Fe	K	La	Li
6	S95T001277_L	53.88	69.80	12850.	7972e3	21.99	46.18
7	S95T001277_	52.89	22.33	12680.	7631e3	-2.177	19.79
8	S95T001277_D	35.61	39.72	14420.	6818e3	-1.058	34.58
9	S95T001277_A	3847.	65.06	17060.	6637e3	3905.	3392.
10	CCV	5.148	.0029	5.171	5.054	5.135	5.104
11	CCB	.0008	-.0021	.0005	.1204	.0000	-.0016
12	S95T001279_L	58.60	-56.01	15070.	6911e3	2.340	-61.16
13	S95T001279_	74.53	13.35	14550.	6398e3	12.77	13.40
14	S95T001279_D	82.47	1.884	14720.	6969e3	30.76	1.723
15	S95T001279_A	4478.	-3.480	18300.	6269e3	4416.	4414.
16	ICSA	-.0131	.0019	97.59	-.0402	-.0064	-.0006
17	ICSAB	.5093	.0016	97.11	.2414	-.0044	1.082
18	CCV_1	Q5.538	.0017	Q5.500	5.260	Q5.542	Q5.506
19	CCV_1	4.968	.0055	5.023	4.851	4.954	4.905
20	CCB_1	.0016	-.0027	-.0001	.0542	-.0011	-.0020

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.926	4.916	5.070	4.877	5.105	5.050
2	ICB	.0002	.0006	.0010	.0105	.0007	-.0019
3	ICSA	243.2	-.0061	-.0081	187.8	.0048	-.0121
4	ICSAB	243.1	.4364	-.0095	188.8	-.0005	.8860
5	PREPBLKTJA	.1018	.0402	-.0171	4.666	-.0097	9.223
6	S95T001277_L	765.4	180.8	-24.31	90080.	18.13	7501.
7	S95T001277_	831.6	169.1	2.009	85910.	23.76	7444.
8	S95T001277_D	815.0	196.7	-2.315	82960.	33.73	6937.
9	S95T001277_A	4727.	4682.	4808.	76180.	3904.	12360.
10	CCV	5.031	5.064	5.190	5.017	5.257	5.145
11	CCB	.0097	-.0004	.0010	-.0216	-.0024	-.0030
12	S95T001279_L	651.2	572.7	-42.21	97220.	-216.5	6250.
13	S95T001279_	944.1	577.6	4.878	90500.	7.487	6259.
14	S95T001279_D	1163.	569.4	12.34	94710.	75.15	7778.
15	S95T001279_A	5180.	4766.	4526.	93490.	4527.	10260.
16	ICSA	266.4	-.0094	-.0064	210.7	.0046	-.0198
17	ICSAB	264.5	.4644	-.0052	208.9	.0055	.9414
18	CCV_1	5.322	5.354	Q5.514	5.356	Q5.685	5.450
19	CCV_1	4.901	4.912	5.033	4.859	5.077	5.004
20	CCB_1	.0101	-.0001	-.0004	-.0267	.0006	-.0033

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.160	5.060	5.054	4.773	5.025	5.040
2	ICB	.0141	-.0008	.0011	.0168	.0423	.0088
3	ICSA	-.0123	.0088	-.0190	.0019	-.0101	.0084
4	ICSAB	.0102	.9459	-.0111	.0084	-.0345	.0109
5	PREPBLKTJA	.1018	-.0347	.1018	.1264	.4364	.1514
6	S95T001277_L	21950.	4.826	5135.	65.86	603.7	827.1
7	S95T001277_	21900.	227.1	4945.	-36.76	-22.17	725.8
8	S95T001277_D	22810.	239.3	5043.	-20.35	242.1	830.6
9	S95T001277_A	26200.	5203.	9524.	4512.	5160.	5601.
10	CCV	5.236	5.163	5.113	4.893	5.111	4.574
11	CCB	.0052	.0196	.0040	-.0033	-.0127	-.0047

WHC-SD-WM-DP-140, REV. 1

#	Sample Name	P	Pb	S	Sb	Se	Si
12	S95T001279_L	24570.	270.9	4461.	106.5	-928.3	2452.
13	S95T001279_	24670.	290.1	4645.	74.53	-165.6	2719.
14	S95T001279_D	24490.	430.6	4874.	111.3	-294.7	2843.
15	S95T001279_A	27540.	4651.	8994.	4326.	4158.	6485.
16	ICSA	.0018	.0262	-.0206	.0038	-.1215	-.0272
17	ICSAB	-.0255	1.026	-.0273	-.0001	-.1207	-.0219
18	CCV_1	Q5.628	5.418	5.445	5.187	Q5.504	4.782
19	CCV_1	4.932	5.042	4.976	4.757	4.974	4.673
20	CCB_1	-.0082	.0081	-.0033	.0068	-.0080	.0002

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.966	4.883	.0091	4.844	4.939	9.891
2	ICB	.0150	.0002	.0029	.0004	.0007	.0411
3	ICSA	-.0028	.0018	-.0033	.0014	.0107	-.0314
4	ICSAB	-.0021	.0019	-.0080	.0012	.0669	-.0222
5	PREPBLKTJA	.2582	.0105	.2172	.0127	.1679	-3.265
6	S95T001277_L	675.4	317.9	57.43	108.9	213.8	6632.
7	S95T001277_	209.6	301.0	30.96	92.52	-1.364	4923.
8	S95T001277_D	425.7	305.8	.8655	97.29	38.32	5805.
9	S95T001277_A	4303.	4084.	-4.447	4215.	4638.	13190.
10	CCV	5.152	5.016	-.0531	5.009	5.058	10.24
11	CCB	-.0212	-.0003	.0062	.0004	-.0006	-.0984
12	S95T001279_L	-758.8	313.8	158.9	114.7	-262.6	1555.
13	S95T001279_	142.8	300.1	26.17	132.1	-118.3	4651.
14	S95T001279_D	4.686	307.7	162.3	198.6	-78.29	4161.
15	S95T001279_A	4313.	4602.	-7.246	4468.	4123.	12570.
16	ICSA	-.0416	.0014	-.0225	.0010	.0148	.1253
17	ICSAB	-.0398	.0011	-.0084	.0019	-.0320	.1262
18	CCV_1	Q5.558	5.429	-.0584	5.382	5.322	Q11.01
19	CCV_1	4.945	4.842	-.0019	4.835	4.877	9.857
20	CCB_1	-.0279	-.0000	.0076	.0007	-.0067	-.1187

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.056	.0136	5.037	4.941
2	ICB	.0026	.0006	.0017	.0029
3	ICSA	-.0005	.0077	-.0024	-.0015
4	ICSAB	.4574	.0076	.9448	-.0012
5	PREPBLKTJA	.0585	.0133	.0177	.0198
6	S95T001277_L	139.6	44.84	184.0	97.08
7	S95T001277_	50.84	19.80	125.8	34.38
8	S95T001277_D	98.35	33.10	113.5	64.02
9	S95T001277_A	4686.	56.04	5025.	4299.
10	CCV	5.195	.0123	5.143	5.112
11	CCB	-.0045	-.0013	.0013	-.0039
12	S95T001279_L	-120.6	-29.71	138.9	-97.37
13	S95T001279_	35.47	15.60	147.3	20.45
14	S95T001279_D	9.779	9.156	141.4	-6.824
15	S95T001279_A	4491.	14.11	4547.	4389.
16	ICSA	-.0111	.0057	-.0003	-.0069
17	ICSAB	.4865	.0057	1.005	-.0087

#	Sample Name	V	Y	Zn	Zr
18	CCV_1	Q5.548	.0122	5.408	5.474
19	CCV_1	5.031	.0124	5.025	4.937
20	CCB_1	-.0053	-.0016	.0011	-.0037

WHC-SD-WM-DP-140, REV. 1

LABCORE Data Entry Template for Worklist# 1879

Analyst: JK [signature] **Instrument:** ICP01 [initials] 7-31-95 **Book#** 43B48B

Method: LA-505-151 Rev/Mod G-1

Worklist Comment: ICP B-106 FUSION (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	PREPBLK~~ARL~~ TJG [initials] 7-31-95				@ICP-F03	SOLID		
6	SAMPLE	S95T001282	0	F	@ICP-F03	SOLID	95000096	B-106
		Analytes Requested: LI-F-01						
7	DUP	S95T001282	0	F	@ICP-F03	SOLID		
8	SPK	S95T001282	0	F	@ICP-F03	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T001285	0	F	@ICP-F03	SOLID	95000096	B-106
		Analytes Requested: LI-F-01						
12	DUP	S95T001285	0	F	@ICP-F03	SOLID		
13	SPK	S95T001285	0	F	@ICP-F03	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1879

S Type	Sample#	R A	Test	Matrix	Group#	Project

Final page for worklist # 1879

JK Lalo 07-31-95
Analyst Signature Date

Reviewed + Validated by:
Saml M. Parrag 07/31/95
Analyst Signature Date

PrepblkTJa 1-9 ml

S95T001282_L, .5302g → 250 ml, 1-9-2-8, (250 x 50)/.5302 = 23576
S95T001282 .5302g → 250 1-9 (250 x 10)/.5302 = ~~4715.2~~ 4715.2 DL 7-31-95
S95T001282_D .5267g → 250 1-9 (250 x 10)/.5267 = 4746.5
S95T001282_a .5302g → 250 1-9 (250 x 10)/.5302 = 4715.2 1 ml sample + 2 ml SST5 + 7 ml HNO_3

S95T001285_L, .5618g → 250 ml, 1-9-2-8, (250 x 50)/.5618 = 22250
S95T001285 .5618g → 250 1-9 (250 x 10)/.5618 = 4450
S95T001285_D .5496g → 250 1-9 (250 x 10)/.5496 = 4548.8
S95T001285_a .5618g → 250 1-9 (250 x 10)/.5618 = 4450 1 ml sample + 2 ml SST5 + 7 ml HNO_3

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950731A	ICP2	07/31/95	09:00	DKS	Q	CONC
2	ICB	950731A	ICP2	07/31/95	09:10	DKS	Q	CONC
3	ICSA	950731A	ICP2	07/31/95	09:13	DKS	Q	CONC
4	ICSAB	950731A	ICP2	07/31/95	09:16	DKS	Q	CONC
5	PREPBLKTJA	950731A	ICP2	07/31/95	09:22	DKS	S	CONC
6	S95T001282_L	950731A	ICP2	07/31/95	09:26	DKS	S	CONC
7	S95T001282	950731A	ICP2	07/31/95	09:30	DKS	S	CONC
8	S95T001282_D	950731A	ICP2	07/31/95	09:34	DKS	S	CONC
9	S95T001282_A	950731A	ICP2	07/31/95	09:39	DKS	S	CONC
10	CCV	950731A	ICP2	07/31/95	09:59	DKS	Q	CONC
11	CCB	950731A	ICP2	07/31/95	10:03	DKS	Q	CONC
12	S95T001285_L	950731A	ICP2	07/31/95	10:06	DKS	S	CONC
13	S95T001285	950731A	ICP2	07/31/95	10:10	DKS	S	CONC
14	S95T001285_D	950731A	ICP2	07/31/95	10:14	DKS	S	CONC
15	S95T001285_A	950731A	ICP2	07/31/95	10:18	DKS	S	CONC
16	ICSA	950731A	ICP2	07/31/95	10:27	DKS	Q	CONC
17	ICSAB	950731A	ICP2	07/31/95	10:31	DKS	Q	CONC
18	CCV_1	950731A	ICP2	07/31/95	10:36	DKS	Q	CONC
19	CCB_1	950731A	ICP2	07/31/95	10:39	DKS	Q	CONC

WHC-SD-WM-DP-140, REV. 1

DK [illegible]
07-31-95

B.106 S95T001282
S95T001285

Worklist #1879

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 200 TO 208.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.216	4.961	5.332	5.088	5.191	5.354
2	ICB	.0000	-.0049	-.0147	.0062	-.0000	-.0001
3	ICSA	.0003	243.4	.0676	.0067	.0019	.0001
4	ICSAB	1.013	241.9	.0803	.0043	.4804	.4925
5	PREPBLKTJA	.0024	.0520	-.0694	.0329	.0170	-.0009
6	S95T001282_L	-25.45	12940.	-233.3	575.8	14.73	-.8677
7	S95T001282_	3.244	12590.	-91.46	492.0	12.91	.2064
8	S95T001282_D	-1.178	10110.	-137.0	149.5	12.79	-.3085
9	S95T001282_A	4679.	17100.	5488.	5240.	4472.	5198.
10	CCV	5.052	4.970	5.107	4.960	4.976	5.163
11	CCB	-.0008	.0031	.0005	.0018	-.0001	-.0001
12	S95T001285_L	-44.73	1021.	140.9	57.29	31.54	-8.220
13	S95T001285_	-.1737	1008.	6.407	21.60	37.92	-1.459
14	S95T001285_D	-.7524	1010.	73.33	48.52	37.55	-1.503
15	S95T001285_A	3916.	5146.	4542.	4150.	4060.	4320.
16	ICSA	-.0013	247.1	-.1227	-.0070	.0016	-.0001
17	ICSAB	.9898	246.1	-.1036	-.0055	.4659	.4839
18	CCV_1	5.162	5.022	5.262	5.035	5.019	5.291
19	CCB_1	-.0010	.0050	.0018	.0013	-.0004	-.0001

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.247	5.284	5.259	5.280	5.271	5.311
2	ICB	-.0056	.0037	-.0006	.0015	-.0019	-.0002
3	ICSA	-.0164	251.6	.0037	.0118	.0008	.0067
4	ICSAB	-.0000	253.9	.9886	.0066	.4874	.5011
5	PREPBLKTJA	.0727	.2334	.0024	.0416	.0376	.0197
6	S95T001282_L	14830.	430.3	8.017	69.91	7.940	868.9
7	S95T001282_	15130.	454.2	6.117	128.4	23.70	800.1
8	S95T001282_D	17530.	355.6	-3.416	53.64	7.459	691.5
9	S95T001282_A	20530.	6434.	5704.	4766.	5542.	6435.
10	CCV	5.051	5.142	5.080	5.105	5.104	5.104
11	CCB	.0304	.0014	.0006	.0014	.0026	.0001
12	S95T001285_L	1433.	1259.	-12.35	15.23	27.16	151.4
13	S95T001285_	966.7	1373.	2.254	65.05	16.42	141.7
14	S95T001285_D	753.5	1354.	4.628	64.05	5.588	143.2
15	S95T001285_A	5170.	5798.	4418.	4194.	4392.	4551.
16	ICSA	-.0065	246.3	-.0008	.0160	.0020	.0070
17	ICSAB	.0201	246.0	.9617	.0146	.4773	.4871
18	CCV_1	5.120	5.392	5.267	5.169	5.276	5.273
19	CCB_1	.0112	-.0014	.0002	-.0031	.0002	-.0003

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.081	.0066	5.262	5.243	5.221	5.026
2	ICB	-.0002	.0013	.0002	-.1322	-.0004	.0011
3	ICSA	-.0098	-.0330	94.97	-.0113	-.0041	.0028
4	ICSAB	.4822	-.0357	94.87	.1107	-.0037	.9421
5	PREPBLKTJA	.0888	.0581	.2349	15420.	-.0001	.0415
6	S95T001282_L	47.13	129.8	8327.	7901e3	-12.47	120.8
7	S95T001282_	26.45	36.36	8141.	7342e3	-1.229	37.06

WHC-SD-WM-DP-140, REV. 1

#	Sample Name	Cu	Eu	Fe	K	La	Li
8	S95T001282_D	21.71	44.35	7247.	7924e3	-8.865	43.59
9	S95T001282_A	4426.	48.36	13610.	7303e3	4565.	3811.
10	CCV	4.971	.0066	5.084	4.945	5.046	5.023
11	CCB	.0002	-.0003	.0004	.0326	.0006	-.0007
12	S95T001285_L	23.05	5.218	14690.	8570e3	-5.335	.0000
13	S95T001285	27.09	9.567	14560.	8231e3	11.64	15.58
14	S95T001285_D	15.83	13.30	15050.	7275e3	12.44	21.71
15	S95T001285_A	4159.	14.48	18780.	8219e3	4156.	4162.
16	ICSA	-.0119	.0087	94.14	.1416	-.0047	.0021
17	ICSAB	.4736	.0105	93.40	.1143	-.0045	.9799
18	CCV_1	5.025	.0080	5.215	4.937	5.107	4.959
19	CCB_1	.0002	.0010	-.0006	-.0235	-.0005	.0002

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	5.050	5.148	5.226	5.148	5.259	5.263
2	ICB	-.0041	.0006	.0020	.0092	-.0003	-.0041
3	ICSA	248.5	-.0047	-.0076	192.0	-.0005	-.0184
4	ICSAB	247.0	.4661	-.0102	190.4	.0025	.9350
5	PREPBLKTJA	.2107	.0909	.0131	4.445	.0482	14.53
6	S95T001282_L	386.8	129.4	23.72	122700.	77.83	14660.
7	S95T001282	171.5	94.28	-3.206	113200.	18.25	14180.
8	S95T001282_D	147.5	72.49	-3.256	105700.	8.906	7742.
9	S95T001282_A	4682.	5296.	5474.	116500.	4508.	20100.
10	CCV	4.959	4.972	5.065	4.990	5.201	5.045
11	CCB	.0039	-.0003	.0011	-.0004	.0000	.0004
12	S95T001285_L	579.1	77.00	-23.03	93460.	.1996	5389.
13	S95T001285	420.4	85.60	6.199	90530.	18.21	5512.
14	S95T001285_D	338.4	96.46	3.786	87350.	-10.57	6151.
15	S95T001285_A	4485.	4240.	4421.	94720.	4261.	9782.
16	ICSA	252.6	-.0074	-.0074	193.4	.0051	-.0149
17	ICSAB	251.5	.4508	-.0087	192.7	.0027	.9111
18	CCV_1	5.045	5.096	5.218	4.979	5.256	5.200
19	CCB_1	.0080	-.0001	-.0006	.0067	.0001	-.0063

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.087	5.254	5.074	4.947	5.060	5.108
2	ICB	-.0052	-.0036	-.0165	-.0046	.0463	.0137
3	ICSA	-.0300	.0297	-.0501	.0044	.0298	.0217
4	ICSAB	-.0247	1.024	-.0415	.0020	.0113	.0326
5	PREPBLKTJA	-.2084	-.0749	-.0331	.0415	.7893	.5237
6	S95T001282_L	28160.	152.3	5397.	-126.2	1726.	11100.
7	S95T001282	29040.	510.0	5538.	25.38	253.6	10390.
8	S95T001282_D	24670.	348.3	5702.	-7.972	328.6	5593.
9	S95T001282_A	35650.	6310.	11110.	5114.	5610.	15930.
10	CCV	5.062	5.041	5.027	4.770	5.028	Q4.426
11	CCB	-.0203	-.0086	-.0099	-.0099	-.0140	.0030
12	S95T001285_L	18360.	78.34	4459.	-145.7	-99.16	585.6
13	S95T001285	18890.	175.3	4836.	16.10	-211.2	599.8
14	S95T001285_D	18890.	247.5	4682.	8.164	-160.8	628.2
15	S95T001285_A	23710.	4607.	9362.	4210.	4234.	4453.

WHC-SD-WM-DP-140, REV. 1

#	Sample Name	P	Pb	S	Sb	Se	Si
16	ICSA	-.0140	.0121	-.0348	-.0009	-.0414	-.0062
17	ICSAB	-.0271	.9765	-.0304	-.0112	-.0559	-.0024
18	CCV_1	5.226	5.239	5.122	4.911	5.185	4.528
19	CCB_1	.0069	-.0123	-.0123	-.0080	.0276	.0059

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.081	5.135	.0191	5.050	5.079	9.927
2	ICB	.0131	.0004	-.0038	-.0002	-.0303	.0448
3	ICSA	.0021	.0025	-.0104	.0015	.0036	-.2114
4	ICSAB	.0054	.0024	-.0041	.0020	.0324	-.2251
5	PREPBLKTJA	.5450	.0177	.1318	.0139	-.2970	-2.374
6	S95T001282_L	1368.	182.5	-167.4	27.77	-667.3	4288.
7	S95T001282_	365.8	160.0	61.17	12.90	-95.52	621.3
8	S95T001282_D	454.0	137.9	-1.254	11.04	-74.64	570.0
9	S95T001282_A	4689.	4662.	55.58	4781.	5030.	9126.
10	CCV	5.070	4.966	.0152	4.889	4.904	10.08
11	CCB	-.0034	-.0001	-.0001	-.0004	-.0184	-.0202
12	S95T001285_L	-34.09	422.4	131.9	13.31	-671.3	13170.
13	S95T001285_	105.7	410.7	152.8	31.33	-52.75	12950.
14	S95T001285_D	144.5	414.4	123.2	27.53	-157.9	13570.
15	S95T001285_A	4227.	4503.	105.1	4163.	4019.	21120.
16	ICSA	-.0052	.0016	-.0051	.0012	.0037	.0242
17	ICSAB	-.0036	.0016	-.0001	.0010	.0102	.0311
18	CCV_1	5.101	5.036	.0195	4.986	5.128	10.19
19	CCB_1	.0085	.0000	-.0031	-.0006	-.0173	.0262

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.148	.0132	5.178	5.112
2	ICB	.0028	.0007	.0001	.0027
3	ICSA	.0027	.0080	-.0016	.0005
4	ICSAB	.4799	.0082	.9963	.0004
5	PREPBLKTJA	.1357	.0313	.0418	.0821
6	S95T001282_L	335.3	77.61	224.7	351.2
7	S95T001282_	92.75	22.17	227.9	179.9
8	S95T001282_D	112.4	27.16	189.9	144.4
9	S95T001282_A	5230.	39.91	5823.	5029.
10	CCV	5.009	.0132	5.037	4.982
11	CCB	-.0011	-.0001	-.0010	-.0008
12	S95T001285_L	-9.635	12.21	72.17	-4.859
13	S95T001285_	26.91	16.05	90.26	9.687
14	S95T001285_D	34.80	17.84	86.71	13.50
15	S95T001285_A	4311.	26.17	4559.	4218.
16	ICSA	-.0023	.0080	.0013	-.0036
17	ICSAB	.4703	.0080	.9818	-.0041
18	CCV_1	5.138	.0140	5.193	5.081
19	CCB_1	.0011	.0005	-.0004	.0011

07-31-95

WHC-SD-WM-DP-140, REV. 1

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	1879	1			ICV	AG				5.2157		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
2	1879	1			ICV	AL				4.9606		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
3	1879	1			ICV	AS				5.3319		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
4	1879	1			ICV	B				5.0882		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
5	1879	1			ICV	BA				5.1908		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
6	1879	1			ICV	BE				5.3536		1.0000	07/31/95	09:00	dks	0.005	@ICP-QC
7	1879	1			ICV	BI				5.2466		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
8	1879	1			ICV	CA				5.2841		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
9	1879	1			ICV	CD				5.2587		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
10	1879	1			ICV	CE				5.2802		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
11	1879	1			ICV	CO				5.2713		1.0000	07/31/95	09:00	dks	0.02	@ICP-QC
12	1879	1			ICV	CR				5.3110		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
13	1879	1			ICV	CU				5.0814		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
14	1879	1			ICV	EU				0.0066		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
15	1879	1			ICV	FE				5.2621		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
16	1879	1			ICV	K				5.2429		1.0000	07/31/95	09:00	dks	0.3	@ICP-QC
17	1879	1			ICV	LA				5.2211		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
18	1879	1			ICV	LI				5.0264		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
19	1879	1			ICV	MG				5.0501		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
20	1879	1			ICV	MN				5.1481		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
21	1879	1			ICV	MO				5.2258		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
22	1879	1			ICV	NA				5.1478		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
23	1879	1			ICV	ND				5.2587		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
24	1879	1			ICV	NI				5.2633		1.0000	07/31/95	09:00	dks	0.02	@ICP-QC
25	1879	1			ICV	P				5.0872		1.0000	07/31/95	09:00	dks	0.2	@ICP-QC
26	1879	1			ICV	PB				5.2535		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
27	1879	1			ICV	S				5.0738		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
28	1879	1			ICV	SB				4.9466		1.0000	07/31/95	09:00	dks	0.2	@ICP-QC
29	1879	1			ICV	SE				5.0599		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
30	1879	1			ICV	SI				5.1084		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
31	1879	1			ICV	SM				5.0806		1.0000	07/31/95	09:00	dks	0.1	@ICP-QC
32	1879	1			ICV	SR				5.1352		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
33	1879	1			ICV	TH				0.0191		1.0000	07/31/95	09:00	dks	0	@ICP-QC
34	1879	1			ICV	TI				5.0503		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
35	1879	1			ICV	TL				5.0794		1.0000	07/31/95	09:00	dks	0.2	@ICP-QC
36	1879	1			ICV	U				9.9266		1.0000	07/31/95	09:00	dks	0.4	@ICP-QC
37	1879	1			ICV	V				5.1462		1.0000	07/31/95	09:00	dks	0.05	@ICP-QC
38	1879	1			ICV	Y				0.0132		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
39	1879	1			ICV	ZN				5.1780		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
40	1879	1			ICV	ZR				5.1119		1.0000	07/31/95	09:00	dks	0.01	@ICP-QC
41	1879	2			ICB	AG				0.0000		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
42	1879	2			ICB	AL				-0.0049		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
43	1879	2			ICB	AS				-0.0147		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
44	1879	2			ICB	B				0.0062		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
45	1879	2			ICB	BA				-0.0000		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
46	1879	2			ICB	BE				-0.0001		1.0000	07/31/95	09:10	dks	0.005	@ICP-QC
47	1879	2			ICB	BI				-0.0056		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
48	1879	2			ICB	CA				0.0037		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
49	1879	2			ICB	CD				-0.0006		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
50	1879	2			ICB	CE				0.0015		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
51	1879	2			ICB	CO				-0.0019		1.0000	07/31/95	09:10	dks	0.02	@ICP-QC
52	1879	2			ICB	CR				-0.0002		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
53	1879	2			ICB	CU				-0.0002		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
54	1879	2			ICB	EU				0.0013		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
55	1879	2			ICB	FE				0.0002		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
56	1879	2			ICB	K				-0.1322		1.0000	07/31/95	09:10	dks	0.3	@ICP-QC
57	1879	2			ICB	LA				-0.0004		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
58	1879	2			ICB	LI				0.0011		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
59	1879	2			ICB	MG				-0.0041		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
60	1879	2			ICB	MN				0.0006		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
61	1879	2			ICB	MO				0.0020		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
62	1879	2			ICB	NA				0.0092		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
63	1879	2			ICB	ND				-0.0003		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
64	1879	2			ICB	NI				-0.0041		1.0000	07/31/95	09:10	dks	0.02	@ICP-QC
65	1879	2			ICB	P				-0.0052		1.0000	07/31/95	09:10	dks	0.2	@ICP-QC
66	1879	2			ICB	PB				-0.0036		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
67	1879	2			ICB	S				-0.0165		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
68	1879	2			ICB	SB				-0.0047		1.0000	07/31/95	09:10	dks	0.2	@ICP-QC
69	1879	2			ICB	SE				0.0463		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
70	1879	2			ICB	SI				0.0137		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
71	1879	2			ICB	SM				0.0131		1.0000	07/31/95	09:10	dks	0.1	@ICP-QC
72	1879	2			ICB	SR				0.0004		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
73	1879	2			ICB	TH				-0.0038		1.0000	07/31/95	09:10	dks	0	@ICP-QC
74	1879	2			ICB	TI				-0.0002		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
75	1879	2			ICB	TL				-0.0303		1.0000	07/31/95	09:10	dks	0.2	@ICP-QC
76	1879	2			ICB	U				0.0448		1.0000	07/31/95	09:10	dks	0.4	@ICP-QC
77	1879	2			ICB	V				0.0028		1.0000	07/31/95	09:10	dks	0.05	@ICP-QC
78	1879	2			ICB	Y				0.0007		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
79	1879	2			ICB	ZN				0.0001		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
80	1879	2			ICB	ZR				0.0027		1.0000	07/31/95	09:10	dks	0.01	@ICP-QC
81	1879	3			ICSA	AG				0.0003		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
82	1879	3			ICSA	AL				243.3732		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
83	1879	3			ICSA	AS				0.0676		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
84	1879	3			ICSA	B				0.0067		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
85	1879	3			ICSA	BA				0.0019		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
86	1879	3			ICSA	BE				0.0001		1.0000	07/31/95	09:13	dks	0.005	@ICP-QC
87	1879	3			ICSA	BI				-0.0164		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
88	1879	3			ICSA	CA				251.6355		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
89	1879	3			ICSA	CD				0.0037		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
90	1879	3			ICSA	CE				0.0118		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
91	1879	3			ICSA	CO				0.0008		1.0000	07/31/95	09:13	dks	0.02	@ICP-QC
92	1879	3			ICSA	CR				0.0067		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
93	1879	3			ICSA	CU				-0.0096		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
94	1879	3			ICSA	EU				-0.0330		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
95	1879	3			ICSA	FE				94.9654		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
96	1879	3			ICSA	K				-0.0113		1.0000	07/31/95	09:13	dks	0.3	@ICP-QC
97	1879	3			ICSA	LA				-0.0041		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
98	1879	3			ICSA	LI				0.0028		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
99	1879	3			ICSA	MG				248.4736		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
100	1879	3			ICSA	MN				-0.0047		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
101	1879	3			ICSA	MO				-0.0076		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
102	1879	3			ICSA	NA				192.0031		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
103	1879	3			ICSA	ND				-0.0005		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
104	1879	3			ICSA	NI				-0.0184		1.0000	07/31/95	09:13	dks	0.02	@ICP-QC
105	1879	3			ICSA	P				-0.0300		1.0000	07/31/95	09:13	dks	0.2	@ICP-QC
106	1879	3			ICSA	PB				0.0297		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
107	1879	3			ICSA	S				-0.0501		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
108	1879	3			ICSA	SB				0.0044		1.0000	07/31/95	09:13	dks	0.2	@ICP-QC
109	1879	3			ICSA	SE				0.0298		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
110	1879	3			ICSA	SI				0.0217		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
111	1879	3			ICSA	SM				0.0021		1.0000	07/31/95	09:13	dks	0.1	@ICP-QC
112	1879	3			ICSA	SR				0.0025		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
113	1879	3			ICSA	TH				-0.0104		1.0000	07/31/95	09:13	dks	0	@ICP-QC
114	1879	3			ICSA	TI				0.0015		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
115	1879	3			ICSA	TL				0.0036		1.0000	07/31/95	09:13	dks	0.2	@ICP-QC
116	1879	3			ICSA	U				-0.2114		1.0000	07/31/95	09:13	dks	0.4	@ICP-QC
117	1879	3			ICSA	V				0.0027		1.0000	07/31/95	09:13	dks	0.05	@ICP-QC
118	1879	3			ICSA	Y				0.0080		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
119	1879	3			ICSA	ZN				-0.0016		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
120	1879	3			ICSA	ZR				0.0005		1.0000	07/31/95	09:13	dks	0.01	@ICP-QC
121	1879	4			ICSAB	AG				1.0133		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
122	1879	4			ICSAB	AL				241.9102		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC

204

WHC-SD-WM-DP-140, REV. 1

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
123	1879	4			ICSAB	AS				0.0803		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
124	1879	4			ICSAB	B				0.0043		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
125	1879	4			ICSAB	BA				0.4804		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
126	1879	4			ICSAB	BE				0.4925		1.0000	07/31/95	09:16	dks	0.005	@ICP-QC
127	1879	4			ICSAB	BI				-0.0000		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
128	1879	4			ICSAB	CA				253.9459		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
129	1879	4			ICSAB	CD				0.9886		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
130	1879	4			ICSAB	CE				0.0066		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
131	1879	4			ICSAB	CO				0.4874		1.0000	07/31/95	09:16	dks	0.02	@ICP-QC
132	1879	4			ICSAB	CR				0.5011		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
133	1879	4			ICSAB	CU				0.4822		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
134	1879	4			ICSAB	EU				-0.0357		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
135	1879	4			ICSAB	FE				94.8673		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
136	1879	4			ICSAB	K				0.1107		1.0000	07/31/95	09:16	dks	0.3	@ICP-QC
137	1879	4			ICSAB	LA				-0.0037		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
138	1879	4			ICSAB	LI				0.9421		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
139	1879	4			ICSAB	MG				247.0323		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
140	1879	4			ICSAB	MN				0.4661		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
141	1879	4			ICSAB	MO				-0.0102		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
142	1879	4			ICSAB	NA				190.3852		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
143	1879	4			ICSAB	ND				0.0025		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
144	1879	4			ICSAB	NI				0.9350		1.0000	07/31/95	09:16	dks	0.02	@ICP-QC
145	1879	4			ICSAB	P				-0.0247		1.0000	07/31/95	09:16	dks	0.2	@ICP-QC
146	1879	4			ICSAB	PB				1.0238		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
147	1879	4			ICSAB	S				-0.0415		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
148	1879	4			ICSAB	SB				0.0020		1.0000	07/31/95	09:16	dks	0.2	@ICP-QC
149	1879	4			ICSAB	SE				0.0113		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
150	1879	4			ICSAB	SI				0.0326		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
151	1879	4			ICSAB	SM				0.0054		1.0000	07/31/95	09:16	dks	0.1	@ICP-QC
152	1879	4			ICSAB	SR				0.0024		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
153	1879	4			ICSAB	TH				-0.0041		1.0000	07/31/95	09:16	dks	0	@ICP-QC
154	1879	4			ICSAB	TI				0.0020		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
155	1879	4			ICSAB	TL				0.0324		1.0000	07/31/95	09:16	dks	0.2	@ICP-QC
156	1879	4			ICSAB	U				-0.2251		1.0000	07/31/95	09:16	dks	0.4	@ICP-QC
157	1879	4			ICSAB	V				0.4799		1.0000	07/31/95	09:16	dks	0.05	@ICP-QC
158	1879	4			ICSAB	Y				0.0082		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
159	1879	4			ICSAB	ZN				0.9963		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
160	1879	4			ICSAB	ZR				0.0004		1.0000	07/31/95	09:16	dks	0.01	@ICP-QC
161	1879	5			PREPBLKTJA	AG-F-01				0.0024		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
162	1879	5			PREPBLKTJA	AL-F-01				0.0520		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
163	1879	5			PREPBLKTJA	AS-F-01				-0.0694		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
164	1879	5			PREPBLKTJA	B-F-01				0.0329		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
165	1879	5			PREPBLKTJA	BA-F-01				0.0170		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
166	1879	5			PREPBLKTJA	BE-F-01				-0.0009		10.0000	07/31/95	09:22	dks	0.005	@ICP-F0
167	1879	5			PREPBLKTJA	BI-F-01				0.0727		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
168	1879	5			PREPBLKTJA	CA-F-01				0.2334		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
169	1879	5			PREPBLKTJA	CD-F-01				0.0024		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
170	1879	5			PREPBLKTJA	CE-F-01				0.0416		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
171	1879	5			PREPBLKTJA	CO-F-01				0.0376		10.0000	07/31/95	09:22	dks	0.02	@ICP-F0
172	1879	5			PREPBLKTJA	CR-F-01				0.0197		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
173	1879	5			PREPBLKTJA	CU-F-01				0.0888		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
174	1879	5			PREPBLKTJA	EU-F-01				0.0581		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
175	1879	5			PREPBLKTJA	FE-F-01				0.2349		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
176	1879	5			PREPBLKTJA	K-F-01				15421.9795		10.0000	07/31/95	09:22	dks	0.3	@ICP-F0
177	1879	5			PREPBLKTJA	LA-F-01				-0.0001		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
178	1879	5			PREPBLKTJA	LI-F-01				0.0415		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
179	1879	5			PREPBLKTJA	MG-F-01				0.2107		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
180	1879	5			PREPBLKTJA	MN-F-01				0.0909		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
181	1879	5			PREPBLKTJA	MO-F-01				0.0131		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
182	1879	5			PREPBLKTJA	NA-F-01				4.4445		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
183	1879	5			PREPBLKTJA	ND-F-01				0.0482		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
184	1879	5			PREPBLKTJA	NI-F-01				14.5296		10.0000	07/31/95	09:22	dks	0.02	@ICP-F0
185	1879	5			PREPBLKTJA	P-F-01				-0.2084		10.0000	07/31/95	09:22	dks	0.2	@ICP-F0
186	1879	5			PREPBLKTJA	PB-F-01				-0.0749		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
187	1879	5			PREPBLKTJA	S-F-01				-0.0331		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
188	1879	5			PREPBLKTJA	SB-F-01				0.0415		10.0000	07/31/95	09:22	dks	0.2	@ICP-F0
189	1879	5			PREPBLKTJA	SE-F-01				0.7893		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
190	1879	5			PREPBLKTJA	SI-F-01				0.5237		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
191	1879	5			PREPBLKTJA	SM-F-01				0.5450		10.0000	07/31/95	09:22	dks	0.1	@ICP-F0
192	1879	5			PREPBLKTJA	SR-F-01				0.0177		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
193	1879	5			PREPBLKTJA	TH-F-01				0.1318		10.0000	07/31/95	09:22	dks	0	@ICP-F0
194	1879	5			PREPBLKTJA	TI-F-01				0.0139		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
195	1879	5			PREPBLKTJA	TL-F-01				-0.2970		10.0000	07/31/95	09:22	dks	0.2	@ICP-F0
196	1879	5			PREPBLKTJA	U-F-01				-2.3741		10.0000	07/31/95	09:22	dks	0.4	@ICP-F0
197	1879	5			PREPBLKTJA	V-F-01				0.1357		10.0000	07/31/95	09:22	dks	0.05	@ICP-F0
198	1879	5			PREPBLKTJA	Y-F-01				0.0313		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
199	1879	5			PREPBLKTJA	ZN-F-01				0.0418		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
200	1879	5			PREPBLKTJA	ZR-F-01				0.0821		10.0000	07/31/95	09:22	dks	0.01	@ICP-F0
201	1879	6	S95T001282			LI-F-01			<	47.1520		4715.2000	07/31/95	09:30	dks	0.01	@ICP-F0
202	1879	7	S95T001282		DUP	LI-F-01		<47.1520		<47.4650		4746.5000	07/31/95	09:34	dks	0.01	@ICP-F0
203	1879	8	S95T001282_A		SPK	LI-F-01		4715.2		3811.3523		4715.2000	07/31/95	09:39	dks	0.01	@ICP-F0
204	1879	9			CCV	AG				5.0517		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
205	1879	9			CCV	AL				4.9702		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
206	1879	9			CCV	AS				5.1072		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
207	1879	9			CCV	B				4.9805		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
208	1879	9			CCV	BA				4.9762		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
209	1879	9			CCV	BE				5.1625		1.0000	07/31/95	09:59	dks	0.005	@ICP-QC
210	1879	9			CCV	BI				5.0508		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
211	1879	9			CCV	CA				5.1418		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
212	1879	9			CCV	CD				5.0797		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
213	1879	9			CCV	CE				5.1049		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
214	1879	9			CCV	CO				5.1037		1.0000	07/31/95	09:59	dks	0.02	@ICP-QC
215	1879	9			CCV	CR				5.1039		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
216	1879	9			CCV	CU				4.9713		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
217	1879	9			CCV	EU				0.0066		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
218	1879	9			CCV	FE				5.0839		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
219	1879	9			CCV	K				4.9448		1.0000	07/31/95	09:59	dks	0.3	@ICP-QC
220	1879	9			CCV	LA				5.0459		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
221	1879	9			CCV	LI				5.0231		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
222	1879	9			CCV	MG				4.9585		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
223	1879	9			CCV	MN				4.9718		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
224	1879	9			CCV	MO				5.0648		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
225	1879	9			CCV	NA				4.9901		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
226	1879	9			CCV	ND				5.2009		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
227	1879	9			CCV	NI				5.0450		1.0000	07/31/95	09:59	dks	0.02	@ICP-QC
228	1879	9			CCV	P				5.0624		1.0000	07/31/95	09:59	dks	0.2	@ICP-QC
229	1879	9			CCV	PB				5.0408		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
230	1879	9			CCV	S				5.0274		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
231	1879	9			CCV	SB				4.7698		1.0000	07/31/95	09:59	dks	0.2	@ICP-QC
232	1879	9			CCV	SE				5.0277		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
233	1879	9			CCV	SI				4.4258		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
234	1879	9			CCV	SM				5.0699		1.0000	07/31/95	09:59	dks	0.1	@ICP-QC
235	1879	9			CCV	SR				4.9663		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
236	1879	9			CCV	TH				0.0152		1.0000	07/31/95	09:59	dks	0	@ICP-QC
237	1879	9			CCV	TI				4.8891		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
238	1879	9			CCV	TL				4.9044		1.0000	07/31/95	09:59	dks	0.2	@ICP-QC
239	1879	9			CCV	U				10.0790		1.0000	07/31/95	09:59	dks	0.4	@ICP-QC
240	1879	9			CCV	V				5.0087		1.0000	07/31/95	09:59	dks	0.05	@ICP-QC
241	1879	9			CCV	Y				0.0132		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
242	1879	9			CCV	ZN				5.0375		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
243	1879	9			CCV	ZR				4.9819		1.0000	07/31/95	09:59	dks	0.01	@ICP-QC
244	1879	10			CCB	AG				-0.0008		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC

205

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
245	1879	10			CCB	AL				0.0031		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
246	1879	10			CCB	AS				0.0005		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
247	1879	10			CCB	B				0.0018		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
248	1879	10			CCB	BA				-0.0001		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
249	1879	10			CCB	BE				-0.0001		1.0000	07/31/95	10:03	dks	0.005	@ICP-QC
250	1879	10			CCB	BI				0.0304		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
251	1879	10			CCB	CA				0.0015		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
252	1879	10			CCB	CD				0.0006		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
253	1879	10			CCB	CE				0.0014		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
254	1879	10			CCB	CO				0.0026		1.0000	07/31/95	10:03	dks	0.02	@ICP-QC
255	1879	10			CCB	CR				0.0001		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
256	1879	10			CCB	CU				0.0002		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
257	1879	10			CCB	EU				-0.0003		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
258	1879	10			CCB	FE				0.0004		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
259	1879	10			CCB	K				0.0326		1.0000	07/31/95	10:03	dks	0.3	@ICP-QC
260	1879	10			CCB	LA				0.0006		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
261	1879	10			CCB	LI				-0.0007		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
262	1879	10			CCB	MG				0.0039		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
263	1879	10			CCB	MN				-0.0003		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
264	1879	10			CCB	MO				0.0011		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
265	1879	10			CCB	NA				-0.0004		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
266	1879	10			CCB	ND				0.0000		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
267	1879	10			CCB	NI				0.0004		1.0000	07/31/95	10:03	dks	0.02	@ICP-QC
268	1879	10			CCB	P				-0.0203		1.0000	07/31/95	10:03	dks	0.2	@ICP-QC
269	1879	10			CCB	PB				-0.0086		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
270	1879	10			CCB	S				-0.0099		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
271	1879	10			CCB	SB				-0.0099		1.0000	07/31/95	10:03	dks	0.2	@ICP-QC
272	1879	10			CCB	SE				-0.0140		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
273	1879	10			CCB	SI				0.0030		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
274	1879	10			CCB	SM				-0.0034		1.0000	07/31/95	10:03	dks	0.1	@ICP-QC
275	1879	10			CCB	SR				-0.0001		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
276	1879	10			CCB	TH				-0.0001		1.0000	07/31/95	10:03	dks	0	@ICP-QC
277	1879	10			CCB	TI				-0.0004		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
278	1879	10			CCB	TL				-0.0184		1.0000	07/31/95	10:03	dks	0.2	@ICP-QC
279	1879	10			CCB	U				-0.0202		1.0000	07/31/95	10:03	dks	0.4	@ICP-QC
280	1879	10			CCB	V				-0.0011		1.0000	07/31/95	10:03	dks	0.05	@ICP-QC
281	1879	10			CCB	Y				-0.0001		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
282	1879	10			CCB	ZN				-0.0010		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
283	1879	10			CCB	ZR				-0.0008		1.0000	07/31/95	10:03	dks	0.01	@ICP-QC
284	1879	11	S95T001285			LI-F-01			<	44.5000		4450.0000	07/31/95	10:10	dks	0.01	@ICP-F0
285	1879	12	S95T001285		DUP	LI-F-01		<44.5000		<45.4880		4548.8000	07/31/95	10:14	dks	0.01	@ICP-F0
286	1879	13	S95T001285_A		SPK	LI-F-01		4450.0		4162.0063		4450.0000	07/31/95	10:18	dks	0.01	@ICP-F0
287	1879	14			ICSA	AG				-0.0013		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
288	1879	14			ICSA	AL				247.1108		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
289	1879	14			ICSA	AS				-0.1227		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
290	1879	14			ICSA	B				-0.0070		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
291	1879	14			ICSA	BA				0.0016		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
292	1879	14			ICSA	BE				-0.0001		1.0000	07/31/95	10:27	dks	0.005	@ICP-QC
293	1879	14			ICSA	BI				-0.0065		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
294	1879	14			ICSA	CA				246.2758		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
295	1879	14			ICSA	CD				-0.0008		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
296	1879	14			ICSA	CE				0.0160		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
297	1879	14			ICSA	CO				0.0020		1.0000	07/31/95	10:27	dks	0.02	@ICP-QC
298	1879	14			ICSA	CR				0.0070		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
299	1879	14			ICSA	CU				-0.0119		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
300	1879	14			ICSA	EU				0.0087		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
301	1879	14			ICSA	FE				94.1391		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
302	1879	14			ICSA	K				0.1416		1.0000	07/31/95	10:27	dks	0.3	@ICP-QC
303	1879	14			ICSA	LA				-0.0047		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
304	1879	14			ICSA	LI				0.0021		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
305	1879	14			ICSA	MG				252.6093		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
306	1879	14			ICSA	MN				-0.0074		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
307	1879	14			ICSA	MO				-0.0074		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
308	1879	14			ICSA	NA				193.3651		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
309	1879	14			ICSA	ND				0.0051		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
310	1879	14			ICSA	NI				-0.0149		1.0000	07/31/95	10:27	dks	0.02	@ICP-QC
311	1879	14			ICSA	P				-0.0140		1.0000	07/31/95	10:27	dks	0.2	@ICP-QC
312	1879	14			ICSA	PB				0.0121		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
313	1879	14			ICSA	S				-0.0348		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
314	1879	14			ICSA	SB				-0.0009		1.0000	07/31/95	10:27	dks	0.2	@ICP-QC
315	1879	14			ICSA	SE				-0.0414		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
316	1879	14			ICSA	SI				-0.0082		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
317	1879	14			ICSA	SM				-0.0052		1.0000	07/31/95	10:27	dks	0.1	@ICP-QC
318	1879	14			ICSA	SR				0.0016		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
319	1879	14			ICSA	TH				-0.0051		1.0000	07/31/95	10:27	dks	0	@ICP-QC
320	1879	14			ICSA	TI				0.0012		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
321	1879	14			ICSA	TL				0.0037		1.0000	07/31/95	10:27	dks	0.2	@ICP-QC
322	1879	14			ICSA	U				0.0242		1.0000	07/31/95	10:27	dks	0.4	@ICP-QC
323	1879	14			ICSA	V				-0.0023		1.0000	07/31/95	10:27	dks	0.05	@ICP-QC
324	1879	14			ICSA	Y				0.0080		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
325	1879	14			ICSA	ZN				0.0013		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
326	1879	14			ICSA	ZR				-0.0036		1.0000	07/31/95	10:27	dks	0.01	@ICP-QC
327	1879	15			ICSAB	AG				0.9898		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
328	1879	15			ICSAB	AL				246.1365		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
329	1879	15			ICSAB	AS				-0.1036		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
330	1879	15			ICSAB	B				-0.0055		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
331	1879	15			ICSAB	BA				0.4659		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
332	1879	15			ICSAB	BE				0.4839		1.0000	07/31/95	10:31	dks	0.005	@ICP-QC
333	1879	15			ICSAB	BI				0.0201		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
334	1879	15			ICSAB	CA				246.0163		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
335	1879	15			ICSAB	CD				0.9617		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
336	1879	15			ICSAB	CE				0.0146		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
337	1879	15			ICSAB	CO				0.4773		1.0000	07/31/95	10:31	dks	0.02	@ICP-QC
338	1879	15			ICSAB	CR				0.4871		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
339	1879	15			ICSAB	CU				0.4736		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
340	1879	15			ICSAB	EU				0.0105		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
341	1879	15			ICSAB	FE				93.4029		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
342	1879	15			ICSAB	K				0.1143		1.0000	07/31/95	10:31	dks	0.3	@ICP-QC
343	1879	15			ICSAB	LA				-0.0045		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
344	1879	15			ICSAB	LI				0.9799		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
345	1879	15			ICSAB	MG				251.5464		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
346	1879	15			ICSAB	MN				0.4508		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
347	1879	15			ICSAB	MO				-0.0087		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
348	1879	15			ICSAB	NA				192.6816		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
349	1879	15			ICSAB	ND				0.0027		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
350	1879	15			ICSAB	NI				0.9111		1.0000	07/31/95	10:31	dks	0.02	@ICP-QC
351	1879	15			ICSAB	P				-0.0271		1.0000	07/31/95	10:31	dks	0.2	@ICP-QC
352	1879	15			ICSAB	PB				0.9765		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
353	1879	15			ICSAB	S				-0.0304		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
354	1879	15			ICSAB	SB				-0.0112		1.0000	07/31/95	10:31	dks	0.2	@ICP-QC
355	1879	15			ICSAB	SE				-0.0559		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
356	1879	15			ICSAB	SI				-0.0024		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
357	1879	15			ICSAB	SM				-0.0036		1.0000	07/31/95	10:31	dks	0.1	@ICP-QC
358	1879	15			ICSAB	SR				0.0016		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
359	1879	15			ICSAB	TH				-0.0001		1.0000	07/31/95	10:31	dks	0	@ICP-QC
360	1879	15			ICSAB	TI				0.0010		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
361	1879	15			ICSAB	TL				0.0102		1.0000	07/31/95	10:31	dks	0.2	@ICP-QC
362	1879	15			ICSAB	U				0.0311		1.0000	07/31/95	10:31	dks	0.4	@ICP-QC
363	1879	15			ICSAB	V				0.4703		1.0000	07/31/95	10:31	dks	0.05	@ICP-QC
364	1879	15			ICSAB	Y				0.0080		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
365	1879	15			ICSAB	ZN				0.9818		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC
366	1879	15			ICSAB	ZR				-0.0041		1.0000	07/31/95	10:31	dks	0.01	@ICP-QC

206

WHC-SD-WM-DP-140, REV. 1

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
367	1879	16			CCV	AG				5.1619		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
368	1879	16			CCV	AL				5.0222		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
369	1879	16			CCV	AS				5.2620		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
370	1879	16			CCV	B				5.0354		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
371	1879	16			CCV	BA				5.0186		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
372	1879	16			CCV	BE				5.2909		1.0000	07/31/95	10:36	dks	0.005	@ICP-QC
373	1879	16			CCV	BI				5.1196		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
374	1879	16			CCV	CA				5.3921		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
375	1879	16			CCV	CD				5.2675		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
376	1879	16			CCV	CE				5.1693		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
377	1879	16			CCV	CO				5.2756		1.0000	07/31/95	10:36	dks	0.02	@ICP-QC
378	1879	16			CCV	CR				5.2727		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
379	1879	16			CCV	CU				5.0246		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
380	1879	16			CCV	EU				0.0080		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
381	1879	16			CCV	FE				5.2155		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
382	1879	16			CCV	K				4.9369		1.0000	07/31/95	10:36	dks	0.3	@ICP-QC
383	1879	16			CCV	LA				5.1065		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
384	1879	16			CCV	LI				4.9591		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
385	1879	16			CCV	MG				5.0448		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
386	1879	16			CCV	MN				5.0956		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
387	1879	16			CCV	MO				5.2184		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
388	1879	16			CCV	NA				4.9788		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
389	1879	16			CCV	ND				5.2556		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
390	1879	16			CCV	NI				5.1999		1.0000	07/31/95	10:36	dks	0.02	@ICP-QC
391	1879	16			CCV	P				5.2258		1.0000	07/31/95	10:36	dks	0.2	@ICP-QC
392	1879	16			CCV	PB				5.2388		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
393	1879	16			CCV	S				5.1215		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
394	1879	16			CCV	SB				4.9113		1.0000	07/31/95	10:36	dks	0.2	@ICP-QC
395	1879	16			CCV	SE				5.1846		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
396	1879	16			CCV	SI				4.5280		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
397	1879	16			CCV	SM				5.1011		1.0000	07/31/95	10:36	dks	0.1	@ICP-QC
398	1879	16			CCV	SR				5.0357		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
399	1879	16			CCV	TH				0.0195		1.0000	07/31/95	10:36	dks	0	@ICP-QC
400	1879	16			CCV	TI				4.9862		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
401	1879	16			CCV	TL				5.1277		1.0000	07/31/95	10:36	dks	0.2	@ICP-QC
402	1879	16			CCV	U				10.1899		1.0000	07/31/95	10:36	dks	0.4	@ICP-QC
403	1879	16			CCV	V				5.1385		1.0000	07/31/95	10:36	dks	0.05	@ICP-QC
404	1879	16			CCV	Y				0.0140		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
405	1879	16			CCV	ZN				5.1927		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
406	1879	16			CCV	ZR				5.0811		1.0000	07/31/95	10:36	dks	0.01	@ICP-QC
407	1879	17			CCB	AG				-0.0010		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
408	1879	17			CCB	AL				0.0050		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
409	1879	17			CCB	AS				0.0018		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
410	1879	17			CCB	B				0.0013		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
411	1879	17			CCB	BA				-0.0004		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
412	1879	17			CCB	BE				-0.0001		1.0000	07/31/95	10:39	dks	0.005	@ICP-QC
413	1879	17			CCB	BI				0.0112		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
414	1879	17			CCB	CA				-0.0014		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
415	1879	17			CCB	CD				0.0002		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
416	1879	17			CCB	CE				-0.0031		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
417	1879	17			CCB	CO				0.0002		1.0000	07/31/95	10:39	dks	0.02	@ICP-QC
418	1879	17			CCB	CR				-0.0003		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
419	1879	17			CCB	CU				0.0002		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
420	1879	17			CCB	EU				0.0010		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
421	1879	17			CCB	FE				-0.0006		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
422	1879	17			CCB	K				-0.0235		1.0000	07/31/95	10:39	dks	0.3	@ICP-QC
423	1879	17			CCB	LA				-0.0005		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
424	1879	17			CCB	LI				0.0002		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
425	1879	17			CCB	MG				0.0080		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
426	1879	17			CCB	MN				-0.0001		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
427	1879	17			CCB	MO				-0.0006		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
428	1879	17			CCB	NA				0.0087		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
429	1879	17			CCB	ND				0.0001		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
430	1879	17			CCB	NI				-0.0063		1.0000	07/31/95	10:39	dks	0.02	@ICP-QC
431	1879	17			CCB	P				0.0069		1.0000	07/31/95	10:39	dks	0.2	@ICP-QC
432	1879	17			CCB	PB				-0.0123		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
433	1879	17			CCB	S				-0.0123		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
434	1879	17			CCB	SB				-0.0080		1.0000	07/31/95	10:39	dks	0.2	@ICP-QC
435	1879	17			CCB	SE				0.0276		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
436	1879	17			CCB	SI				0.0059		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
437	1879	17			CCB	SM				0.0085		1.0000	07/31/95	10:39	dks	0.1	@ICP-QC
438	1879	17			CCB	SR				0.0000		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
439	1879	17			CCB	TH				-0.0031		1.0000	07/31/95	10:39	dks	0	@ICP-QC
440	1879	17			CCB	TI				-0.0006		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
441	1879	17			CCB	TL				-0.0173		1.0000	07/31/95	10:39	dks	0.2	@ICP-QC
442	1879	17			CCB	U				0.0262		1.0000	07/31/95	10:39	dks	0.4	@ICP-QC
443	1879	17			CCB	V				0.0011		1.0000	07/31/95	10:39	dks	0.05	@ICP-QC
444	1879	17			CCB	Y				0.0005		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
445	1879	17			CCB	ZN				-0.0004		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC
446	1879	17			CCB	ZR				0.0011		1.0000	07/31/95	10:39	dks	0.01	@ICP-QC

WHC-SD-WM-DP-140, REV. 1

SP
07/31/95

207

FILE # 09508013

LABCORE Data Entry Template for Worklist# 1913

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 BG 8-1-95 **Book#** 438413

Method: LA-505-~~151~~ 161 BG 8-1-95 Rev/Mod A-1

Worklist Comment: ICP B-106 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	S95T001269	0	D	@ICP-D03	LIQUID	95000096	B-106
	Analytes Requested:				LI-D-01			
6	SAMPLE	S95T001272	0	D	@ICP-D03	LIQUID	95000096	B-106
	Analytes Requested:				LI-D-01			
7	DUP	S95T001272	0	D	@ICP-D03	LIQUID		
8	SPK	S95T001272	0	D	@ICP-D03	LIQUID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T001286	0	D	@ICP-D03	LIQUID	95000096	B-106
	Analytes Requested:				LI-D-01			
12	DUP	S95T001286	0	D	@ICP-D03	LIQUID		
13	ICSA				@ICP-QC	QC		
14	ICSAB				@ICP-QC	QC		
15	CCV				@ICP-QC	QC		
16	CCB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1913

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 1913

Analyst Signature: [signature] Date: 8-1-95

Reviewed + Validated by:
Analyst Signature: Saul M. Parry Date: 08/02/95

		DF
SS5T001269	DIRECT	1
SS5T001272_L	.025mL-10mL-2mL-8mL	2005
SS5T001272	.025mL-10mL	401
SS5T001272_D	.025mL-10mL	401
SS5T001272_A	.025mL-2mL-8mL	401
SS5T001286	.1mL-10mL	101
SS5T001286_D	.1mL-10mL	101

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	950801B	ICP2	08/01/95	10:14	BJG	Q	CONC
2	ICB	950801B	ICP2	08/01/95	10:18	BJG	Q	CONC
3	ICSA	950801B	ICP2	08/01/95	10:21	BJG	Q	CONC
4	ICSAB	950801B	ICP2	08/01/95	10:25	BJG	Q	CONC
5	S95T001269	950801B	ICP2	08/01/95	10:29	BJG	S	CONC
6	S95T001269_D	950801B	ICP2	08/01/95	10:34	BJG	S	CONC
7	S95T001272_L	950801B	ICP2	08/01/95	10:38	BJG	S	CONC
8	S95T001272_	950801B	ICP2	08/01/95	10:42	BJG	S	CONC
9	S95T001272_D	950801B	ICP2	08/01/95	10:45	BJG	S	CONC
10	S95T001272_A	950801B	ICP2	08/01/95	10:50	BJG	S	CONC
11	CCV	950801B	ICP2	08/01/95	11:18	BJG	Q	CONC
12	CCB	950801B	ICP2	08/01/95	11:21	BJG	Q	CONC
13	S95T001286	950801B	ICP2	08/01/95	11:24	BJG	S	CONC
14	S95T001286_D	950801B	ICP2	08/01/95	11:27	BJG	S	CONC
15	ICSA	950801B	ICP2	08/01/95	11:30	BJG	Q	CONC
16	ICSAB	950801B	ICP2	08/01/95	11:34	BJG	Q	CONC
17	CCV_1	950801B	ICP2	08/01/95	11:37	BJG	Q	CONC
18	CCB_1	950801B	ICP2	08/01/95	11:40	BJG	Q	CONC

WHC-SD-WM-DP-140, REV. 1

8-1-95
B-106
S95T001269 Direct
S95T001272 .025-10-L
S95T001286 .1-10-L

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 210 TO 217.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.000	4.998	5.204	5.064	4.958	5.300
2	ICB	-.0028	-.0051	.0008	.0015	-.0001	.0002
3	ICSA	-.0005	244.9	.0224	-.0039	.0019	.0003
4	ICSAB	.9789	245.6	.0255	-.0101	.4614	.4926
5	S95T001269	-.0002	.0411	.0034	.5885	.0005	.0002
6	S95T001269_D	-.0015	.0351	-.0006	.6002	.0003	.0002
7	S95T001272_L	.0614	5.707	-5.993	7.888	-.1611	.6961
8	S95T001272_	-.2738	2.561	-.0458	20.05	-.0279	.1394
9	S95T001272_D	-.0393	2.622	.9164	18.87	-.0100	.0764
10	S95T001272_A	379.0	385.6	421.6	412.9	370.4	411.7
11	CCV	4.840	4.880	4.997	4.891	4.859	5.041
12	CCB	.0006	-.0014	.0079	-.0005	.0000	.0003
13	S95T001286	.0369	.9673	-.0158	.0968	.1384	.0305
14	S95T001286_D	-.0459	.0878	-.6366	-.0965	.1349	.0194
15	ICSA	-.0011	240.1	-.0130	-.0041	.0018	.0003
16	ICSAB	.9419	239.4	-.0113	-.0032	.4480	.4660
17	CCV_1	4.871	4.869	5.046	4.894	4.827	5.084
18	CCB_1	.0002	-.0006	-.0142	.0024	.0000	.0003

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.113	5.283	5.194	5.118	5.315	5.230
2	ICB	.0173	.0020	.0019	-.0025	-.0003	.0008
3	ICSA	.0078	253.1	.0040	.0066	-.0005	.0075
4	ICSAB	.0034	255.8	.9804	.0061	.4876	.4946
5	S95T001269	.0137	.5559	.0013	.0092	.0014	.0989
6	S95T001269_D	.0223	.5568	.0009	.0011	-.0016	.0989
7	S95T001272_L	1.405	49.06	4.515	1.354	-1.086	41.07
8	S95T001272_	-1.773	11.60	.2471	-2.830	.4534	39.90
9	S95T001272_D	3.055	17.45	1.093	2.518	1.293	39.04
10	S95T001272_A	394.2	451.8	421.5	390.2	428.8	461.7
11	CCV	4.864	4.993	4.978	4.957	5.012	5.018
12	CCB	.0078	.0009	.0011	-.0051	-.0002	.0004
13	S95T001286	-1.165	4.663	.1834	.7637	.1997	.0652
14	S95T001286_D	.0987	4.541	.1202	.3565	-.1933	-.0369
15	ICSA	-.0149	237.9	.0024	.0083	-.0011	.0063
16	ICSAB	.0105	237.8	.9351	.0172	.4621	.4728
17	CCV_1	5.000	5.145	5.071	4.966	5.090	5.096
18	CCB_1	-.0049	.0036	.0007	.0009	.0008	.0003

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.047	.0057	5.170	4.892	5.058	4.924
2	ICB	-.0000	.0008	-.0008	-.0338	-.0004	.0007
3	ICSA	-.0092	-.0444	93.55	.2620	-.0034	.0035
4	ICSAB	.4850	-.0441	93.95	.1776	-.0035	.9354
5	S95T001269	.0022	.0029	.0167	.3420	.0014	.0173
6	S95T001269_D	.0018	.0033	.0164	.2670	-.0003	.0171
7	S95T001272_L	1.176	2.794	3.407	319.4	-.0585	4.684
8	S95T001272_	.3806	.7605	4.842	290.7	-.2885	2.915
9	S95T001272_D	.2885	1.144	4.804	308.5	.5667	3.054

WHC-SD-WM-DP-140, REV. 1

#	Sample Name	Cu	Eu	Fe	K	La	Li
10	S95T001272_A	382.4	1.642	417.1	671.7	384.0	358.2
11	CCV	4.874	.0082	4.994	4.986	4.948	4.959
12	CCB	.0002	.0029	-.0012	.0922	-.0005	.0022
13	S95T001286	.1072	.2919	-.0272	22.86	.0554	1936.
14	S95T001286_D	.0438	.2604	-.0639	14.05	.0395	1931.
15	ICSA	-.0098	-.0114	91.00	.2023	-.0043	.0052
16	ICSAB	.4629	-.0102	90.46	.2207	-.0030	.9387
17	CCV_1	4.854	.0090	5.044	5.118	4.945	4.836
18	CCB_1	-.0002	.0026	-.0007	.0537	.0000	.0021

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.994	5.062	5.263	4.936	5.189	5.139
2	ICB	-.0020	.0003	-.0032	.0076	-.0001	.0022
3	ICSA	246.7	-.0048	-.0108	184.8	-.0005	-.0284
4	ICSAB	247.2	.4621	-.0148	185.9	-.0014	.9304
5	S95T001269	.0889	.0132	.0001	7.200	-.0002	-.0013
6	S95T001269_D	.0862	.0134	.0003	7.272	-.0001	-.0024
7	S95T001272_L	-5.726	1.487	-5.970	117000.	2.011	-4.176
8	S95T001272_	3.759	1.089	1.309	111300.	.9404	1.292
9	S95T001272_D	6.356	1.167	1.089	104600.	1.597	-2.877
10	S95T001272_A	386.5	399.3	426.4	103500.	390.8	414.3
11	CCV	4.856	4.878	4.983	4.913	5.097	4.996
12	CCB	.0001	.0011	-.0009	.0191	-.0003	-.0094
13	S95T001286	1.129	.0866	-.1258	9.193	.3483	-.6369
14	S95T001286_D	-.1676	.0803	-.1615	8.953	.0157	-1.127
15	ICSA	241.5	-.0048	-.0093	184.9	.0011	-.0068
16	ICSAB	240.8	.4383	-.0110	184.9	.0003	.8850
17	CCV_1	4.855	4.910	5.062	4.847	5.067	5.069
18	CCB_1	-.0049	.0009	-.0020	.0167	-.0004	-.0074

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.492	5.173	5.249	4.965	5.121	5.074
2	ICB	-.0137	-.0045	-.0131	-.0059	.0723	.0034
3	ICSA	-.0242	.0370	-.0380	.0061	.0624	.0170
4	ICSAB	-.0193	1.021	-.0308	.0065	.0844	.0244
5	S95T001269	.0404	-.0010	.7236	.0027	.0492	1.774
6	S95T001269_D	.0482	.0032	.7196	.0030	.0512	1.804
7	S95T001272_L	15860.	23.73	7248.	2.300	-312.6	18.63
8	S95T001272_	15720.	5.597	7252.	-.4481	-415.2	17.57
9	S95T001272_D	14970.	-.5649	6929.	.5775	-380.6	19.64
10	S95T001272_A	15270.	425.1	7258.	398.1	33.61	426.0
11	CCV	4.902	4.972	4.959	4.666	4.891	4.761
12	CCB	.0024	.0127	-.0034	-.0101	.0874	.0200
13	S95T001286	.5614	1.025	1.696	-.0565	9.545	2.157
14	S95T001286_D	-1.355	-.3810	.4163	.1513	7.667	1.864
15	ICSA	-.0182	.0237	-.0289	-.0039	.0673	.0222
16	ICSAB	-.0167	.9766	-.0271	-.0087	.0585	.0296
17	CCV_1	5.034	5.040	4.990	4.714	4.964	4.772
18	CCB_1	-.0015	.0035	-.0066	-.0042	.0788	.0159

WHC-SD-WM-DP-140, REV. 1

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.076	5.004	-.0081	5.049	5.152	10.29
2	ICB	.0122	.0004	-.0013	.0000	-.0088	.0499
3	ICSA	.0052	.0018	-.0178	.0018	.0479	-.1132
4	ICSAB	.0033	.0018	-.0208	.0018	.0826	-.1482
5	S95T001269	.0275	.0018	-.0026	.0005	.0007	.1349
6	S95T001269_D	.0315	.0019	-.0050	.0005	-.0225	.1501
7	S95T001272_L	31.46	.9675	-.8344	2.270	-38.77	139.6
8	S95T001272_	9.220	.3062	-.7061	.4583	-11.29	48.31
9	S95T001272_D	11.99	.3864	-.5425	.6403	-5.198	63.17
10	S95T001272_A	390.6	379.9	-1.782	394.4	403.2	837.0
11	CCV	4.972	4.860	-.0057	4.810	4.853	9.901
12	CCB	.0322	.0008	-.0018	.0003	-.0062	.0130
13	S95T001286	3.133	.0938	.7384	.1777	-2.799	1.306
14	S95T001286_D	3.141	.0979	.5263	.0695	.3299	.5583
15	ICSA	.0281	.0024	-.0176	.0015	.0482	-.0578
16	ICSAB	.0302	.0024	-.0146	.0015	.0251	-.0487
17	CCV_1	4.951	4.858	.0103	4.844	4.848	9.815
18	CCB_1	.0276	.0007	.0032	.0003	-.0042	-.0023

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.212	.0133	5.235	5.142
2	ICB	.0030	.0009	-.0007	.0010
3	ICSA	.0057	.0085	-.0042	.0009
4	ICSAB	.4904	.0081	1.009	.0007
5	S95T001269	.0063	.0016	.0475	.0041
6	S95T001269_D	.0067	.0019	.0423	.0045
7	S95T001272_L	7.833	2.043	6.447	1.762
8	S95T001272_	2.408	.4714	7.686	1.116
9	S95T001272_D	3.188	.7542	9.167	1.829
10	S95T001272_A	417.4	1.886	436.1	401.3
11	CCV	4.943	.0143	4.961	4.904
12	CCB	.0066	.0019	-.0002	.0046
13	S95T001286	.6636	.1821	-1.298	.3572
14	S95T001286_D	.7359	.1821	-1.327	.4056
15	ICSA	.0082	.0095	-.0032	.0041
16	ICSAB	.4664	.0096	.9553	.0037

WHC-SD-WM-DP-140, REV. 1

8 08/02/95

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	1913	1			ICV	AG				4.9999		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
2	1913	1			ICV	AL				4.9979		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
3	1913	1			ICV	AS				5.2042		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
4	1913	1			ICV	B				5.0644		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
5	1913	1			ICV	BA				4.9576		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
6	1913	1			ICV	BE				5.3003		1.0000	08/01/95	10:14	bjg	0.005	@ICP-QC
7	1913	1			ICV	BI				5.1128		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
8	1913	1			ICV	CA				5.2832		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
9	1913	1			ICV	CD				5.1944		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
10	1913	1			ICV	CE				5.1181		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
11	1913	1			ICV	CO				5.3153		1.0000	08/01/95	10:14	bjg	0.02	@ICP-QC
12	1913	1			ICV	CR				5.2304		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
13	1913	1			ICV	CU				5.0466		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
14	1913	1			ICV	EU				0.0057		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
15	1913	1			ICV	FE				5.1699		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
16	1913	1			ICV	K				4.8923		1.0000	08/01/95	10:14	bjg	0.3	@ICP-QC
17	1913	1			ICV	LA				5.0577		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
18	1913	1			ICV	LI				4.9238		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
19	1913	1			ICV	MG				4.9941		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
20	1913	1			ICV	MN				5.0620		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
21	1913	1			ICV	MO				5.2631		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
22	1913	1			ICV	NA				4.9362		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
23	1913	1			ICV	ND				5.1891		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
24	1913	1			ICV	NI				5.1393		1.0000	08/01/95	10:14	bjg	0.02	@ICP-QC
25	1913	1			ICV	P				5.4917		1.0000	08/01/95	10:14	bjg	0.2	@ICP-QC
26	1913	1			ICV	PB				5.1725		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
27	1913	1			ICV	S				5.2493		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
28	1913	1			ICV	SB				4.9649		1.0000	08/01/95	10:14	bjg	0.2	@ICP-QC
29	1913	1			ICV	SE				5.1205		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
30	1913	1			ICV	SI				5.0736		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
31	1913	1			ICV	SM				5.0756		1.0000	08/01/95	10:14	bjg	0.1	@ICP-QC
32	1913	1			ICV	SR				5.0036		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
33	1913	1			ICV	TH				-0.0081		1.0000	08/01/95	10:14	bjg	0	@ICP-QC
34	1913	1			ICV	TI				5.0489		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
35	1913	1			ICV	TL				5.1519		1.0000	08/01/95	10:14	bjg	0.2	@ICP-QC
36	1913	1			ICV	U				10.2870		1.0000	08/01/95	10:14	bjg	0.4	@ICP-QC
37	1913	1			ICV	V				5.2122		1.0000	08/01/95	10:14	bjg	0.05	@ICP-QC
38	1913	1			ICV	Y				0.0133		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
39	1913	1			ICV	ZN				5.2350		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
40	1913	1			ICV	ZR				5.1420		1.0000	08/01/95	10:14	bjg	0.01	@ICP-QC
41	1913	2			ICB	AG				-0.0028		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
42	1913	2			ICB	AL				-0.0051		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
43	1913	2			ICB	AS				0.0008		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
44	1913	2			ICB	B				0.0015		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
45	1913	2			ICB	BA				-0.0001		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
46	1913	2			ICB	BE				0.0002		1.0000	08/01/95	10:18	bjg	0.005	@ICP-QC
47	1913	2			ICB	BI				0.0173		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
48	1913	2			ICB	CA				0.0020		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
49	1913	2			ICB	CD				0.0019		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
50	1913	2			ICB	CE				-0.0025		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
51	1913	2			ICB	CO				-0.0003		1.0000	08/01/95	10:18	bjg	0.02	@ICP-QC
52	1913	2			ICB	CR				0.0008		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
53	1913	2			ICB	CU				-0.0000		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
54	1913	2			ICB	EU				0.0008		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
55	1913	2			ICB	FE				-0.0008		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
56	1913	2			ICB	K				-0.0338		1.0000	08/01/95	10:18	bjg	0.3	@ICP-QC
57	1913	2			ICB	LA				-0.0004		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
58	1913	2			ICB	LI				0.0007		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
59	1913	2			ICB	MG				-0.0020		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
60	1913	2			ICB	MN				0.0003		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
61	1913	2			ICB	MO				-0.0032		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
62	1913	2			ICB	NA				0.0076		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
63	1913	2			ICB	ND				-0.0002		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
64	1913	2			ICB	NI				0.0022		1.0000	08/01/95	10:18	bjg	0.02	@ICP-QC
65	1913	2			ICB	P				-0.0137		1.0000	08/01/95	10:18	bjg	0.2	@ICP-QC
66	1913	2			ICB	PB				-0.0045		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
67	1913	2			ICB	S				-0.0131		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
68	1913	2			ICB	SB				-0.0058		1.0000	08/01/95	10:18	bjg	0.2	@ICP-QC
69	1913	2			ICB	SE				0.0723		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
70	1913	2			ICB	SI				0.0034		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
71	1913	2			ICB	SM				0.0122		1.0000	08/01/95	10:18	bjg	0.1	@ICP-QC
72	1913	2			ICB	SR				0.0004		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
73	1913	2			ICB	TH				-0.0013		1.0000	08/01/95	10:18	bjg	0	@ICP-QC
74	1913	2			ICB	TI				0.0000		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
75	1913	2			ICB	TL				-0.0088		1.0000	08/01/95	10:18	bjg	0.2	@ICP-QC
76	1913	2			ICB	U				0.0499		1.0000	08/01/95	10:18	bjg	0.4	@ICP-QC
77	1913	2			ICB	V				0.0030		1.0000	08/01/95	10:18	bjg	0.05	@ICP-QC
78	1913	2			ICB	Y				0.0009		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
79	1913	2			ICB	ZN				-0.0007		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
80	1913	2			ICB	ZR				0.0010		1.0000	08/01/95	10:18	bjg	0.01	@ICP-QC
81	1913	3			ICSA	AG				-0.0005		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
82	1913	3			ICSA	AL				244.8980		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
83	1913	3			ICSA	AS				0.0224		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
84	1913	3			ICSA	B				-0.0039		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
85	1913	3			ICSA	BA				0.0019		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
86	1913	3			ICSA	BE				0.0003		1.0000	08/01/95	10:21	bjg	0.005	@ICP-QC
87	1913	3			ICSA	BI				0.0078		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
88	1913	3			ICSA	CA				253.1078		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
89	1913	3			ICSA	CD				0.0040		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
90	1913	3			ICSA	CE				0.0066		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
91	1913	3			ICSA	CO				-0.0005		1.0000	08/01/95	10:21	bjg	0.02	@ICP-QC
92	1913	3			ICSA	CR				0.0075		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
93	1913	3			ICSA	CU				-0.0092		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
94	1913	3			ICSA	EU				-0.0444		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
95	1913	3			ICSA	FE				93.5509		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
96	1913	3			ICSA	K				0.2620		1.0000	08/01/95	10:21	bjg	0.3	@ICP-QC
97	1913	3			ICSA	LA				-0.0034		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
98	1913	3			ICSA	LI				0.0035		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
99	1913	3			ICSA	MG				246.6579		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
100	1913	3			ICSA	MN				-0.0048		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
101	1913	3			ICSA	MO				-0.0108		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
102	1913	3			ICSA	NA				184.8207		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
103	1913	3			ICSA	ND				-0.0005		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
104	1913	3			ICSA	NI				-0.0284		1.0000	08/01/95	10:21	bjg	0.02	@ICP-QC
105	1913	3			ICSA	P				-0.0242		1.0000	08/01/95	10:21	bjg	0.2	@ICP-QC
106	1913	3			ICSA	PB				0.0370		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
107	1913	3			ICSA	S				-0.0380		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
108	1913	3			ICSA	SB				0.0061		1.0000	08/01/95	10:21	bjg	0.2	@ICP-QC
109	1913	3			ICSA	SE				0.0624		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
110	1913	3			ICSA	SI				0.0170		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
111	1913	3			ICSA	SM				0.0052		1.0000	08/01/95	10:21	bjg	0.1	@ICP-QC
112	1913	3			ICSA	SR				0.0018		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
113	1913	3			ICSA	TH				-0.0178		1.0000	08/01/95	10:21	bjg	0	@ICP-QC
114	1913	3			ICSA	TI				0.0018		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
115	1913	3			ICSA	TL				0.0479		1.0000	08/01/95	10:21	bjg	0.2	@ICP-QC
116	1913	3			ICSA	U				-0.1132		1.0000	08/01/95	10:21	bjg	0.4	@ICP-QC
117	1913	3			ICSA	V				0.0057		1.0000	08/01/95	10:21	bjg	0.05	@ICP-QC
118	1913	3			ICSA	Y				0.0085		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
119	1913	3			ICSA	ZN				-0.0042		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
120	1913	3			ICSA	ZR				0.0009		1.0000	08/01/95	10:21	bjg	0.01	@ICP-QC
121	1913	4			ICSAB	AG				0.9789		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
122	1913	4			ICSAB	AL				245.5730		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC

214

WHC-SD-WM-DP-140, REV. 1

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
123	1913	4			ICSAB	AS				0.0255		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
124	1913	4			ICSAB	B				-0.0101		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
125	1913	4			ICSAB	BA				0.4614		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
126	1913	4			ICSAB	BE				0.4926		1.0000	08/01/95	10:25	bjg	0.005	@ICP-QC
127	1913	4			ICSAB	BI				0.0034		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
128	1913	4			ICSAB	CA				255.7516		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
129	1913	4			ICSAB	CD				0.9804		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
130	1913	4			ICSAB	CE				0.0061		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
131	1913	4			ICSAB	CO				0.4876		1.0000	08/01/95	10:25	bjg	0.02	@ICP-QC
132	1913	4			ICSAB	CR				0.4946		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
133	1913	4			ICSAB	CU				0.4850		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
134	1913	4			ICSAB	EU				-0.0441		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
135	1913	4			ICSAB	FE				93.9461		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
136	1913	4			ICSAB	K				0.1776		1.0000	08/01/95	10:25	bjg	0.3	@ICP-QC
137	1913	4			ICSAB	LA				-0.0035		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
138	1913	4			ICSAB	LI				0.9354		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
139	1913	4			ICSAB	MG				247.1501		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
140	1913	4			ICSAB	MN				0.4621		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
141	1913	4			ICSAB	MO				-0.0148		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
142	1913	4			ICSAB	NA				185.8820		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
143	1913	4			ICSAB	ND				-0.0014		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
144	1913	4			ICSAB	NI				0.9304		1.0000	08/01/95	10:25	bjg	0.02	@ICP-QC
145	1913	4			ICSAB	P				-0.0193		1.0000	08/01/95	10:25	bjg	0.2	@ICP-QC
146	1913	4			ICSAB	PB				1.0212		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
147	1913	4			ICSAB	S				-0.0308		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
148	1913	4			ICSAB	SB				0.0065		1.0000	08/01/95	10:25	bjg	0.2	@ICP-QC
149	1913	4			ICSAB	SE				0.0844		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
150	1913	4			ICSAB	SI				0.0244		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
151	1913	4			ICSAB	SM				0.0033		1.0000	08/01/95	10:25	bjg	0.1	@ICP-QC
152	1913	4			ICSAB	SR				0.0018		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
153	1913	4			ICSAB	TH				-0.0208		1.0000	08/01/95	10:25	bjg	0	@ICP-QC
154	1913	4			ICSAB	TI				0.0018		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
155	1913	4			ICSAB	TL				0.0826		1.0000	08/01/95	10:25	bjg	0.2	@ICP-QC
156	1913	4			ICSAB	U				-0.1482		1.0000	08/01/95	10:25	bjg	0.4	@ICP-QC
157	1913	4			ICSAB	V				0.4904		1.0000	08/01/95	10:25	bjg	0.05	@ICP-QC
158	1913	4			ICSAB	Y				0.0082		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
159	1913	4			ICSAB	ZN				1.0086		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
160	1913	4			ICSAB	ZR				0.0007		1.0000	08/01/95	10:25	bjg	0.01	@ICP-QC
161	1913	5	S95T001269			LI-D-01				0.0173		1.0000	08/01/95	10:29	bjg	0.01	@ICP-D0
162	1913	6	S95T001269		DUP	LI-D-01		0.0173		0.0171		1.0000	08/01/95	10:34	bjg	0.01	@ICP-D0
163	1913	7	S95T001272			LI-D-01			<	4.0100		401.0000	08/01/95	10:42	bjg	0.01	@ICP-D0
164	1913	8	S95T001272		DUP	LI-D-01		<4.0100		<4.0100		401.0000	08/01/95	10:45	bjg	0.01	@ICP-D0
165	1913	9	S95T001272_A		SPK	LI-D-01		401.0		358.2049		401.0000	08/01/95	10:50	bjg	0.01	@ICP-D0
166	1913	10			CCV	AG				4.8403		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
167	1913	10			CCV	AL				4.8798		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
168	1913	10			CCV	AS				4.9975		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
169	1913	10			CCV	B				4.8913		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
170	1913	10			CCV	BA				4.8590		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
171	1913	10			CCV	BE				5.0410		1.0000	08/01/95	11:18	bjg	0.005	@ICP-QC
172	1913	10			CCV	BI				4.8640		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
173	1913	10			CCV	CA				4.9933		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
174	1913	10			CCV	CD				4.9785		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
175	1913	10			CCV	CE				4.9573		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
176	1913	10			CCV	CO				5.0120		1.0000	08/01/95	11:18	bjg	0.02	@ICP-QC
177	1913	10			CCV	CR				5.0178		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
178	1913	10			CCV	CU				4.8739		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
179	1913	10			CCV	EU				0.0082		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
180	1913	10			CCV	FE				4.9937		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
181	1913	10			CCV	K				4.9862		1.0000	08/01/95	11:18	bjg	0.3	@ICP-QC
182	1913	10			CCV	LA				4.9478		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
183	1913	10			CCV	LI				4.9594		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
184	1913	10			CCV	MG				4.8557		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
185	1913	10			CCV	MN				4.8777		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
186	1913	10			CCV	MO				4.9828		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
187	1913	10			CCV	NA				4.9130		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
188	1913	10			CCV	ND				5.0971		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
189	1913	10			CCV	NI				4.9955		1.0000	08/01/95	11:18	bjg	0.02	@ICP-QC
190	1913	10			CCV	P				4.9024		1.0000	08/01/95	11:18	bjg	0.2	@ICP-QC
191	1913	10			CCV	PB				4.9717		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
192	1913	10			CCV	S				4.9593		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
193	1913	10			CCV	SB				4.6655		1.0000	08/01/95	11:18	bjg	0.2	@ICP-QC
194	1913	10			CCV	SE				4.8911		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
195	1913	10			CCV	SI				4.7610		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
196	1913	10			CCV	SM				4.9718		1.0000	08/01/95	11:18	bjg	0.1	@ICP-QC
197	1913	10			CCV	SR				4.8598		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
198	1913	10			CCV	TH				-0.0057		1.0000	08/01/95	11:18	bjg	0	@ICP-QC
199	1913	10			CCV	TI				4.8102		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
200	1913	10			CCV	TL				4.8531		1.0000	08/01/95	11:18	bjg	0.2	@ICP-QC
201	1913	10			CCV	U				9.9012		1.0000	08/01/95	11:18	bjg	0.4	@ICP-QC
202	1913	10			CCV	V				4.9431		1.0000	08/01/95	11:18	bjg	0.05	@ICP-QC
203	1913	10			CCV	Y				0.0143		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
204	1913	10			CCV	ZN				4.9809		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
205	1913	10			CCV	ZR				4.9036		1.0000	08/01/95	11:18	bjg	0.01	@ICP-QC
206	1913	11			CCB	AG				0.0006		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
207	1913	11			CCB	AL				-0.0014		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
208	1913	11			CCB	AS				0.0079		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
209	1913	11			CCB	B				-0.0005		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
210	1913	11			CCB	BA				0.0000		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
211	1913	11			CCB	BE				0.0003		1.0000	08/01/95	11:21	bjg	0.005	@ICP-QC
212	1913	11			CCB	BI				0.0078		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
213	1913	11			CCB	CA				0.0009		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
214	1913	11			CCB	CD				0.0011		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
215	1913	11			CCB	CE				-0.0051		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
216	1913	11			CCB	CO				-0.0002		1.0000	08/01/95	11:21	bjg	0.02	@ICP-QC
217	1913	11			CCB	CR				0.0004		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
218	1913	11			CCB	CU				0.0002		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
219	1913	11			CCB	EU				0.0029		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
220	1913	11			CCB	FE				-0.0012		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
221	1913	11			CCB	K				0.0922		1.0000	08/01/95	11:21	bjg	0.3	@ICP-QC
222	1913	11			CCB	LA				-0.0005		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
223	1913	11			CCB	LI				0.0022		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
224	1913	11			CCB	MG				0.0001		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
225	1913	11			CCB	MN				0.0011		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
226	1913	11			CCB	MO				-0.0009		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
227	1913	11			CCB	NA				0.0191		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
228	1913	11			CCB	ND				-0.0003		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
229	1913	11			CCB	NI				-0.0094		1.0000	08/01/95	11:21	bjg	0.02	@ICP-QC
230	1913	11			CCB	P				0.0024		1.0000	08/01/95	11:21	bjg	0.2	@ICP-QC
231	1913	11			CCB	PB				0.0127		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
232	1913	11			CCB	S				-0.0034		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
233	1913	11			CCB	SB				-0.0101		1.0000	08/01/95	11:21	bjg	0.2	@ICP-QC
234	1913	11			CCB	SE				0.0874		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
235	1913	11			CCB	SI				0.0200		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
236	1913	11			CCB	SM				0.0322		1.0000	08/01/95	11:21	bjg	0.1	@ICP-QC
237	1913	11			CCB	SR				0.0008		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
238	1913	11			CCB	TH				-0.0018		1.0000	08/01/95	11:21	bjg	0	@ICP-QC
239	1913	11			CCB	TI				0.0003		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
240	1913	11			CCB	TL				-0.0062		1.0000	08/01/95	11:21	bjg	0.2	@ICP-QC
241	1913	11			CCB	U				0.0130		1.0000	08/01/95	11:21	bjg	0.4	@ICP-QC
242	1913	11			CCB	V				0.0066		1.0000	08/01/95	11:21	bjg	0.05	@ICP-QC
243	1913	11			CCB	Y				0.0019		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
244	1913	11			CCB	ZN				-0.0002		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC

215

WHC-SD-WM-DP-140, REV. 1

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
245	1913	11			CCB	ZR				0.0046		1.0000	08/01/95	11:21	bjg	0.01	@ICP-QC
246	1913	12	S95T001286			LI-D-01				1936.0718		101.0000	08/01/95	11:24	bjg	0.01	@ICP-D0
247	1913	13	S95T001286		DUP	LI-D-01		1936.0718		1930.5830		101.0000	08/01/95	11:27	bjg	0.01	@ICP-D0
248	1913	14			ICSA	AG				-0.0011		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
249	1913	14			ICSA	AL				240.1012		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
250	1913	14			ICSA	AS				-0.0130		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
251	1913	14			ICSA	B				-0.0041		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
252	1913	14			ICSA	BA				0.0018		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
253	1913	14			ICSA	BE				0.0003		1.0000	08/01/95	11:30	bjg	0.005	@ICP-QC
254	1913	14			ICSA	BI				-0.0149		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
255	1913	14			ICSA	CA				237.8736		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
256	1913	14			ICSA	CD				0.0024		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
257	1913	14			ICSA	CE				0.0083		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
258	1913	14			ICSA	CO				-0.0011		1.0000	08/01/95	11:30	bjg	0.02	@ICP-QC
259	1913	14			ICSA	CR				0.0083		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
260	1913	14			ICSA	CU				-0.0098		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
261	1913	14			ICSA	EU				-0.0114		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
262	1913	14			ICSA	FE				91.0002		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
263	1913	14			ICSA	K				0.2023		1.0000	08/01/95	11:30	bjg	0.3	@ICP-QC
264	1913	14			ICSA	LA				-0.0043		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
265	1913	14			ICSA	LI				0.0052		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
266	1913	14			ICSA	MG				241.4601		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
267	1913	14			ICSA	MN				-0.0048		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
268	1913	14			ICSA	MO				-0.0093		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
269	1913	14			ICSA	NA				184.9494		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
270	1913	14			ICSA	ND				0.0011		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
271	1913	14			ICSA	NI				-0.0068		1.0000	08/01/95	11:30	bjg	0.02	@ICP-QC
272	1913	14			ICSA	P				-0.0182		1.0000	08/01/95	11:30	bjg	0.2	@ICP-QC
273	1913	14			ICSA	PB				0.0237		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
274	1913	14			ICSA	S				-0.0289		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
275	1913	14			ICSA	SB				-0.0039		1.0000	08/01/95	11:30	bjg	0.2	@ICP-QC
276	1913	14			ICSA	SE				0.0673		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
277	1913	14			ICSA	SI				0.0222		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
278	1913	14			ICSA	SM				0.0281		1.0000	08/01/95	11:30	bjg	0.1	@ICP-QC
279	1913	14			ICSA	SR				0.0024		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
280	1913	14			ICSA	TH				-0.0176		1.0000	08/01/95	11:30	bjg	0	@ICP-QC
281	1913	14			ICSA	TI				0.0015		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
282	1913	14			ICSA	TL				0.0482		1.0000	08/01/95	11:30	bjg	0.2	@ICP-QC
283	1913	14			ICSA	U				-0.0578		1.0000	08/01/95	11:30	bjg	0.4	@ICP-QC
284	1913	14			ICSA	V				0.0082		1.0000	08/01/95	11:30	bjg	0.05	@ICP-QC
285	1913	14			ICSA	Y				0.0095		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
286	1913	14			ICSA	ZN				-0.0032		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
287	1913	14			ICSA	ZR				0.0041		1.0000	08/01/95	11:30	bjg	0.01	@ICP-QC
288	1913	15			ICSAB	AG				0.9419		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
289	1913	15			ICSAB	AL				239.4379		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
290	1913	15			ICSAB	AS				-0.0113		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
291	1913	15			ICSAB	B				-0.0032		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
292	1913	15			ICSAB	BA				0.4480		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
293	1913	15			ICSAB	BE				0.4660		1.0000	08/01/95	11:34	bjg	0.005	@ICP-QC
294	1913	15			ICSAB	BI				0.0105		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
295	1913	15			ICSAB	CA				237.8405		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
296	1913	15			ICSAB	CD				0.9351		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
297	1913	15			ICSAB	CE				0.0172		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
298	1913	15			ICSAB	CO				0.4621		1.0000	08/01/95	11:34	bjg	0.02	@ICP-QC
299	1913	15			ICSAB	CR				0.4728		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
300	1913	15			ICSAB	CU				0.4629		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
301	1913	15			ICSAB	EU				-0.0102		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
302	1913	15			ICSAB	FE				90.4552		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
303	1913	15			ICSAB	K				0.2207		1.0000	08/01/95	11:34	bjg	0.3	@ICP-QC
304	1913	15			ICSAB	LA				-0.0030		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
305	1913	15			ICSAB	LI				0.9387		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
306	1913	15			ICSAB	MG				240.7519		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
307	1913	15			ICSAB	MN				0.4383		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
308	1913	15			ICSAB	MO				-0.0110		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
309	1913	15			ICSAB	NA				184.8864		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
310	1913	15			ICSAB	ND				0.0003		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
311	1913	15			ICSAB	NI				0.8850		1.0000	08/01/95	11:34	bjg	0.02	@ICP-QC
312	1913	15			ICSAB	P				-0.0167		1.0000	08/01/95	11:34	bjg	0.2	@ICP-QC
313	1913	15			ICSAB	PB				0.9766		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
314	1913	15			ICSAB	S				-0.0271		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
315	1913	15			ICSAB	SB				-0.0087		1.0000	08/01/95	11:34	bjg	0.2	@ICP-QC
316	1913	15			ICSAB	SE				0.0585		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
317	1913	15			ICSAB	SI				0.0296		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
318	1913	15			ICSAB	SM				0.0302		1.0000	08/01/95	11:34	bjg	0.1	@ICP-QC
319	1913	15			ICSAB	SR				0.0024		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
320	1913	15			ICSAB	TH				-0.0146		1.0000	08/01/95	11:34	bjg	0	@ICP-QC
321	1913	15			ICSAB	TI				0.0015		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
322	1913	15			ICSAB	TL				0.0251		1.0000	08/01/95	11:34	bjg	0.2	@ICP-QC
323	1913	15			ICSAB	U				-0.0487		1.0000	08/01/95	11:34	bjg	0.4	@ICP-QC
324	1913	15			ICSAB	V				0.4664		1.0000	08/01/95	11:34	bjg	0.05	@ICP-QC
325	1913	15			ICSAB	Y				0.0096		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
326	1913	15			ICSAB	ZN				0.9553		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
327	1913	15			ICSAB	ZR				0.0037		1.0000	08/01/95	11:34	bjg	0.01	@ICP-QC
328	1913	16			CCV	AG				4.8705		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
329	1913	16			CCV	AL				4.8691		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
330	1913	16			CCV	AS				5.0460		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
331	1913	16			CCV	B				4.8935		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
332	1913	16			CCV	BA				4.8268		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
333	1913	16			CCV	BE				5.0845		1.0000	08/01/95	11:37	bjg	0.005	@ICP-QC
334	1913	16			CCV	BI				5.0001		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
335	1913	16			CCV	CA				5.1447		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
336	1913	16			CCV	CD				5.0713		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
337	1913	16			CCV	CE				4.9656		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
338	1913	16			CCV	CO				5.0905		1.0000	08/01/95	11:37	bjg	0.02	@ICP-QC
339	1913	16			CCV	CR				5.0957		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
340	1913	16			CCV	CU				4.8538		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
341	1913	16			CCV	EU				0.0090		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
342	1913	16			CCV	FE				5.0442		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
343	1913	16			CCV	K				5.1182		1.0000	08/01/95	11:37	bjg	0.3	@ICP-QC
344	1913	16			CCV	LA				4.9446		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
345	1913	16			CCV	LI				4.8358		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
346	1913	16			CCV	MG				4.8553		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
347	1913	16			CCV	MN				4.9098		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
348	1913	16			CCV	MO				5.0624		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
349	1913	16			CCV	NA				4.8468		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
350	1913	16			CCV	ND				5.0672		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
351	1913	16			CCV	NI				5.0693		1.0000	08/01/95	11:37	bjg	0.02	@ICP-QC
352	1913	16			CCV	P				5.0340		1.0000	08/01/95	11:37	bjg	0.2	@ICP-QC
353	1913	16			CCV	PB				5.0405		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
354	1913	16			CCV	S				4.9903		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
355	1913	16			CCV	SB				4.7143		1.0000	08/01/95	11:37	bjg	0.2	@ICP-QC
356	1913	16			CCV	SE				4.9645		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
357	1913	16			CCV	SI				4.7717		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
358	1913	16			CCV	SM				4.9510		1.0000	08/01/95	11:37	bjg	0.1	@ICP-QC
359	1913	16			CCV	SR				4.8577		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
360	1913	16			CCV	TH				0.0103		1.0000	08/01/95	11:37	bjg	0	@ICP-QC
361	1913	16			CCV	TI				4.8438		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
362	1913	16			CCV	TL				4.8475		1.0000	08/01/95	11:37	bjg	0.2	@ICP-QC
363	1913	16			CCV	U				9.8146		1.0000	08/01/95	11:37	bjg	0.4	@ICP-QC
364	1913	16			CCV	V				4.9958		1.0000	08/01/95	11:37	bjg	0.05	@ICP-QC
365	1913	16			CCV	Y				0.0150		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC
366	1913	16			CCV	ZN				5.0398		1.0000	08/01/95	11:37	bjg	0.01	@ICP-QC

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

216

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
367	1913	16			CCV	ZR				4.9271		1.0000	08/01/95	11:37	big	0.01	@ICP-QC
368	1913	17			CCB	AG				0.0002		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
369	1913	17			CCB	AL				-0.0006		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
370	1913	17			CCB	AS				-0.0142		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
371	1913	17			CCB	B				0.0024		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
372	1913	17			CCB	BA				0.0000		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
373	1913	17			CCB	BE				0.0003		1.0000	08/01/95	11:40	big	0.005	@ICP-QC
374	1913	17			CCB	BI				-0.0049		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
375	1913	17			CCB	CA				0.0036		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
376	1913	17			CCB	CD				0.0007		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
377	1913	17			CCB	CE				0.0009		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
378	1913	17			CCB	CO				0.0008		1.0000	08/01/95	11:40	big	0.02	@ICP-QC
379	1913	17			CCB	CR				0.0003		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
380	1913	17			CCB	CU				-0.0002		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
381	1913	17			CCB	EU				0.0026		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
382	1913	17			CCB	FE				-0.0007		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
383	1913	17			CCB	K				0.0537		1.0000	08/01/95	11:40	big	0.3	@ICP-QC
384	1913	17			CCB	LA				0.0000		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
385	1913	17			CCB	LI				0.0021		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
386	1913	17			CCB	MG				-0.0049		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
387	1913	17			CCB	MN				0.0009		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
388	1913	17			CCB	MO				-0.0020		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
389	1913	17			CCB	NA				0.0167		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
390	1913	17			CCB	ND				-0.0004		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
391	1913	17			CCB	NI				-0.0074		1.0000	08/01/95	11:40	big	0.02	@ICP-QC
392	1913	17			CCB	P				-0.0015		1.0000	08/01/95	11:40	big	0.2	@ICP-QC
393	1913	17			CCB	PB				0.0035		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
394	1913	17			CCB	S				-0.0066		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
395	1913	17			CCB	SB				-0.0042		1.0000	08/01/95	11:40	big	0.2	@ICP-QC
396	1913	17			CCB	SE				0.0788		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
397	1913	17			CCB	SI				0.0159		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
398	1913	17			CCB	SM				0.0276		1.0000	08/01/95	11:40	big	0.1	@ICP-QC
399	1913	17			CCB	SR				0.0007		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
400	1913	17			CCB	TH				0.0032		1.0000	08/01/95	11:40	big	0	@ICP-QC
401	1913	17			CCB	TI				0.0003		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
402	1913	17			CCB	TL				-0.0042		1.0000	08/01/95	11:40	big	0.2	@ICP-QC
403	1913	17			CCB	U				-0.0023		1.0000	08/01/95	11:40	big	0.4	@ICP-QC
404	1913	17			CCB	V				0.0063		1.0000	08/01/95	11:40	big	0.05	@ICP-QC
405	1913	17			CCB	Y				0.0016		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
406	1913	17			CCB	ZN				-0.0004		1.0000	08/01/95	11:40	big	0.01	@ICP-QC
407	1913	17			CCB	ZR				0.0036		1.0000	08/01/95	11:40	big	0.01	@ICP-QC

WHC-SD-WM-DP- 140, REV. 1

S
08/02/95

LABCORE Data Entry Template for Worklist# 1914

Analyst: JK Soto **Instrument:** ICP01 **Book#** G-1 468486

Method: LA-505-151 Rev/Mod G-1

Worklist Comment: ICP B-106 FUSION (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	PREPBLKTJA				@ICP-F03	SOLID		
6	SAMPLE	S95T001299	0	F	@ICP-F03	SOLID	95000096	B-106
	Analytes Requested: LI-F-01							
7	DUP	S95T001299	0	F	@ICP-F03	SOLID		
8	SPK	S95T001299	0	F	@ICP-F03	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T001303	0	F	@ICP-F03	SOLID	95000096	B-106
	Analytes Requested: LI-F-01							
12	DUP	S95T001303	0	F	@ICP-F03	SOLID		
13	SPK	S95T001303	0	F	@ICP-F03	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1914

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 1914

DK Lato 08-02-95
Analyst Signature Date

Reviewed + Validated by:
Sam M. Pang 08/03/94
Analyst Signature Date

Prepblk TJG 1-9 ml

S95T001299_L, .5278g → 250 ml, 1-9-2-8 ml, (250×50)/.5278 = 23483.2
S95T001299 .5278g → 250 1-9 (250×10)/.5278 = 4734.4
S95T001299_D .5348g → 250 1-9 (250×10)/.5348 = 4674.6
S95T001299_Q .5278g → 250 1-9 (250×10)/.5278 = 4734.4 1ml sample + 2 ml SSTS + 7 ml 2% HNO_3

S95T001303_L, .5013g → 250 ml, 1-9-2-8 ml, (250×50)/.5013 = 24935.2
S95T001303 .5013g → 250 ml 1-9 (250×10)/.5013 = 4987
S95T001303_D .5103g → 250 ml 1-9 (250×10)/.5103 = 4899.1
S95T001303_Q .5013g → 250 ml 1-9 (250×10)/.5013 = 4987 1ml sample + 2 ml SSTS + 7 ml 2% HNO_3

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WSW/157 - 1919

Analysis Report Summary Wed 08-02-95 02:33:43 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	10 ppm std	950802C	ICP2	08/02/95	12:20		X	IR
2	ICV	950802C	ICP2	08/02/95	12:16	DKS	Q	CONC
3	ICB	950802C	ICP2	08/02/95	12:24	DKS	Q	CONC
4	ICSA	950802C	ICP2	08/02/95	12:28	DKS	Q	CONC
5	ICSAB	950802C	ICP2	08/02/95	12:32	DKS	Q	CONC
6	PREPBLKTJA	950802C	ICP2	08/02/95	12:37	DKS	S	CONC
7	S95T001299_L	950802C	ICP2	08/02/95	12:41	DKS	S	CONC
8	S95T001299	950802C	ICP2	08/02/95	12:45	DKS	S	CONC
9	S95T001299_D	950802C	ICP2	08/02/95	12:49	DKS	S	CONC
10	S95T001299_A	950802C	ICP2	08/02/95	12:53	DKS	S	CONC
11	CCV	950802C	ICP2	08/02/95	13:17	DKS	Q	CONC
12	CCB	950802C	ICP2	08/02/95	13:21	DKS	Q	CONC
13	S95T001303_L	950802C	ICP2	08/02/95	13:25	DKS	S	CONC
14	S95T001303	950802C	ICP2	08/02/95	13:28	DKS	S	CONC
15	S95T001303_D	950802C	ICP2	08/02/95	13:32	DKS	S	CONC
16	S95T001303_A	950802C	ICP2	08/02/95	13:36	DKS	S	CONC
17	ICSA	950802C	ICP2	08/02/95	13:53	DKS	Q	CONC
18	ICSAB	950802C	ICP2	08/02/95	13:56	DKS	Q	CONC
19	CCV_1	950802C	ICP2	08/02/95	14:18	DKS	Q	CONC
20	CCB_1	950802C	ICP2	08/02/95	14:24	DKS	Q	CONC

WHC-SD-WM-DP-140, REV. 1

DK Lab

08-02-95

B-104 S95T001299

S95T001303

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 220 TO 228.

#	Sample Name	Si	Ag	Al	As	B	Ba
1	10 ppm std	4.0116					
2	ICV	5.129	5.081	5.026	5.197	4.970	4.989
3	ICB	.0020	.0006	-.0001	-.0140	.0000	-.0000
4	ICSA	.0098	.0006	241.9	-.0609	-.0067	.0018
5	ICSAB	.0146	.9631	242.5	-.0398	-.0063	.4595
6	PREPBLKTJA	.1719	.0088	.0572	-.0737	.0089	.0180
7	S95T001299_L	522.2	-4.109	274.3	-573.4	-72.08	40.04
8	S95T001299_	548.0	1.486	476.0	-94.75	39.95	37.38
9	S95T001299_D	587.1	2.681	441.0	2.100	34.87	37.36
10	S95T001299_A	5524.	4386.	5075.	5195.	4623.	4419.
11	CCV	5.147	5.091	5.017	5.224	4.951	4.987
12	CCB	.0070	.0013	.0055	.0012	-.0061	-.0000
13	S95T001303_L	425.4	4.849	1651.	245.0	-134.1	38.30
14	S95T001303_	563.6	1.250	1524.	-56.33	-3.348	38.09
15	S95T001303_D	617.7	10.71	1581.	-42.37	45.10	41.03
16	S95T001303_A	5869.	4409.	6379.	5448.	4750.	4596.
17	ICSA	.0196	.0008	245.9	-.0327	-.0082	.0020
18	ICSAB	.0217	.9764	242.0	-.0300	-.0074	.4545
19	CCV_1	5.111	5.049	5.008	5.114	4.929	4.957
20	CCB_1	-.0015	.0009	.0073	-.0012	.0019	.0000

#	Sample Name	Be	Bi	Ca	Cd	Ce	Co
1	10 ppm std						
2	ICV	5.257	5.125	5.195	5.218	5.118	5.246
3	ICB	-.0001	-.0165	.0003	.0007	.0009	.0020
4	ICSA	.0001	.0077	238.8	.0025	.0073	.0018
5	ICSAB	.4788	-.0393	243.3	.9540	.0129	.4695
6	PREPBLKTJA	.0003	.0298	.2355	.0149	-.0054	.0250
7	S95T001299_L	-1.720	459.7	1285.	-1.961	-149.4	-3.434
8	S95T001299_	.1187	176.5	1014.	9.139	62.96	9.343
9	S95T001299_D	.6589	150.6	895.5	7.928	13.44	18.55
10	S95T001299_A	4905.	4987.	6151.	5100.	4632.	5040.
11	CCV	5.230	5.093	5.180	5.209	5.113	5.216
12	CCB	.0001	.0060	.0014	.0015	-.0041	-.0014
13	S95T001303_L	-.2788	37.12	3424.	25.90	-11.67	-6.836
14	S95T001303_	-.0956	313.7	3189.	-.3613	-38.14	3.409
15	S95T001303_D	.0805	187.6	3226.	4.295	80.43	13.72
16	S95T001303_A	5111.	5200.	8778.	5366.	4881.	5295.
17	ICSA	.0002	-.0393	256.3	.0002	.0235	-.0008
18	ICSAB	.4906	-.0164	252.4	1.000	.0098	.4884
19	CCV_1	5.164	5.097	5.092	5.115	5.089	5.155
20	CCB_1	-.0000	-.0215	.0027	-.0001	.0053	-.0007

#	Sample Name	Cr	Cu	Eu	Fe	K	La
1	10 ppm std						
2	ICV	5.212	5.038	.0047	5.165	5.002	5.051
3	ICB	-.0008	.0004	-.0000	-.0007	.1465	.0001
4	ICSA	.0064	-.0093	-.0212	91.39	.1377	-.0040
5	ICSAB	.4823	.4695	-.0254	92.27	.2092	-.0030

#	Sample Name	Cr	Cu	Eu	Fe	K	La
6	PREPBLKTJA	-.0006	.0425	.0191	.0854	17450.	-.0030
7	S95T001299_L	109.9	23.63	26.02	14130.	7935e3	-13.75
8	S95T001299_	117.3	25.93	20.71	13820.	7230e3	14.12
9	S95T001299_D	118.2	32.73	18.03	13650.	7867e3	6.619
10	S95T001299_A	5147.	4560.	18.82	19420.	7576e3	4552.
11	CCV	5.199	5.046	.0063	5.151	4.869	5.057
12	CCB	.0008	-.0004	.0004	-.0009	.0689	.0000
13	S95T001303_L	142.0	34.04	-7.781	13760.	6535e3	4.673
14	S95T001303_	148.6	26.15	10.75	13500.	6267e3	-3.476
15	S95T001303_D	164.8	32.10	22.46	13910.	7631e3	17.16
16	S95T001303_A	5434.	4731.	33.25	19170.	6177e3	4743.
17	ICSA	.0070	-.0119	-.0278	96.56	.1725	-.0034
18	ICSAB	.4992	.4620	-.0236	94.78	.2320	-.0036
19	CCV_1	5.129	5.024	.0054	5.094	5.163	5.024
20	CCB_1	.0005	.0013	-.0010	.0003	.1623	.0014

#	Sample Name	Li	Mg	Mn	Mo	Na	Nd
1	10 ppm std						
2	ICV	4.993	5.043	5.079	5.181	4.984	5.202
3	ICB	.0000	.0022	.0000	.0012	.0007	.0009
4	ICSA	.0024	245.3	-.0059	-.0081	188.1	.0043
5	ICSAB	.9537	246.1	.4500	-.0087	188.0	.0029
6	PREPBLKTJA	.0088	.2079	.0854	.0133	5.235	.0082
7	S95T001299_L	34.59	450.0	95.09	26.31	90250.	15.55
8	S95T001299_	27.21	320.7	91.51	-.6718	81730.	30.33
9	S95T001299_D	24.13	325.6	101.7	.1235	82900.	29.66
10	S95T001299_A	4254.	4749.	4843.	5048.	90010.	4635.
11	CCV	4.973	5.038	5.060	5.151	4.974	5.207
12	CCB	.0008	-.0043	.0002	-.0006	.0018	-.0015
13	S95T001303_L	-2.582	491.5	160.1	35.42	88820.	-32.60
14	S95T001303_	11.88	724.6	163.9	9.639	85160.	-.7792
15	S95T001303_D	22.83	794.2	174.3	-2.555	83030.	26.55
16	S95T001303_A	4429.	5497.	5119.	5252.	87500.	4835.
17	ICSA	.0063	254.2	-.0055	-.0042	188.1	.0020
18	ICSAB	.9290	249.9	.4630	-.0051	185.4	.0026
19	CCV_1	5.025	5.014	4.990	5.088	4.976	5.178
20	CCB_1	-.0013	-.0009	-.0002	.0001	-.0046	.0027

#	Sample Name	Ni	P	Pb	S	Sb	Se
1	10 ppm std						
2	ICV	5.136	5.115	5.196	5.142	4.909	5.133
3	ICB	.0009	.0038	.0073	-.0004	.0000	-.0151
4	ICSA	-.0231	-.0140	.0308	-.0246	.0032	-.0093
5	ICSAB	.9046	-.0036	1.000	-.0164	-.0045	-.0074
6	PREPBLKTJA	2.680	.2491	-.0907	.0501	.0309	.1328
7	S95T001299_L	1568.	17900.	-8.412	4704.	-139.5	120.3
8	S95T001299_	1708.	17170.	223.0	4892.	23.90	-6.831
9	S95T001299_D	1088.	17460.	181.7	5048.	-17.18	-75.44
10	S95T001299_A	6754.	23440.	5517.	10190.	4785.	4981.
11	CCV	5.108	5.002	5.201	5.100	4.894	5.120

#	Sample Name	Ni	P	Pb	S	Sb	Se
12	CCB	.0021	.0076	.0098	.0156	-.0017	.0277
13	S95T001303_L	1610.	18360.	308.5	4683.	71.74	46.04
14	S95T001303_	1770.	19090.	309.3	4691.	-62.69	-156.4
15	S95T001303_D	842.5	19780.	370.4	4795.	-29.62	-55.54
16	S95T001303_A	7043.	24910.	5673.	10100.	4971.	5379.
17	ICSA	-.0140	-.0287	.0563	-.0236	-.0057	.0433
18	ICSAB	.9444	-.0160	1.045	-.0197	-.0102	.0532
19	CCV_1	5.074	5.088	5.101	5.083	4.828	5.056
20	CCB_1	-.0029	.0149	.0034	.0067	.0076	-.0084

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	10 ppm std						
2	ICV	5.071	4.977	-.0284	4.945	5.066	10.09
3	ICB	.0048	-.0002	-.0037	.0000	-.0046	.0057
4	ICSA	.0010	.0021	-.0215	.0020	.0517	.0359
5	ICSAB	.0019	.0020	-.0100	.0017	.0213	-.0093
6	PREPBLKTJA	.1472	.0125	.2213	.0111	.0419	-4.326
7	S95T001299_L	364.4	426.3	-146.6	41.87	-218.8	16360.
8	S95T001299_	268.4	388.5	31.74	29.33	71.35	14700.
9	S95T001299_D	241.6	387.7	43.89	25.85	-6.612	14440.
10	S95T001299_A	4677.	4885.	16.79	4644.	4895.	24200.
11	CCV	5.076	4.979	-.0197	4.930	5.066	10.11
12	CCB	.0059	.0000	-.0025	-.0004	.0229	.0172
13	S95T001303_L	-110.2	352.6	87.52	83.45	-418.9	4684.
14	S95T001303_	103.0	324.3	33.35	72.26	68.74	5334.
15	S95T001303_D	223.0	324.5	85.40	82.46	16.31	5334.
16	S95T001303_A	4934.	4968.	28.74	4872.	5136.	15180.
17	ICSA	.0240	.0028	-.0051	.0015	.0059	.0810
18	ICSAB	.0248	.0028	-.0142	.0017	.0328	.0751
19	CCV_1	5.047	4.947	-.0293	4.895	4.965	10.03
20	CCB_1	-.0075	-.0001	.0046	-.0000	-.0130	-.0097

#	Sample Name	V	Y	Zn	Zr
1	10 ppm std				
2	ICV	5.162	.0130	5.163	5.056
3	ICB	-.0002	.0000	.0000	.0003
4	ICSA	-.0005	.0075	-.0027	-.0016
5	ICSAB	.4682	.0078	.9713	-.0017
6	PREPBLKTJA	.0352	.0063	.0232	-.0048
7	S95T001299_L	79.70	25.99	127.6	38.42
8	S95T001299_	63.33	21.91	90.25	32.96
9	S95T001299_D	60.97	20.89	92.89	33.04
10	S95T001299_A	4955.	30.82	5134.	4727.
11	CCV	5.154	.0137	5.158	5.050
12	CCB	.0005	.0001	.0006	.0002
13	S95T001303_L	-19.91	3.910	122.9	-11.95
14	S95T001303_	24.29	12.90	110.8	19.12
15	S95T001303_D	52.45	20.36	103.3	27.09
16	S95T001303_A	5167.	37.15	5382.	4923.
17	ICSA	.0056	.0100	-.0017	.0024

WHC-SD-WM-DP-140, REV. 1

#	Sample Name	V	Y	Zn	Zr
18	ICSAB	.4832	.0098	1.007	.0023
19	CCV_1	5.091	.0134	5.092	5.003
20	CCB_1	-.0011	-.0003	.0003	-.0004

DK Lato
08-02-95

WHC-SD-WM-DP-140, REV. 1

ICP MACRO

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	1914	1			ICV	AG				5.0812		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
2	1914	1			ICV	AL				5.0264		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
3	1914	1			ICV	AS				5.1967		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
4	1914	1			ICV	B				4.9703		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
5	1914	1			ICV	BA				4.9889		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
6	1914	1			ICV	BE				5.2569		1.0000	08/02/95	12:16	dks	0.005	@ICP-QC
7	1914	1			ICV	BI				5.1248		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
8	1914	1			ICV	CA				5.1950		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
9	1914	1			ICV	CD				5.2185		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
10	1914	1			ICV	CE				5.1180		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
11	1914	1			ICV	CO				5.2459		1.0000	08/02/95	12:16	dks	0.02	@ICP-QC
12	1914	1			ICV	CR				5.2122		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
13	1914	1			ICV	CU				5.0378		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
14	1914	1			ICV	EU				0.0047		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
15	1914	1			ICV	FE				5.1654		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
16	1914	1			ICV	K				5.0018		1.0000	08/02/95	12:16	dks	0.3	@ICP-QC
17	1914	1			ICV	LA				5.0515		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
18	1914	1			ICV	LI				4.9934		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
19	1914	1			ICV	MG				5.0430		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
20	1914	1			ICV	MN				5.0788		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
21	1914	1			ICV	MO				5.1806		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
22	1914	1			ICV	NA				4.9845		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
23	1914	1			ICV	ND				5.2016		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
24	1914	1			ICV	NI				5.1360		1.0000	08/02/95	12:16	dks	0.02	@ICP-QC
25	1914	1			ICV	P				5.1148		1.0000	08/02/95	12:16	dks	0.2	@ICP-QC
26	1914	1			ICV	PB				5.1959		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
27	1914	1			ICV	S				5.1423		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
28	1914	1			ICV	SB				4.9090		1.0000	08/02/95	12:16	dks	0.2	@ICP-QC
29	1914	1			ICV	SE				5.1326		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
30	1914	1			ICV	SI				5.1288		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
31	1914	1			ICV	SM				5.0710		1.0000	08/02/95	12:16	dks	0.1	@ICP-QC
32	1914	1			ICV	SR				4.9774		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
33	1914	1			ICV	TH				-0.0284		1.0000	08/02/95	12:16	dks	0	@ICP-QC
34	1914	1			ICV	TI				4.9449		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
35	1914	1			ICV	TL				5.0656		1.0000	08/02/95	12:16	dks	0.2	@ICP-QC
36	1914	1			ICV	U				10.0878		1.0000	08/02/95	12:16	dks	0.4	@ICP-QC
37	1914	1			ICV	V				5.1622		1.0000	08/02/95	12:16	dks	0.05	@ICP-QC
38	1914	1			ICV	Y				0.0130		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
39	1914	1			ICV	ZN				5.1633		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
40	1914	1			ICV	ZR				5.0556		1.0000	08/02/95	12:16	dks	0.01	@ICP-QC
41	1914	2			ICB	AG				0.0006		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
42	1914	2			ICB	AL				-0.0001		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
43	1914	2			ICB	AS				-0.0140		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
44	1914	2			ICB	B				0.0000		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
45	1914	2			ICB	BA				-0.0000		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
46	1914	2			ICB	BE				-0.0001		1.0000	08/02/95	12:24	dks	0.005	@ICP-QC
47	1914	2			ICB	BI				-0.0165		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
48	1914	2			ICB	CA				0.0003		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
49	1914	2			ICB	CD				0.0007		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
50	1914	2			ICB	CE				0.0009		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
51	1914	2			ICB	CO				0.0020		1.0000	08/02/95	12:24	dks	0.02	@ICP-QC
52	1914	2			ICB	CR				-0.0008		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
53	1914	2			ICB	CU				0.0004		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
54	1914	2			ICB	EU				-0.0000		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
55	1914	2			ICB	FE				-0.0007		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
56	1914	2			ICB	K				0.1465		1.0000	08/02/95	12:24	dks	0.3	@ICP-QC
57	1914	2			ICB	LA				0.0001		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
58	1914	2			ICB	LI				0.0000		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
59	1914	2			ICB	MG				0.0022		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
60	1914	2			ICB	MN				0.0000		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
61	1914	2			ICB	MO				0.0012		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
62	1914	2			ICB	NA				0.0007		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
63	1914	2			ICB	ND				0.0009		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
64	1914	2			ICB	NI				0.0009		1.0000	08/02/95	12:24	dks	0.02	@ICP-QC
65	1914	2			ICB	P				0.0038		1.0000	08/02/95	12:24	dks	0.2	@ICP-QC
66	1914	2			ICB	PB				0.0073		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
67	1914	2			ICB	S				-0.0004		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
68	1914	2			ICB	SB				0.0000		1.0000	08/02/95	12:24	dks	0.2	@ICP-QC
69	1914	2			ICB	SE				-0.0151		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
70	1914	2			ICB	SI				0.0020		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
71	1914	2			ICB	SM				0.0048		1.0000	08/02/95	12:24	dks	0.1	@ICP-QC
72	1914	2			ICB	SR				-0.0002		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
73	1914	2			ICB	TH				-0.0037		1.0000	08/02/95	12:24	dks	0	@ICP-QC
74	1914	2			ICB	TI				0.0000		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
75	1914	2			ICB	TL				-0.0046		1.0000	08/02/95	12:24	dks	0.2	@ICP-QC
76	1914	2			ICB	U				0.0057		1.0000	08/02/95	12:24	dks	0.4	@ICP-QC
77	1914	2			ICB	V				-0.0002		1.0000	08/02/95	12:24	dks	0.05	@ICP-QC
78	1914	2			ICB	Y				0.0000		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
79	1914	2			ICB	ZN				0.0000		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
80	1914	2			ICB	ZR				0.0003		1.0000	08/02/95	12:24	dks	0.01	@ICP-QC
81	1914	3			ICSA	AG				0.0006		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
82	1914	3			ICSA	AL				241.8636		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
83	1914	3			ICSA	AS				-0.0609		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
84	1914	3			ICSA	B				-0.0067		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
85	1914	3			ICSA	BA				0.0018		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
86	1914	3			ICSA	BE				0.0001		1.0000	08/02/95	12:28	dks	0.005	@ICP-QC
87	1914	3			ICSA	BI				0.0077		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
88	1914	3			ICSA	CA				238.7570		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
89	1914	3			ICSA	CD				0.0025		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
90	1914	3			ICSA	CE				0.0073		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
91	1914	3			ICSA	CO				0.0018		1.0000	08/02/95	12:28	dks	0.02	@ICP-QC
92	1914	3			ICSA	CR				0.0064		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
93	1914	3			ICSA	CU				-0.0093		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
94	1914	3			ICSA	EU				-0.0212		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
95	1914	3			ICSA	FE				91.3855		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
96	1914	3			ICSA	K				0.1377		1.0000	08/02/95	12:28	dks	0.3	@ICP-QC
97	1914	3			ICSA	LA				-0.0040		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
98	1914	3			ICSA	LI				0.0024		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
99	1914	3			ICSA	MG				245.3188		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
100	1914	3			ICSA	MN				-0.0059		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
101	1914	3			ICSA	MO				-0.0081		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
102	1914	3			ICSA	NA				188.1250		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
103	1914	3			ICSA	ND				0.0043		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
104	1914	3			ICSA	NI				-0.0231		1.0000	08/02/95	12:28	dks	0.02	@ICP-QC
105	1914	3			ICSA	P				-0.0140		1.0000	08/02/95	12:28	dks	0.2	@ICP-QC
106	1914	3			ICSA	PB				0.0308		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
107	1914	3			ICSA	S				-0.0246		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
108	1914	3			ICSA	SB				0.0032		1.0000	08/02/95	12:28	dks	0.2	@ICP-QC
109	1914	3			ICSA	SE				-0.0093		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
110	1914	3			ICSA	SI				0.0098		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
111	1914	3			ICSA	SM				0.0010		1.0000	08/02/95	12:28	dks	0.1	@ICP-QC
112	1914	3			ICSA	SR				0.0021		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
113	1914	3			ICSA	TH				-0.0215		1.0000	08/02/95	12:28	dks	0	@ICP-QC
114	1914	3			ICSA	TI				0.0020		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
115	1914	3			ICSA	TL				0.0517		1.0000	08/02/95	12:28	dks	0.2	@ICP-QC
116	1914	3			ICSA	U				0.0359		1.0000	08/02/95	12:28	dks	0.4	@ICP-QC
117	1914	3			ICSA	V				-0.0005		1.0000	08/02/95	12:28	dks	0.05	@ICP-QC
118	1914	3			ICSA	Y				0.0075		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
119	1914	3			ICSA	ZN				-0.0027		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
120	1914	3			ICSA	ZR				-0.0016		1.0000	08/02/95	12:28	dks	0.01	@ICP-QC
121	1914	4			ICSAB	AG				0.9631		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
122	1914	4			ICSAB	AL				242.4651		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC

225

WHC-SD-WM-DP-140, REV. 1

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
123	1914	4			ICSAB	AS				-0.0398		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
124	1914	4			ICSAB	B				-0.0063		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
125	1914	4			ICSAB	BA				0.4595		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
126	1914	4			ICSAB	BE				0.4788		1.0000	08/02/95	12:32	dks	0.005	@ICP-QC
127	1914	4			ICSAB	BI				-0.0393		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
128	1914	4			ICSAB	CA				243.3082		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
129	1914	4			ICSAB	CD				0.9540		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
130	1914	4			ICSAB	CE				0.0129		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
131	1914	4			ICSAB	CO				0.4695		1.0000	08/02/95	12:32	dks	0.02	@ICP-QC
132	1914	4			ICSAB	CR				0.4823		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
133	1914	4			ICSAB	CU				0.4695		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
134	1914	4			ICSAB	EU				-0.0254		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
135	1914	4			ICSAB	FE				92.2661		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
136	1914	4			ICSAB	K				0.2092		1.0000	08/02/95	12:32	dks	0.3	@ICP-QC
137	1914	4			ICSAB	LA				-0.0030		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
138	1914	4			ICSAB	LI				0.9537		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
139	1914	4			ICSAB	MG				246.1335		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
140	1914	4			ICSAB	MN				0.4500		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
141	1914	4			ICSAB	MO				-0.0087		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
142	1914	4			ICSAB	NA				187.9718		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
143	1914	4			ICSAB	ND				0.0029		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
144	1914	4			ICSAB	NI				0.9046		1.0000	08/02/95	12:32	dks	0.02	@ICP-QC
145	1914	4			ICSAB	P				-0.0036		1.0000	08/02/95	12:32	dks	0.2	@ICP-QC
146	1914	4			ICSAB	PB				1.0003		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
147	1914	4			ICSAB	S				-0.0164		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
148	1914	4			ICSAB	SB				-0.0045		1.0000	08/02/95	12:32	dks	0.2	@ICP-QC
149	1914	4			ICSAB	SE				-0.0074		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
150	1914	4			ICSAB	SI				0.0146		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
151	1914	4			ICSAB	SM				0.0019		1.0000	08/02/95	12:32	dks	0.1	@ICP-QC
152	1914	4			ICSAB	SR				0.0020		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
153	1914	4			ICSAB	TH				-0.0100		1.0000	08/02/95	12:32	dks	0	@ICP-QC
154	1914	4			ICSAB	TI				0.0017		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
155	1914	4			ICSAB	TL				0.0213		1.0000	08/02/95	12:32	dks	0.2	@ICP-QC
156	1914	4			ICSAB	U				-0.0093		1.0000	08/02/95	12:32	dks	0.4	@ICP-QC
157	1914	4			ICSAB	V				0.4682		1.0000	08/02/95	12:32	dks	0.05	@ICP-QC
158	1914	4			ICSAB	Y				0.0078		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
159	1914	4			ICSAB	ZN				0.9713		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
160	1914	4			ICSAB	ZR				-0.0017		1.0000	08/02/95	12:32	dks	0.01	@ICP-QC
161	1914	5			PREPBLKTJA	AG-F-01				0.0088		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
162	1914	5			PREPBLKTJA	AL-F-01				0.0572		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
163	1914	5			PREPBLKTJA	AS-F-01				-0.0737		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
164	1914	5			PREPBLKTJA	B-F-01				0.0089		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
165	1914	5			PREPBLKTJA	BA-F-01				0.0180		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
166	1914	5			PREPBLKTJA	BE-F-01				0.0003		10.0000	08/02/95	12:37	dks	0.005	@ICP-F03
167	1914	5			PREPBLKTJA	BI-F-01				0.0298		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
168	1914	5			PREPBLKTJA	CA-F-01				0.2355		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
169	1914	5			PREPBLKTJA	CD-F-01				0.0149		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
170	1914	5			PREPBLKTJA	CE-F-01				-0.0054		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
171	1914	5			PREPBLKTJA	CO-F-01				0.0250		10.0000	08/02/95	12:37	dks	0.02	@ICP-F03
172	1914	5			PREPBLKTJA	CR-F-01				-0.0006		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
173	1914	5			PREPBLKTJA	CU-F-01				0.0425		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
174	1914	5			PREPBLKTJA	EU-F-01				0.0191		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
175	1914	5			PREPBLKTJA	FE-F-01				0.0854		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
176	1914	5			PREPBLKTJA	K-F-01				17445.4316		10.0000	08/02/95	12:37	dks	0.3	@ICP-F03
177	1914	5			PREPBLKTJA	LA-F-01				-0.0030		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
178	1914	5			PREPBLKTJA	LI-F-01				0.0088		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
179	1914	5			PREPBLKTJA	MG-F-01				0.2079		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
180	1914	5			PREPBLKTJA	MN-F-01				0.0854		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
181	1914	5			PREPBLKTJA	MO-F-01				0.0133		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
182	1914	5			PREPBLKTJA	NA-F-01				5.2347		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
183	1914	5			PREPBLKTJA	ND-F-01				0.0082		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
184	1914	5			PREPBLKTJA	NI-F-01				2.8802		10.0000	08/02/95	12:37	dks	0.02	@ICP-F03
185	1914	5			PREPBLKTJA	P-F-01				0.2491		10.0000	08/02/95	12:37	dks	0.2	@ICP-F03
186	1914	5			PREPBLKTJA	PB-F-01				-0.0907		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
187	1914	5			PREPBLKTJA	S-F-01				0.0501		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
188	1914	5			PREPBLKTJA	SB-F-01				0.0309		10.0000	08/02/95	12:37	dks	0.2	@ICP-F03
189	1914	5			PREPBLKTJA	SE-F-01				0.1328		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
190	1914	5			PREPBLKTJA	SI-F-01				0.1719		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
191	1914	5			PREPBLKTJA	SM-F-01				0.1472		10.0000	08/02/95	12:37	dks	0.1	@ICP-F03
192	1914	5			PREPBLKTJA	SR-F-01				0.0125		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
193	1914	5			PREPBLKTJA	TH-F-01				0.2213		10.0000	08/02/95	12:37	dks	0	@ICP-F03
194	1914	5			PREPBLKTJA	TI-F-01				0.0111		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
195	1914	5			PREPBLKTJA	TL-F-01				0.0419		10.0000	08/02/95	12:37	dks	0.2	@ICP-F03
196	1914	5			PREPBLKTJA	U-F-01				-4.3264		10.0000	08/02/95	12:37	dks	0.4	@ICP-F03
197	1914	5			PREPBLKTJA	V-F-01				0.0352		10.0000	08/02/95	12:37	dks	0.05	@ICP-F03
198	1914	5			PREPBLKTJA	Y-F-01				0.0063		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
199	1914	5			PREPBLKTJA	ZN-F-01				0.0232		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
200	1914	5			PREPBLKTJA	ZR-F-01				-0.0048		10.0000	08/02/95	12:37	dks	0.01	@ICP-F03
201	1914	6	S95T001299			LI-F-01			<	47.3660		4736.6000	08/02/95	12:45	dks	0.01	@ICP-F03
202	1914	7	S95T001299		DUP	LI-F-01		<47.3660		<46.7460		4674.6000	08/02/95	12:49	dks	0.01	@ICP-F03
203	1914	8	S95T001299_A		SPK	LI-F-01		4736.6		4253.7515		4736.6000	08/02/95	12:53	dks	0.01	@ICP-F03
204	1914	9			CCV	AG				5.0911		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
205	1914	9			CCV	AL				5.0169		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
206	1914	9			CCV	AS				5.2235		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
207	1914	9			CCV	B				4.9505		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
208	1914	9			CCV	BA				4.9871		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
209	1914	9			CCV	BE				5.2298		1.0000	08/02/95	13:17	dks	0.005	@ICP-QC
210	1914	9			CCV	BI				5.0930		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
211	1914	9			CCV	CA				5.1802		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
212	1914	9			CCV	CD				5.2088		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
213	1914	9			CCV	CE				5.1128		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
214	1914	9			CCV	CO				5.2157		1.0000	08/02/95	13:17	dks	0.02	@ICP-QC
215	1914	9			CCV	CR				5.1986		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
216	1914	9			CCV	CU				5.0459		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
217	1914	9			CCV	EU				0.0063		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
218	1914	9			CCV	FE				5.1510		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
219	1914	9			CCV	K				4.8688		1.0000	08/02/95	13:17	dks	0.3	@ICP-QC
220	1914	9			CCV	LA				5.0567		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
221	1914	9			CCV	LI				4.9735		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
222	1914	9			CCV	MG				5.0376		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
223	1914	9			CCV	MN				5.0597		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
224	1914	9			CCV	MO				5.1506		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
225	1914	9			CCV	NA				4.9745		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
226	1914	9			CCV	ND				5.2074		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
227	1914	9			CCV	NI				5.1078		1.0000	08/02/95	13:17	dks	0.02	@ICP-QC
228	1914	9			CCV	P				5.0023		1.0000	08/02/95	13:17	dks	0.2	@ICP-QC
229	1914	9			CCV	PB				5.2009		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
230	1914	9			CCV	S				5.1001		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
231	1914	9			CCV	SB				4.8935		1.0000	08/02/95	13:17	dks	0.2	@ICP-QC
232	1914	9			CCV	SE				5.1197		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
233	1914	9			CCV	SI				5.1465		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
234	1914	9			CCV	SM				5.0755		1.0000	08/02/95	13:17	dks	0.1	@ICP-QC
235	1914	9			CCV	SR				4.9787		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
236	1914	9			CCV	TH				-0.0197		1.0000	08/02/95	13:17	dks	0	@ICP-QC
237	1914	9			CCV	TI				4.9296		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
238	1914	9			CCV	TL				5.0659		1.0000	08/02/95	13:17	dks	0.2	@ICP-QC
239	1914	9			CCV	U				10.1077		1.0000	08/02/95	13:17	dks	0.4	@ICP-QC
240	1914	9			CCV	V				5.1536		1.0000	08/02/95	13:17	dks	0.05	@ICP-QC
241	1914	9			CCV	Y				0.0137		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
242	1914	9			CCV	ZN				5.1579		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
243	1914	9			CCV	ZR				5.0498		1.0000	08/02/95	13:17	dks	0.01	@ICP-QC
244	1914	10			CCB	AG				0.0013		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC

226

WHC-SD-WM-DP-140, REV. C

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
245	1914	10			CCB	AL				0.0055		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
246	1914	10			CCB	AS				0.0012		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
247	1914	10			CCB	B				-0.0061		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
248	1914	10			CCB	BA				-0.0000		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
249	1914	10			CCB	BE				0.0001		1.0000	08/02/95	13:21	dks	0.005	@ICP-QC
250	1914	10			CCB	BI				0.0060		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
251	1914	10			CCB	CA				0.0014		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
252	1914	10			CCB	CD				0.0015		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
253	1914	10			CCB	CE				-0.0041		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
254	1914	10			CCB	CO				-0.0014		1.0000	08/02/95	13:21	dks	0.02	@ICP-QC
255	1914	10			CCB	CR				0.0008		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
256	1914	10			CCB	CU				-0.0004		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
257	1914	10			CCB	EU				0.0004		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
258	1914	10			CCB	FE				-0.0009		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
259	1914	10			CCB	K				0.0689		1.0000	08/02/95	13:21	dks	0.3	@ICP-QC
260	1914	10			CCB	LA				0.0000		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
261	1914	10			CCB	LI				0.0008		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
262	1914	10			CCB	MG				-0.0043		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
263	1914	10			CCB	MN				0.0002		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
264	1914	10			CCB	MO				-0.0006		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
265	1914	10			CCB	NA				0.0018		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
266	1914	10			CCB	ND				-0.0015		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
267	1914	10			CCB	NI				0.0021		1.0000	08/02/95	13:21	dks	0.02	@ICP-QC
268	1914	10			CCB	P				0.0076		1.0000	08/02/95	13:21	dks	0.2	@ICP-QC
269	1914	10			CCB	PB				0.0098		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
270	1914	10			CCB	S				0.0156		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
271	1914	10			CCB	SB				-0.0017		1.0000	08/02/95	13:21	dks	0.2	@ICP-QC
272	1914	10			CCB	SE				0.0277		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
273	1914	10			CCB	SI				0.0070		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
274	1914	10			CCB	SM				0.0059		1.0000	08/02/95	13:21	dks	0.1	@ICP-QC
275	1914	10			CCB	SR				0.0000		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
276	1914	10			CCB	TH				-0.0025		1.0000	08/02/95	13:21	dks	0	@ICP-QC
277	1914	10			CCB	TI				-0.0004		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
278	1914	10			CCB	TL				0.0229		1.0000	08/02/95	13:21	dks	0.2	@ICP-QC
279	1914	10			CCB	U				0.0172		1.0000	08/02/95	13:21	dks	0.4	@ICP-QC
280	1914	10			CCB	V				0.0005		1.0000	08/02/95	13:21	dks	0.05	@ICP-QC
281	1914	10			CCB	Y				0.0001		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
282	1914	10			CCB	ZN				0.0006		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
283	1914	10			CCB	ZR				0.0002		1.0000	08/02/95	13:21	dks	0.01	@ICP-QC
284	1914	11	S95T001303			LI-F-01			<	49.8700		4987.0000	08/02/95	13:28	dks	0.01	@ICP-F03
285	1914	12	S95T001303		DUP	LI-F-01		<49.8700		<48.9910		4899.1000	08/02/95	13:32	dks	0.01	@ICP-F03
286	1914	13	S95T001303_A		SPK	LI-F-01		4987.0		4429.2402		4987.0000	08/02/95	13:36	dks	0.01	@ICP-F03
287	1914	14			ICSA	AG				0.0008		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
288	1914	14			ICSA	AL				245.8929		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
289	1914	14			ICSA	AS				-0.0327		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
290	1914	14			ICSA	B				-0.0082		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
291	1914	14			ICSA	BA				0.0020		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
292	1914	14			ICSA	BE				0.0002		1.0000	08/02/95	13:53	dks	0.005	@ICP-QC
293	1914	14			ICSA	BI				-0.0393		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
294	1914	14			ICSA	CA				256.2669		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
295	1914	14			ICSA	CD				0.0002		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
296	1914	14			ICSA	CE				0.0235		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
297	1914	14			ICSA	CO				-0.0008		1.0000	08/02/95	13:53	dks	0.02	@ICP-QC
298	1914	14			ICSA	CR				0.0070		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
299	1914	14			ICSA	CU				-0.0119		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
300	1914	14			ICSA	EU				-0.0278		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
301	1914	14			ICSA	FE				98.5560		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
302	1914	14			ICSA	K				0.1725		1.0000	08/02/95	13:53	dks	0.3	@ICP-QC
303	1914	14			ICSA	LA				-0.0034		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
304	1914	14			ICSA	LI				0.0063		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
305	1914	14			ICSA	MG				254.2418		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
306	1914	14			ICSA	MN				-0.0055		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
307	1914	14			ICSA	MO				-0.0042		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
308	1914	14			ICSA	NA				188.0877		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
309	1914	14			ICSA	ND				0.0020		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
310	1914	14			ICSA	NI				-0.0140		1.0000	08/02/95	13:53	dks	0.02	@ICP-QC
311	1914	14			ICSA	P				-0.0287		1.0000	08/02/95	13:53	dks	0.2	@ICP-QC
312	1914	14			ICSA	PB				0.0563		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
313	1914	14			ICSA	S				-0.0236		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
314	1914	14			ICSA	SB				-0.0057		1.0000	08/02/95	13:53	dks	0.2	@ICP-QC
315	1914	14			ICSA	SE				0.0433		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
316	1914	14			ICSA	SI				0.0196		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
317	1914	14			ICSA	SM				0.0240		1.0000	08/02/95	13:53	dks	0.1	@ICP-QC
318	1914	14			ICSA	SR				0.0028		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
319	1914	14			ICSA	TH				-0.0051		1.0000	08/02/95	13:53	dks	0	@ICP-QC
320	1914	14			ICSA	TI				0.0015		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
321	1914	14			ICSA	TL				0.0059		1.0000	08/02/95	13:53	dks	0.2	@ICP-QC
322	1914	14			ICSA	U				0.0810		1.0000	08/02/95	13:53	dks	0.4	@ICP-QC
323	1914	14			ICSA	V				0.0056		1.0000	08/02/95	13:53	dks	0.05	@ICP-QC
324	1914	14			ICSA	Y				0.0100		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
325	1914	14			ICSA	ZN				-0.0017		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
326	1914	14			ICSA	ZR				0.0024		1.0000	08/02/95	13:53	dks	0.01	@ICP-QC
327	1914	15			ICSAB	AG				0.9764		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
328	1914	15			ICSAB	AL				241.9647		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
329	1914	15			ICSAB	AS				-0.0300		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
330	1914	15			ICSAB	B				-0.0074		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
331	1914	15			ICSAB	BA				0.4545		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
332	1914	15			ICSAB	BE				0.4906		1.0000	08/02/95	13:56	dks	0.005	@ICP-QC
333	1914	15			ICSAB	BI				-0.0164		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
334	1914	15			ICSAB	CA				252.4046		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
335	1914	15			ICSAB	CD				1.0002		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
336	1914	15			ICSAB	CE				0.0098		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
337	1914	15			ICSAB	CO				0.4884		1.0000	08/02/95	13:56	dks	0.02	@ICP-QC
338	1914	15			ICSAB	CR				0.4992		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
339	1914	15			ICSAB	CU				0.4620		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
340	1914	15			ICSAB	EU				-0.0236		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
341	1914	15			ICSAB	FE				94.7804		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
342	1914	15			ICSAB	K				0.2320		1.0000	08/02/95	13:56	dks	0.3	@ICP-QC
343	1914	15			ICSAB	LA				-0.0036		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
344	1914	15			ICSAB	LI				0.9290		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
345	1914	15			ICSAB	MG				249.9440		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
346	1914	15			ICSAB	MN				0.4630		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
347	1914	15			ICSAB	MO				-0.0051		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
348	1914	15			ICSAB	NA				185.3794		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
349	1914	15			ICSAB	ND				0.0026		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
350	1914	15			ICSAB	NI				0.9444		1.0000	08/02/95	13:56	dks	0.02	@ICP-QC
351	1914	15			ICSAB	P				-0.0160		1.0000	08/02/95	13:56	dks	0.2	@ICP-QC
352	1914	15			ICSAB	PB				1.0448		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
353	1914	15			ICSAB	S				-0.0197		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
354	1914	15			ICSAB	SB				-0.0102		1.0000	08/02/95	13:56	dks	0.2	@ICP-QC
355	1914	15			ICSAB	SE				0.0532		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
356	1914	15			ICSAB	SI				0.0217		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
357	1914	15			ICSAB	SM				0.0248		1.0000	08/02/95	13:56	dks	0.1	@ICP-QC
358	1914	15			ICSAB	SR				0.0028		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
359	1914	15			ICSAB	TH				-0.0142		1.0000	08/02/95	13:56	dks	0	@ICP-QC
360	1914	15			ICSAB	TI				0.0017		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
361	1914	15			ICSAB	TL				0.0328		1.0000	08/02/95	13:56	dks	0.2	@ICP-QC
362	1914	15			ICSAB	U				0.0751		1.0000	08/02/95	13:56	dks	0.4	@ICP-QC
363	1914	15			ICSAB	V				0.4832		1.0000	08/02/95	13:56	dks	0.05	@ICP-QC
364	1914	15			ICSAB	Y				0.0098		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
365	1914	15			ICSAB	ZN				1.0072		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC
366	1914	15			ICSAB	ZR				0.0023		1.0000	08/02/95	13:56	dks	0.01	@ICP-QC

227

WHC-SD-WM-DP- 140 , REV. 1

OUTPUT	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
367	1914	16			CCV	AG				5.0491		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
368	1914	16			CCV	AL				5.0081		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
369	1914	16			CCV	AS				5.1145		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
370	1914	16			CCV	B				4.9287		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
371	1914	16			CCV	BA				4.9568		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
372	1914	16			CCV	BE				5.1638		1.0000	08/02/95	14:18	dks	0.005	@ICP-QC
373	1914	16			CCV	BI				5.0971		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
374	1914	16			CCV	CA				5.0925		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
375	1914	16			CCV	CD				5.1151		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
376	1914	16			CCV	CE				5.0890		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
377	1914	16			CCV	CO				5.1552		1.0000	08/02/95	14:18	dks	0.02	@ICP-QC
378	1914	16			CCV	CR				5.1294		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
379	1914	16			CCV	CU				5.0240		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
380	1914	16			CCV	EU				0.0054		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
381	1914	16			CCV	FE				5.0944		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
382	1914	16			CCV	K				5.1629		1.0000	08/02/95	14:18	dks	0.3	@ICP-QC
383	1914	16			CCV	LA				5.0243		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
384	1914	16			CCV	LI				5.0245		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
385	1914	16			CCV	MG				5.0142		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
386	1914	16			CCV	MN				4.9905		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
387	1914	16			CCV	MO				5.0878		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
388	1914	16			CCV	NA				4.9755		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
389	1914	16			CCV	ND				5.1780		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
390	1914	16			CCV	NI				5.0737		1.0000	08/02/95	14:18	dks	0.02	@ICP-QC
391	1914	16			CCV	P				5.0880		1.0000	08/02/95	14:18	dks	0.2	@ICP-QC
392	1914	16			CCV	PB				5.1015		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
393	1914	16			CCV	S				5.0829		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
394	1914	16			CCV	SB				4.8279		1.0000	08/02/95	14:18	dks	0.2	@ICP-QC
395	1914	16			CCV	SE				5.0559		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
396	1914	16			CCV	SI				5.1112		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
397	1914	16			CCV	SM				5.0469		1.0000	08/02/95	14:18	dks	0.1	@ICP-QC
398	1914	16			CCV	SR				4.9470		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
399	1914	16			CCV	TH				-0.0293		1.0000	08/02/95	14:18	dks	0	@ICP-QC
400	1914	16			CCV	TI				4.8950		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
401	1914	16			CCV	TL				4.9647		1.0000	08/02/95	14:18	dks	0.2	@ICP-QC
402	1914	16			CCV	U				10.0281		1.0000	08/02/95	14:18	dks	0.4	@ICP-QC
403	1914	16			CCV	V				5.0910		1.0000	08/02/95	14:18	dks	0.05	@ICP-QC
404	1914	16			CCV	Y				0.0134		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
405	1914	16			CCV	ZN				5.0919		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
406	1914	16			CCV	ZR				5.0030		1.0000	08/02/95	14:18	dks	0.01	@ICP-QC
407	1914	17			CCB	AG				0.0009		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
408	1914	17			CCB	AL				0.0073		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
409	1914	17			CCB	AS				-0.0012		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
410	1914	17			CCB	B				0.0019		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
411	1914	17			CCB	BA				0.0000		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
412	1914	17			CCB	BE				-0.0000		1.0000	08/02/95	14:24	dks	0.005	@ICP-QC
413	1914	17			CCB	BI				-0.0215		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
414	1914	17			CCB	CA				0.0027		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
415	1914	17			CCB	CD				-0.0001		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
416	1914	17			CCB	CE				0.0053		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
417	1914	17			CCB	CO				-0.0007		1.0000	08/02/95	14:24	dks	0.02	@ICP-QC
418	1914	17			CCB	CR				0.0005		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
419	1914	17			CCB	CU				0.0013		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
420	1914	17			CCB	EU				-0.0010		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
421	1914	17			CCB	FE				0.0003		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
422	1914	17			CCB	K				0.1623		1.0000	08/02/95	14:24	dks	0.3	@ICP-QC
423	1914	17			CCB	LA				0.0014		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
424	1914	17			CCB	LI				-0.0013		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
425	1914	17			CCB	MG				-0.0009		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
426	1914	17			CCB	MN				-0.0002		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
427	1914	17			CCB	MO				0.0001		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
428	1914	17			CCB	NA				-0.0046		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
429	1914	17			CCB	ND				0.0027		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
430	1914	17			CCB	NI				-0.0029		1.0000	08/02/95	14:24	dks	0.02	@ICP-QC
431	1914	17			CCB	P				0.0149		1.0000	08/02/95	14:24	dks	0.2	@ICP-QC
432	1914	17			CCB	PB				0.0034		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
433	1914	17			CCB	S				0.0067		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
434	1914	17			CCB	SB				0.0076		1.0000	08/02/95	14:24	dks	0.2	@ICP-QC
435	1914	17			CCB	SE				-0.0084		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
436	1914	17			CCB	SI				-0.0015		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
437	1914	17			CCB	SM				-0.0075		1.0000	08/02/95	14:24	dks	0.1	@ICP-QC
438	1914	17			CCB	SR				-0.0001		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
439	1914	17			CCB	TH				0.0046		1.0000	08/02/95	14:24	dks	0	@ICP-QC
440	1914	17			CCB	TI				-0.0000		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
441	1914	17			CCB	TL				-0.0130		1.0000	08/02/95	14:24	dks	0.2	@ICP-QC
442	1914	17			CCB	U				-0.0097		1.0000	08/02/95	14:24	dks	0.4	@ICP-QC
443	1914	17			CCB	V				-0.0011		1.0000	08/02/95	14:24	dks	0.05	@ICP-QC
444	1914	17			CCB	Y				-0.0003		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
445	1914	17			CCB	ZN				0.0003		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC
446	1914	17			CCB	ZR				-0.0004		1.0000	08/02/95	14:24	dks	0.01	@ICP-QC

WHC-SD-WM-DP-~~110~~, REV. 1

SP 08/23/95

FILE # 950F07A

LABCORE Data Entry Template for Worklist# 1915

Analyst: B. GOECKE **Instrument:** ICP01 _____ **Book#** 46B48A

Method: LA-505-151 Rev/Mod D-2

Worklist Comment: ICP B-106 FUSION (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	PREPBLKARL				@ICP-F03	SOLID		
6	SAMPLE	S95T001307	0	F	@ICP-F03	SOLID	95000096	B-106
		Analytes Requested: LI-F-01						
7	DUP	S95T001307	0	F	@ICP-F03	SOLID		
8	SPK	S95T001307	0	F	@ICP-F03	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T001311	0	F	@ICP-F03	SOLID	95000096	B-106
		Analytes Requested: LI-F-01						
12	DUP	S95T001311	0	F	@ICP-F03	SOLID		
13	SPK	S95T001311	0	F	@ICP-F03	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Data Entry Template for Worklist# 1915

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 1915

Analyst Signature: [signature] Date: 8-7-95

Validation By
Analyst Signature: [signature] Date: 8/8/95

		D.F.
PREPBLK ARL	1mL - 5mL	10
SS5T001307-L	.5202g in 250mL - 1mL - 5mL - 1mL - 4mL	12500
SS5T001307	.5202g in 250mL - 1mL - 5mL	2500
SS5T001307-D	.5052g in 250mL - 1mL - 5mL	2500
SS5T001307-A	.5202g in 250mL - 1mL - 2mL - 7mL	2500
SS5T001311-L	.5671 in 250mL - 1mL - 5mL - 1mL - 4mL	12500
SS5T001311	.5671 in 250mL - 1mL - 5mL	2500
SS5T001311-D	.5707 in 250mL - 1mL - 5mL	2500
SS5T001311-A	.5671 in 250mL - 1mL - 2mL - 7mL	2500

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Identity 1: ICV Identity 2: Quality Control 12:34 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4.937	4.974	4.978	4.924	4.878	5.115	4.896	4.924
S.D.	0.012	0.005	0.020	0.008	0.005	0.016	0.006	0.057
% R.S.D.	0.244	0.095	0.395	0.165	0.101	0.316	0.119	1.151

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.051	5.040	5.076	5.157	5.119	5.104	5.358	9.170
S.D.	0.012	0.011	0.016	0.017	0.005	0.020	0.022	0.021
% R.S.D.	0.245	0.226	0.314	0.335	0.088	0.386	0.407	0.232

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	5.037	5.057	4.976	5.091	5.035	5.060	4.958	4.890
S.D.	0.014	0.008	0.002	0.079	0.018	0.016	0.004	0.063
% R.S.D.	0.279	0.159	0.042	1.543	0.351	0.315	0.074	1.281

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	5.057	4.947	4.936	5.103	4.888	5.118	5.094	5.078
S.D.	0.015	0.045	0.008	0.017	0.009	0.014	0.003	0.072
% R.S.D.	0.304	0.904	0.159	0.328	0.179	0.265	0.065	1.415

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.083	4.770	5.149	5.218	4.863
S.D.	0.018	0.035	0.013	0.011	0.028
% R.S.D.	0.359	0.740	0.252	0.208	0.581

DJ Gould 8-7-95
File # 950807A
595TW1307
595TW1311
B-106

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 231 TO 249.

Identity 1: ICB Identity 2: Quality Control 12:38 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.000	-0.000	0.007	0.004	0.005	-0.002	0.000	-0.000
S.D.	0.001	0.000	0.006	0.001	0.005	0.002	0.001	0.000
% R.S.D.	471.870	41582.906	80.113	22.632	95.568	86.733	408.630	570212.170

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.001	0.001	0.005	0.000	0.000	0.000	-0.000	0.022
S.D.	0.000	0.001	0.001	0.003	0.000	0.001	0.008	0.051
% R.S.D.	35.491	87.282	25.225	1586.927	9.623	234.977	1821.052	234.165

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.031	0.001	0.000	-0.011	-0.002	0.000	0.002	-0.003
S.D.	0.010	0.011	0.000	0.008	0.001	0.000	0.001	0.004
% R.S.D.	32.808	1023.949	159.940	75.132	41.275	0.758	26.931	119.994

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.011	0.001	0.010	0.001	-0.002	0.005	0.033
S.D.	0.000	0.001	0.001	0.003	0.000	0.000	0.001	0.026
% R.S.D.	3.765	12.893	80.713	25.415	53.672	9.077	22.900	77.690

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.000	0.010	0.001	-0.000	-0.011
S.D.	0.000	0.014	0.001	0.000	0.032
% R.S.D.	3.060	141.586	66.873	60.313	307.197

Identity 1: ICSA Identity 2: Quality Control 12:41 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.003	0.000	0.023	0.071	196.132	0.006	-0.013	0.000
S.D.	0.000	0.000	0.005	0.001	0.698	0.002	0.000	0.000
% R.S.D.	6.358	14.962	20.145	0.921	0.356	24.718	3.714	63.788

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	-0.000	-0.047	0.009	146.721	19.061	-0.011	0.006	-0.027
S.D.	0.000	0.000	0.001	0.547	0.076	0.002	0.002	0.018
% R.S.D.	63.161	0.207	15.511	0.373	0.397	13.538	27.151	67.771

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.003	-0.019	0.003	0.001	0.162	18.922	-0.005	187.039
S.D.	0.004	0.002	0.000	0.009	0.004	0.045	0.003	0.329
% R.S.D.	124.589	10.404	3.402	667.418	2.736	0.238	55.760	0.176

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.004	-0.003	0.024	-0.000	0.012	-0.046	-0.046
S.D.	0.001	0.006	0.000	0.013	0.000	0.001	0.000	0.000
% R.S.D.	176.383	157.287	7.690	55.460	473.133	7.129	0.320	0.000

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.010	-0.014	-0.003	0.002	-0.049
S.D.	0.000	0.023	0.000	0.000	0.006
% R.S.D.	3.369	159.570	16.212	10.500	11.403

Identity 1: ICSAB Identity 2: Quality Control 12:43 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.004	0.000	-0.000	0.060	197.499	0.509	0.484	0.932
S.D.	0.001	0.000	0.010	0.001	0.749	0.007	0.003	0.006
% R.S.D.	17.948	452.227	9708.755	1.005	0.379	1.380	0.525	0.674

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	1.013	0.948	0.004	151.290	18.790	0.504	0.022	-0.010
S.D.	0.000	0.006	0.000	0.216	0.070	0.002	0.007	0.042
% R.S.D.	0.047	0.654	0.551	0.143	0.370	0.300	31.170	406.223

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.008	-0.019	0.508	0.020	0.175	18.961	0.002	186.573
S.D.	0.006	0.009	0.002	0.006	0.006	0.033	0.003	1.258
% R.S.D.	83.281	48.536	0.447	27.331	3.267	0.172	207.220	0.674

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.107	1.496	1.065	-0.001	1.035	-0.047	0.004
S.D.	0.001	0.013	0.003	0.017	0.001	0.001	0.002	0.009
% R.S.D.	110.221	12.494	0.167	1.559	111.660	0.143	3.322	242.487

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.522	0.017	0.510	0.511	-0.055
S.D.	0.001	0.008	0.001	0.002	0.028
% R.S.D.	0.180	44.001	0.139	0.368	50.792

Identity 1: PREPBLK Identity 2: Quality Control 12:48 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	0.001	0.001	0.014	0.014	0.013	0.003	0.002	-0.000
S.D.	0.001	0.000	0.005	0.004	0.003	0.002	0.000	0.000
% R.S.D.	83.920	5.061	37.735	25.768	25.063	58.550	12.733	86.410

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.003	0.302	0.003	0.014	0.002	-0.001	0.000	0.044
S.D.	0.000	0.002	0.002	0.001	0.000	0.001	0.003	0.019
% R.S.D.	13.807	0.548	86.211	8.376	6.577	98.650	806.803	44.123

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.025	0.014	0.002	-0.003	0.012	0.002	0.002	0.472
S.D.	0.001	0.008	0.000	0.007	0.004	0.000	0.002	0.002
% R.S.D.	3.894	57.219	3.981	280.367	33.497	12.340	90.736	0.486

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.035	0.002	0.019	0.001	0.002	-0.000	1580.231
S.D.	0.001	0.009	0.001	0.004	0.001	0.001	0.001	3.760
% R.S.D.	2170.253	26.110	35.414	23.526	81.281	51.568	3939.950	0.238

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.002	0.012	0.001	-0.000	0.021
S.D.	0.000	0.021	0.001	0.000	0.003
% R.S.D.	20.362	180.005	66.144	76.787	15.093

Identity 1: S95T001307_L Identity 2: .5202gin250-1-9-1-4 12:53 PM August 7, 1995
Task name : TWC93
Sample Weight : 0.5202 Solution Volume : 12500.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	161.300	158.515	18630.111	5272.203	13054.751	-0.878	8.204	16.018
S.D.	7.149	0.788	149.390	76.156	141.092	36.872	10.932	3.127
% R.S.D.	4.432	0.497	0.802	1.444	1.081	4198.239	133.248	19.522

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	196.879	5862.100	92.126	8965.308	777.738	809.059	-201.457	2661.267
S.D.	8.621	69.658	51.688	55.134	1.580	39.311	132.091	266.085
% R.S.D.	4.379	1.188	56.106	0.615	0.203	4.859	65.568	9.998

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	539.674	-86.671	15.866	19408.537	5459.438	178.375	23.628	112479.224
S.D.	52.758	80.685	3.000	1215.975	179.375	6.014	1.397	549.513
% R.S.D.	9.776	93.094	18.910	6.265	3.286	3.371	5.911	0.489

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	22.654	800.857	12.986	379.690	-3.147	44.563	-10.093	9010901.451
S.D.	26.491	127.577	13.957	145.151	7.298	11.487	22.582	54137.521
% R.S.D.	116.934	15.930	107.474	38.229	231.900	25.778	223.732	0.601

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	42.614	584.799	-12.321	-8.694	-289.919
S.D.	3.786	301.585	6.217	2.557	347.589
% R.S.D.	8.884	51.571	50.463	29.411	119.892

Identity 1: S95T001307 Identity 2: .5202gin250-1-9 12:56 PM August 7, 1995

Task name : TWC93

Sample Weight : 0.5202 Solution Volume : 2500.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	163.496	163.153	18790.034	5434.200	13186.327	3.421	24.686	22.029
S.D.	4.241	0.002	40.027	6.341	21.078	14.746	2.173	0.625
% R.S.D.	2.594	0.001	0.213	0.117	0.160	431.041	8.803	2.838

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	112.700	5847.671	4.515	8753.558	473.488	860.381	7.299	2327.937
S.D.	1.779	35.382	6.914	46.474	0.483	6.751	23.267	128.931
% R.S.D.	1.578	0.605	153.123	0.531	0.102	0.785	318.759	5.538

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	228.764	-17.331	14.143	18854.167	5488.358	169.714	12.585	106893.478
S.D.	18.189	41.911	0.142	1012.887	153.962	0.906	16.849	474.459
% R.S.D.	7.951	241.832	1.008	5.372	2.805	0.534	133.885	0.444

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	2.589	113.038	6.601	127.399	5.643	10.889	33.847	8478150.075
S.D.	5.643	30.014	2.540	18.153	1.570	1.747	3.733	25647.127
% R.S.D.	217.945	26.552	38.486	14.249	27.818	16.039	11.028	0.303

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	54.030	48.845	4.320	-1.571	-113.521
S.D.	0.759	89.179	3.264	0.528	53.867
% R.S.D.	1.405	182.578	75.539	33.623	47.451

Identity 1: S95T001307_D Identity 2: .5052gin250-1-9 12:59 PM August 7, 1995
Task name : TWC93
Sample Weight : 0.5052 Solution Volume : 2500.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	149.570	145.263	16168.289	4889.606	12169.609	3.564	81.988	21.549
S.D.	6.621	0.487	108.609	10.023	17.589	7.597	1.673	2.060
% R.S.D.	4.426	0.335	0.672	0.205	0.145	213.142	2.041	9.559

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	149.787	5579.160	20.819	7957.809	538.080	758.938	-22.952	2382.548
S.D.	0.913	11.360	16.179	56.000	2.485	10.222	21.150	222.447
% R.S.D.	0.610	0.204	77.712	0.704	0.462	1.347	92.149	9.337

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	134.279	-53.929	14.606	17579.516	5540.912	165.032	5.259	107037.359
S.D.	48.735	48.044	0.991	776.891	50.194	0.939	18.011	606.923
% R.S.D.	36.294	89.087	6.783	4.419	0.906	0.569	342.443	0.567

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	0.222	218.750	2.026	209.168	6.473	12.170	30.481	9260534.343
S.D.	5.668	11.769	3.410	15.134	2.359	1.358	1.229	44734.349
% R.S.D.	2551.470	5.380	168.276	7.235	36.441	11.155	4.033	0.483

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	50.347	168.523	12.033	-1.005	-163.164
S.D.	0.775	110.809	3.605	0.918	136.371
% R.S.D.	1.539	65.753	29.956	91.362	83.579

Identity 1: S95T001307_A Identity 2: .5202gin250-1-2-7 1:03 PM August 7, 1995
Task name : TWC93
Sample Weight : 0.5202 Solution Volume : 2500.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. /

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	5081.911	5056.724	24021.610	10493.496	18884.046	5017.385	4832.256	4298.204
S.D.	2.106	12.475	78.723	20.558	16.935	14.736	14.958	30.054
% R.S.D.	0.041	0.247	0.328	0.196	0.090	0.294	0.310	0.699

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5020.641	10848.104	5058.583	13827.223	5473.340	5958.126	5155.859	11107.761
S.D.	4.411	16.329	12.421	50.568	11.928	5.082	44.066	42.446
% R.S.D.	0.088	0.151	0.246	0.366	0.218	0.085	0.855	0.382

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	5117.468	4869.146	4869.319	24746.648	10553.400	5147.396	4792.713	111781.783
S.D.	18.164	7.378	13.327	95.683	73.289	2.724	44.174	697.553
% R.S.D.	0.355	0.152	0.274	0.387	0.694	0.053	0.922	0.624

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4985.483	4953.444	3661.590	5066.905	4848.174	5001.262	4727.687	8437869.192
S.D.	0.989	35.626	12.495	63.394	12.182	20.878	6.905	37033.691
% R.S.D.	0.020	0.719	0.341	1.251	0.251	0.417	0.146	0.439

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5097.888	4686.212	5130.481	4791.977	4891.006
S.D.	10.741	31.260	3.064	8.954	54.117
% R.S.D.	0.211	0.667	0.060	0.187	1.106

Identity 1: CCV Identity 2: Quality Control 1:09 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-240, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	5.050	5.114	5.056	4.979	5.045	5.155	5.063	5.130
S.D.	0.024	0.032	0.034	0.024	0.027	0.014	0.039	0.069
% R.S.D.	0.469	0.618	0.679	0.476	0.527	0.268	0.778	1.347

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.069	5.082	5.224	5.224	5.262	5.150	5.651	9.573
S.D.	0.015	0.021	0.020	0.037	0.033	0.009	0.029	0.044
% R.S.D.	0.293	0.410	0.381	0.702	0.625	0.180	0.511	0.461

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	5.148	5.227	5.135	5.264	5.088	5.088	5.037	5.098
S.D.	0.017	0.038	0.036	0.044	0.025	0.012	0.054	0.067
% R.S.D.	0.338	0.720	0.709	0.843	0.487	0.238	1.078	1.309

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	5.093	5.040	4.980	5.142	4.986	5.175	5.201	5.502
S.D.	0.021	0.020	0.019	0.017	0.022	0.010	0.045	0.036
% R.S.D.	0.407	0.394	0.384	0.327	0.436	0.194	0.860	0.656

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.137	4.896	5.230	5.341	4.981
S.D.	0.013	0.063	0.018	0.024	0.033
% R.S.D.	0.250	1.281	0.343	0.454	0.662

Identity 1: CCB Identity 2: Quality Control 1:13 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.001	0.000	0.025	0.001	0.001	0.002	0.000	0.000
S.D.	0.001	0.000	0.004	0.003	0.005	0.003	0.000	0.000
% R.S.D.	231.633	151.642	17.233	188.638	425.585	149.848	101.369	124.946

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.001	0.002	0.006	-0.001	0.001	-0.001	-0.001	-0.013
S.D.	0.000	0.002	0.001	0.001	0.000	0.001	0.006	0.031
% R.S.D.	45.536	97.173	20.195	150.047	10.497	213.340	646.093	239.318

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.025	-0.006	-0.000	-0.007	0.006	-0.000	0.003	0.024
S.D.	0.008	0.011	0.000	0.009	0.002	0.000	0.001	0.003
% R.S.D.	33.699	174.926	125.823	129.317	40.558	51557.350	42.105	12.729

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.011	0.001	0.011	0.000	0.002	0.001	0.188
S.D.	0.000	0.002	0.001	0.011	0.000	0.001	0.001	0.004
% R.S.D.	192.873	19.692	74.669	96.070	721.714	39.734	79.849	1.886

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	-0.000	0.057	0.000	-0.000	-0.002
S.D.	0.000	0.031	0.000	0.000	0.027
% R.S.D.	58.493	54.551	369.982	35.021	1319.508

Identity 1: S95T001311_L Identity 2: .5671gin250-1-9-1-4 1:17 PM August 7, 1995
Task name : TWC93
Sample Weight : 0.5671 Solution Volume : 12500.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-6.028	395.713	1033.291	908.506	593.316	56.388	0.033	9.146
S.D.	6.614	0.005	98.083	37.683	94.296	33.841	2.997	2.105
% R.S.D.	109.717	0.001	9.492	4.148	15.893	60.014	9205.481	23.010

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	154.284	4078.806	89.783	13277.585	799.396	178.862	-75.432	13499.215
S.D.	14.365	79.466	47.233	93.902	3.647	0.194	82.591	346.686
% R.S.D.	9.311	1.948	52.608	0.707	0.456	0.108	109.491	2.568

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	-27.400	-261.350	32.776	15879.407	4837.337	185.542	17.795	91404.535
S.D.	52.563	20.802	2.709	270.723	18.494	4.159	62.837	540.817
% R.S.D.	191.833	7.959	8.265	1.705	0.382	2.242	353.116	0.592

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	13.854	19.746	-1.379	82.362	-11.769	66.580	30.656	7749079.158
S.D.	21.476	53.000	1.859	79.992	4.558	5.263	12.629	38590.164
% R.S.D.	155.018	268.411	134.782	97.123	38.723	7.904	41.194	0.498

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	60.038	147.658	26.157	-4.207	-631.617
S.D.	6.046	333.970	14.002	0.032	33.710
% R.S.D.	10.071	226.178	53.532	0.771	5.337

Identity 1: S95T001311 Identity 2: .5671gin250-1-9 1:22 PM August 7, 1995
Task name : TWC93
Sample Weight : 0.5671 Solution Volume : 2500.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	3.634	408.450	870.814	925.159	1004.069	1.614	13.699	16.490
S.D.	1.970	1.182	6.087	7.114	2.756	6.759	0.777	0.551
% R.S.D.	54.203	0.289	0.699	0.769	0.275	418.736	5.672	3.344

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	71.540	4170.479	13.647	13413.648	826.058	168.963	-23.061	14522.778
S.D.	0.463	22.409	5.491	89.089	3.227	6.712	38.214	24.509
% R.S.D.	0.647	0.537	40.234	0.664	0.391	3.973	165.709	0.169

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	133.610	-5.181	37.332	17122.409	4984.133	187.252	5.944	89298.347
S.D.	21.952	23.333	0.246	143.730	73.882	0.721	29.674	177.522
% R.S.D.	16.430	450.357	0.658	0.839	1.482	0.385	499.214	0.199

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	3.365	13.504	4.376	355.623	9.810	7.905	23.075	7361077.653
S.D.	3.047	4.842	1.692	46.365	0.672	1.608	4.246	25032.435
% R.S.D.	90.558	35.854	38.658	13.038	6.855	20.339	18.403	0.340

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	72.407	39.890	37.414	-1.103	-62.890
S.D.	1.391	80.585	1.443	0.474	40.295
% R.S.D.	1.921	202.016	3.856	42.956	64.073

Identity 1: S95T001311_D Identity 2: .5707gin250-1-9 1:28 PM August 7, 1995
Task name : TWC93
Sample Weight : 0.5707 Solution Volume : 2500.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-9.778	408.530	832.841	708.320	984.535	17.106	20.723	18.579
S.D.	5.955	0.144	8.994	8.500	6.246	0.019	0.967	0.987
% R.S.D.	60.898	0.035	1.080	1.200	0.634	0.109	4.664	5.314

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	81.883	4951.950	-11.960	13490.157	904.938	187.758	-38.517	13947.234
S.D.	1.730	12.203	3.105	34.678	0.000	8.151	20.854	145.726
% R.S.D.	2.113	0.246	25.961	0.257	0.000	4.341	54.143	1.045

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	33.727	-116.559	33.731	17054.817	4962.365	190.122	33.426	88369.300
S.D.	45.914	51.284	0.610	436.371	31.894	1.098	21.793	474.212
% R.S.D.	136.132	43.998	1.807	2.559	0.643	0.577	65.198	0.537

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-1.967	10.916	-1.919	321.764	4.863	11.662	28.818	6117024.520
S.D.	4.428	58.001	3.670	62.685	1.583	1.051	1.722	18425.886
% R.S.D.	225.167	531.327	191.209	19.482	32.542	9.012	5.974	0.301

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	72.356	154.477	26.728	-2.772	-300.669
S.D.	2.383	28.780	3.335	0.484	91.188
% R.S.D.	3.293	18.631	12.477	17.471	30.328

Identity 1: S95T001311_A Identity 2: .5671gin250-1-2-7 1:33 PM August 7, 1995
Task name : TWC93
Sample Weight : 0.5671 Solution Volume : 2500.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	4513.963	4888.405	5283.936	5452.061	5250.228	4628.339	4421.620	3981.192
S.D.	2.130	15.477	31.214	5.551	20.149	20.297	18.474	24.117
% R.S.D.	0.047	0.317	0.591	0.102	0.384	0.439	0.418	0.606

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	4610.982	8629.125	4596.584	18039.317	5528.050	4837.557	4778.584	21859.660
S.D.	9.419	4.734	13.724	97.223	19.016	25.962	29.177	151.964
% R.S.D.	0.204	0.055	0.299	0.539	0.344	0.537	0.611	0.695

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	4570.712	4387.295	4488.879	21844.958	9605.748	4747.242	4477.333	91895.289
S.D.	48.433	32.894	16.696	362.631	71.294	2.168	29.079	525.915
% R.S.D.	1.060	0.750	0.372	1.660	0.742	0.046	0.649	0.572

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	4578.124	4329.268	3258.062	4940.936	4446.120	4573.967	4364.501	7211444.433
S.D.	13.802	57.739	12.680	96.149	7.020	0.599	16.523	34058.089
% R.S.D.	0.301	1.334	0.389	1.946	0.158	0.013	0.379	0.472

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	4694.750	4522.434	4721.729	4399.499	4219.221
S.D.	4.869	105.713	6.681	11.125	64.340
% R.S.D.	0.104	2.338	0.141	0.253	1.525

Identity 1: ICSA Identity 2: Quality Control 1:37 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.001	0.000	0.034	0.075	202.854	0.003	-0.013	-0.000
S.D.	0.000	0.000	0.005	0.000	3.913	0.002	0.000	0.000
% R.S.D.	36.903	22.540	14.140	0.468	1.929	57.809	2.396	65.388

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.000	-0.046	0.010	149.503	19.346	-0.011	0.019	0.042
S.D.	0.000	0.002	0.004	0.566	0.045	0.000	0.004	0.027
% R.S.D.	95.972	3.952	37.685	0.379	0.232	1.808	19.317	63.904

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.041	-0.007	0.003	0.016	0.176	19.116	0.009	191.942
S.D.	0.007	0.010	0.000	0.008	0.005	0.048	0.002	1.900
% R.S.D.	16.720	148.387	4.921	52.831	2.604	0.252	22.151	0.990

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.013	-0.002	0.029	-0.000	0.013	-0.051	0.357
S.D.	0.002	0.009	0.001	0.005	0.000	0.000	0.001	0.013
% R.S.D.	59.666	67.128	28.910	17.746	144.968	2.470	1.855	3.631

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.010	0.012	-0.002	0.002	-0.026
S.D.	0.000	0.025	0.001	0.000	0.017
% R.S.D.	2.274	211.361	51.010	5.195	67.512

Identity 1: ICSAB Identity 2: Quality Control 1:40 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.005	0.000	0.016	0.061	199.585	0.509	0.496	0.961
S.D.	0.001	0.000	0.010	0.002	0.352	0.005	0.001	0.003
% R.S.D.	20.270	4621.165	63.812	3.319	0.176	1.044	0.223	0.265

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	1.000	0.942	0.007	150.572	18.986	0.499	0.031	-0.054
S.D.	0.003	0.001	0.001	0.291	0.031	0.003	0.005	0.016
% R.S.D.	0.281	0.055	10.834	0.193	0.162	0.544	17.849	29.677

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.010	-0.029	0.519	0.022	0.170	18.787	-0.014	192.036
S.D.	0.006	0.006	0.001	0.011	0.006	0.020	0.004	0.400
% R.S.D.	55.825	21.778	0.141	50.266	3.715	0.106	28.568	0.208

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.101	1.482	1.040	-0.001	1.032	-0.053	0.283
S.D.	0.002	0.009	0.002	0.012	0.000	0.002	0.001	0.018
% R.S.D.	532.418	9.308	0.149	1.152	22.442	0.185	1.025	6.278

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.519	0.080	0.509	0.516	-0.076
S.D.	0.001	0.035	0.001	0.001	0.003
% R.S.D.	0.214	43.813	0.227	0.225	4.027

Identity 1: CCV_1 Identity 2: CCV_1 1:45 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	5.010	5.057	5.042	4.987	5.100	5.179	4.989	5.059
S.D.	0.007	0.008	0.015	0.009	0.026	0.011	0.011	0.028
% R.S.D.	0.143	0.151	0.290	0.189	0.508	0.207	0.227	0.548

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	5.127	5.100	5.145	5.193	5.192	5.159	5.452	9.261
S.D.	0.009	0.005	0.007	0.024	0.007	0.009	0.028	0.029
% R.S.D.	0.178	0.105	0.145	0.469	0.133	0.166	0.516	0.308

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	5.106	5.101	5.061	5.179	5.097	5.120	5.016	5.067
S.D.	0.012	0.006	0.008	0.071	0.014	0.013	0.032	0.028
% R.S.D.	0.237	0.113	0.162	1.369	0.279	0.251	0.632	0.558

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	5.133	5.050	5.010	5.135	4.960	5.170	5.167	5.459
S.D.	0.016	0.022	0.007	0.037	0.006	0.012	0.010	0.020
% R.S.D.	0.311	0.428	0.145	0.724	0.124	0.235	0.185	0.362

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	5.137	4.823	5.217	5.292	4.922
S.D.	0.008	0.013	0.009	0.005	0.027
% R.S.D.	0.165	0.261	0.170	0.091	0.556

Identity 1: CCB_1 Identity 2: CCB_1 1:48 PM August 7, 1995
Task name : TWC93
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	ZR (ppm)	SR (ppm)	BI (ppm)	SI (ppm)	AL (ppm)	CO (ppm)	CU (ppm)	LI (ppm)
Mean	-0.001	-0.000	0.016	0.001	-0.026	-0.003	-0.001	-0.000
S.D.	0.002	0.000	0.006	0.003	0.013	0.002	0.001	0.001
% R.S.D.	154.470	112.925	35.946	203.430	48.029	57.938	65.047	136.389

	ZN (ppm)	NI (ppm)	LA (ppm)	FE (ppm)	CA (ppm)	CR (ppm)	ND (ppm)	U (ppm)
Mean	0.001	0.001	0.002	0.000	0.001	-0.001	-0.004	-0.018
S.D.	0.000	0.000	0.001	0.001	0.000	0.001	0.011	0.068
% R.S.D.	51.418	65.484	35.477	594.272	14.193	43.677	277.590	381.592

	CE (ppm)	SM (ppm)	BA (ppm)	P (ppm)	S (ppm)	MG (ppm)	AS (ppm)	NA (ppm)
Mean	0.019	-0.005	-0.000	-0.010	0.003	-0.000	-0.006	0.030
S.D.	0.014	0.016	0.000	0.005	0.002	0.000	0.003	0.006
% R.S.D.	72.833	323.139	15732.098	47.637	63.688	381.626	55.691	20.366

	MO (ppm)	SE (ppm)	AG (ppm)	PB (ppm)	TI (ppm)	CD (ppm)	B (ppm)	K (ppm)
Mean	-0.001	0.012	0.001	-0.003	0.000	0.002	0.001	0.267
S.D.	0.000	0.002	0.001	0.011	0.001	0.000	0.001	0.024
% R.S.D.	45.069	16.541	101.109	369.028	205.022	7.571	71.723	9.077

	MN (ppm)	SB (ppm)	V (ppm)	BE (ppm)	TL (ppm)
Mean	0.000	0.011	-0.001	-0.001	-0.017
S.D.	0.000	0.023	0.001	0.000	0.023
% R.S.D.	56.915	216.077	134.037	1.021	135.575

03/15/96 08:49
A-0004-1

File #: 960514G.TXT

LABCORE Data Entry Template for Worklist# 6538

Analyst: JK Soto **Instrument:** ICP01 JK 5-24-96 **Book#** 53848B

Method: LA-505-~~151~~/161 Rev/Mod B.0 WHC-SD-WM-DP-140, REV. 1

Worklist Comment: JK 5-24-96 ICP B-106 (SOLID WATER 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	PREPBLKTJA				@ICP-I01	SOLID		
~~6~~	~~SERDIL~~ JK 5-24-96	~~S96T001210~~	0	I	@ICP-I01	SOLID		
7	SAMPLE	S96T001210	0	I	@ICP-I01	SOLID	95000096	B-106
	Analytes Requested:	AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01						
8	DUP	S96T001210	0	I	@ICP-I01	SOLID		
9	SPK	S96T001210	0	I	@ICP-I01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
~~12~~	~~SERDIL~~ JK 5-24-96	~~S96T001221~~	0	I	@ICP-I01	SOLID		
13	SAMPLE	S96T001221	0	I	@ICP-I01	SOLID	95000096	B-106
	Analytes Requested:	AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 ,						

Data Entry Comments: Sample prep dilution factor can be found in sample prep worklist. Example of calculation of sample result:

SP 5/24/96

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

S96T001210 Al $= \frac{1.805\ \mu g/ml}{250} \times \frac{1}{4.946\ g/L \times \frac{1L}{1000ml}} = 3.65\ mg/g$ e+2

LABCORE Data Entry Template for Worklist# 6538

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
					SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01			
14	DUP	S96T001221	0	I	@ICP-I01	SOLID		
15	SPK	S96T001221	0	I	@ICP-I01	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 # 6538

JK [signature] 05-24-96
Analyst Signature **Date**

Reviewed by: Samuel M. Pang 5/24/96
Analyst Signature **Date**

Prepblk IIa, Direct
96T001210 , 3-3 , DF 2
96T001210_D 3-3 2
96T001210_a 3-3 2 , 3 ml sample + 1.2 ml SST5 + 1.8 ml HNO3
96T001221 , 3-3 , DF 2
96T001221_D 3-3 2
96T001221_a 3-3 2 , 3 ml sample + 1.2 ml SST5 + 1.8 ml HNO3

Data Entry Comments: True Value for spiking amount is 1.0 ppm on all elements except for U = 2.0 ppm. Example for calculation of spike recovery:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

S96T001210 $al = \frac{\left(\frac{3.760}{2}\right) - \left(\frac{1.805}{2}\right)}{1} \times 100 = 97.75\%$

Analysis Report Summary Fri 05-24-96 10:18:23 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960524A	ICP2	05/24/96	09:00	DKS	Q	CONC
2	ICB	960524A	ICP2	05/24/96	09:03	DKS	Q	CONC
3	LLS	960524A	ICP2	05/24/96	09:06	DKS	Q	CONC
4	ICSA	960524A	ICP2	05/24/96	09:08	DKS	Q	CONC
5	ICSAB	960524A	ICP2	05/24/96	09:11	DKS	Q	CONC
6	PREPBLKTJA	960524A	ICP2	05/24/96	09:16	DKS	S	CONC
7	S96T001210	960524A	ICP2	05/24/96	09:19	DKS	S	CONC
8	S96T001210_D	960524A	ICP2	05/24/96	09:22	DKS	S	CONC
9	S96T001210_A	960524A	ICP2	05/24/96	09:26	DKS	S	CONC
10	CCV	960524A	ICP2	05/24/96	09:30	DKS	Q	CONC
11	CCB	960524A	ICP2	05/24/96	09:33	DKS	Q	CONC
12	S96T001221	960524A	ICP2	05/24/96	09:37	DKS	S	CONC
13	S96T001221_D	960524A	ICP2	05/24/96	09:40	DKS	S	CONC
14	S96T001221_A	960524A	ICP2	05/24/96	09:43	DKS	S	CONC
15	ICSA	960524A	ICP2	05/24/96	09:48	DKS	Q	CONC
16	ICSAB	960524A	ICP2	05/24/96	09:51	DKS	Q	CONC
17	CCV_1	960524A	ICP2	05/24/96	10:08	DKS	Q	CONC
18	CCB_1	960524A	ICP2	05/24/96	10:11	DKS	Q	CONC

WHC-SD-WM-DP-110, REV.

DK Lodd
05-24-96
B-106 S96T001210
S96T001221
Worklist #6538

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 252 TO 255.

Analysis Report *Averages* *Fri 05-24-96 10:18:23 AM* *page 2*

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.930	4.862	5.072	4.952	5.020	5.083
2	ICB	.0017	.0021	.0066	.0063	.0002	.0001
3	LLS	.0172	.1064	.2208	.1028	.1016	.0105
4	ICSA	.0030	243.6	-.0474	-.0011	.0021	.0002
5	ICSAB	.9866	244.8	-.1014	.0015	.5001	.4842
6	PREPBLKTJA	.0012	.0225	.0077	2.905	.0001	.0001
7	S96T001210	.0360	1.805	.0151	2.654	.0102	.0001
8	S96T001210_D	.0576	1.450	.0025	4.067	.0077	.0003
9	S96T001210_A	1.605	3.760	2.129	4.667	2.016	2.051
10	CCV	5.031	4.972	5.210	5.037	5.160	5.228
11	CCB	.0026	.0124	.0035	.0017	.0001	.0002
12	S96T001221	.0364	1.488	.0048	2.276	.0045	.0003
13	S96T001221_D	.0376	1.553	.0151	3.622	.0054	.0003
14	S96T001221_A	1.316	3.464	2.064	4.300	2.034	2.041
15	ICSA	.0043	246.3	-.0606	.0032	.0020	.0004
16	ICSAB	.9879	246.4	-.0972	.0046	.5032	.4915
17	CCV_1	5.006	4.984	5.221	5.069	5.147	5.273
18	CCB_1	.0012	.0114	-.0008	.0071	.0000	.0004

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.080	5.044	4.983	5.131	4.998	5.046
2	ICB	.0071	.0052	.0005	.0144	.0001	.0006
3	LLS	.2282	.2084	.0100	.2186	.0433	.0211
4	ICSA	-.0009	253.7	-.0009	.0241	.0005	.0087
5	ICSAB	.0067	256.4	.9628	.0182	.4759	.4943
6	PREPBLKTJA	.0242	.0059	.0001	.0039	.0002	.0013
7	S96T001210	.1018	.3995	-.0009	.0116	-.0020	.2154
8	S96T001210_D	-.0182	.2464	-.0005	.0086	.0034	.2902
9	S96T001210_A	2.119	2.470	2.021	2.105	2.022	2.260
10	CCV	5.211	5.233	5.111	5.290	5.135	5.186
11	CCB	.0310	.0013	.0004	.0079	-.0012	.0001
12	S96T001221	.0088	.1114	.0019	.0167	-.0015	.1513
13	S96T001221_D	.0485	.1243	.0010	.0394	.0000	.1495
14	S96T001221_A	2.069	2.167	2.006	2.106	2.016	2.183
15	ICSA	.0400	258.3	-.0008	.0172	.0003	.0104
16	ICSAB	.0137	256.1	.9622	.0200	.4798	.4955
17	CCV_1	5.151	5.204	5.073	5.268	5.101	5.160
18	CCB_1	.0104	.0007	-.0007	.0007	.0003	.0011

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.137	-.0010	5.039	4.975	5.052	4.992
2	ICB	.0015	.0003	.0014	-.0192	.0007	.0002
3	LLS	.0214	.0006	.1071	Q.7285	.1038	.0214
4	ICSA	-.0100	-.0286	94.73	.1183	-.0034	.0021
5	ICSAB	.4969	-.0290	95.10	.1735	-.0053	1.006
6	PREPBLKTJA	.0006	.0009	.0003	-.0388	.0002	.0039
7	S96T001210	.0116	.0000	2.896	1.215	.0019	.0088
8	S96T001210_D	.0075	.0002	2.084	2.057	.0012	.0106
9	S96T001210_A	2.093	-.0009	4.936	3.015	2.047	2.009

WHC-SD-WM-DP-142, REV. 1

Analysis Report Averages Fri 05-24-96 10:18:23 AM page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
10	CCV	5.272	-.0019	5.166	5.214	5.189	5.086
11	CCB	.0013	-.0006	.0008	.1368	.0013	-.0007
12	S96T001221	.0077	-.0012	.6847	1.199	.0017	.0126
13	S96T001221_D	.0112	-.0004	.6912	1.468	.0053	.0147
14	S96T001221_A	2.100	-.0024	2.708	3.038	2.062	2.021
15	ICSA	-.0093	-.0346	96.05	.3536	-.0047	.0020
16	ICSAB	.5046	-.0296	95.56	.1437	-.0045	1.028
17	CCV_1	5.301	-.0020	5.163	5.233	5.175	5.149
18	CCB_1	.0022	-.0008	-.0001	.1008	-.0003	-.0008

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.813	4.930	5.031	4.966	5.106	4.981
2	ICB	.0144	.0003	.0025	.0029	.0042	-.0014
3	LLS	.2204	.0200	.1011	.2212	.2057	.0381
4	ICSA	249.0	-.0062	-.0032	198.6	.0076	-.0117
5	ICSAB	250.1	.4589	-.0074	199.6	.0064	.9196
6	PREPBLKTJA	.0063	.0003	.0033	3.917	.0039	-.0092
7	S96T001210	.2173	.1039	.0129	482.7	.0057	.0088
8	S96T001210_D	.1626	.0638	.0164	791.3	-.0045	.0224
9	S96T001210_A	2.168	2.047	2.047	485.6	2.067	2.024
10	CCV	4.941	5.033	5.156	5.042	5.251	5.072
11	CCB	.0128	-.0000	.0001	-.0042	.0007	-.0035
12	S96T001221	.0955	.0102	.0131	466.1	-.0026	.0014
13	S96T001221_D	.1028	.0109	.0113	456.6	-.0022	.0037
14	S96T001221_A	2.063	1.940	2.035	469.8	2.094	1.977
15	ICSA	252.4	-.0064	-.0070	201.2	.0082	-.0157
16	ICSAB	252.4	.4572	-.0063	202.4	.0103	.9373
17	CCV_1	4.949	5.001	5.136	5.084	5.236	5.065
18	CCB_1	.0116	-.0000	.0006	-.0046	.0005	-.0050

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.883	4.963	4.860	4.753	4.892	4.764
2	ICB	.0024	.0042	.0070	.0121	.0132	.0108
3	LLS	.4090	.2271	.2051	.1103	.2231	.1552
4	ICSA	-.0016	.0466	-.0296	.0230	-.0620	.0035
5	ICSAB	.0171	1.030	-.0218	.0182	-.0735	.0040
6	PREPBLKTJA	-.0212	.0108	.0366	.0110	.0208	6.618
7	S96T001210	70.95	.0633	25.53	.0082	.0183	4.498
8	S96T001210_D	104.1	.0345	42.04	.0307	.0154	8.566
9	S96T001210_A	73.32	2.092	27.62	1.944	1.971	6.565
10	CCV	5.004	5.086	4.917	4.889	4.994	4.855
11	CCB	-.0011	.0168	-.0007	.0084	.0211	.0071
12	S96T001221	49.45	.0126	25.38	.0134	.0203	5.091
13	S96T001221_D	47.73	.0099	24.95	.0240	.0372	7.743
14	S96T001221_A	51.24	2.037	27.30	1.943	1.977	7.153
15	ICSA	.0299	.0368	-.0266	.0188	-.0487	.0028
16	ICSAB	.0329	1.023	-.0218	.0101	-.0547	.0086
17	CCV_1	4.959	5.022	4.929	4.867	4.980	4.824
18	CCB_1	.0006	.0006	.0091	.0089	.0354	.0004

WHC-SD-WM-DP-140, REV.

Analysis Report Averages Fri 05-24-96 10:18:23 AM page 4

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.917	4.955	-.0067	4.850	4.871	9.688
2	ICB	-.0002	.0001	.0056	.0005	-.0140	.0100
3	LLS	.2140	.0207	.0026	.0215	.4085	.5227
4	ICSA	-.0021	.0018	.0202	.0019	-.0280	.0533
5	ICSAB	.0001	.0018	.0097	.0021	-.0285	.0411
6	PREPBLKTJA	.0098	.0001	.0013	.0012	-.0100	.0586
7	S96T001210	.0028	.0477	.0068	.0167	-.0403	.3243
8	S96T001210_D	.0009	.0276	.0026	.0138	-.0336	.4104
9	S96T001210_A	1.971	2.052	.0089	1.988	1.983	4.229
10	CCV	5.050	5.097	.0098	5.022	4.981	9.982
11	CCB	-.0109	-.0001	.0062	.0007	-.0029	-.0290
12	S96T001221	-.0175	.0121	.0072	.0060	.0014	.1898
13	S96T001221_D	-.0057	.0121	.0211	.0088	.0671	.2402
14	S96T001221_A	1.973	2.033	.0013	2.036	1.969	4.133
15	ICSA	-.0060	.0017	.0099	.0024	-.0013	.0123
16	ICSAB	-.0124	.0016	.0119	.0024	-.0131	-.0026
17	CCV_1	5.042	5.100	.0112	5.003	4.999	9.963
18	CCB_1	-.0116	-.0001	.0047	.0010	-.0058	-.0489

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.997	.0064	5.000	4.949
2	ICB	.0012	.0001	.0007	-.0004
3	LLS	.1050	.0007	.0212	.0202
4	ICSA	-.0005	.0070	.0047	-.0056
5	ICSAB	.4801	.0072	.9796	-.0050
6	PREPBLKTJA	.0027	.0005	.0006	.0005
7	S96T001210	.0033	.0006	.0409	.0031
8	S96T001210_D	.0044	.0008	.0487	.0061
9	S96T001210_A	2.018	.0029	2.078	1.993
10	CCV	5.124	.0064	5.093	5.073
11	CCB	-.0012	-.0004	.0011	-.0025
12	S96T001221	-.0005	-.0006	.0241	.0013
13	S96T001221_D	.0018	.0002	.0248	.0049
14	S96T001221_A	2.014	.0020	2.043	1.995
15	ICSA	-.0010	.0069	.0050	-.0049
16	ICSAB	.4801	.0067	.9787	-.0068
17	CCV_1	5.117	.0061	5.068	5.051
18	CCB_1	-.0010	-.0004	.0001	-.0020

JK Lp
05-24-96

WHC-SD-WM-DP-140, REV. 1

03/15/96 08:56
A-0004-1

File #: 960524B ~~batch # 96005307~~ 5/28/96

LABCORE Data Entry Template for Worklist# 6539

Analyst: JKSato **Instrument:** ICP01 5-24-96 **Book#** 53B48B

Method: LA-505-~~151~~/161 Rev/Mod B-0 5-24-96 WHC-SD-WM-DP-140, REV. 1

Worklist Comment: ICP B-106 (SOLID WATER 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	PREPBLKTJA				@ICP-I01	SOLID		
6	SERDIL	S96T001222	0	I	@ICP-I01	SOLID		
7	SAMPLE	S96T001222	0	I	@ICP-I01	SOLID	95000096	B-106

Analytes Requested: AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
8	DUP	S96T001222	0	I	@ICP-I01	SOLID		
9	SPK	S96T001222	0	I	@ICP-I01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SERDIL	S96T001223	0	I	@ICP-I01	SOLID		
13	SAMPLE	S96T001223	0	I	@ICP-I01	SOLID	95000096	B-106

Analytes Requested: AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 ,

Data Entry Comments: Example for calculation of sample results:

S96T001222 $Al = 1.574 \frac{ug}{ml} \times \frac{1}{(4.496 \frac{g}{L} \times \frac{1L}{1000ml})} = 3.5e+2 \frac{ug}{g}$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: $4.496 \frac{g}{L}$ is sample prep dilution factor which can be found in sample prep worklist.

03/15/96 08:56
A-0004-1

WHC-SD-WM-DP-140, REV 1

LABCORE Data Entry Template for Worklist# 6539

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
					SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01			
14	DUP	S96T001223	0	I	@ICP-I01	SOLID		
15	SPK	S96T001223	0	I	@ICP-I01	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 # 6539

DK Lato 05-24-96
Analyst Signature Date

Reviewed by:
Sam M. Parong 5/29/96
Analyst Signature Date

repblk TJa, Direct
S96T001222, 3-3, DF 2
S96T001222_D 3-3 2
S96T001222_a 3-3 2, 3ml sample + 1.2ml SST5 + 1.8ml HNO3

S96T001223, 3-3, DF 2
S96T001223_D 3-3 2
S96T001223_a 3-3 2, 3ml sample + 1.2ml SST5 + 1.8ml HNO3

Data Entry Comments: True value for post spike amount is 1.0 ppm except for U = 2.0
Example for calculation of spike recovery:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

S96T001222 $al = \frac{\left(\frac{3.523}{2}\right) - \left(\frac{1.574}{2}\right)}{1} \times 100 = 97.45\%$

Analysis Report Summary Fri 05-24-96 12:58:01 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960524B	ICP2	05/24/96	11:46	DKS	Q	CONC
2	ICB	960524B	ICP2	05/24/96	11:49	DKS	Q	CONC
3	LLS	960524B	ICP2	05/24/96	11:52	DKS	Q	CONC
4	ICSA	960524B	ICP2	05/24/96	11:57	DKS	Q	CONC
5	ICSAB	960524B	ICP2	05/24/96	12:00	DKS	Q	CONC
6	PREPBLKTJA	960524B	ICP2	05/24/96	12:14	DKS	S	CONC
7	S96T001222	960524B	ICP2	05/24/96	12:18	DKS	S	CONC
8	S96T001222_D	960524B	ICP2	05/24/96	12:21	DKS	S	CONC
9	S96T001222_A	960524B	ICP2	05/24/96	12:24	DKS	S	CONC
10	CCV	960524B	ICP2	05/24/96	12:29	DKS	Q	CONC
11	CCB	960524B	ICP2	05/24/96	12:31	DKS	Q	CONC
12	S96T001223	960524B	ICP2	05/24/96	12:35	DKS	S	CONC
13	S96T001223_D	960524B	ICP2	05/24/96	12:38	DKS	S	CONC
14	S96T001223_A	960524B	ICP2	05/24/96	12:42	DKS	S	CONC
15	ICSA	960524B	ICP2	05/24/96	12:45	DKS	Q	CONC
16	ICSAB	960524B	ICP2	05/24/96	12:49	DKS	Q	CONC
17	CCV_1	960524B	ICP2	05/24/96	12:52	DKS	Q	CONC
18	CCB_1	960524B	ICP2	05/24/96	12:55	DKS	Q	CONC

WHC-SD-WM-DP-140 REV. 1

DK
05-24-96
B-106 S96T001222
S96T001223
Worklist # 6539

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 258 TO 261.

Analysis Report Averages Fri 05-24-96 12:58:01 PM page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.863	4.905	5.115	5.034	4.998	5.203
2	ICB	.0013	.0213	.0073	-.0017	.0001	.0005
3	LLS	.0172	.1192	.2150	.1054	.1001	.0112
4	ICSA	.0039	245.8	-.0623	-.0032	.0020	.0005
5	ICSAB	.9757	243.9	-.0612	-.0046	.4952	.4939
6	PREPBLKTJA	.0010	.1674	.0099	2.356	.0042	.0005
7	S96T001222	.0345	1.574	.0090	3.404	.0051	.0008
8	S96T001222_D	.0346	1.453	.0183	3.590	.0049	.0009
9	S96T001222_A	1.290	3.523	2.068	5.414	1.980	2.061
10	CCV	4.860	4.910	5.096	5.030	5.001	5.199
11	CCB	.0022	.0180	.0050	.0038	.0001	.0007
12	S96T001223	.0399	1.045	.0059	4.134	.0039	.0010
13	S96T001223_D	.0390	1.898	.0098	5.160	.0049	.0009
14	S96T001223_A	.9626	3.018	2.085	6.118	1.999	2.071
15	ICSA	.0057	246.2	-.0956	.0026	.0020	.0006
16	ICSAB	.9797	245.9	-.0798	.0055	.4997	.4984
17	CCV_1	4.876	4.926	5.115	5.055	5.048	5.221
18	CCB_1	.0031	.0155	.0082	.0025	.0001	.0006

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.060	4.938	4.888	5.134	4.918	4.963
2	ICB	.0152	.0026	.0001	.0063	-.0007	.0013
3	LLS	.2305	.2042	.0112	.2163	.0418	.0227
4	ICSA	-.0052	249.7	-.0006	.0120	-.0006	.0087
5	ICSAB	.0177	250.4	.9521	.0177	.4700	.4902
6	PREPBLKTJA	-.0034	.0499	-.0003	.0120	.0007	.0017
7	S96T001222	.0201	.0675	.0003	.0168	-.0031	.1456
8	S96T001222_D	.0069	.0598	.0017	.0145	.0016	.1413
9	S96T001222_A	2.149	2.047	1.951	2.063	1.966	2.125
10	CCV	5.074	4.949	4.874	5.136	4.907	4.958
11	CCB	.0110	.0019	.0000	.0047	.0017	.0014
12	S96T001223	.2223	.0544	.0010	.0110	.0001	.2122
13	S96T001223_D	.2067	.0600	.0001	.0231	.0012	.2037
14	S96T001223_A	2.242	2.073	1.971	2.103	1.980	2.215
15	ICSA	.0022	248.6	-.0002	.0164	.0011	.0104
16	ICSAB	-.0020	249.4	.9505	.0169	.4710	.4882
17	CCV_1	5.069	4.979	4.883	5.182	4.924	4.982
18	CCB_1	-.0069	.0014	.0011	.0036	.0006	.0014

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.252	-.0037	5.007	5.041	5.046	5.170
2	ICB	.0020	-.0020	.0007	.1679	-.0002	-.0012
3	LLS	.0228	-.0011	.1056	Q.5976	.1033	.0204
4	ICSA	-.0091	-.0242	94.78	.1649	-.0050	.0007
5	ICSAB	.5042	-.0247	94.38	.0928	-.0045	1.005
6	PREPBLKTJA	.0119	-.0014	.0090	.1262	.0005	.0001
7	S96T001222	.0092	-.0047	.8499	.7810	.0025	.0515
8	S96T001222_D	.0118	-.0051	.9645	.8291	.0016	.0481
9	S96T001222_A	2.110	-.0059	2.830	3.137	2.026	2.094

WHC-SD-WM-DP-140, REV.1

Analysis Report Averages Fri 05-24-96 12:58:01 PM page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
10	CCV	5.252	-.0038	5.012	4.946	5.051	5.178
11	CCB	.0025	-.0025	.0011	.0023	-.0002	-.0013
12	S96T001223	.0115	-.0042	.2568	1.420	-.0003	.0427
13	S96T001223_D	.0071	-.0046	.3010	1.048	.0006	.0510
14	S96T001223_A	2.120	-.0055	2.272	3.382	2.043	2.091
15	ICSA	-.0091	-.0238	94.63	.1076	-.0047	.0007
16	ICSAB	.5119	-.0234	94.64	.1255	-.0057	1.027
17	CCV_1	5.288	-.0039	5.025	4.988	5.095	5.197
18	CCB_1	.0025	-.0024	.0013	.0708	-.0001	-.0020

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.894	4.818	4.959	5.029	5.117	4.909
2	ICB	.0157	-.0004	.0015	-.0122	.0027	-.0068
3	LLS	.2151	.0190	.0967	.2077	.2053	.0359
4	ICSA	252.6	-.0071	-.0082	203.1	.0063	-.0015
5	ICSAB	250.6	.4512	-.0074	201.4	.0052	.9256
6	PREPBLKTJA	.0299	.0001	.0024	2.689	.0031	-.0060
7	S96T001222	.0384	.0029	.0071	438.9	-.0032	.0016
8	S96T001222_D	.0412	.0035	.0087	426.7	-.0012	-.0069
9	S96T001222_A	2.019	1.884	1.989	439.7	2.056	1.941
10	CCV	4.904	4.815	4.942	5.032	5.106	4.885
11	CCB	.0106	-.0004	.0033	-.0155	.0028	-.0047
12	S96T001223	.0500	.0009	.0086	529.4	.0001	-.0128
13	S96T001223_D	.0534	.0012	.0098	517.5	-.0034	-.0048
14	S96T001223_A	2.022	1.899	2.013	531.0	2.062	1.950
15	ICSA	253.5	-.0073	-.0048	203.5	.0090	-.0083
16	ICSAB	253.1	.4509	-.0089	204.3	.0061	.9238
17	CCV_1	4.917	4.832	4.967	5.042	5.157	4.891
18	CCB_1	.0132	-.0005	.0013	-.0160	.0032	-.0107

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.851	4.833	4.816	4.738	4.968	4.685
2	ICB	.0073	-.0011	.0031	.0075	.0392	-.0093
3	LLS	.3912	.2238	.2048	.1189	.2308	.1380
4	ICSA	.0293	.0319	-.0156	.0138	-.0450	-.0145
5	ICSAB	.0211	1.001	-.0306	.0077	-.0258	-.0140
6	PREPBLKTJA	-.0169	.0216	.0132	-.0017	.0551	.8813
7	S96T001222	44.27	.0178	23.36	.0199	.0815	9.681
8	S96T001222_D	41.20	.0508	22.38	.0141	.0695	9.584
9	S96T001222_A	45.37	1.969	24.94	1.932	2.014	11.58
10	CCV	4.951	4.835	4.821	4.747	4.917	4.689
11	CCB	.0155	.0083	-.0095	.0090	.0528	-.0037
12	S96T001223	33.54	-.0107	29.27	.0245	.1012	17.82
13	S96T001223_D	39.81	-.0046	27.47	.0178	.1105	23.82
14	S96T001223_A	35.78	1.980	31.11	1.935	2.100	19.72
15	ICSA	.0210	.0336	-.0265	.0011	-.0545	.0026
16	ICSAB	.0255	1.002	-.0139	.0119	-.0499	-.0095
17	CCV_1	4.922	4.830	4.821	4.781	4.930	4.706
18	CCB_1	.0006	.0004	-.0054	.0096	.0535	-.0029

WHC-SD-WM-DP-140, REV. 1

Analysis Report *Averages* *Fri 05-24-96 12:58:01 PM* *page 4*

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.942	4.992	.0128	4.904	4.809	9.788
2	ICB	-.0247	-.0003	.0111	.0005	-.0124	-.0825
3	LLS	.1911	.0202	.0056	.0217	.3855	.4635
4	ICSA	-.0241	.0016	.0171	.0014	-.0126	-.0219
5	ICSAB	-.0197	.0016	.0178	.0010	-.0060	-.0272
6	PREPBLKTJA	-.0183	.0005	.0127	.0040	.0091	-.0536
7	S96T001222	-.0472	.0121	.0281	.0059	-.0015	.4733
8	S96T001222_D	-.0595	.0131	.0276	.0063	.0113	.5049
9	S96T001222_A	1.913	2.006	.0227	1.999	1.864	4.370
10	CCV	4.945	4.990	.0210	4.899	4.776	9.787
11	CCB	-.0298	-.0004	.0141	.0008	-.0149	-.1129
12	S96T001223	-.0512	.0072	.0216	.0080	-.0228	-.1960
13	S96T001223_D	-.0565	.0081	.0277	.0090	-.0310	-.2148
14	S96T001223_A	1.939	2.011	.0343	2.060	1.906	3.756
15	ICSA	-.0307	.0016	.0181	.0019	.0058	-.0430
16	ICSAB	-.0306	.0016	.0138	.0014	.0038	-.0398
17	CCV_1	4.985	5.031	.0142	4.928	4.848	9.865
18	CCB_1	-.0298	-.0004	.0109	.0008	-.0171	-.1071

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.970	.0049	4.906	4.908
2	ICB	-.0036	-.0010	-.0003	-.0045
3	LLS	.1007	-.0002	.0203	.0177
4	ICSA	-.0033	.0060	.0047	-.0079
5	ICSAB	.4757	.0062	.9682	-.0077
6	PREPBLKTJA	-.0024	-.0004	.0051	-.0029
7	S96T001222	-.0081	-.0021	.0230	-.0006
8	S96T001222_D	-.0096	-.0024	.0258	-.0013
9	S96T001222_A	1.971	-.0003	1.999	1.951
10	CCV	4.964	.0050	4.899	4.897
11	CCB	-.0051	-.0014	.0001	-.0057
12	S96T001223	-.0089	-.0023	.0298	.0143
13	S96T001223_D	-.0089	-.0024	.0336	.0180
14	S96T001223_A	1.991	.0004	2.024	1.980
15	ICSA	-.0047	.0056	.0055	-.0093
16	ICSAB	.4743	.0057	.9680	-.0095
17	CCV_1	4.989	.0051	4.905	4.929
18	CCB_1	-.0051	-.0014	-.0000	-.0058

JK
05-24-96

WHC-SD-WM-DP-140, REV. 1

File # 960523B.DAT

04/23/96 08:22
A-0004-1

WHC-SD-WM-DP-140, REV. 1

LABCORE Data Entry Template for Worklist# 7951

Analyst: B. GOECKE **Instrument:** ICP01 _____ **Book#** 53B4P6

Method: LA-505-151/~~161~~ 164 Rev/Mod D-3
5-24-96

Worklist Comment: ICP B-106 (SOLID ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	LLS ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDARL				@ICP-A01	SOLID		
6	PREPBLKARL				@ICP-A01	SOLID		
7	SERDIL	S96T001240	0	A	@ICP-A01	SOLID		
8	SAMPLE	S96T001240	0	A	@ICP-A01	SOLID	95000096	B-106

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	S96T001240	0	A	@ICP-A01	SOLID		
10	SPK-PREDIG	S96T001240	0	A	@ICP-A01	SOLID		
11	CCV				@ICP-QC	QC		
12	CCB				@ICP-QC	QC		
13	SERDIL	S96T001241	0	A	@ICP-A01	SOLID		
14	SAMPLE	S96T001241	0	A	@ICP-A01	SOLID	95000096	B-106

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: Example for calculation of sample results:

S96T001240 $Al = 9.444 \frac{ug}{ml} \times \frac{1}{5.414 \frac{g}{L} \times \frac{1L}{1000 ml}} = 1.74e+3 \frac{ug}{g}$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: $5.414 \frac{g}{L}$ is sample prep dilution factor which can be found in sample prep worklist.

LABCORE Data Entry Template for Worklist# 7951

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			
15	DUP	S96T001241	0	A	@ICP-A01	SOLID		
16	SERDIL	S96T001242	0	A	@ICP-A01	SOLID		
17	SAMPLE	S96T001242	0	A	@ICP-A01	SOLID	95000096	B-106
		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	S96T001242	0	A	@ICP-A01	SOLID		
19	CCV				@ICP-QC	QC		
20	CCB				@ICP-QC	QC		
21	SERDIL	S96T001243	0	A	@ICP-A01	SOLID		
22	SAMPLE	S96T001243	0	A	@ICP-A01	SOLID	95000096	B-106
		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			
23	DUP	S96T001243	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		

Data Entry Comments: Spike true value is 5.0 ppm for all elements except for Ag = 1.0 and U = 10.0 ppm.

Example for calculation of spike recovery:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

S96T001240 $Al = \frac{13.649 - 9.444}{5} \times 100 = 84.1\%$

263

LABCORE Data Entry Template for Worklist# 7951

S Type	Sample#	R A	Test	Matrix	Group#	Project

Final page for worklist # 7951

[signature] 5-29-96

Analyst Signature Date

Analyst Signature Date

		D.F.
PREP STD ANL	DIRECT	1
PREP BLK ANL	DIRECT	1
S96T001240-L	4-6-2-8	12.5
1240	4-6	2.5
1240-D	4-6	2.5
1240-S	4-6	2.5
S96T001241-L	4-6-2-8	12.5
1241	4-6	2.5
1241-D	4-6	2.5
S96T001242-L	4-6-2-8	12.5
1242	4-6	2.5
1242-D	4-6	2.5
S96T001243-L	4-6-2-8	12.5
1243	4-6	2.5
1243-D	4-6	2.5

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Identity 1: ICV Identity 2: Quality Control 2:29 PM May 29, 1996 WHC-SD-WM-DP-140, REV. 1

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	4.921	4.999	4.955	4.797	4.908	5.024	5.001	4.964
S.D.	0.013	0.012	0.022	0.011	0.020	0.012	0.013	0.028
% R.S.D.	0.261	0.248	0.442	0.219	0.404	0.247	0.254	0.560

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.016	4.995	5.048	5.071	4.947	5.018	5.179	9.505
S.D.	0.016	0.017	0.020	0.013	0.013	0.009	0.014	0.032
% R.S.D.	0.328	0.341	0.392	0.260	0.272	0.173	0.267	0.341

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.146	5.013	5.004	5.223	4.972	4.833	5.084	4.938
S.D.	0.022	0.008	0.013	0.068	0.021	0.011	0.011	0.035
% R.S.D.	0.430	0.167	0.264	1.308	0.432	0.235	0.222	0.716

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Tl (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.017	5.168	4.684	4.995	4.876	4.998	5.005	4.960
S.D.	0.015	0.068	0.137	0.013	0.011	0.015	0.014	0.032
% R.S.D.	0.299	1.325	2.927	0.256	0.231	0.295	0.273	0.636

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.009	4.644	5.019	5.166	4.838
S.D.	0.016	0.039	0.013	0.008	0.023
% R.S.D.	0.324	0.837	0.266	0.155	0.475

DJ Gach
5-29-96
B-106 ACID DIGEST
S96T00 1240-43
FILE # 9605298.DAT

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 265 TO 292.

Identity 1: ICB Identity 2: Quality Control 2:32 PM May 29, 1996

WHC-SD-WM-DP-140, REV. 1

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	0.001	0.000	-0.010	0.004	-0.016	0.007	-0.000	0.000
S.D.	0.001	0.000	0.009	0.001	0.002	0.004	0.000	0.000
% R.S.D.	100.526	86.603	91.555	14.559	11.896	49.471	212.366	526.494

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.000	-0.001	0.007	0.002	-0.003	0.002	-0.023	0.072
S.D.	0.000	0.003	0.001	0.001	0.000	0.001	0.008	0.045
% R.S.D.	86.698	350.574	12.511	79.141	5.249	42.812	34.591	62.892

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.003	0.005	0.000	-0.009	0.008	0.000	-0.002	0.007
S.D.	0.013	0.010	0.000	0.009	0.007	0.000	0.001	0.002
% R.S.D.	365.117	197.270	153.216	111.033	92.773	86.603	47.207	33.333

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.013	0.055	-0.010	0.001	-0.000	0.006	0.063
S.D.	0.001	0.005	0.004	0.005	0.000	0.001	0.001	0.017
% R.S.D.	208.203	38.348	7.342	47.456	42.521	211.763	21.501	26.388

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	-0.000	-0.003	0.000	-0.068
S.D.	0.000	0.027	0.001	0.000	0.030
% R.S.D.	1.399	9573.216	22.457	85.727	44.107

Identity 1: LLS Identity 2: Quality Control 2:36 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.025	0.021	0.190	0.132	0.095	0.044	0.021	0.021
S.D.	0.001	0.000	0.010	0.002	0.002	0.002	0.000	0.000
% R.S.D.	2.637	0.635	5.299	1.837	2.467	4.031	0.519	0.610

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.021	0.041	0.108	0.107	0.191	0.020	0.180	0.588
S.D.	0.001	0.003	0.002	0.004	0.000	0.001	0.005	0.032
% R.S.D.	2.924	8.526	2.073	4.201	0.259	6.075	2.723	5.376

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.196	0.214	0.103	0.370	0.186	0.194	0.199	0.219
S.D.	0.007	0.004	0.000	0.025	0.003	0.000	0.007	0.000
% R.S.D.	3.486	2.065	0.235	6.672	1.673	0.050	3.522	0.000

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.101	0.204	0.023	0.187	0.022	0.010	0.105	0.495
S.D.	0.001	0.009	0.001	0.003	0.000	0.000	0.002	0.013
% R.S.D.	0.710	4.403	2.296	1.748	1.674	3.762	1.469	2.554

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.021	0.069	0.100	0.012	0.361
S.D.	0.000	0.013	0.001	0.000	0.014
% R.S.D.	1.638	18.790	0.651	1.956	3.863

Identity 1: ICSA Identity 2: Quality Control 2:39 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.002	0.003	-0.029	0.010	196.000	0.006	0.002	0.002
S.D.	0.001	0.000	0.006	0.001	0.048	0.002	0.000	0.000
% R.S.D.	73.499	2.564	19.924	7.983	0.025	28.318	18.709	10.014

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.006	0.003	0.007	96.862	104.325	0.002	0.014	-0.001
S.D.	0.000	0.001	0.003	0.114	0.070	0.001	0.003	0.042
% R.S.D.	3.188	33.466	40.391	0.118	0.067	39.079	23.036	3447.558

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.044	0.021	0.005	0.024	-0.043	102.364	0.031	190.797
S.D.	0.012	0.008	0.000	0.010	0.008	0.141	0.002	0.328
% R.S.D.	27.169	37.758	3.504	42.844	18.288	0.138	5.930	0.172

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.030	0.004	0.006	0.001	-0.000	0.016	0.014
S.D.	0.000	0.007	0.001	0.005	0.000	0.001	0.001	0.024
% R.S.D.	60.265	24.051	23.036	75.543	13.837	398.054	7.247	170.115

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	0.057	0.001	0.003	-0.000
S.D.	0.000	0.003	0.001	0.000	0.026
% R.S.D.	0.879	5.357	62.855	8.805	582423.164

Identity 1: ICSAB Identity 2: Quality Control 2:43 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-0.002	0.002	-0.042	0.010	197.630	0.492	0.501	0.964
S.D.	0.003	0.000	0.009	0.003	0.937	0.005	0.003	0.012
% R.S.D.	164.703	11.631	20.966	31.522	0.474	0.960	0.634	1.254

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.996	0.981	0.009	97.416	105.124	0.503	-0.006	0.112
S.D.	0.001	0.002	0.001	0.289	0.324	0.003	0.002	0.086
% R.S.D.	0.088	0.241	15.534	0.297	0.308	0.530	24.333	76.735

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.014	0.032	0.511	0.011	0.004	104.292	0.020	193.585
S.D.	0.018	0.018	0.002	0.009	0.008	0.058	0.008	2.264
% R.S.D.	125.990	55.808	0.434	86.305	214.153	0.055	38.172	1.170

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.002	0.010	1.011	1.005	0.001	0.997	0.015	0.038
S.D.	0.001	0.008	0.002	0.007	0.001	0.003	0.001	0.025
% R.S.D.	56.515	81.344	0.206	0.712	46.168	0.318	8.576	65.605

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.507	0.020	0.495	0.505	-0.015
S.D.	0.002	0.024	0.001	0.001	0.036
% R.S.D.	0.299	118.837	0.222	0.115	245.057

Identity 1: prepstdarl Identity 2: direct 2:48 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	5.277	4.976	4.864	8.829	5.093	5.027	4.832	4.963
S.D.	0.013	0.011	0.019	0.022	0.007	0.016	0.008	0.003
% R.S.D.	0.248	0.217	0.401	0.254	0.146	0.326	0.173	0.067

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	4.791	5.060	5.115	5.102	5.008	4.935	5.265	9.629
S.D.	0.014	0.013	0.013	0.013	0.013	0.013	0.014	0.047
% R.S.D.	0.287	0.256	0.257	0.248	0.255	0.263	0.272	0.493

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.198	5.048	4.998	5.386	4.974	4.719	5.015	6.051
S.D.	0.017	0.010	0.012	0.189	0.052	0.009	0.016	0.005
% R.S.D.	0.324	0.206	0.235	3.506	1.043	0.195	0.325	0.079

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.867	5.010	0.958	4.883	4.591	4.916	5.783	5.233
S.D.	0.007	0.012	0.002	0.021	0.010	0.008	0.011	0.021
% R.S.D.	0.141	0.246	0.224	0.435	0.217	0.156	0.183	0.399

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	4.972	4.985	4.942	5.475	4.756
S.D.	0.010	0.019	0.013	0.015	0.017
% R.S.D.	0.204	0.390	0.253	0.279	0.359

Identity 1: prepblkarl Identity 2: direct 2:53 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.004	0.001	0.009	1.250	0.135	0.009	0.005	0.002
S.D.	0.001	0.000	0.008	0.001	0.005	0.000	0.000	0.001
% R.S.D.	28.285	34.317	88.289	0.076	3.506	0.059	6.902	31.594

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.014	0.002	0.005	0.064	0.424	0.008	-0.012	0.085
S.D.	0.000	0.001	0.002	0.002	0.004	0.001	0.014	0.042
% R.S.D.	3.282	64.741	31.758	2.570	0.839	6.261	114.804	49.881

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.021	0.028	0.002	0.015	0.115	0.028	0.001	0.785
S.D.	0.009	0.007	0.001	0.012	0.008	0.004	0.001	0.006
% R.S.D.	40.928	25.332	33.932	77.984	7.005	13.738	43.876	0.737

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.003	0.007	-0.015	0.002	0.002	0.557	0.384
S.D.	0.000	0.001	0.003	0.007	0.001	0.000	0.004	0.017
% R.S.D.	66.714	44.257	37.855	51.276	30.213	6.704	0.721	4.347

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.002	0.025	0.001	0.002	-0.022
S.D.	0.000	0.010	0.001	0.001	0.005
% R.S.D.	19.316	38.854	55.537	37.862	25.124

Identity 1: S96T001240_L Identity 2: 4ml-6ml-2ml-8ml 2:58 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 12.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.066	2.102	1.961	2.840	9.596	-0.006	0.131	0.022
S.D.	0.013	0.005	0.050	0.042	0.111	0.000	0.005	0.004
% R.S.D.	20.178	0.259	2.570	1.477	1.161	1.419	3.846	16.679

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.522	0.256	0.106	88.686	18.512	0.909	0.009	47.689
S.D.	0.008	0.016	0.011	0.435	0.055	0.019	0.106	0.680
% R.S.D.	1.456	6.249	10.142	0.490	0.295	2.111	1162.712	1.425

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.199	0.215	0.222	122.319	26.251	4.599	0.050	524.670
S.D.	0.143	0.140	0.003	3.229	0.573	0.016	0.045	3.030
% R.S.D.	72.042	65.056	1.220	2.640	2.181	0.347	90.848	0.578

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Tl (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.008	0.422	-0.002	1.939	0.515	0.040	1.072	1.126
S.D.	0.017	0.113	0.014	0.145	0.009	0.013	0.021	0.201
% R.S.D.	198.244	26.685	730.376	7.497	1.729	32.411	1.973	17.810

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.914	0.328	0.017	0.014	-0.724
S.D.	0.002	0.351	0.017	0.002	0.362
% R.S.D.	0.233	106.909	97.180	12.621	50.065

Identity 1: S96T001240 Identity 2: 4ml-6ml 3:02 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.022	2.080	1.839	2.744	9.444	0.028	0.133	0.016
S.D.	0.004	0.008	0.041	0.006	0.026	0.004	0.001	0.001
% R.S.D.	19.051	0.367	2.252	0.214	0.279	16.109	1.009	4.373

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.471	0.234	0.063	88.319	18.602	0.925	0.141	45.673
S.D.	0.001	0.004	0.004	0.139	0.056	0.009	0.010	0.118
% R.S.D.	0.233	1.549	5.830	0.158	0.302	0.962	6.991	0.257

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.113	0.018	0.214	121.369	26.360	4.463	0.007	504.865
S.D.	0.035	0.022	0.001	1.378	0.155	0.006	0.009	1.424
% R.S.D.	31.272	125.281	0.308	1.135	0.589	0.141	122.850	0.282

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Tl (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.004	0.086	0.002	1.834	0.489	0.003	1.050	1.479
S.D.	0.003	0.026	0.001	0.028	0.001	0.002	0.002	0.025
% R.S.D.	68.382	29.964	65.590	1.550	0.126	70.168	0.233	1.712

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.898	-0.088	0.026	0.001	-0.110
S.D.	0.002	0.003	0.000	0.000	0.099
% R.S.D.	0.175	3.275	1.936	35.741	90.399

Identity 1: S96T001240_D Identity 2: 4ml-6ml 3:05 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140 REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.022	1.993	1.749	3.181	8.998	0.005	0.132	0.016
S.D.	0.002	0.005	0.028	0.004	0.013	0.004	0.001	0.001
% R.S.D.	8.904	0.265	1.580	0.111	0.143	94.852	0.706	4.323

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.445	0.220	0.053	82.333	17.776	0.880	0.140	43.416
S.D.	0.004	0.003	0.006	0.160	0.066	0.009	0.008	0.123
% R.S.D.	0.816	1.413	10.643	0.194	0.374	1.015	5.579	0.284

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.148	-0.013	0.206	117.143	25.452	4.178	-0.005	489.261
S.D.	0.013	0.019	0.000	1.210	0.190	0.006	0.004	0.376
% R.S.D.	8.673	144.751	0.115	1.033	0.748	0.144	69.642	0.077

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.006	0.007	0.005	1.764	0.461	0.003	1.061	1.182
S.D.	0.001	0.042	0.001	0.026	0.000	0.002	0.004	0.029
% R.S.D.	15.968	602.156	27.434	1.461	0.094	62.593	0.378	2.465

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.829	-0.011	0.026	0.000	-0.170
S.D.	0.004	0.038	0.002	0.001	0.034
% R.S.D.	0.490	361.496	7.459	196.831	20.089

Identity 1: S96T001240_S Identity 2: 4ml-6ml 3:08 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	2.285	6.891	6.513	11.346	13.649	4.982	4.947	4.890
S.D.	0.005	0.023	0.020	0.013	0.039	0.009	0.019	0.039
% R.S.D.	0.237	0.329	0.306	0.119	0.289	0.180	0.386	0.796

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.222	5.202	5.120	84.928	22.441	5.728	5.355	51.169
S.D.	0.019	0.023	0.013	0.186	0.079	0.001	0.015	0.248
% R.S.D.	0.361	0.434	0.250	0.219	0.353	0.016	0.272	0.484

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.320	4.976	5.177	115.097	29.850	8.699	5.026	485.363
S.D.	0.014	0.011	0.019	1.681	0.177	0.016	0.079	3.465
% R.S.D.	0.260	0.212	0.369	1.461	0.592	0.182	1.562	0.714

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.887	4.970	0.954	6.640	5.060	4.842	5.979	6.342
S.D.	0.010	0.023	0.002	0.061	0.014	0.010	0.021	0.037
% R.S.D.	0.205	0.461	0.252	0.912	0.267	0.212	0.352	0.587

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.706	4.943	4.910	5.138	4.707
S.D.	0.014	0.072	0.010	0.013	0.034
% R.S.D.	0.247	1.460	0.196	0.259	0.732

Identity 1: CCV Identity 2: Quality Control 4:12 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.994	5.092	5.056	4.839	4.947	5.008	5.136	5.187
S.D.	0.004	0.007	0.013	0.003	0.009	0.006	0.011	0.030
% R.S.D.	0.070	0.140	0.252	0.061	0.182	0.124	0.220	0.583

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.012	5.014	5.143	5.125	5.048	5.027	5.431	9.865
S.D.	0.007	0.005	0.005	0.030	0.006	0.012	0.036	0.029
% R.S.D.	0.130	0.094	0.091	0.592	0.114	0.241	0.666	0.295

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.230	5.167	5.117	5.333	5.044	4.824	5.126	5.125
S.D.	0.016	0.010	0.008	0.098	0.036	0.005	0.010	0.025
% R.S.D.	0.300	0.188	0.160	1.844	0.723	0.094	0.191	0.494

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.010	5.268	4.906	5.044	4.926	5.019	5.112	5.162
S.D.	0.020	0.027	0.005	0.017	0.003	0.008	0.017	0.027
% R.S.D.	0.400	0.509	0.105	0.339	0.070	0.159	0.340	0.519

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.028	4.743	5.047	5.234	4.858
S.D.	0.005	0.015	0.003	0.011	0.025
% R.S.D.	0.101	0.311	0.061	0.206	0.505

Identity 1: CCB Identity 2: Quality Control 4:15 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.002	0.002	0.005	0.003	-0.008	0.007	0.003	0.003
S.D.	0.001	0.001	0.003	0.003	0.004	0.002	0.001	0.001
% R.S.D.	30.370	42.904	46.464	114.090	51.927	24.761	27.642	30.829

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.002	-0.000	0.005	0.001	-0.001	0.007	0.010	-0.029
S.D.	0.001	0.002	0.001	0.001	0.001	0.002	0.008	0.025
% R.S.D.	63.976	620.713	15.641	205.627	90.796	31.260	76.013	85.040

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.038	0.004	0.003	0.001	0.004	0.002	0.009	0.022
S.D.	0.006	0.002	0.001	0.003	0.001	0.001	0.004	0.001
% R.S.D.	15.667	45.423	33.044	281.033	26.748	47.209	50.969	5.971

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.009	0.008	-0.007	0.002	0.003	0.007	0.051
S.D.	0.001	0.006	0.001	0.010	0.001	0.001	0.002	0.015
% R.S.D.	38.187	70.049	11.183	144.133	31.190	29.872	21.701	30.381

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.003	0.007	0.003	0.003	0.027
S.D.	0.001	0.053	0.001	0.001	0.003
% R.S.D.	46.595	722.591	37.974	43.498	10.556

Identity 1: S96T001241_L Identity 2: 4ml-6ml-2ml-8ml 4:20 PM May 29, 1996

WHC-SD-WM-DP-142, REV. 1

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 12.50

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	0.060	2.064	1.182	2.438	2.152	0.053	0.092	0.056
S.D.	0.013	0.007	0.036	0.035	0.019	0.022	0.004	0.005
% R.S.D.	21.080	0.318	3.043	1.437	0.890	42.113	4.733	9.280

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.368	0.268	0.082	69.238	3.491	0.521	-0.319	89.327
S.D.	0.004	0.024	0.042	0.405	0.014	0.019	0.016	0.277
% R.S.D.	1.124	9.104	51.138	0.585	0.397	3.566	4.873	0.310

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.159	0.180	0.173	89.408	24.919	0.969	0.086	482.853
S.D.	0.106	0.088	0.002	0.616	0.126	0.002	0.078	2.103
% R.S.D.	66.456	48.993	1.397	0.689	0.504	0.251	90.948	0.436

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.023	0.111	0.020	1.511	0.086	0.022	1.079	1.137
S.D.	0.024	0.069	0.008	0.031	0.003	0.013	0.001	0.117
% R.S.D.	107.090	62.121	39.528	2.045	4.053	58.024	0.119	10.326

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.319	0.542	0.037	0.018	-0.447
S.D.	0.006	0.306	0.019	0.002	0.125
% R.S.D.	2.018	56.469	52.284	9.407	27.981

Identity 1: S96T001241 Identity 2: 4ml-6ml 4:23 PM May 29, 1996

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 2.50

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.012	2.084	0.946	2.350	2.294	0.027	0.093	0.046
S.D.	0.002	0.007	0.010	0.014	0.019	0.000	0.000	0.000
% R.S.D.	18.234	0.357	1.041	0.580	0.839	0.174	0.293	0.233

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.362	0.226	0.016	69.713	3.598	0.512	0.089	89.271
S.D.	0.001	0.009	0.006	0.236	0.014	0.008	0.042	0.370
% R.S.D.	0.289	4.122	38.526	0.338	0.386	1.483	46.837	0.414

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.197	-0.104	0.162	88.498	25.091	0.967	0.025	475.815
S.D.	0.011	0.027	0.000	2.017	0.166	0.002	0.008	1.643
% R.S.D.	5.742	25.731	0.208	2.279	0.660	0.241	32.478	0.345

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.028	0.016	1.419	0.052	0.006	1.053	1.102
S.D.	0.001	0.036	0.002	0.043	0.001	0.002	0.005	0.042
% R.S.D.	296.723	131.444	13.669	3.064	1.769	39.862	0.474	3.790

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.313	0.055	0.047	-0.001	-0.032
S.D.	0.004	0.040	0.003	0.001	0.032
% R.S.D.	1.413	72.992	6.896	126.083	99.043

Identity 1: S96T001241_D Identity 2: 4ml-6ml 4:27 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.019	1.933	0.908	1.952	2.126	0.010	0.097	0.041
S.D.	0.000	0.003	0.023	0.004	0.018	0.004	0.001	0.000
% R.S.D.	1.645	0.165	2.485	0.194	0.833	44.508	1.200	0.529

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.363	0.219	0.020	64.954	3.402	0.477	0.043	82.706
S.D.	0.001	0.002	0.006	0.176	0.003	0.007	0.019	0.137
% R.S.D.	0.280	0.927	31.241	0.272	0.098	1.385	44.612	0.166

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.168	-0.121	0.148	85.926	24.358	0.916	0.029	446.590
S.D.	0.022	0.017	0.000	1.097	0.148	0.002	0.011	3.064
% R.S.D.	13.126	14.140	0.104	1.276	0.606	0.208	37.563	0.686

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.000	0.023	0.014	1.383	0.052	0.002	0.849	1.251
S.D.	0.000	0.008	0.001	0.021	0.001	0.001	0.008	0.034
% R.S.D.	160.296	34.713	7.488	1.483	1.281	61.551	0.888	2.743

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.298	-0.076	0.055	-0.000	-0.014
S.D.	0.001	0.079	0.002	0.001	0.049
% R.S.D.	0.382	103.802	4.396	125.208	355.774

Identity 1: S96T001242_L Identity 2: 4ml-6ml-2ml-8ml 4:31 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 12.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	57.772	0.635	-0.416	8.044	667.458	-0.011	0.136	0.013
S.D.	0.069	0.001	0.066	0.013	0.409	0.000	0.001	0.001
% R.S.D.	0.119	0.149	15.800	0.156	0.061	0.122	0.968	4.096

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.406	3.620	0.604	44.629	4.536	13.088	0.375	87.323
S.D.	0.005	0.050	0.021	0.089	0.010	0.031	0.100	0.107
% R.S.D.	1.257	1.373	3.466	0.199	0.222	0.238	26.531	0.123

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.732	0.178	0.294	0.596	5.001	1.296	-0.122	244.188
S.D.	0.064	0.047	0.001	0.060	0.118	0.001	0.043	0.968
% R.S.D.	8.809	26.474	0.273	10.055	2.367	0.094	35.593	0.396

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.130	-0.314	0.613	4.757	0.195	0.261	0.344	2.931
S.D.	0.013	0.026	0.002	0.119	0.004	0.003	0.011	0.039
% R.S.D.	10.319	8.132	0.351	2.505	2.123	1.239	3.165	1.318

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	41.865	0.410	0.328	0.050	-0.897
S.D.	0.088	0.160	0.012	0.004	0.121
% R.S.D.	0.210	39.069	3.606	8.960	13.539

Identity 1: S96T001242 Identity 2: 4ml-6ml 4:34 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	57.021	0.623	-0.299	7.989	665.092	0.046	0.150	0.018
S.D.	0.073	0.001	0.015	0.013	1.293	0.004	0.000	0.000
% R.S.D.	0.128	0.171	4.988	0.159	0.194	9.715	0.186	2.733

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.396	3.575	0.548	44.250	4.523	13.068	0.590	85.165
S.D.	0.004	0.008	0.004	0.125	0.006	0.033	0.013	0.109
% R.S.D.	0.972	0.235	0.672	0.283	0.131	0.254	2.163	0.128

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.870	-0.066	0.289	0.491	4.873	1.286	-0.003	233.653
S.D.	0.023	0.019	0.000	0.037	0.035	0.003	0.015	0.158
% R.S.D.	2.593	29.327	0.163	7.525	0.718	0.270	563.656	0.068

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.125	0.196	0.623	4.890	0.187	0.257	0.325	2.969
S.D.	0.003	0.052	0.003	0.044	0.001	0.004	0.001	0.041
% R.S.D.	2.270	26.841	0.517	0.905	0.515	1.393	0.401	1.377

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	41.527	-0.092	0.325	0.051	-0.240
S.D.	0.034	0.035	0.005	0.000	0.039
% R.S.D.	0.082	38.088	1.478	0.688	16.380

Identity 1: S96T001242_D Identity 2: 4ml-6ml 4:37 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140 REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	60.201	0.641	-0.207	4.913	700.383	0.030	0.150	0.018
S.D.	0.129	0.001	0.016	0.014	0.577	0.004	0.002	0.000
% R.S.D.	0.215	0.111	7.524	0.288	0.082	14.738	1.051	2.105

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.420	3.756	0.601	48.664	5.156	13.693	0.593	86.717
S.D.	0.003	0.016	0.000	0.099	0.009	0.023	0.025	0.157
% R.S.D.	0.648	0.418	0.014	0.204	0.179	0.167	4.289	0.182

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.902	-0.002	0.310	0.354	5.256	1.370	-0.040	251.361
S.D.	0.005	0.007	0.001	0.015	0.036	0.003	0.005	1.722
% R.S.D.	0.567	398.849	0.177	4.303	0.694	0.234	13.889	0.685

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.133	0.327	0.621	5.261	0.208	0.278	0.341	3.046
S.D.	0.005	0.008	0.004	0.055	0.001	0.002	0.003	0.013
% R.S.D.	4.041	2.476	0.576	1.045	0.507	0.697	0.778	0.440

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	45.115	0.020	0.328	0.053	-0.298
S.D.	0.117	0.104	0.002	0.001	0.017
% R.S.D.	0.260	530.339	0.644	1.713	5.735

Identity 1: CCV Identity 2: Quality Control 4:40 PM May 29, 1996

Task name : OPTIMA

WHC-SD-WM-DP-140, REV. 1

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	5.010	5.081	5.022	4.839	5.131	4.972	5.140	5.171
S.D.	0.009	0.003	0.027	0.012	0.045	0.006	0.004	0.025
% R.S.D.	0.174	0.055	0.535	0.252	0.881	0.130	0.078	0.480

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	4.981	5.002	5.150	5.167	5.054	5.003	5.467	9.923
S.D.	0.008	0.011	0.009	0.003	0.001	0.009	0.021	0.029
% R.S.D.	0.156	0.216	0.176	0.050	0.030	0.174	0.386	0.297

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.176	5.188	5.112	5.407	5.043	4.797	5.093	5.234
S.D.	0.006	0.005	0.003	0.029	0.047	0.012	0.038	0.006
% R.S.D.	0.113	0.095	0.059	0.538	0.924	0.246	0.755	0.116

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.973	5.227	2.959	5.027	4.909	4.994	5.130	5.225
S.D.	0.009	0.009	0.015	0.011	0.006	0.022	0.011	0.005
% R.S.D.	0.188	0.168	0.513	0.213	0.131	0.446	0.208	0.102

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.027	4.850	5.046	5.239	4.866
S.D.	0.010	0.083	0.008	0.006	0.026
% R.S.D.	0.193	1.711	0.158	0.112	0.525

Identity 1: CCB Identity 2: Quality Control 4:42 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.007	0.001	0.005	0.005	0.070	0.005	0.001	0.001
S.D.	0.001	0.000	0.004	0.002	0.002	0.002	0.000	0.001
% R.S.D.	8.181	38.413	72.884	40.507	2.438	34.769	32.583	46.106

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.000	0.003	0.004	-0.002	0.002	-0.008	0.062
S.D.	0.000	0.002	0.001	0.002	0.000	0.000	0.004	0.034
% R.S.D.	71.448	1061.492	28.607	46.397	30.405	19.458	46.272	53.947

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.015	0.002	0.002	0.007	0.001	0.001	-0.001	0.063
S.D.	0.011	0.008	0.000	0.008	0.002	0.001	0.003	0.004
% R.S.D.	71.167	451.083	32.770	106.893	349.187	83.320	234.588	5.588

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.001	0.152	-0.041	0.001	0.001	0.004	0.014
S.D.	0.001	0.013	0.009	0.004	0.001	0.001	0.001	0.024
% R.S.D.	60.241	1198.033	5.857	9.261	41.133	66.561	12.616	168.031

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	0.049	0.000	0.001	-0.017
S.D.	0.001	0.035	0.001	0.000	0.021
% R.S.D.	11.137	71.229	1677.302	25.039	125.986

Identity 1: S96T001243_L Identity 2: 4ml-6ml-2ml-8ml 4:45 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 12.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	1.261	0.929	107.924	20.366	94.018	0.073	0.120	0.175
S.D.	0.020	0.002	0.306	0.013	0.207	0.000	0.003	0.004
% R.S.D.	1.567	0.254	0.284	0.065	0.220	0.006	2.398	2.155

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.688	0.110	0.035	48.856	1.683	4.572	-0.106	33.848
S.D.	0.005	0.023	0.010	0.214	0.002	0.012	0.135	0.035
% R.S.D.	0.737	21.116	29.974	0.437	0.105	0.272	127.506	0.102

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.202	0.143	0.038	114.475	29.941	1.233	0.067	661.304
S.D.	0.077	0.042	0.003	3.467	0.559	0.004	0.029	1.649
% R.S.D.	6.437	29.284	7.071	3.029	1.867	0.355	43.445	0.249

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.017	0.213	0.721	0.606	0.060	0.019	6.988	1.954
S.D.	0.010	0.042	0.007	0.073	0.007	0.011	0.045	0.051
% R.S.D.	62.099	19.673	0.953	12.071	11.912	60.585	0.649	2.613

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.224	0.258	0.012	0.007	0.049
S.D.	0.009	0.073	0.011	0.003	0.023
% R.S.D.	4.200	28.438	93.048	41.080	46.240

Identity 1: S96T001243 Identity 2: 4ml-6ml 4:48 PM May 29, 1996

WHC-SD-WM-DP-142, REV. 1

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 2.50

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	1.197	0.945	109.673	20.710	95.780	0.009	0.121	0.162
S.D.	0.005	0.002	0.148	0.021	0.169	0.004	0.001	0.000
% R.S.D.	0.436	0.239	0.135	0.101	0.176	51.849	0.578	0.240

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.654	0.089	0.032	49.006	1.747	4.632	-0.043	33.528
S.D.	0.002	0.004	0.002	0.048	0.005	0.006	0.013	0.033
% R.S.D.	0.235	4.743	6.518	0.098	0.260	0.130	30.871	0.097

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.964	-0.009	0.028	116.869	30.591	1.242	0.009	655.065
S.D.	0.036	0.023	0.001	1.316	0.196	0.002	0.013	3.842
% R.S.D.	3.686	266.752	2.455	1.126	0.640	0.129	142.229	0.586

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.093	0.722	0.678	0.050	0.002	6.942	1.130
S.D.	0.001	0.032	0.006	0.020	0.001	0.001	0.031	0.051
% R.S.D.	53.611	34.536	0.789	2.941	2.792	31.744	0.443	4.482

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.180	0.050	0.016	0.002	-0.063
S.D.	0.002	0.040	0.003	0.000	0.041
% R.S.D.	1.342	80.621	21.501	0.171	64.584

Identity 1: S96T001243_D Identity 2: 4ml-6ml 4:51 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	1.069	0.746	93.687	35.694	67.024	0.016	0.098	0.139
S.D.	0.003	0.002	0.237	0.051	0.175	0.004	0.001	0.001
% R.S.D.	0.285	0.241	0.253	0.144	0.261	28.642	0.665	0.544

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.503	0.070	0.016	40.699	1.487	3.794	-0.027	19.381
S.D.	0.001	0.001	0.004	0.047	0.005	0.018	0.008	0.029
% R.S.D.	0.232	1.821	22.565	0.115	0.361	0.487	28.877	0.150

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.826	-0.053	0.027	99.045	28.797	0.987	0.005	581.440
S.D.	0.025	0.025	0.000	1.872	0.218	0.000	0.011	3.538
% R.S.D.	3.026	47.227	0.890	1.890	0.755	0.000	214.768	0.608

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.059	0.905	0.625	0.035	0.001	3.661	1.046
S.D.	0.003	0.078	0.010	0.016	0.001	0.002	0.008	0.043
% R.S.D.	138.347	132.306	1.135	2.618	1.677	120.589	0.231	4.157

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.141	0.086	0.019	0.001	0.012
S.D.	0.001	0.047	0.003	0.000	0.047
% R.S.D.	0.613	54.623	13.822	24.493	380.898

Identity 1: ICSA Identity 2: Quality Control 4:53 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.004	0.002	-0.010	0.014	197.182	0.002	0.001	0.001
S.D.	0.000	0.000	0.013	0.001	0.397	0.002	0.000	0.000
% R.S.D.	8.983	3.464	134.280	5.654	0.201	81.745	44.255	7.578

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.005	0.003	0.008	97.890	104.889	0.003	0.005	0.068
S.D.	0.000	0.003	0.001	0.164	0.180	0.003	0.006	0.025
% R.S.D.	6.517	76.930	11.138	0.167	0.172	105.927	122.842	37.219

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.015	0.024	0.004	0.043	-0.027	102.950	0.009	191.775
S.D.	0.007	0.005	0.000	0.012	0.013	0.180	0.005	0.445
% R.S.D.	46.859	19.886	1.754	28.639	47.788	0.175	52.395	0.232

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.018	0.015	-0.016	0.001	0.000	0.015	0.098
S.D.	0.001	0.005	0.000	0.005	0.000	0.001	0.002	0.017
% R.S.D.	37.588	29.621	2.941	33.974	34.223	1185.731	12.074	17.030

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	0.043	-0.000	0.003	0.016
S.D.	0.000	0.020	0.000	0.000	0.006
% R.S.D.	3.200	46.306	63.084	9.135	41.373

Identity 1: ICSAB Identity 2: Quality Control 4:58 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-0.000	0.002	-0.015	0.012	198.370	0.489	0.509	0.972
S.D.	0.000	0.000	0.012	0.004	0.340	0.004	0.001	0.004
% R.S.D.	233.831	1.767	78.224	28.506	0.171	0.733	0.220	0.447

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.983	0.980	0.007	98.356	105.999	0.499	0.008	0.113
S.D.	0.002	0.001	0.002	0.163	0.101	0.002	0.013	0.004
% R.S.D.	0.228	0.140	31.335	0.166	0.095	0.489	153.284	3.713

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.005	0.053	0.519	-0.000	-0.027	102.946	0.016	195.380
S.D.	0.006	0.003	0.001	0.007	0.016	0.182	0.002	0.669
% R.S.D.	109.525	6.156	0.202	8862.133	58.741	0.177	14.391	0.342

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.002	0.005	0.801	0.972	0.001	0.995	0.013	-0.005
S.D.	0.001	0.019	0.038	0.016	0.001	0.002	0.001	0.013
% R.S.D.	30.220	346.720	4.778	1.605	56.623	0.211	9.736	257.181

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.506	0.010	0.497	0.508	-0.012
S.D.	0.001	0.045	0.001	0.002	0.006
% R.S.D.	0.189	451.533	0.224	0.341	51.873

Identity 1: CCV Identity 2: Quality Control 5:00 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-142, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.969	5.066	5.003	4.813	5.060	4.974	5.121	5.156
S.D.	0.005	0.003	0.009	0.009	0.037	0.006	0.007	0.006
% R.S.D.	0.101	0.067	0.173	0.177	0.726	0.125	0.138	0.114

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	4.982	4.987	5.124	5.170	5.077	4.992	5.447	9.876
S.D.	0.013	0.025	0.012	0.019	0.017	0.009	0.010	0.028
% R.S.D.	0.261	0.502	0.225	0.369	0.340	0.173	0.175	0.286

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.193	5.143	5.096	5.273	5.019	4.839	5.085	5.284
S.D.	0.007	0.012	0.004	0.060	0.010	0.018	0.036	0.055
% R.S.D.	0.136	0.237	0.086	1.133	0.191	0.370	0.711	1.032

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.973	5.233	3.753	5.011	4.898	4.986	5.104	5.207
S.D.	0.015	0.022	0.154	0.030	0.006	0.007	0.020	0.015
% R.S.D.	0.295	0.414	4.113	0.602	0.115	0.146	0.387	0.283

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	4.996	4.786	5.030	5.217	4.888
S.D.	0.013	0.058	0.004	0.009	0.015
% R.S.D.	0.260	1.222	0.087	0.176	0.314

Identity 1: CCB Identity 2: Quality Control 5:03 PM May 29, 1996

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.003	0.000	-0.015	0.010	0.019	0.004	0.000	0.000
S.D.	0.001	0.000	0.012	0.004	0.004	0.002	0.000	0.000
% R.S.D.	20.685	43.301	76.505	42.661	18.951	43.448	168.481	66.675

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.000	0.002	0.003	0.012	0.008	-0.000	-0.010	0.156
S.D.	0.000	0.002	0.001	0.003	0.001	0.001	0.000	0.022
% R.S.D.	47.651	133.047	41.749	20.666	8.883	2083.665	3.050	14.207

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.008	0.014	0.000	0.005	-0.005	0.010	-0.000	0.061
S.D.	0.006	0.002	0.000	0.007	0.002	0.001	0.004	0.001
% R.S.D.	65.645	14.212	40.522	125.670	51.825	6.590	72181.189	2.165

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	0.017	0.284	0.006	0.002	0.002	0.003	0.083
S.D.	0.001	0.014	0.008	0.015	0.000	0.001	0.000	0.006
% R.S.D.	35.250	79.309	2.709	265.026	21.499	34.308	7.830	6.714

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.001	-0.002	0.000	-0.018
S.D.	0.000	0.040	0.001	0.000	0.005
% R.S.D.	0.314	3597.894	29.382	48.319	26.448

THIS PAGE WAS INTENTIONALLY LEFT BLANK

THIS PAGE WAS INTENTIONALLY LEFT BLANK

THIS PAGE WAS INTENTIONALLY LEFT BLANK

THIS PAGE WAS INTENTIONALLY LEFT BLANK

THIS PAGE WAS INTENTIONALLY LEFT BLANK

THIS PAGE WAS INTENTIONALLY LEFT BLANK

File #: 960508a

WHC-SD-WM-DP-142, REV. 1

LABCORE Data Entry Template for Worklist# 8467

Analyst: JK **Instrument:** ICP01 #38-96 **Book#** 536486

Method: LA-505-~~151~~/161 Rev/Mod B-0

Worklist Comment: #5-8-96 ICP B-106 (SOLID WATER 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	PREPBLKTJA				@ICP-I01	SOLID		
6	SERDIL	S96T001648	0	I	@ICP-I01	SOLID		
7	SAMPLE	S96T001648	0	I	@ICP-I01	SOLID	95000096	B-106
		Analytes Requested:			AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01			
8	DUP	S96T001648	0	I	@ICP-I01	SOLID		
9	SPK	S96T001648	0	I	@ICP-I01	SOLID		
10	ICSA				@ICP-QC	QC		
11	ICSAB				@ICP-QC	QC		
12	CCV				@ICP-QC	QC		
13	CCB				@ICP-QC	QC		

Data Entry Comments: Raw data are already multiplied by ICP dil. Factor but not w/ sample prep dil Factor. Example for calculation of Sample results:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: prep dilFactor can be found w/ prep worklist.

$$Al = 0.7389\ ug/ml \times \frac{1}{4.756\ \frac{g}{L} \times \frac{1\ L}{1000\ ml}} = 1.55e2\ \frac{ug}{g}$$

WHC-SD-WM-DP-140, REV. 1

05/08/96 06:52
A-0004-1

LABCORE Data Entry Template for Worklist# 8467

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 8467

Reviewed by:

Analyst Signature: [signature] Date: 05-08-96

Analyst Signature: [signature] Date: 5/9/96

prepblkTJa, direct
S96T001648_L, 2-8 ml, JF5
S96T001648 direct ~~1.25~~ 1.0 [signature] 5/9/96
S96T001648_D direct ~~1.25~~ 1.0
S96T001648,a direct 1.25, 4 ml sample + 1 ml SSTS

Data Entry Comments: actual Spiking Amount for all elements is 1.0 ppm except U = 2.0 ppm. ICP dilution factors are listed above.

Example of spike Recovery:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

$$al = \frac{\left(\frac{1.967}{1.25}\right) - \left(\frac{0.7385}{1.25}\right)}{1} \times 100 = \cancel{98.5\%}\ 98.25\%$$

300

[signature] 5/9/96

Analysis Report Sumiary Wed 05-08-96 09:53:50 AM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960508A	ICP2	05/08/96	09:07	DKS	Q	CONC
2	ICB	960508A	ICP2	05/08/96	09:10	DKS	Q	CONC
3	ICSA	960508A	ICP2	05/08/96	09:13	DKS	Q	CONC
4	ICSAB	960508A	ICP2	05/08/96	09:16	DKS	Q	CONC
5	PREPBLKTJA	960508A	ICP2	05/08/96	09:20	DKS	S	CONC
6	S96T001648_L	960508A	ICP2	05/08/96	09:24	DKS	S	CONC
7	S96T001648	960508A	ICP2	05/08/96	09:27	DKS	S	CONC
8	S96T001648_D	960508A	ICP2	05/08/96	09:30	DKS	S	CONC
9	S96T001648_A	960508A	ICP2	05/08/96	09:33	DKS	S	CONC
10	ICSA	960508A	ICP2	05/08/96	09:40	DKS	Q	CONC
11	ICSAB	960508A	ICP2	05/08/96	09:43	DKS	Q	CONC
12	CCV	960508A	ICP2	05/08/96	09:47	DKS	Q	CONC
13	CCB	960508A	ICP2	05/08/96	09:50	DKS	Q	CONC

WHC-SD-WM-DP-140, REV. 1

DK Lab
05-08-96
B-106 S96T001648
Worklist # 8467

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 301 TO 304.

Analysis Report *Averages* *Wed 05-08-96 09:53:50 AM* *page 2*

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.978	4.925	5.167	5.055	5.134	5.207
2	ICB	.0003	-.0010	.0061	.0022	.0001	.0000
3	ICSA	.0031	242.6	-.0672	.0014	.0032	.0002
4	ICSAB	.9863	246.0	-.0506	.0017	.4985	.4947
5	PREPBLKTJA	-.0007	.1973	-.0015	3.408	.0034	-.0000
6	S96T001648_L	.0320	.7449	.0398	3.618	.0048	.0004
7	S96T001648	.0324	.7389	.0033	3.436	.0045	-.0001
8	S96T001648_D	.0346	.8105	-.0117	4.241	.0047	.0000
9	S96T001648_A	1.160	1.967	1.326	4.711	1.271	1.302
10	ICSA	.0022	243.4	-.0636	.0081	.0031	.0002
11	ICSAB	.9890	246.3	-.0318	.0036	.5024	.4947
12	CCV	5.051	4.971	5.215	5.093	5.207	5.271
13	CCB	.0007	.0013	.0038	.0056	.0000	-.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.168	5.123	5.059	5.257	5.102	5.124
2	ICB	-.0041	-.0021	-.0011	.0007	-.0013	-.0006
3	ICSA	-.0011	252.8	.0011	.0212	.0011	.0003
4	ICSAB	-.0265	254.5	.9679	.0011	.4792	.4947
5	PREPBLKTJA	-.0214	.0341	-.0009	.0008	.0009	.0010
6	S96T001648_L	-.0199	.1067	.0048	-.0020	.0182	.1448
7	S96T001648	.0453	.0900	-.0003	-.0038	.0023	.1407
8	S96T001648_D	.0177	.0731	.0003	-.0065	.0052	.1499
9	S96T001648_A	1.332	1.402	1.280	1.310	1.283	1.433
10	ICSA	.0096	254.8	-.0007	.0034	.0034	-.0004
11	ICSAB	.0130	256.3	.9665	.0078	.4797	.4947
12	CCV	5.166	5.254	5.114	5.314	5.150	5.196
13	CCB	-.0219	-.0019	.0004	.0070	.0000	.0001

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.256	-.0029	5.109	4.879	5.167	5.080
2	ICB	-.0009	-.0008	.0001	-.0717	-.0004	-.0001
3	ICSA	-.0123	-.0282	94.38	.2486	-.0041	.0042
4	ICSAB	.4988	-.0275	95.43	.2230	-.0062	1.013
5	PREPBLKTJA	.0019	.0006	.0159	.1111	-.0002	.0032
6	S96T001648_L	.0035	-.0020	.5328	1.062	.0015	.0597
7	S96T001648	.0062	.0004	.5286	.8796	-.0011	.0615
8	S96T001648_D	.0076	-.0002	.5619	1.070	-.0010	.0666
9	S96T001648_A	1.321	-.0007	1.805	2.413	1.290	1.333
10	ICSA	-.0126	-.0332	94.73	.0549	-.0062	.0035
11	ICSAB	.5013	-.0308	95.71	.0612	-.0063	1.017
12	CCV	5.307	-.0027	5.182	5.146	5.236	5.142
13	CCB	-.0004	-.0002	-.0001	.1076	.0001	.0000

WHC-SD-WM-DP-140, REV. 1

Analysis Report Averages Wed 05-08-96 09:53:50 AM page 3

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.897	4.977	5.109	5.032	5.240	5.041
2	ICB	.0033	-.0001	.0003	-.0026	.0007	-.0037
3	ICSA	243.8	-.0071	-.0111	201.1	.0072	-.0090
4	ICSAB	251.7	.4582	-.0091	203.1	.0050	.9386
5	PREPBLKTJA	-.0027	.0002	-.0020	4.594	-.0008	-.0018
6	S96T001648_L	.0640	.0033	.0093	460.6	-.0091	.0314
7	S96T001648	.0579	.0038	.0063	457.8	.0014	.0003
8	S96T001648_D	.0603	.0039	.0050	494.8	.0030	.0049
9	S96T001648_A	1.294	1.230	1.293	449.7	1.310	1.271
10	ICSA	244.5	-.0072	-.0102	202.0	.0023	-.0017
11	ICSAB	251.8	.4582	-.0097	203.3	.0026	.9355
12	CCV	4.930	5.042	5.165	5.077	5.314	5.109
13	CCB	.0017	-.0001	.0003	.0013	.0010	.0030

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.159	5.041	4.942	4.846	4.943	4.987
2	ICB	-.0011	-.0098	.0078	.0002	-.0009	.0038
3	ICSA	.0309	.0345	.0408	-.0093	-.0390	.0165
4	ICSAB	.0216	1.021	-.0201	.0068	-.0377	.0001
5	PREPBLKTJA	-.0089	-.0060	.0094	-.0013	-.0033	1.146
6	S96T001648_L	44.30	.0394	25.60	.0347	.0154	11.91
7	S96T001648	45.43	.0070	26.14	-.0037	.0020	12.23
8	S96T001648_D	49.30	.0010	28.14	.0013	-.0005	14.03
9	S96T001648_A	45.56	1.296	26.60	1.225	1.243	13.24
10	ICSA	.0489	.0233	.0340	.0057	-.0524	.0241
11	ICSAB	.0371	1.019	-.0143	.0100	-.0632	.0056
12	CCV	5.170	5.106	4.990	4.894	4.973	5.054
13	CCB	-.0041	-.0060	-.0038	-.0011	.0057	.0095

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.043	5.079	-.0266	4.973	4.888	9.976
2	ICB	-.0089	-.0000	.0010	.0000	.0001	-.0416
3	ICSA	-.0002	-.0024	.0064	.0016	-.0316	.1367
4	ICSAB	-.0077	.0013	.0039	.0011	-.0393	.0943
5	PREPBLKTJA	.0089	.0006	-.0080	.0021	-.0306	.0283
6	S96T001648_L	-.0090	.0107	-.0091	.0059	-.0617	-.0665
7	S96T001648	.0083	.0105	-.0036	.0061	.0037	.0558
8	S96T001648_D	.0020	.0110	-.0056	.0064	-.0065	.0331
9	S96T001648_A	1.254	1.275	-.0131	1.279	1.206	2.503
10	ICSA	-.0104	-.0026	.0063	.0014	-.0312	.1019
11	ICSAB	-.0128	.0012	.0050	.0011	-.0373	.0831
12	CCV	5.091	5.150	-.0273	5.032	4.952	10.09
13	CCB	-.0041	-.0001	-.0010	-.0005	.0175	-.0226

WHC-SD-WM-DP-140, REV. 1

Analysis Report Averages Wed 05-08-96 09:53:50 AM page 4

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.124	.0057	5.045	5.062
2	ICB	-.0019	-.0005	.0009	-.0004
3	ICSA	-.0013	.0069	-.0012	-.0038
4	ICSAB	.4797	.0062	.9855	-.0048
5	PREPBLKTJA	.0010	.0002	.0033	.0016
6	S96T001648_L	-.0018	-.0011	.0329	.0112
7	S96T001648_	.0019	.0003	.0284	.0130
8	S96T001648_D	.0011	-.0000	.0306	.0136
9	S96T001648_A	1.279	.0016	1.329	1.275
10	ICSA	-.0030	.0064	-.0005	-.0045
11	ICSAB	.4796	.0062	.9807	-.0056
12	CCV	5.147	.0057	5.094	5.117
13	CCB	-.0007	-.0002	-.0011	-.0002

JK Lad
05-08-96

05/13/96 10:30
A-0004-1

WHC-SD-WM-DP-140, REV. 1

LABCORE Data Entry Template for Worklist# 8612

Analyst: J. Wynell **Instrument:** ICP01 **Book#** 53048B

Method: LA-505-151/~~161~~ Rev/Mod D-3
JW 5-22-96

Worklist Comment: ICP B-106 (SOLID ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	LLS				@ICP-QC	QC		
4	ICSA				@ICP-QC	QC		
5	ICSAB				@ICP-QC	QC		
6	PREPSTDARL				@ICP-A01	SOLID		
7	PREPBLKARL				@ICP-A01	SOLID		
8	SERDIL	S96T001199	0	A	@ICP-A01	SOLID		
9	SAMPLE	S96T001199	0	A	@ICP-A01	SOLID	95000096	B-106
10	DUP	S96T001199	0	A	@ICP-A01	SOLID		
11	SPK-PREDIG	S96T001199	0	A	@ICP-A01	SOLID		
12	CCV				@ICP-QC	QC		
13	CCB				@ICP-QC	QC		
14	SERDIL	S96T001214	0	A	@ICP-A01	SOLID		
15	SAMPLE	S96T001214	0	A	@ICP-A01	SOLID	95000096	B-106

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

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 ,

Data Entry Comments: Sample prep dilution factor can be found in Sample prep worklist. Example for calculation of sample result:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

S96T001199 $Mg = 3.832 \frac{ug}{ml} \times \frac{1}{4.762 \frac{g}{L} \times \frac{1 L}{1000 ml}} = 8.05e+2 \frac{ug}{g}$

LABCORE Data Entry Template for Worklist# 8612

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			
16	DUP	S96T001214	0	A	@ICP-A01	SOLID		
17	SERDIL	S96T001228	0	A	@ICP-A01	SOLID		
18	SAMPLE	S96T001228	0	A	@ICP-A01	SOLID	95000096	B-106
		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	S96T001228	0	A	@ICP-A01	SOLID		
20	SERDIL	S96T001229	0	A	@ICP-A01	SOLID		
21	SAMPLE	S96T001229	0	A	@ICP-A01	SOLID	95000096	B-106
		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	S96T001229	0	A	@ICP-A01	SOLID		
23	CCV				@ICP-QC	QC		
24	CCB				@ICP-QC	QC		
25	SERDIL	S96T001230	0	A	@ICP-A01	SOLID		
26	SAMPLE	S96T001230	0	A	@ICP-A01	SOLID	95000096	B-106
		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 ,			

Data Entry Comments: True value for spiking amount is 5.0 ppm except for Ag = 1.0 ppm and U = 10.0 ppm. Example for calculation of Spike Recovery:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

S96T001199 $Mg = \frac{8.809 - 3.872}{5} \times 100 = 99.54\ \%$

05/23/96 11:45 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 003

LABCORE Data Entry Template for Worklist# 8612

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
					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			
27	DUP	S96T001230	0	A	@ICP-A01	SOLID		
28	ICSA				@ICP-QC	QC		
29	ICSAB				@ICP-QC	QC		
30	CCV				@ICP-QC	QC		
31	CCB				@ICP-QC	QC		

Final page for worklist # 8612

Analyst Signature Date 5-22-96

Reviewed By:
Analyst Signature Date 5/24/96

	DF
PREPSTDARC -	1
PREPBLKARC -	1
S96T001199L -	25
1199 -	5
1199-D -	5
1199-S -	5
1214 L -	25
1214 -	5
1214-D -	5
1228-L -	25
1228 - -	5
1228 -D -	5
1229-L -	25
1229 - -	5
1229-D -	5
1230 -L -	25
1230 - -	5
1230-D -	5

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

05/23/96 11:45 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 002

Identity 1: ICV Identity 2: Quality Control 1:13 PM May 22, 1996
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	5.095	5.071	5.094	4.854	5.061	5.247	5.144	5.000
S.D.	0.017	0.016	0.031	0.019	0.016	0.017	0.019	0.024
% R.S.D.	0.342	0.308	0.602	0.383	0.326	0.323	0.377	0.484

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.271	5.156	5.156	5.231	5.052	5.199	5.356	9.679
S.D.	0.017	0.010	0.019	0.010	0.016	0.013	0.029	0.013
% R.S.D.	0.324	0.192	0.368	0.190	0.325	0.257	0.540	0.134

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.244	5.048	5.059	5.691	5.274	4.995	5.198	4.970
S.D.	0.019	0.014	0.016	0.042	0.022	0.014	0.021	0.029
% R.S.D.	0.358	0.269	0.324	0.743	0.416	0.279	0.398	0.583

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.225	5.101	5.019	5.145	5.032	5.163	5.253	5.018
S.D.	0.018	0.035	0.012	0.037	0.014	0.021	0.010	0.035
% R.S.D.	0.350	0.679	0.238	0.714	0.283	0.403	0.185	0.688

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.138	4.847	5.227	5.266	4.912
S.D.	0.016	0.052	0.014	0.015	0.014
% R.S.D.	0.319	1.078	0.259	0.279	0.285

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 308 TO 338.

John Howell

5-22-96 ACID DIGEST

B-106 FILE# 960522A.DAT

596T001199
1214
1228
1229
1230

05/23/96 11:46 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 004

Identity 1: ICB Identity 2: Quality Control 1:17 PM May 22, 1996
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	-0.000	0.002	0.004	-0.000	0.007	0.004	0.002	0.002
S.D.	0.001	0.000	0.010	0.003	0.003	0.002	0.000	0.000
% R.S.D.	157.679	4.811	238.530	605.604	42.974	43.153	20.329	10.238

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.002	0.001	0.001	0.005	0.002	0.002	0.014	-0.082
S.D.	0.000	0.001	0.002	0.001	0.000	0.001	0.008	0.036
% R.S.D.	10.334	78.606	156.768	31.921	2.221	33.730	61.906	43.988

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.014	-0.026	0.002	0.007	0.010	0.002	0.003	0.002
S.D.	0.005	0.008	0.000	0.006	0.003	0.000	0.003	0.002
% R.S.D.	39.011	29.855	2.041	78.905	28.382	5.973	96.731	150.050

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.000	-0.024	0.003	-0.005	0.001	0.001	0.004	-0.037
S.D.	0.000	0.007	0.001	0.017	0.000	0.000	0.001	0.004
% R.S.D.	125.797	28.617	18.363	311.567	38.057	34.702	25.312	11.177

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.002	0.023	0.004	0.002	0.002
S.D.	0.000	0.011	0.000	0.000	0.023
% R.S.D.	17.459	47.557	7.269	7.320	1055.537

05/23/96 11:47 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 005

Identity 1: LLS Identity 2: Quality Control 1:20 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-140, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.022	0.021	0.173	0.106	0.108	0.046	0.021	0.020
S.D.	0.001	0.000	0.012	0.003	0.003	0.002	0.000	0.000
% R.S.D.	5.703	0.656	7.064	2.811	3.186	4.024	1.334	0.758

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.022	0.041	0.105	0.109	0.198	0.021	0.219	0.399
S.D.	0.000	0.001	0.004	0.002	0.001	0.003	0.013	0.032
% R.S.D.	0.580	3.184	3.603	1.958	0.291	12.193	6.063	8.006

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.223	0.176	0.101	0.440	0.213	0.203	0.200	0.213
S.D.	0.013	0.007	0.000	0.005	0.003	0.000	0.004	0.003
% R.S.D.	5.594	3.780	0.082	1.134	1.405	0.130	1.996	1.242

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.102	0.172	0.019	0.201	0.020	0.012	0.111	0.615
S.D.	0.001	0.012	0.001	0.012	0.000	0.001	0.001	0.024
% R.S.D.	1.245	7.023	4.938	6.017	1.811	8.550	0.589	3.957

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.021	0.059	0.108	0.011	0.462
S.D.	0.000	0.023	0.001	0.000	0.020
% R.S.D.	0.832	39.948	0.496	2.481	4.361

05/23/96 11:47 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 006

Identity 1: ICSA Identity 2: Quality Control 1:24 PM May 22, 1996
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	0.002	0.002	-0.015	0.005	205.016	0.000	-0.000	-0.000
S.D.	0.001	0.000	0.014	0.005	0.953	0.002	0.001	0.000
% R.S.D.	31.752	3.750	89.385	103.083	0.465	1507.648	2014.071	128.067

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.006	0.006	0.007	101.021	107.829	0.003	0.024	0.048
S.D.	0.001	0.001	0.003	0.160	0.297	0.002	0.002	0.016
% R.S.D.	13.885	15.060	41.276	0.159	0.275	72.108	7.573	33.130

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.019	0.001	0.003	0.041	-0.003	105.418	0.014	191.174
S.D.	0.005	0.003	0.000	0.013	0.017	0.142	0.005	1.519
% R.S.D.	24.484	291.015	2.304	32.476	521.077	0.134	39.422	0.794

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.009	0.001	-0.005	0.001	-0.002	0.015	-0.003
S.D.	0.001	0.013	0.001	0.007	0.001	0.002	0.001	0.015
% R.S.D.	150.099	151.954	56.005	149.593	66.756	109.723	6.165	557.330

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.005	0.061	0.000	0.003	0.012
S.D.	0.000	0.017	0.001	0.000	0.012
% R.S.D.	8.532	28.394	289.301	4.494	102.211

05/23/96 11:48 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 007

Identity 1: ICSAB Identity 2: Quality Control 1:26 PM May 22, 1996
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	-0.004	0.002	-0.024	-0.000	202.273	0.512	0.517	0.956
S.D.	0.000	0.000	0.008	0.002	0.247	0.005	0.002	0.005
% R.S.D.	10.212	4.493	35.189	495.271	0.122	0.957	0.313	0.561

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.029	1.006	0.001	100.687	108.078	0.515	0.035	-0.065
S.D.	0.003	0.009	0.002	0.175	0.037	0.002	0.011	0.027
% R.S.D.	0.268	0.863	118.992	0.173	0.034	0.418	30.687	41.242

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.014	-0.011	0.519	0.022	-0.025	104.319	0.017	192.560
S.D.	0.005	0.004	0.001	0.012	0.012	0.079	0.004	0.814
% R.S.D.	38.920	39.797	0.155	54.051	49.092	0.076	21.684	0.423

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.019	1.035	0.999	-0.001	1.026	0.015	-0.078
S.D.	0.001	0.005	0.002	0.018	0.000	0.003	0.001	0.014
% R.S.D.	22.197	28.096	0.152	1.838	72.671	0.258	3.826	17.597

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.519	0.053	0.518	0.515	-0.001
S.D.	0.000	0.038	0.001	0.001	0.010
% R.S.D.	0.057	70.863	0.160	0.188	1189.231

05/23/96 11:48 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 008

Identity 1: prepstd arl Identity 2: direct 1:30 PM May 22, 1996 WHC-SD-WM-DP-140, REV. 1

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	5.365	4.925	4.840	8.108	5.090	5.140	4.799	4.826
S.D.	0.011	0.008	0.002	0.010	0.010	0.013	0.008	0.035
% R.S.D.	0.199	0.164	0.046	0.125	0.203	0.252	0.167	0.727

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	4.979	5.098	5.104	5.251	5.392	4.994	5.261	9.501
S.D.	0.012	0.007	0.002	0.025	0.011	0.015	0.018	0.019
% R.S.D.	0.250	0.136	0.034	0.477	0.208	0.305	0.338	0.198

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.129	4.953	4.928	5.652	5.182	4.815	5.055	5.896
S.D.	0.008	0.005	0.009	0.191	0.048	0.012	0.008	0.054
% R.S.D.	0.156	0.104	0.180	3.378	0.920	0.245	0.150	0.922

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.004	4.728	0.965	4.933	4.651	4.957	5.924	5.101
S.D.	0.010	0.015	0.003	0.005	0.007	0.011	0.007	0.050
% R.S.D.	0.196	0.324	0.267	0.100	0.157	0.222	0.117	0.974

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.000	5.013	5.047	5.182	4.713
S.D.	0.013	0.037	0.011	0.004	0.016
% R.S.D.	0.256	0.740	0.217	0.070	0.335

05/23/96 11:49 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 009

Identity 1: prepblk arl Identity 2: direct 1:33 PM May 22, 1996
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	0.003	0.002	0.013	0.245	0.122	0.001	0.022	0.001
S.D.	0.001	0.000	0.013	0.003	0.007	0.002	0.000	0.000
% R.S.D.	30.567	5.589	97.634	1.351	5.721	173.063	1.625	19.883

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.060	0.002	0.003	0.166	0.258	0.006	-0.002	0.022
S.D.	0.001	0.002	0.002	0.002	0.000	0.001	0.004	0.052
% R.S.D.	1.520	108.278	76.791	1.413	0.122	16.962	235.648	242.822

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.017	-0.010	0.002	0.020	0.096	0.032	-0.003	0.909
S.D.	0.007	0.010	0.000	0.008	0.004	0.000	0.002	0.009
% R.S.D.	40.520	96.039	9.744	39.382	4.130	1.136	46.346	1.017

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.004	0.002	0.010	0.002	0.004	0.695	0.210
S.D.	0.001	0.011	0.001	0.006	0.000	0.001	0.002	0.016
% R.S.D.	163.608	325.243	34.708	63.375	4.446	18.586	0.309	7.695

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.003	-0.046	0.002	0.001	0.026
S.D.	0.000	0.015	0.000	0.000	0.015
% R.S.D.	9.015	31.911	9.101	9.839	57.776

05/23/96 11:49 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 010

JW 5-22-96
2nd-8nd-2nd-8nd

WHC-SD-WM-DP-140, REV. 1

Identity 1: s96t001199_l Identity 2: ~~direct~~ 1:37 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 25.00
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	-0.027	1.399	1.473	2.117	8.553	-0.057	0.106	0.012
S.D.	0.018	0.001	0.229	0.048	0.126	0.046	0.014	0.005
% R.S.D.	65.682	0.068	15.542	2.269	1.475	81.447	13.179	39.785

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.580	0.255	0.058	65.291	17.020	1.962	0.031	26.777
S.D.	0.010	0.055	0.022	0.344	0.011	0.009	0.217	0.476
% R.S.D.	1.644	21.436	37.347	0.527	0.065	0.451	691.778	1.777

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.006	-0.368	0.166	125.668	24.638	3.836	0.148	482.634
S.D.	0.058	0.054	0.005	1.632	0.395	0.007	0.053	0.750
% R.S.D.	1010.373	14.725	2.839	1.298	1.605	0.173	35.802	0.155

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.043	0.277	0.022	1.507	0.449	0.054	0.433	-0.132
S.D.	0.019	0.080	0.004	0.109	0.009	0.020	0.019	0.355
% R.S.D.	45.439	28.940	19.538	7.216	2.013	36.885	4.480	267.988

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	2.601	0.054	0.067	0.011	0.378
S.D.	0.004	0.170	0.028	0.006	0.195
% R.S.D.	0.167	317.302	41.909	53.080	51.556

05/23/96 11:50 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 011

JW 5-22-96 2ml-End

Identity 1: s96t001199 ~~Identity~~ 2: ~~direct~~ 1:40 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.030	1.390	1.191	2.039	8.584	0.007	0.120	0.013
S.D.	0.004	0.006	0.070	0.023	0.021	0.019	0.002	0.000
% R.S.D.	13.303	0.465	5.859	1.114	0.245	262.538	1.395	2.781

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.533	0.302	0.036	65.610	16.577	1.942	0.263	28.214
S.D.	0.001	0.009	0.009	0.371	0.088	0.008	0.093	0.076
% R.S.D.	0.222	3.146	23.848	0.565	0.530	0.420	35.556	0.269

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.243	-0.129	0.164	125.956	24.688	3.832	-0.049	474.208
S.D.	0.055	0.041	0.001	1.950	0.241	0.012	0.007	2.773
% R.S.D.	22.578	32.021	0.306	1.548	0.978	0.310	15.130	0.585

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.003	-0.293	0.016	1.422	0.452	0.010	0.405	1.254
S.D.	0.007	0.030	0.004	0.049	0.004	0.001	0.005	0.015
% R.S.D.	268.174	10.347	22.449	3.467	0.862	11.674	1.184	1.236

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	2.606	0.057	0.052	0.002	0.235
S.D.	0.010	0.115	0.006	0.001	0.151
% R.S.D.	0.403	203.136	11.211	34.081	64.213

05/23/96 11:51 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 012

Identity 1: s96t001199_d Identity 2: 2ml-8ml 1:46 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.056	1.492	1.315	2.269	9.062	0.012	0.128	0.012
S.D.	0.003	0.002	0.038	0.018	0.017	0.016	0.002	0.001
% R.S.D.	6.031	0.151	2.892	0.786	0.190	132.874	1.728	7.152

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.503	0.319	0.041	70.780	17.781	2.062	0.223	30.761
S.D.	0.005	0.006	0.011	0.217	0.037	0.006	0.053	0.063
% R.S.D.	0.937	1.847	28.141	0.307	0.208	0.305	23.633	0.205

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.128	-0.030	0.177	130.129	25.756	4.092	-0.010	496.267
S.D.	0.021	0.006	0.000	3.728	0.310	0.003	0.021	1.232
% R.S.D.	16.110	21.568	0.184	2.865	1.203	0.064	212.502	0.248

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.004	-0.118	0.006	1.366	0.483	0.000	0.446	1.115
S.D.	0.004	0.078	0.002	0.062	0.004	0.001	0.005	0.027
% R.S.D.	96.573	66.059	29.475	4.566	0.737	6187.230	1.232	2.405

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	2.823	-0.102	0.033	-0.001	0.136
S.D.	0.004	0.118	0.003	0.001	0.105
% R.S.D.	0.142	115.740	10.390	79.605	77.036

05/23/96 11:51 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 013

Identity 1: s96t001199_s Identity 2: 2ml-8ml 1:50 PM May 22, 1996 WHC-SD-WM-DP-140, REV. 1

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 5.00

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	2.456	6.545	6.222	11.064	14.522	5.315	5.137	4.952
S.D.	0.018	0.010	0.130	0.057	0.034	0.019	0.011	0.014
% R.S.D.	0.739	0.159	2.089	0.511	0.235	0.349	0.211	0.276

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.624	5.566	5.279	73.198	22.377	7.107	5.725	38.610
S.D.	0.018	0.013	0.004	0.203	0.054	0.017	0.085	0.163
% R.S.D.	0.323	0.229	0.080	0.278	0.241	0.238	1.483	0.422

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.482	4.866	5.257	128.392	29.719	8.809	5.131	481.508
S.D.	0.048	0.031	0.008	1.303	0.234	0.027	0.024	1.429
% R.S.D.	0.866	0.637	0.156	1.015	0.786	0.304	0.466	0.297

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.092	4.663	0.973	6.432	5.201	5.140	6.346	6.259
S.D.	0.021	0.067	0.005	0.144	0.012	0.032	0.028	0.062
% R.S.D.	0.408	1.427	0.528	2.246	0.239	0.628	0.435	0.983

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	7.861	5.325	5.207	5.230	5.009
S.D.	0.024	0.342	0.018	0.011	0.042
% R.S.D.	0.302	6.428	0.353	0.207	0.831

05/23/96 11:52 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑014

Identity 1: CCV Identity 2: Quality Control 1:55 PM May 22, 1996
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	5.138	5.110	5.100	4.875	5.083	5.257	5.191	5.039
S.D.	0.003	0.002	0.033	0.006	0.009	0.007	0.002	0.020
% R.S.D.	0.053	0.040	0.651	0.122	0.187	0.127	0.047	0.397

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ce (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.291	5.181	5.207	5.293	5.097	5.201	5.459	9.874
S.D.	0.001	0.010	0.002	0.036	0.002	0.007	0.032	0.002
% R.S.D.	0.024	0.191	0.044	0.677	0.031	0.134	0.582	0.022

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.233	5.109	5.101	5.662	5.266	5.011	5.239	5.038
S.D.	0.007	0.006	0.001	0.129	0.070	0.007	0.012	0.018
% R.S.D.	0.142	0.108	0.027	2.277	1.325	0.145	0.238	0.367

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.247	5.122	5.012	5.140	5.060	5.195	5.325	5.106
S.D.	0.008	0.016	0.007	0.010	0.004	0.006	0.003	0.011
% R.S.D.	0.152	0.315	0.149	0.196	0.075	0.115	0.058	0.210

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.163	4.873	5.258	5.308	4.908
S.D.	0.006	0.017	0.004	0.002	0.011
% R.S.D.	0.107	0.349	0.081	0.044	0.231

05/23/96 11:52 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 015

Identity 1: CCB Identity 2: Quality Control 1:58 PM May 22, 1996
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	0.002	0.003	-0.004	0.004	-0.000	0.004	0.003	0.003
S.D.	0.000	0.001	0.004	0.002	0.002	0.002	0.001	0.001
% R.S.D.	27.021	32.560	93.356	54.852	3597.368	43.268	28.780	32.014

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.003	0.004	0.006	0.003	0.003	0.005	-0.003	-0.038
S.D.	0.001	0.002	0.001	0.002	0.001	0.002	0.004	0.008
% R.S.D.	36.144	41.543	13.309	60.017	28.224	43.270	139.361	20.462

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.008	-0.017	0.003	0.010	-0.004	0.003	0.006	0.008
S.D.	0.001	0.002	0.001	0.008	0.002	0.001	0.001	0.002
% R.S.D.	7.975	9.669	30.819	80.877	58.651	35.155	19.557	27.278

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.003	-0.008	0.064	-0.015	0.003	0.003	0.011	-0.069
S.D.	0.001	0.003	0.006	0.011	0.001	0.002	0.001	0.014
% R.S.D.	42.184	38.621	8.827	75.572	32.831	61.555	11.966	19.614

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.003	0.029	0.002	0.003	0.026
S.D.	0.001	0.033	0.002	0.001	0.006
% R.S.D.	34.618	114.783	75.538	35.376	22.983

05/23/96 11:53 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 016

Identity 1: s96t001214_l Identity 2: 2ml-8ml-2ml-8ml 2:02 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 25.00
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	0.026	2.250	1.758	2.148	12.618	0.101	0.176	0.049
S.D.	0.025	0.003	0.038	0.015	0.027	0.046	0.007	0.001
% R.S.D.	98.670	0.153	2.184	0.687	0.215	45.902	3.779	2.166

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.600	0.309	0.110	98.728	23.520	0.872	0.620	47.967
S.D.	0.004	0.012	0.021	0.370	0.037	0.084	0.138	0.517
% R.S.D.	0.698	3.916	19.497	0.375	0.159	9.581	22.289	1.077

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.986	-0.462	0.257	157.667	29.916	5.351	0.084	580.404
S.D.	0.059	0.093	0.003	3.997	0.339	0.008	0.037	1.269
% R.S.D.	6.000	20.148	1.053	2.535	1.132	0.140	43.906	0.219

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.051	-0.686	0.105	2.368	0.651	0.003	0.654	1.879
S.D.	0.027	0.116	0.013	0.078	0.008	0.013	0.019	0.177
% R.S.D.	53.569	16.990	12.649	3.308	1.219	503.552	2.963	9.441

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1.142	0.684	0.120	0.016	0.333
S.D.	0.009	0.326	0.017	0.003	0.415
% R.S.D.	0.765	47.670	14.237	21.214	124.587

05/23/96 11:53 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 017

Identity 1: s96t001214 Identity 2: 2ml-8ml 2:06 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.058	2.273	1.842	2.173	12.645	-0.033	0.151	0.024
S.D.	0.003	0.007	0.036	0.016	0.040	0.009	0.002	0.000
% R.S.D.	4.977	0.309	1.937	0.748	0.320	27.845	1.362	1.769

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.570	0.266	0.051	98.578	24.240	0.849	0.261	50.520
S.D.	0.001	0.011	0.019	0.113	0.050	0.010	0.029	0.112
% R.S.D.	0.189	4.003	36.872	0.115	0.207	1.122	10.947	0.221

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.243	-0.112	0.239	155.966	29.831	5.363	-0.007	579.718
S.D.	0.021	0.016	0.000	2.682	0.146	0.007	0.017	2.153
% R.S.D.	8.828	14.046	0.136	1.719	0.488	0.131	255.879	0.371

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.003	-0.073	0.018	2.033	0.658	0.002	0.581	1.065
S.D.	0.004	0.039	0.004	0.028	0.003	0.004	0.004	0.041
% R.S.D.	148.352	52.945	23.303	1.394	0.489	175.577	0.743	3.848

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1.121	-0.164	0.037	0.000	-0.091
S.D.	0.002	0.092	0.003	0.002	0.079
% R.S.D.	0.204	56.125	8.666	1213.789	86.294

05/23/96 11:54 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 018

Identity 1: s96t001214_d Identity 2: 2ml-8ml 2:09 PM May 22, 1996 WHC-SD-WM-DP-140, REV. 1

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 5.00

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	0.036	2.238	1.815	1.761	12.470	0.042	0.148	0.028
S.D.	0.007	0.004	0.017	0.015	0.059	0.000	0.002	0.002
% R.S.D.	19.217	0.176	0.932	0.855	0.472	0.065	1.644	5.886

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.594	0.253	0.047	91.575	25.046	0.831	0.332	49.358
S.D.	0.004	0.004	0.013	0.458	0.024	0.016	0.062	0.210
% R.S.D.	0.612	1.495	27.927	0.500	0.095	1.879	18.703	0.425

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.328	-0.276	0.238	150.119	28.413	5.297	-0.002	558.970
S.D.	0.077	0.064	0.001	2.320	0.233	0.012	0.034	3.733
% R.S.D.	23.470	23.247	0.310	1.545	0.818	0.232	1907.387	0.668

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.016	-0.113	0.027	1.973	0.640	0.009	0.491	1.020
S.D.	0.004	0.059	0.006	0.042	0.002	0.004	0.004	0.048
% R.S.D.	26.043	52.438	23.097	2.109	0.339	40.193	0.853	4.742

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1.087	-0.144	0.046	-0.000	0.372
S.D.	0.002	0.181	0.009	0.001	0.141
% R.S.D.	0.217	125.624	19.131	362162.139	37.812

05/23/96 11:54 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 019

Identity 1: s96t001228_l Identity 2: 2ml-8ml-2ml-8ml 2:13 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 25.00
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	0.062	2.685	5.155	1.738	5.878	0.094	0.293	0.089
S.D.	0.029	0.008	0.152	0.035	0.090	0.093	0.006	0.003
% R.S.D.	47.137	0.316	2.955	2.036	1.536	98.207	2.102	3.609

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.812	0.216	-0.091	95.362	8.005	0.855	0.376	98.456
S.D.	0.007	0.037	0.057	0.467	0.050	0.027	0.111	0.142
% R.S.D.	0.904	17.021	63.211	0.489	0.626	3.128	29.463	0.144

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.115	-1.019	0.214	118.766	27.756	1.942	0.179	542.184
S.D.	0.099	0.123	0.003	1.961	0.258	0.011	0.067	4.291
% R.S.D.	8.833	12.029	1.264	1.651	0.930	0.561	37.571	0.791

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.071	-1.649	0.038	1.804	0.151	0.016	0.505	3.400
S.D.	0.028	0.337	0.014	0.068	0.010	0.004	0.014	0.236
% R.S.D.	39.523	20.411	36.521	3.771	6.837	23.900	2.829	6.931

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.460	0.392	0.115	0.011	0.845
S.D.	0.008	0.372	0.015	0.003	0.093
% R.S.D.	1.648	94.983	12.743	31.923	11.011

05/23/96 11:55 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 020

Identity 1: s96t001228 Identity 2: 2ml-8ml 2:16 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.084	2.740	5.169	1.911	5.887	0.014	0.271	0.073
S.D.	0.002	0.004	0.044	0.004	0.052	0.009	0.001	0.000
% R.S.D.	2.085	0.150	0.842	0.209	0.877	68.586	0.346	0.585

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.681	0.340	0.036	95.871	8.161	0.813	0.066	102.901
S.D.	0.005	0.006	0.013	0.319	0.011	0.009	0.037	0.039
% R.S.D.	0.699	1.899	35.460	0.332	0.130	1.149	56.351	0.037

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.128	-0.113	0.205	121.732	28.275	1.946	-0.013	542.440
S.D.	0.046	0.020	0.000	3.548	0.327	0.002	0.011	0.592
% R.S.D.	36.192	17.829	0.228	2.914	1.158	0.118	83.335	0.109

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Tl (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.009	0.038	0.005	1.807	0.152	-0.000	0.474	1.347
S.D.	0.003	0.079	0.003	0.157	0.003	0.005	0.004	0.124
% R.S.D.	34.530	204.375	70.459	8.681	1.754	1267.188	0.789	9.202

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.468	0.052	0.055	-0.001	-0.290
S.D.	0.003	0.069	0.001	0.000	0.079
% R.S.D.	0.653	132.901	2.045	0.751	27.203

05/23/96 11:56 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 021

Identity 1: s96t001228_d Identity 2: 2ml-8ml 2:19 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.062	2.644	5.195	2.468	6.152	0.014	0.114	0.074
S.D.	0.002	0.004	0.088	0.016	0.025	0.009	0.000	0.001
% R.S.D.	3.788	0.156	1.699	0.665	0.402	66.787	0.241	1.256

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.654	0.310	0.042	94.197	7.738	0.789	0.235	100.169
S.D.	0.004	0.014	0.000	0.095	0.013	0.003	0.014	0.076
% R.S.D.	0.676	4.359	0.049	0.101	0.162	0.339	6.069	0.075

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.274	-0.270	0.201	118.425	27.467	1.884	0.019	531.288
S.D.	0.010	0.015	0.000	1.900	0.200	0.003	0.028	1.072
% R.S.D.	3.537	5.431	0.206	1.604	0.728	0.133	149.696	0.202

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.043	0.022	1.938	0.140	0.006	0.544	1.123
S.D.	0.003	0.061	0.002	0.017	0.001	0.005	0.005	0.031
% R.S.D.	99.499	140.905	10.045	0.856	0.971	81.402	0.927	2.759

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.451	0.086	0.073	-0.001	0.074
S.D.	0.001	0.079	0.003	0.001	0.035
% R.S.D.	0.191	92.091	3.854	122.587	47.122

05/23/96 11:56 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 022

Identity 1: s96t001229_l Identity 2: 2ml-8ml-2ml-8ml 2:22 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 25.00
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	0.701	0.731	97.891	26.320	59.954	0.079	0.060	0.073
S.D.	0.038	0.002	0.117	0.042	0.305	0.080	0.007	0.007
% R.S.D.	5.431	0.226	0.119	0.159	0.509	101.232	11.401	9.559

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.075	0.113	0.084	39.805	1.677	3.439	0.542	7.332
S.D.	0.011	0.063	0.021	0.346	0.009	0.021	0.137	1.826
% R.S.D.	1.040	55.773	24.998	0.869	0.527	0.598	25.220	24.912

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.052	-0.965	0.038	111.905	27.162	0.685	-0.077	588.428
S.D.	0.547	0.346	0.008	0.750	0.141	0.002	0.169	3.220
% R.S.D.	51.934	35.882	21.209	0.671	0.520	0.365	220.605	0.547

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.068	-1.322	0.047	1.979	0.030	0.027	6.400	2.620
S.D.	0.010	0.143	0.029	0.261	0.013	0.004	0.031	0.232
% R.S.D.	14.203	10.850	61.673	13.171	44.697	14.004	0.486	8.872

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.160	0.324	0.021	-0.001	0.074
S.D.	0.005	0.556	0.024	0.004	0.625
% R.S.D.	2.862	171.487	117.351	316.150	848.564

05/23/96 11:57 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 023

Identity 1: s96t001229 Identity 2: 2ml-8ml 2:25 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.705	0.727	98.723	26.644	60.243	-0.006	0.062	0.062
S.D.	0.003	0.001	0.233	0.030	0.108	0.009	0.001	0.001
% R.S.D.	0.417	0.205	0.236	0.113	0.180	146.994	1.841	1.836

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.966	0.103	0.009	39.915	1.470	3.358	0.037	7.761
S.D.	0.002	0.004	0.004	0.101	0.003	0.012	0.015	0.260
% R.S.D.	0.176	3.848	46.013	0.252	0.185	0.347	40.873	3.346

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.457	0.018	0.025	112.578	26.967	0.681	-0.006	577.433
S.D.	0.059	0.050	0.001	4.301	0.397	0.001	0.022	2.002
% R.S.D.	12.831	274.623	4.632	3.820	1.473	0.074	356.333	0.347

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.147	-0.000	2.264	0.038	-0.003	6.431	1.430
S.D.	0.002	0.096	0.004	0.130	0.001	0.001	0.044	0.063
% R.S.D.	174.588	65.250	2256.714	5.729	1.980	26.422	0.692	4.435

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.153	-0.024	0.008	0.001	0.004
S.D.	0.001	0.181	0.002	0.001	0.095
% R.S.D.	0.590	738.742	21.753	78.008	2368.130

05/23/96 11:57 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 024

Identity 1: s96t001229_d Identity 2: 2ml-8ml 2:29 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.577	0.612	82.483	2.540	50.053	0.005	0.059	0.057
S.D.	0.010	0.002	0.076	0.024	0.126	0.009	0.003	0.001
% R.S.D.	1.746	0.256	0.093	0.929	0.252	204.862	4.667	1.978

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.787	0.071	0.020	33.424	1.607	2.815	0.052	6.489
S.D.	0.001	0.014	0.000	0.105	0.002	0.008	0.032	0.296
% R.S.D.	0.175	20.316	0.725	0.315	0.098	0.272	61.095	4.557

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.383	-0.103	0.022	103.928	27.665	0.769	-0.058	582.778
S.D.	0.090	0.060	0.001	3.202	0.366	0.002	0.025	2.756
% R.S.D.	23.400	58.036	5.706	3.081	1.324	0.195	43.803	0.473

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.005	-0.021	0.002	1.765	0.038	-0.008	4.530	0.986
S.D.	0.003	0.054	0.004	0.003	0.003	0.002	0.024	0.066
% R.S.D.	55.296	258.422	247.422	0.187	7.375	19.563	0.533	6.711

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.130	-0.143	-0.011	-0.001	0.055
S.D.	0.000	0.071	0.002	0.001	0.114
% R.S.D.	0.028	49.931	14.349	98.051	207.291

05/23/96 11:58 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑025

Identity 1: CCV Identity 2: Quality Control 2:35 PM May 22, 1996
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	5.124	5.074	5.107	4.872	5.045	5.231	5.181	5.020
S.D.	0.010	0.011	0.043	0.010	0.007	0.012	0.008	0.014
% R.S.D.	0.200	0.223	0.839	0.207	0.135	0.221	0.159	0.272

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.302	5.177	5.237	5.338	5.087	5.202	5.527	9.803
S.D.	0.006	0.003	0.014	0.019	0.011	0.004	0.017	0.044
% R.S.D.	0.113	0.053	0.271	0.349	0.214	0.083	0.311	0.453

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.165	5.097	5.070	5.732	5.278	4.996	5.227	5.031
S.D.	0.016	0.012	0.011	0.088	0.025	0.010	0.018	0.014
% R.S.D.	0.309	0.229	0.212	1.534	0.479	0.190	0.348	0.278

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.202	5.042	5.048	5.206	5.029	5.172	5.371	5.192
S.D.	0.003	0.020	0.004	0.021	0.010	0.009	0.008	0.014
% R.S.D.	0.053	0.400	0.077	0.409	0.194	0.171	0.149	0.269

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.171	4.914	5.259	5.296	5.030
S.D.	0.008	0.021	0.013	0.012	0.023
% R.S.D.	0.156	0.422	0.242	0.225	0.465

05/23/96 11:58 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 026

Identity 1: CCB Identity 2: Quality Control 2:38 PM May 22, 1998 WHC-SD-WM-DP-140, Rev. 1
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	0.002	0.002	0.012	0.006	0.003	-0.002	0.002	0.001
S.D.	0.000	0.000	0.002	0.002	0.003	0.002	0.000	0.000
% R.S.D.	10.551	28.362	18.488	26.975	103.725	86.436	30.528	22.929

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.002	0.001	0.004	0.003	0.002	0.001	0.009	0.034
S.D.	0.001	0.002	0.004	0.001	0.001	0.001	0.013	0.040
% R.S.D.	23.527	356.162	99.160	25.336	23.077	85.855	136.342	117.385

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.004	-0.018	0.002	0.011	0.005	0.002	0.001	0.012
S.D.	0.008	0.008	0.001	0.004	0.002	0.000	0.001	0.001
% R.S.D.	178.011	43.338	31.940	38.933	35.114	29.863	153.214	10.827

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.022	0.015	0.017	0.002	0.002	0.007	-0.030
S.D.	0.001	0.009	0.000	0.011	0.000	0.000	0.001	0.023
% R.S.D.	31.815	40.350	2.452	63.179	4.490	18.277	8.411	73.999

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.002	0.057	0.002	0.002	-0.028
S.D.	0.001	0.019	0.001	0.001	0.024
% R.S.D.	40.276	33.450	51.292	37.464	83.326

05/23/96 11:59 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑027

Identity 1: s96t001230_(Identity 2: 2ml-8ml-2ml-8ml 2:44 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 25.00
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	0.074	1.874	12.484	2.070	13.615	0.100	0.149	0.068
S.D.	0.071	0.011	0.357	0.184	0.176	0.046	0.019	0.015
% R.S.D.	96.487	0.588	2.862	8.887	1.292	45.927	12.461	21.882

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.592	0.287	-0.016	74.000	13.286	1.557	0.883	51.180
S.D.	0.003	0.031	0.100	0.544	0.097	0.033	0.093	2.673
% R.S.D.	0.543	10.781	616.323	0.736	0.730	2.128	10.538	5.223

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.303	-1.170	0.192	127.492	28.161	3.189	-0.028	550.781
S.D.	0.800	0.606	0.011	2.969	0.275	0.003	0.106	6.020
% R.S.D.	61.382	51.804	5.831	2.329	0.977	0.078	375.881	1.093

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.013	-0.859	0.102	1.713	0.297	-0.002	0.692	2.171
S.D.	0.020	0.249	0.040	0.038	0.015	0.014	0.020	0.839
% R.S.D.	152.561	28.985	38.991	2.226	5.194	695.647	2.875	38.647

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1.154	0.014	0.152	0.015	2.559
S.D.	0.004	0.154	0.044	0.000	1.666
% R.S.D.	0.361	1072.906	29.054	2.376	65.085

05/23/96 12:00 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 028

Identity 1: s96t001230 Identity 2: 2ml-8ml 2:47 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.133	1.873	12.813	2.142	13.376	0.009	0.111	0.037
S.D.	0.010	0.007	0.117	0.030	0.067	0.000	0.002	0.002
% R.S.D.	7.406	0.373	0.917	1.422	0.503	0.139	1.471	4.698

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ce (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.590	0.268	0.046	74.952	13.311	1.379	0.106	55.152
S.D.	0.007	0.008	0.009	0.177	0.047	0.010	0.074	0.097
% R.S.D.	1.196	2.900	18.981	0.236	0.351	0.707	69.588	0.176

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.012	-0.080	0.166	128.147	28.424	3.208	0.004	543.179
S.D.	0.080	0.058	0.001	0.753	0.067	0.004	0.018	5.546
% R.S.D.	664.909	72.693	0.721	0.588	0.237	0.129	410.874	1.021

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.233	-0.001	1.661	0.326	0.001	0.632	1.495
S.D.	0.004	0.066	0.005	0.041	0.002	0.002	0.005	0.094
% R.S.D.	458.955	28.428	672.121	2.457	0.736	107.152	0.823	6.304

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1.157	0.111	0.031	0.001	-0.155
S.D.	0.005	0.038	0.004	0.001	0.154
% R.S.D.	0.399	34.323	13.107	95.035	99.365

05/23/96 12:00 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 029

Identity 1: s96t001230_d Identity 2: 2ml-8ml 2:50 PM May 22, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	0.182	3.125	21.340	1.877	22.434	0.026	0.174	0.068
S.D.	0.001	0.012	0.091	0.008	0.108	0.019	0.001	0.000
% R.S.D.	0.616	0.384	0.428	0.436	0.483	72.192	0.847	0.547

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.883	0.406	0.041	123.210	21.375	2.277	0.216	90.997
S.D.	0.004	0.009	0.007	0.292	0.072	0.026	0.041	0.332
% R.S.D.	0.428	2.300	17.787	0.237	0.337	1.142	19.047	0.365

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.309	-0.301	0.282	211.427	46.102	5.112	-0.021	888.471
S.D.	0.008	0.031	0.001	4.484	0.324	0.011	0.011	5.652
% R.S.D.	2.637	10.311	0.277	2.121	0.702	0.209	51.714	0.636

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.011	-0.368	0.019	2.742	0.524	-0.009	0.711	1.912
S.D.	0.004	0.104	0.005	0.050	0.000	0.004	0.004	0.034
% R.S.D.	39.865	28.289	24.745	1.806	0.054	45.316	0.503	1.767

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1.909	-0.075	0.070	0.001	0.012
S.D.	0.007	0.071	0.000	0.002	0.051
% R.S.D.	0.372	94.679	0.687	315.514	406.362

05/23/96 12:01 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑030

Identity 1: ICSA Identity 2: Quality Control 2:53 PM May 22, 1996
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	0.001	0.002	-0.014	-0.001	203.985	0.002	0.001	0.001
S.D.	0.001	0.000	0.008	0.002	0.710	0.002	0.000	0.000
% R.S.D.	106.645	3.685	54.864	151.728	0.348	82.095	23.808	22.135

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.006	0.003	0.006	100.296	106.515	0.002	0.056	-0.016
S.D.	0.000	0.001	0.003	0.199	0.345	0.001	0.013	0.025
% R.S.D.	2.602	19.207	44.417	0.198	0.324	67.117	23.147	156.027

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.029	0.008	0.003	0.026	0.011	105.744	0.024	190.928
S.D.	0.006	0.007	0.000	0.008	0.008	0.252	0.003	1.043
% R.S.D.	21.852	83.771	2.450	32.449	69.208	0.238	12.408	0.546

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.002	-0.069	0.002	-0.010	0.000	-0.001	0.016	0.117
S.D.	0.002	0.014	0.001	0.018	0.000	0.001	0.001	0.009
% R.S.D.	91.794	19.770	29.400	175.008	261.107	94.474	4.669	8.041

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	0.011	0.003	0.003	0.015
S.D.	0.000	0.052	0.000	0.000	0.002
% R.S.D.	4.338	480.198	8.310	10.332	12.391

05/23/96 12:01 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 031

Identity 1: ICSAB Identity 2: Quality Control 2:57 PM May 22, 1996
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	-0.002	0.002	-0.025	0.003	202.928	0.512	0.513	0.953
S.D.	0.001	0.000	0.007	0.004	0.070	0.002	0.001	0.004
% R.S.D.	35.817	1.862	28.680	121.776	0.035	0.360	0.218	0.438

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.041	1.011	0.003	100.274	107.399	0.522	0.034	0.034
S.D.	0.001	0.005	0.001	0.351	0.128	0.005	0.005	0.019
% R.S.D.	0.132	0.481	53.404	0.350	0.119	0.916	14.155	57.586

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.003	0.005	0.517	0.037	-0.016	105.768	0.008	193.147
S.D.	0.006	0.005	0.000	0.006	0.006	0.290	0.003	0.689
% R.S.D.	174.778	98.773	0.078	15.778	34.287	0.275	43.318	0.357

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.062	1.039	1.054	0.001	1.028	0.015	0.006
S.D.	0.002	0.012	0.001	0.020	0.000	0.002	0.001	0.005
% R.S.D.	70.889	18.608	0.140	1.878	20.429	0.193	4.905	92.221

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.520	-0.003	0.517	0.514	0.000
S.D.	0.002	0.022	0.002	0.000	0.015
% R.S.D.	0.321	758.721	0.298	0.092	12018.785

05/23/96 12:02 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 032

Identity 1: CCV Identity 2: Quality Control 2:59 PM May 22, 1996
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	5.089	5.072	5.033	4.824	5.053	5.202	5.165	5.014
S.D.	0.019	0.030	0.019	0.019	0.029	0.017	0.034	0.057
% R.S.D.	0.375	0.592	0.382	0.397	0.580	0.320	0.656	1.145

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.230	5.127	5.185	5.266	5.066	5.148	5.476	9.738
S.D.	0.013	0.015	0.017	0.035	0.025	0.019	0.022	0.037
% R.S.D.	0.257	0.296	0.328	0.656	0.485	0.376	0.400	0.380

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.214	5.058	5.069	5.647	5.224	4.958	5.181	5.051
S.D.	0.036	0.031	0.032	0.045	0.074	0.012	0.038	0.053
% R.S.D.	0.690	0.608	0.639	0.806	1.424	0.250	0.727	1.045

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.176	5.042	4.989	5.106	5.008	5.132	5.287	5.098
S.D.	0.026	0.058	0.012	0.047	0.022	0.016	0.019	0.043
% R.S.D.	0.496	1.147	0.247	0.912	0.433	0.306	0.358	0.836

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.110	4.786	5.208	5.266	4.903
S.D.	0.010	0.008	0.009	0.021	0.006
% R.S.D.	0.191	0.167	0.181	0.391	0.113

05/23/96 12:03 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 033

Identity 1: CCB Identity 2: Quality Control 3:03 PM May 22, 1996
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	-0.001	0.001	-0.015	-0.005	-0.002	0.001	0.000	0.000
S.D.	0.001	0.000	0.007	0.002	0.003	0.002	0.000	0.000
% R.S.D.	193.837	32.476	48.505	35.512	151.721	171.693	63.993	169.096

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.002	0.002	0.007	0.005	0.004	0.018	-0.091
S.D.	0.000	0.002	0.003	0.002	0.001	0.000	0.003	0.045
% R.S.D.	31.097	130.194	105.949	30.382	18.915	5.361	17.575	49.369

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.002	-0.025	0.001	-0.007	0.002	0.005	0.002	0.021
S.D.	0.011	0.010	0.000	0.011	0.001	0.001	0.005	0.003
% R.S.D.	631.809	41.908	39.111	144.467	43.068	19.244	303.391	16.974

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.038	0.010	-0.009	0.000	0.001	0.007	0.089
S.D.	0.001	0.012	0.001	0.003	0.000	0.000	0.001	0.028
% R.S.D.	211.448	32.480	9.396	29.603	140.162	21.841	16.648	31.491

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	-0.009	0.002	0.001	0.021
S.D.	0.000	0.017	0.001	0.000	0.019
% R.S.D.	0.622	197.575	36.622	31.163	91.801

05/23/96 12:03 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 034

LABCORE Data Entry Template for Worklist# 9464

Analyst: D.K. SATO **Instrument:** ICP02 **Book#** 53B48B

Method: LA-505-151/~~161~~ Rev/Mod B-0
SP 6/3/96

Worklist Comment: ICP B-106 (SOLID WATER DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	LLS				@ICP-QC	QC		
4	ICSA				@ICP-QC	QC		
5	ICSAB				@ICP-QC	QC		
6	PREPBLKTJA				@ICP-I01	SOLID		
7	SAMPLE	S96T001255	0	I	@ICP-I01	SOLID	95000096	B-106
	Analytes Requested:	AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01						
8	DUP	S96T001255	0	I	@ICP-I01	SOLID		
9	SPK	S96T001255	0	I	@ICP-I01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S96T001256	0	I	@ICP-I01	SOLID	95000096	B-106
	Analytes Requested:	AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01						

Data Entry Comments: Example for calculation of sample result:

S96T001255 $Al = 1.542 \frac{ug}{ml} \times \frac{1}{\left(5.085 \frac{g}{L}\right)\left(\frac{1L}{1000 ml}\right)} = 3.03e+2 \frac{ug}{g}$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: $5.085 \frac{g}{L}$ is sample prep dilution factor which can be found in sample prep worklist.

LABCORE Data Entry Template for Worklist# 9464

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	DUP	S96T001256	0	I	@ICP-I01	SOLID		
14	SPK	S96T001256	0	I	@ICP-I01	SOLID		
15	ICSA				@ICP-QC	QC		
16	ICSAB				@ICP-QC	QC		
17	CCV				@ICP-QC	QC		
18	CCB				@ICP-QC	QC		

Final page for worklist # 9464

for: Saul M. Parong
D. K. SATO 6/3/96
Analyst Signature Date

Reviewed by:
Saul M. Parong 6/3/96
Analyst Signature Date

		D.F.	
Prepblk TSA	DIRECT		
S96T001255-L	4-4, 2-8	10	
1255	4-4	2	
1255-D	4-4	2	
1255-A	4-4	2	4 ml sample + 1.6 ml SST5 + 2.4 ml HNO_3
S96T001256-L	~~4-4, 2-8~~ 8 6/3/96		
1256-L	4-4, 2-8	10	
1256-	4-4	2	
1256-D	4-4	2	
1256-A	4-4	2	4 ml sample + 1.6 ml SST5 + 2.4 ml HNO_3

Data Entry Comments: True Value for spike is 1.0 ppm for all elements except for u = 2.0 ppm. Example for calculation for spike recovery:

S96T001255 $Al = \left(\frac{3.480}{2}\right) - \left(\frac{1.542}{2}\right) \times 100 = 96.9\%$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

WHC-SD-WM-DP-140, REV. 1

Analysis Report *Summary* *Fri 05-24-96 02:26:11 PM* *page 1*

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960524C	ICP2	05/24/96	13:08	DKS	Q	CONC
2	ICB	960524C	ICP2	05/24/96	13:11	DKS	Q	CONC
3	LLS	960524C	ICP2	05/24/96	13:14	DKS	Q	CONC
4	ICSA	960524C	ICP2	05/24/96	13:17	DKS	Q	CONC
5	ICSAB	960524C	ICP2	05/24/96	13:20	DKS	Q	CONC
6	PREPBLKTJA	960524C	ICP2	05/24/96	13:28	DKS	S	CONC
7	S96T001255_L	960524C	ICP2	05/24/96	13:31	DKS	S	CONC
8	S96T001255_	960524C	ICP2	05/24/96	13:34	DKS	S	CONC
9	S96T001255_D	960524C	ICP2	05/24/96	13:37	DKS	S	CONC
10	S96T001255_A	960524C	ICP2	05/24/96	13:40	DKS	S	CONC
11	CCV	960524C	ICP2	05/24/96	13:44	DKS	Q	CONC
12	CCB	960524C	ICP2	05/24/96	13:47	DKS	Q	CONC
13	S96T001256_L	960524C	ICP2	05/24/96	13:50	DKS	S	CONC
14	S96T001256_	960524C	ICP2	05/24/96	13:57	DKS	S	CONC
15	S96T001256_D	960524C	ICP2	05/24/96	14:00	DKS	S	CONC
16	S96T001256_A	960524C	ICP2	05/24/96	14:03	DKS	S	CONC
17	ICSA	960524C	ICP2	05/24/96	14:07	DKS	Q	CONC
18	ICSAB	960524C	ICP2	05/24/96	14:10	DKS	Q	CONC
19	CCV_1	960524C	ICP2	05/24/96	14:13	DKS	Q	CONC
20	CCB_1	960524C	ICP2	05/24/96	14:16	DKS	Q	CONC

DK
05-24-96
B-106 596T001255
596T001256
Worklist # 6540

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 341 TO 345.

WHC-SD-WM-DP-140, REV. 1

Analysis Report Averages Fri 05-24-96 02:26:11 PM page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.862	4.926	5.143	5.052	5.084	5.216
2	ICB	.0023	.0215	.0095	.0029	.0001	.0005
3	LLS	.0170	.1191	.2099	.1020	.1022	.0113
4	ICSA	.0050	246.5	-.0742	-.0029	.0021	.0007
5	ICSAB	.9766	244.2	-.0811	-.0009	.4984	.4936
6	PREPBLKTJA	.0008	.0321	.0105	2.869	-.0001	.0004
7	S96T001255_L	.0521	1.771	.2089	3.835	.0063	.0051
8	S96T001255	.0352	1.542	.0131	3.820	.0057	.0011
9	S96T001255_D	.0342	1.791	.0043	3.034	.0118	.0011
10	S96T001255_A	1.410	3.480	2.083	5.780	2.012	2.077
11	CCV	4.912	4.954	5.186	5.072	5.112	5.245
12	CCB	.0027	.0218	.0015	.0054	.0001	.0005
13	S96T001256_L	.0394	.9121	.0804	3.710	.0054	.0054
14	S96T001256	.0326	.7269	.0202	3.707	.0052	.0009
15	S96T001256_D	.0329	.8115	.0136	3.768	.0046	.0008
16	S96T001256_A	1.774	2.686	2.098	5.681	1.993	2.054
17	ICSA	.0074	242.4	-.0610	.0033	.0019	.0006
18	ICSAB	.9672	240.7	-.0945	.0001	.4864	.4854
19	CCV_1	4.863	4.874	5.106	4.962	4.972	5.168
20	CCB_1	.0025	.0186	.0149	.0012	.0001	.0004

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.114	4.950	4.864	5.187	4.904	4.967
2	ICB	.0238	.0022	.0005	.0036	.0019	.0011
3	LLS	.2220	.2066	.0096	.2117	.0415	.0217
4	ICSA	.0144	252.7	-.0001	.0194	.0022	.0106
5	ICSAB	.0597	249.5	.9419	.0252	.4680	.4883
6	PREPBLKTJA	.0244	-.0048	-.0003	.0071	-.0006	.0004
7	S96T001255_L	.1966	.1936	.0096	.0818	.0106	.1507
8	S96T001255	.0775	.1462	.0010	.0150	.0048	.1437
9	S96T001255_D	.1333	.3628	.0023	.0080	.0036	.1622
10	S96T001255_A	2.114	2.191	1.987	2.098	1.999	2.157
11	CCV	5.114	5.061	4.930	5.231	4.956	5.025
12	CCB	.0316	.0009	.0006	.0040	.0008	.0011
13	S96T001256_L	.3258	.0733	.0071	.0144	.0142	.1468
14	S96T001256	.0428	.0664	.0002	.0041	-.0001	.1297
15	S96T001256_D	.0360	.0641	.0005	.0257	.0024	.1279
16	S96T001256_A	2.117	2.094	1.970	2.071	1.987	2.134
17	ICSA	.0115	250.0	.0001	.0192	.0013	.0092
18	ICSAB	.0114	249.6	.9366	.0207	.4635	.4848
19	CCV_1	4.995	5.030	4.879	5.096	4.910	4.975
20	CCB_1	.0168	.0015	.0007	.0059	.0012	.0020

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.304	-.0045	5.029	4.819	5.118	5.214
2	ICB	.0018	-.0026	.0010	.1739	.0009	-.0016
3	LLS	.0232	-.0019	.1067	Q.6372	.1052	.0202
4	ICSA	-.0088	-.0292	95.52	.2805	-.0043	.0006
5	ICSAB	.5066	-.0250	94.16	.3923	-.0035	1.016

Analysis Report Averages Fri 05-24-96 02:26:11 PM page 3

#	Sample Name	Cu	Eu	Fe	K	La	Li
6	PREPBLKTJA	.0004	-.0011	.0011	-.0316	-.0004	.0023
7	S96T001255_L	.0310	-.0216	.8954	1.532	.0107	.0023
8	S96T001255	.0074	-.0042	.8977	1.372	.0043	.0099
9	S96T001255_D	.0177	-.0043	3.866	.9557	.0015	.0110
10	S96T001255_A	2.116	-.0050	2.911	3.371	2.052	2.052
11	CCV	5.307	-.0040	5.094	4.838	5.152	5.190
12	CCB	.0029	-.0023	.0010	.0299	.0001	-.0015
13	S96T001256_L	.0348	-.0213	1.491	1.425	-.0001	.0248
14	S96T001256	.0068	-.0042	1.474	1.219	.0006	.0327
15	S96T001256_D	.0058	-.0039	.8080	1.064	.0032	.0330
16	S96T001256_A	2.099	-.0044	3.469	2.839	2.030	2.059
17	ICSA	-.0088	-.0328	94.16	.2515	-.0042	.0016
18	ICSAB	.4947	-.0315	93.53	.2194	-.0047	.9890
19	CCV_1	5.200	-.0031	5.009	4.845	5.016	5.091
20	CCB_1	.0022	-.0017	.0011	.1368	.0003	-.0010

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.920	4.820	4.953	5.049	5.193	4.862
2	ICB	.0159	-.0005	.0040	-.0164	.0010	-.0038
3	LLS	.2272	.0189	.1010	.2044	.2080	.0380
4	ICSA	253.3	-.0071	-.0031	203.7	.0070	-.0070
5	ICSAB	251.5	.4486	-.0082	202.8	.0071	.9200
6	PREPBLKTJA	.0089	-.0003	.0018	3.930	.0022	-.0039
7	S96T001255_L	.2436	.0048	.0258	460.4	.0351	-.0040
8	S96T001255	.1612	.0084	.0111	457.7	.0098	-.0015
9	S96T001255_D	.2158	.0376	.0079	463.8	.0049	.0109
10	S96T001255_A	2.118	1.922	2.037	452.6	2.076	1.974
11	CCV	4.939	4.877	5.017	5.052	5.213	4.953
12	CCB	.0206	-.0004	.0004	-.0147	.0041	-.0019
13	S96T001256_L	.2110	.0033	.0418	417.4	.0216	-.0776
14	S96T001256	.0562	.0060	.0082	414.6	.0052	-.0086
15	S96T001256_D	.0507	.0031	.0123	418.5	.0038	-.0026
16	S96T001256_A	1.999	1.907	2.013	411.9	2.051	1.974
17	ICSA	249.9	-.0069	-.0047	198.7	.0084	-.0136
18	ICSAB	248.5	.4463	-.0041	197.9	.0098	.9121
19	CCV_1	4.862	4.821	4.958	4.959	5.074	4.883
20	CCB_1	.0152	-.0002	.0038	-.0092	.0027	-.0021

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.891	4.807	4.810	4.763	4.937	4.668
2	ICB	.0069	.0025	.0029	.0085	.0606	-.0078
3	LLS	.4177	.2103	.2135	.1058	Q.2556	.1383
4	ICSA	.0150	.0304	-.0274	.0135	-.0172	-.0100
5	ICSAB	.0157	1.004	-.0207	-.0018	-.0282	-.0140
6	PREPBLKTJA	-.0105	-.0088	.0383	.0010	.0583	6.576
7	S96T001255_L	45.28	.0780	25.13	.0740	.6500	7.479
8	S96T001255	45.99	.0459	25.38	.0222	.1120	7.598
9	S96T001255_D	48.72	.1156	25.36	.0326	.1174	6.462
10	S96T001255_A	46.80	2.040	26.70	1.949	2.074	9.611
11	CCV	4.837	4.888	4.834	4.818	4.972	4.736

WHC-SD-WM-DP-140, REV. 1

Analysis Report Averages Fri 05-24-96 02:26:11 PM page 4

#	Sample Name	P	Pb	S	Sb	Se	Si
12	CCB	.0138	.0099	.0043	.0138	.0636	-.0006
13	S96T001256_L	36.97	.1328	23.52	.0505	.6999	6.544
14	S96T001256_	37.19	.0437	23.65	.0044	.1322	6.252
15	S96T001256_D	38.56	.0285	23.50	.0068	.1455	6.403
16	S96T001256_A	38.28	1.985	25.21	1.926	2.060	8.191
17	ICSA	.0115	.0229	-.0243	.0190	-.0160	-.0019
18	ICSAB	.0337	1.005	-.0213	.0058	-.0019	-.0075
19	CCV_1	4.863	4.855	4.798	4.767	4.921	4.689
20	CCB_1	-.0047	.0024	-.0069	.0054	.0744	-.0024

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.008	5.051	.0152	4.935	4.850	9.921
2	ICB	-.0342	-.0004	.0124	.0005	-.0054	-.1121
3	LLS	.1847	.0205	.0084	.0211	.4101	.4250
4	ICSA	-.0250	.0016	.0163	.0022	.0114	-.0404
5	ICSAB	-.0281	.0016	.0218	.0024	.0341	-.0385
6	PREPBLKTJA	-.0174	-.0003	.0092	.0007	-.0150	-.0379
7	S96T001255_L	-.2516	.0140	.1566	.0124	-.0132	-.8353
8	S96T001255_	-.0527	.0173	.0248	.0084	.0382	-.0133
9	S96T001255_D	-.0484	.0641	.0198	.0173	-.0295	.8463
10	S96T001255_A	1.952	2.033	.0252	1.990	1.907	3.932
11	CCV	5.031	5.081	.0157	4.976	4.852	9.971
12	CCB	-.0307	-.0004	.0128	.0010	-.0039	-.1075
13	S96T001256_L	-.2360	.0171	.1136	.0118	-.2537	-.0088
14	S96T001256_	-.0426	.0194	.0217	.0053	-.0256	.7114
15	S96T001256_D	-.0449	.0144	.0247	.0050	.0067	.2799
16	S96T001256_A	1.941	2.014	.0240	1.965	1.883	4.640
17	ICSA	-.0182	.0015	.0197	.0017	-.0309	-.0255
18	ICSAB	-.0147	.0016	.0128	.0021	.0011	-.0113
19	CCV_1	4.890	4.958	.0181	4.864	4.805	9.709
20	CCB_1	-.0190	-.0003	.0132	.0005	-.0161	-.0747

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.986	.0047	4.873	4.939
2	ICB	-.0053	-.0014	.0001	-.0056
3	LLS	.0997	-.0006	.0203	.0158
4	ICSA	-.0044	.0058	.0080	-.0086
5	ICSAB	.4740	.0060	.9649	-.0097
6	PREPBLKTJA	-.0026	-.0005	-.0004	-.0030
7	S96T001255_L	-.0376	-.0098	.0278	-.0416
8	S96T001255_	-.0052	-.0016	.0254	-.0019
9	S96T001255_D	-.0042	-.0013	.0402	-.0012
10	S96T001255_A	2.007	.0008	2.034	1.982
11	CCV	5.038	.0052	4.936	4.985
12	CCB	-.0049	-.0012	.0003	-.0056
13	S96T001256_L	-.0304	-.0102	.0392	-.0358
14	S96T001256_	-.0062	-.0016	.0231	-.0018
15	S96T001256_D	-.0050	-.0015	.0236	-.0022
16	S96T001256_A	1.995	.0010	2.030	1.965
17	ICSA	-.0037	.0061	.0051	-.0084

WHC-SD-WM-DP-140, REV. 1

Analysis Report Averages Fri 05-24-96 02:26:11 PM page 5

#	Sample Name	V	Y	Zn	Zr
18	ICSAB	.4700	.0065	.9603	-.0070
19	CCV 1	4.966	.0054	4.917	4.884
20	CCB_1	-.0036	-.0008	.0006	-.0047

DK Lab
05-24-96

LABCORE Data Entry Template for Worklist# 9495

Analyst: B. GOECKE **Instrument:** ICP01 _____ **Book#** 53B48B

Method: LA-505-151/~~161~~ 80 6/3/96 Rev/Mod D-3

Worklist Comment: ICP B-106 (SOLID WATER DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	LLS				@ICP-QC	QC		
4	ICSA				@ICP-QC	QC		
5	ICSAB				@ICP-QC	QC		
6	PREPBLKARL				@ICP-I01	SOLID		
7	SAMPLE	S96T001224	0	I	@ICP-I01	SOLID	95000096	B-106
	Analytes Requested:	AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01						
8	DUP	S96T001224	0	I	@ICP-I01	SOLID		
9	SPK	S96T001224	0	I	@ICP-I01	SOLID		
10	ICSA				@ICP-QC	QC		
11	ICSAB				@ICP-QC	QC		
12	CCV				@ICP-QC	QC		
13	CCB				@ICP-QC	QC		

Data Entry Comments: Example for sample result calculation:

$$Al = 0.785 \frac{ug}{ml} \times \frac{1}{4.278 \frac{g}{L} \times \frac{1L}{1000ml}} = 1.84e+2 \frac{ug}{g}$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

346

Note: 4.278 $\frac{g}{L}$ is sample prep dilution factor which can be found in sample prep worklist.

LABCORE Data Entry Template for Worklist# 9495

S Type	Sample#	R	A	Test	Matrix	Group#	Project

Final page for worklist # 9495

for: Saul M. Parry

B. J. GOECKE 6/3/96
Analyst Signature Date

Reviewed by:
Saul M. Parry 6/3/96
Analyst Signature Date

			D.F.
prepblkARL	DIRECT		1
S96T001224_L	4-6,	2-8	12.5
1224	4-6		2.5
1224_D	4-6		2.5
1224_A	4-2-4		2.5

Data Entry Comments:

Example for spike recovery calculation:

$$Al = \frac{\left(\frac{3.23}{2.5}\right) - \left(\frac{0.785}{2.5}\right)}{1} \times 100 = 97.8\%$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: Spike true value is 1.0 ppm for all elements except for Al = 2.0 ppm.

WHC-SD-WM-DP-140, REV. 1

Identity 1: ICV Identity 2: Quality Control 1:00 PM May 29, 1996
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	4.928	5.015	4.959	4.769	4.882	4.952	5.050	5.014
S.D.	0.009	0.016	0.034	0.008	0.007	0.000	0.022	0.038
% R.S.D.	0.181	0.310	0.677	0.163	0.136	0.000	0.426	0.756

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	4.946	4.963	5.069	5.043	4.983	4.972	5.298	9.629
S.D.	0.004	0.005	0.007	0.022	0.014	0.010	0.017	0.049
% R.S.D.	0.071	0.103	0.132	0.428	0.281	0.208	0.324	0.508

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.150	5.063	5.042	5.065	4.872	4.768	5.047	4.951
S.D.	0.017	0.015	0.019	0.099	0.006	0.004	0.024	0.032
% R.S.D.	0.329	0.295	0.381	1.960	0.114	0.081	0.483	0.650

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.958	5.129	4.852	4.969	4.874	4.973	5.030	4.936
S.D.	0.009	0.026	0.008	0.007	0.009	0.004	0.013	0.023
% R.S.D.	0.178	0.501	0.173	0.142	0.187	0.071	0.266	0.469

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	4.981	4.730	5.000	5.169	4.832
S.D.	0.003	0.014	0.003	0.012	0.017
% R.S.D.	0.066	0.297	0.063	0.230	0.353

5-29-96
B-106 H_2O DIGEST
S96T001224
FILE # 960529A.DAT

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 348 TO 361.

WHC-SD-WM-DP-140, REV. 1

Identity 1: ICB Identity 2: Quality Control 1:05 PM May 29, 1996
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	0.002	0.000	-0.003	0.007	-0.012	0.002	-0.000	0.000
S.D.	0.001	0.000	0.000	0.002	0.006	0.002	0.000	0.000
% R.S.D.	54.224	114.564	7.017	27.928	45.432	87.096	273.548	227.110

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	-0.001	0.006	-0.003	-0.004	0.001	-0.001	0.109
S.D.	0.000	0.001	0.003	0.003	0.000	0.001	0.009	0.027
% R.S.D.	357.060	107.318	51.514	89.597	4.548	161.298	755.182	24.527

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.001	0.009	0.000	-0.025	0.004	-0.000	-0.005	0.001
S.D.	0.006	0.008	0.000	0.006	0.003	0.000	0.001	0.001
% R.S.D.	664.672	90.846	60.927	24.631	71.371	69.282	19.107	173.227

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.000	0.026	-0.001	-0.019	0.001	-0.000	0.004	0.070
S.D.	0.001	0.004	0.001	0.002	0.000	0.001	0.000	0.019
% R.S.D.	4822678.100	13.739	82.480	8.792	32.741	212.689	8.033	26.673

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.062	-0.000	0.000	-0.030
S.D.	0.000	0.010	0.001	0.000	0.005
% R.S.D.	77.559	16.577	325.293	42.482	16.744

WHC-SD-WM-DP-140, REV. 1

Identity 1: LLS Identity 2: Quality Control 1:08 PM May 29, 1996
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	0.022	0.022	0.216	0.130	0.101	0.043	0.021	0.021
S.D.	0.001	0.000	0.007	0.005	0.006	0.003	0.000	0.000
% R.S.D.	4.484	1.040	3.248	3.846	5.516	7.136	1.434	2.325

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.022	0.041	0.101	0.103	0.190	0.022	0.193	0.466
S.D.	0.000	0.002	0.003	0.003	0.001	0.001	0.007	0.063
% R.S.D.	0.771	4.165	3.319	2.504	0.519	3.035	3.392	13.538

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.212	0.237	0.103	0.447	0.199	0.197	0.193	0.202
S.D.	0.014	0.010	0.000	0.024	0.004	0.000	0.003	0.002
% R.S.D.	6.771	4.191	0.272	5.276	2.197	0.178	1.755	1.136

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.100	0.224	0.020	0.204	0.023	0.011	0.107	0.514
S.D.	0.001	0.007	0.001	0.011	0.000	0.001	0.001	0.019
% R.S.D.	0.643	2.924	4.903	5.258	1.863	8.757	0.919	3.768

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.022	0.135	0.103	0.012	0.346
S.D.	0.000	0.059	0.001	0.000	0.016
% R.S.D.	1.593	43.740	1.096	3.078	4.622

WHC-SD-WM-DP-140, REV. 1

Identity 1: ICSA Identity 2: Quality Control 1:12 PM May 29, 1996
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	0.000	0.002	-0.018	0.018	198.665	0.006	0.001	0.001
S.D.	0.001	0.000	0.009	0.002	0.319	0.002	0.000	0.000
% R.S.D.	389.943	5.587	51.799	12.332	0.160	28.361	11.035	30.173

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.006	0.004	0.007	97.023	104.927	-0.000	-0.007	-0.002
S.D.	0.001	0.003	0.002	0.149	0.149	0.003	0.003	0.038
% R.S.D.	10.097	70.456	24.002	0.154	0.142	738.438	51.789	1560.151

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.023	0.020	0.004	0.033	-0.034	103.913	0.032	190.070
S.D.	0.008	0.006	0.000	0.006	0.012	0.059	0.009	0.356
% R.S.D.	35.129	28.718	5.037	18.395	33.799	0.057	28.251	0.187

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.032	0.003	-0.015	0.001	0.000	0.016	0.017
S.D.	0.000	0.004	0.001	0.009	0.000	0.000	0.001	0.020
% R.S.D.	44.402	12.627	27.941	58.642	26.726	946.777	6.754	118.523

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	0.020	-0.000	0.003	0.002
S.D.	0.000	0.014	0.001	0.000	0.021
% R.S.D.	6.618	69.635	817.549	8.713	871.286

WHC-SD-WM-DP-140, REV. 1

Identity 1: ICSAB Identity 2: Quality Control 1:15 PM May 29, 1996
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	0.001	0.002	-0.019	0.015	197.827	0.496	0.501	0.947
S.D.	0.001	0.000	0.019	0.002	0.516	0.004	0.003	0.007
% R.S.D.	180.525	5.774	103.031	12.893	0.261	0.719	0.651	0.776

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.999	0.982	0.004	97.569	105.770	0.512	-0.002	0.160
S.D.	0.002	0.002	0.003	0.301	0.244	0.003	0.015	0.058
% R.S.D.	0.161	0.199	75.914	0.309	0.231	0.520	703.530	36.218

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.006	0.033	0.514	0.022	-0.045	105.272	0.012	190.452
S.D.	0.012	0.010	0.002	0.006	0.009	0.242	0.009	1.275
% R.S.D.	226.516	29.715	0.482	26.191	20.359	0.230	78.307	0.669

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.000	1.024	1.001	0.002	1.006	0.016	0.042
S.D.	0.002	0.002	0.002	0.006	0.000	0.004	0.000	0.005
% R.S.D.	147.407	3236.903	0.205	0.566	14.351	0.406	1.840	12.630

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.512	-0.013	0.498	0.507	-0.056
S.D.	0.001	0.041	0.001	0.001	0.024
% R.S.D.	0.242	323.195	0.271	0.288	43.400

WHC-SD-WM-DP-140, REV. 1

Identity 1: prepblkarl Identity 2: direct 1:20 PM May 29, 1996
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	-0.001	0.000	-0.013	0.000	0.048	-0.003	0.000	0.000
S.D.	0.000	0.000	0.001	0.002	0.006	0.000	0.000	0.000
% R.S.D.	8.868	43.301	9.938	3755.933	11.920	0.112	60.988	39.038

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	-0.003	0.000	0.027	0.021	0.001	-0.011	-0.062
S.D.	0.000	0.002	0.000	0.003	0.003	0.000	0.002	0.027
% R.S.D.	24.383	59.841	2.736	10.528	13.871	69.830	14.694	43.655

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.019	-0.017	0.001	0.001	-0.002	0.023	0.005	0.055
S.D.	0.007	0.005	0.000	0.001	0.001	0.003	0.003	0.008
% R.S.D.	38.953	31.366	25.593	73.013	26.702	12.513	63.063	15.023

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.000	0.000	0.001	-0.021	0.000	-0.000	-0.000	-0.067
S.D.	0.001	0.009	0.000	0.004	0.000	0.001	0.000	0.006
% R.S.D.	399.457	21034.317	23.351	18.478	228.249	348.849	496.221	8.327

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	0.056	-0.001	0.000	-0.011
S.D.	0.000	0.030	0.001	0.000	0.011
% R.S.D.	333.643	53.088	93.894	1.526	100.387

WHC-SD-WM-DP-140, REV 1

Identity 1: S96T001224_L Identity 2: 4ml-6ml-2ml-8ml 1:23 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 12.50
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	0.017	-0.097	14.483	0.838	0.116	0.016	0.035
S.D.	0.012	0.001	0.079	0.024	0.072	0.039	0.003	0.005
% R.S.D.	267.580	4.762	81.589	0.166	8.556	33.284	19.657	15.048

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.391	-0.018	0.012	0.941	0.833	0.138	-0.113	-0.197
S.D.	0.003	0.015	0.038	0.061	0.035	0.006	0.041	0.473
% R.S.D.	0.693	87.346	314.642	6.442	4.243	4.140	36.530	240.484

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.149	-0.124	0.012	48.981	21.323	0.214	0.026	413.318
S.D.	0.106	0.090	0.003	0.784	0.283	0.033	0.033	1.352
% R.S.D.	71.027	72.796	21.450	1.601	1.325	15.410	124.329	0.327

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.014	-0.169	0.004	-0.114	0.008	0.008	4.176	1.115
S.D.	0.012	0.139	0.003	0.083	0.006	0.013	0.051	0.154
% R.S.D.	91.650	82.483	59.449	72.182	79.833	156.164	1.229	13.855

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.013	0.399	-0.008	-0.001	-0.161
S.D.	0.002	0.180	0.014	0.002	0.199
% R.S.D.	16.190	44.949	186.467	164.528	123.590

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

Identity 1: S96T001224 Identity 2: 4ml-6ml 1:27 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
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	0.030	0.016	0.051	15.043	0.785	-0.005	0.001	0.028
S.D.	0.005	0.000	0.034	0.025	0.015	0.004	0.002	0.001
% R.S.D.	16.619	3.160	66.507	0.168	1.959	84.649	143.109	3.749

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.049	0.026	0.008	0.757	0.168	0.139	-0.003	0.662
S.D.	0.000	0.005	0.008	0.005	0.004	0.007	0.041	0.245
% R.S.D.	0.836	19.398	100.076	0.683	2.227	4.767	1282.870	36.964

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.058	-3.216	0.005	49.025	21.498	0.105	0.002	411.465
S.D.	0.074	0.053	0.001	1.079	0.153	0.004	0.006	2.884
% R.S.D.	127.914	1.643	24.467	2.202	0.711	3.432	340.021	0.701

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Tl (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.070	-0.005	-0.023	0.014	-0.003	4.212	0.680
S.D.	0.002	0.025	0.003	0.032	0.002	0.001	0.015	0.052
% R.S.D.	358.666	35.400	60.735	141.190	13.159	29.595	0.363	7.682

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.010	0.137	-0.009	-0.001	-0.234
S.D.	0.001	0.089	0.003	0.000	0.116
% R.S.D.	8.401	65.044	34.589	49.121	49.491

WHC-SD-WM-DP-140, REV. 1

Identity 1: S96T001224_D Identity 2: 4ml-6ml 1:30 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
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	0.011	0.017	0.051	15.370	0.808	-0.000	0.005	0.031
S.D.	0.003	0.000	0.037	0.024	0.013	0.000	0.000	0.000
% R.S.D.	24.758	0.980	71.793	0.157	1.562	759.251	8.699	0.686

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.037	0.007	0.010	0.763	0.153	0.150	-0.013	0.013
S.D.	0.000	0.005	0.002	0.017	0.001	0.002	0.028	0.071
% R.S.D.	0.846	61.917	21.666	2.237	0.632	1.641	211.013	536.907

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.037	-0.012	0.007	50.300	21.869	0.095	-0.013	417.122
S.D.	0.018	0.010	0.000	1.198	0.203	0.001	0.006	2.061
% R.S.D.	48.322	85.248	4.706	2.382	0.928	0.677	49.352	0.494

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.005	0.071	0.000	0.052	0.009	0.000	4.110	0.631
S.D.	0.002	0.010	0.000	0.025	0.001	0.001	0.016	0.028
% R.S.D.	35.550	13.410	176.901	49.080	6.818	418.703	0.392	4.413

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.012	0.081	-0.002	-0.000	-0.024
S.D.	0.000	0.106	0.002	0.001	0.026
% R.S.D.	3.462	130.387	141.908	15948.554	105.640

WHC-SD-WM-DP-140, REV. 1

Identity 1: S96T001224_A Identity 2: 4ml-2ml sst5 -4ml 1:34 PM May 29, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.50
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	2.497	2.521	2.557	17.365	3.230	2.549	2.542	2.428
S.D.	0.004	0.004	0.016	0.006	0.006	0.008	0.003	0.008
% R.S.D.	0.174	0.174	0.643	0.032	0.190	0.304	0.122	0.317

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	2.565	2.546	2.542	3.344	2.562	2.692	2.576	4.995
S.D.	0.005	0.004	0.022	0.045	0.005	0.005	0.010	0.078
% R.S.D.	0.204	0.143	0.874	1.333	0.178	0.186	0.383	1.570

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	2.566	2.508	2.505	50.731	23.828	2.478	2.533	407.950
S.D.	0.017	0.014	0.004	1.448	0.375	0.006	0.018	1.160
% R.S.D.	0.664	0.546	0.165	2.854	1.573	0.254	0.730	0.284

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	2.520	2.500	1.169	2.632	2.456	2.519	6.698	3.279
S.D.	0.009	0.034	0.003	0.051	0.004	0.005	0.011	0.061
% R.S.D.	0.366	1.359	0.294	1.937	0.159	0.212	0.161	1.850

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	2.553	2.534	2.545	2.572	2.365
S.D.	0.003	0.012	0.004	0.002	0.022
% R.S.D.	0.122	0.493	0.153	0.060	0.927

Identity 1: ICSA Identity 2: Quality Control 1:37 PM May 29, 1996
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	0.002	0.002	-0.016	0.019	197.382	0.002	0.001	0.001
S.D.	0.001	0.000	0.006	0.004	0.374	0.002	0.000	0.000
% R.S.D.	55.252	4.676	35.994	23.375	0.189	81.871	71.849	74.008

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.005	0.006	0.008	97.755	105.678	0.003	-0.010	0.079
S.D.	0.001	0.002	0.001	0.243	0.223	0.001	0.017	0.057
% R.S.D.	11.914	27.911	18.262	0.248	0.211	50.517	174.177	72.650

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.003	0.029	0.004	0.055	-0.031	103.059	0.017	190.120
S.D.	0.016	0.014	0.000	0.009	0.012	0.087	0.004	0.718
% R.S.D.	523.302	48.474	6.381	15.960	38.530	0.084	25.000	0.378

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.023	0.001	-0.006	0.002	-0.002	0.015	-0.034
S.D.	0.001	0.009	0.001	0.008	0.000	0.001	0.001	0.014
% R.S.D.	119.251	37.911	62.980	122.291	27.852	32.955	8.325	40.518

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.005	-0.012	-0.001	0.003	-0.020
S.D.	0.001	0.004	0.001	0.000	0.021
% R.S.D.	10.121	30.165	50.583	4.850	107.909

Identity 1: ICSAB Identity 2: Quality Control 1:41 PM May 29, 1996
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	-0.002	0.002	-0.041	0.002	196.807	0.494	0.500	0.943
S.D.	0.000	0.000	0.007	0.002	0.070	0.005	0.000	0.005
% R.S.D.	20.463	1.715	18.023	89.673	0.035	1.086	0.073	0.484

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.989	0.980	0.003	97.401	105.338	0.504	-0.003	-0.012
S.D.	0.003	0.008	0.003	0.155	0.096	0.002	0.013	0.036
% R.S.D.	0.291	0.782	73.432	0.160	0.091	0.352	387.530	312.085

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.025	0.032	0.512	0.073	0.008	104.172	0.008	189.816
S.D.	0.009	0.006	0.001	0.010	0.011	0.115	0.004	0.792
% R.S.D.	36.683	19.799	0,236	13.945	135.463	0.111	54.052	0.417

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.001	1.012	0.986	0.001	0.999	0.016	0.030
S.D.	0.001	0.019	0.001	0.017	0.000	0.001	0.001	0.008
% R.S.D.	48.066	1562.545	0.098	1.677	43.040	0.132	5.147	27.365

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.509	0.041	0.499	0.505	-0.013
S.D.	0.000	0.042	0.001	0.002	0.013
% R.S.D.	0.093	103.381	0.133	0.316	98.300

WHC-SD-WM-DP-140, REV. 1

Identity 1: CCV Identity 2: Quality Control 1:44 PM May 29, 1996
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	4.964	5.024	5.031	4.842	4.947	5.055	5.039	4.980
S.D.	0.003	0.005	0.017	0.006	0.014	0.022	0.010	0.017
% R.S.D.	0.057	0.096	0.332	0.133	0.289	0.429	0.196	0.346

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.074	5.051	5.076	5.145	4.998	5.082	5.257	9.643
S.D.	0.013	0.012	0.014	0.017	0.002	0.018	0.017	0.029
% R.S.D.	0.261	0.239	0.271	0.327	0.033	0.364	0.320	0.303

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.122	5.083	5.028	5.209	5.018	4.888	5.107	5.018
S.D.	0.014	0.004	0.006	0.243	0.097	0.016	0.031	0.001
% R.S.D.	0.275	0.087	0.119	4.668	1.936	0.327	0.601	0.026

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.045	5.248	4.948	5.046	4.911	5.043	5.073	5.059
S.D.	0.011	0.016	0.005	0.026	0.006	0.008	0.008	0.012
% R.S.D.	0.226	0.301	0.106	0.509	0.126	0.151	0.152	0.230

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.058	4.771	5.063	5.206	4.799
S.D.	0.010	0.041	0.008	0.005	0.029
% R.S.D.	0.200	0.852	0.168	0.086	0.596

WHC-SD-WM-DP-140, REV. 1

Identity 1: CCB Identity 2: Quality Control 1:47 PM May 29, 1996
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	0.002	0.000	-0.005	0.009	0.049	-0.002	-0.001	0.000
S.D.	0.000	0.000	0.011	0.000	0.021	0.002	0.000	0.000
% R.S.D.	12.345	125.967	214.801	0.277	41.551	86.192	26.484	756.257

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.003	0.002	0.034	0.030	0.000	-0.024	0.091
S.D.	0.000	0.001	0.003	0.009	0.009	0.001	0.001	0.017
% R.S.D.	48.331	39.477	126.676	26.389	31.650	752.732	5.027	19.221

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.027	0.020	0.000	0.014	0.003	0.032	0.001	0.093
S.D.	0.008	0.003	0.000	0.011	0.004	0.009	0.004	0.021
% R.S.D.	27.597	13.769	104.841	74.145	141.556	29.155	478.395	22.903

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.016	-0.001	-0.011	0.002	0.002	0.004	-0.050
S.D.	0.000	0.007	0.000	0.001	0.000	0.001	0.001	0.015
% R.S.D.	263.413	46.471	27.607	8.963	3.491	33.278	41.178	29.504

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.052	-0.003	0.001	-0.080
S.D.	0.000	0.034	0.001	0.000	0.015
% R.S.D.	80.125	64.638	24.362	64.174	18.411

File # 960524A.DAT

WHC-SD-WM-DP-140, REV. 1

LABCORE Data Entry Template for Worklist# 9560

Analyst: J. WORRELL **Instrument:** ICP01 _____ **Book#** 53B48B

Method: LA-505-151/~~161~~ Rev/Mod D-3
gr 6/4/96

Worklist Comment: ICP B-106 (SOLID WATER DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	LLS				@ICP-QC	QC		
4	ICSA				@ICP-QC	QC		
5	ICSAB				@ICP-QC	QC		
6	PREPBLKARL				@ICP-I01	SOLID		
7	SAMPLE	S96T001257	0	I	@ICP-I01	SOLID	95000096	B-106
		Analytes Requested:			AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01			
8	DUP	S96T001257	0	I	@ICP-I01	SOLID		
9	SPK	S96T001257	0	I	@ICP-I01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S96T001258	0	I	@ICP-I01	SOLID	95000096	B-106
		Analytes Requested:			AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01			

Data Entry Comments: Example for calculation of sample results:

S96T001257 Al = $0.637 \frac{ug}{g} \times \frac{1}{4.628 \frac{g}{L} \times \frac{1L}{1000ml}} = 1.38e+2 \frac{ug}{g}$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: $4.628 \frac{g}{L}$ is sample prep dilution factor which can be found in sample prep worklist.

LABCORE Data Entry Template for Worklist# 9560

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	DUP	S96T001258	0	I	@ICP-I01	SOLID		
14	SPK	S96T001258	0	I	@ICP-I01	SOLID		
15	ICSA				@ICP-QC	QC		
16	ICSAB				@ICP-QC	QC		
17	CCV				@ICP-QC	QC		
18	CCB				@ICP-QC	QC		

Final page for worklist # 9560

Saul M. Parry for:
J. Worrell 5/24/96
Analyst Signature **Date**

Reviewed by:
Saul M. Parry 6/4/96
Analyst Signature **Date**

Data Entry Comments: True value for spike amount added is 1.0 ppm for all elements except for Al = 2.0 ppm. Example for calculation of spike recovery:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

363

S96T001257 $Al = \frac{\left(\frac{1.851}{1.3}\right) - \left(\frac{0.637}{1.3}\right)}{1} \times 100 = 93.3\%$

Identity 1: ICV Identity 2: Quality Control 10:34 AM May 24, 1996
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	4.919	4.841	4.914	4.723	4.845	5.103	4.937	4.789
S.D.	0.007	0.012	0.033	0.012	0.014	0.014	0.011	0.020
% R.S.D.	0.148	0.239	0.667	0.262	0.289	0.275	0.215	0.411

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.156	5.030	4.994	5.108	4.920	5.084	5.123	8.859
S.D.	0.015	0.009	0.008	0.006	0.010	0.015	0.023	0.015
% R.S.D.	0.286	0.186	0.153	0.120	0.210	0.295	0.452	0.167

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.895	4.831	4.834	5.112	4.917	4.871	5.047	4.761
S.D.	0.027	0.009	0.011	0.095	0.027	0.010	0.029	0.023
% R.S.D.	0.543	0.191	0.224	1.864	0.548	0.206	0.570	0.491

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.046	4.901	4.905	5.046	4.866	5.034	5.107	4.916
S.D.	0.014	0.016	0.007	0.013	0.011	0.008	0.010	0.028
% R.S.D.	0.284	0.334	0.145	0.259	0.234	0.157	0.187	0.576

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.030	4.744	5.088	5.106	4.799
S.D.	0.004	0.014	0.009	0.011	0.007
% R.S.D.	0.085	0.285	0.183	0.206	0.142

Jol Worell 5-24-96 D.F.

596T001257_L - 5X
SAM - DIRECT
DUP - DIRECT
SPK - 1ml SST-5 - 4ml SAMP. 1.3

596T001258_L - 5X
SAM - 2.5ml - 2.5ml
DUP - 4ml - 4ml
SPK - 2.5ml samp + 1ml SPK + 1.5ml 2% HNO3 2.0

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 364 TO 382

05/24/96 12:14 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 003

Identity 1: ICB Identity 2: Quality Control 10:38 AM May 24, 1996
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	-0.008	0.000	-0.023	-0.010	0.006	0.002	0.002	0.000
S.D.	0.001	0.000	0.013	0.006	0.005	0.003	0.000	0.000
% R.S.D.	9.292	30.551	54.936	57.881	84.633	147.407	24.083	110.225

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	-0.000	0.001	0.003	0.001	0.001	-0.005	-0.275
S.D.	0.001	0.002	0.001	0.002	0.000	0.001	0.006	0.040
% R.S.D.	43.550	4835.997	171.370	59.312	26.087	94.519	115.551	14.719

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.019	-0.068	0.000	0.008	-0.009	0.001	0.014	-0.000
S.D.	0.009	0.008	0.000	0.017	0.004	0.000	0.004	0.006
% R.S.D.	46.387	12.134	421.426	220.629	43.818	33.333	30.846	1635869.036

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.063	-0.001	0.002	-0.001	-0.001	0.003	-0.091
S.D.	0.001	0.006	0.001	0.007	0.001	0.000	0.001	0.009
% R.S.D.	90.031	8.890	40.742	294.250	47.510	56.707	27.281	10.400

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.054	0.001	0.000	-0.047
S.D.	0.000	0.044	0.001	0.000	0.031
% R.S.D.	27.503	80.944	104.487	867.509	65.453

05/24/96 12:15 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 004

Identity 1: ICSA Identity 2: Quality Control 10:42 AM May 24, 1996
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	-0.008	0.003	-0.038	-0.005	197.121	0.006	0.005	0.002
S.D.	0.001	0.000	0.004	0.002	1.066	0.003	0.000	0.000
% R.S.D.	8.182	2.479	11.316	29.993	0.541	48.689	3.247	16.151

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.005	0.002	-0.003	97.245	100.967	0.003	0.079	-0.388
S.D.	0.000	0.002	0.001	0.261	0.328	0.001	0.012	0.033
% R.S.D.	3.218	71.546	31.605	0.269	0.325	28.550	14.922	8.622

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.083	-0.064	0.004	0.039	0.016	102.753	0.025	182.184
S.D.	0.008	0.005	0.000	0.007	0.005	0.543	0.004	0.818
% R.S.D.	9.368	7.854	5.107	16.943	34.290	0.529	17.841	0.449

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.028	0.005	0.041	-0.002	0.001	0.016	0.064
S.D.	0.001	0.014	0.001	0.012	0.000	0.000	0.001	0.018
% R.S.D.	64.141	48.852	14.523	30.549	5.201	32.899	5.198	28.766

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.010	0.014	0.007	0.003	0.070
S.D.	0.000	0.015	0.001	0.000	0.009
% R.S.D.	2.798	104.649	18.271	11.503	12.865

05/24/96 12:15 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 005

Identity 1: ICSAB Identity 2: Quality Control 10:46 AM May 24, 1996
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	-0.008	0.002	-0.036	-0.003	196.903	0.510	0.499	0.917
S.D.	0.001	0.000	0.002	0.002	0.884	0.003	0.002	0.007
% R.S.D.	14.021	3.297	5.799	69.227	0.449	0.610	0.464	0.778

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.021	0.997	-0.001	98.144	102.581	0.511	0.019	-0.205
S.D.	0.001	0.005	0.001	0.273	0.386	0.000	0.004	0.052
% R.S.D.	0.100	0.532	81.375	0.278	0.376	0.054	22.465	25.189

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.012	-0.041	0.502	0.048	0.010	103.050	0.023	185.261
S.D.	0.015	0.011	0.002	0.007	0.006	0.219	0.008	1.256
% R.S.D.	123.206	25.926	0.399	14.519	58.069	0.213	33.627	0.678

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.027	1.017	0.995	-0.001	1.013	0.015	-0.023
S.D.	0.001	0.011	0.001	0.017	0.000	0.002	0.001	0.004
% R.S.D.	59.939	43.111	0.078	1.715	47.407	0.186	6.027	17.299

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.517	0.052	0.508	0.504	-0.056
S.D.	0.002	0.027	0.002	0.003	0.019
% R.S.D.	0.376	52.227	0.316	0.512	34.185

05/24/96 12:16 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 006

Identity 1: ~~a96t001237~~ prepblkARL Identity 2: prepblkARL 11:01 AM May 24, 1996

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	0.001	-0.025	1.001	0.145	0.003	0.011	0.002
S.D.	0.001	0.000	0.017	0.002	0.010	0.002	0.001	0.000
% R.S.D.	8.121	4.124	66.960	0.227	7.142	56.749	7.008	8.120

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.006	-0.001	-0.009	0.015	0.044	0.001	0.013	-0.399
S.D.	0.001	0.001	0.003	0.001	0.000	0.002	0.003	0.013
% R.S.D.	10.300	82.888	26.816	4.238	0.423	152.989	26.228	3.366

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.010	-0.085	0.005	0.031	0.001	0.016	0.006	2.698
S.D.	0.007	0.002	0.000	0.006	0.002	0.000	0.003	0.015
% R.S.D.	73.935	2.840	3.116	17.579	115.078	1.637	53.449	0.539

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.064	-0.000	0.025	-0.000	-0.001	2.508	0.037
S.D.	0.001	0.011	0.000	0.012	0.001	0.001	0.005	0.007
% R.S.D.	80.830	17.158	44.294	48.025	160.480	148.465	0.210	17.974

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.045	0.001	0.000	0.037
S.D.	0.000	0.029	0.001	0.000	0.016
% R.S.D.	14.262	64.338	73.529	32.223	42.055

05/24/96 12:16 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 007

Identity 1: s96t001257 Identity 2: serdil 5x 11:09 AM May 24, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 5.00
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	1.895	0.082	-0.159	5.184	0.690	0.009	0.041	0.007
S.D.	0.004	0.000	0.040	0.019	0.034	0.009	0.002	0.001
% R.S.D.	0.200	0.448	25.155	0.359	4.894	97.892	4.087	14.757

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.058	0.478	-0.006	1.424	0.251	2.275	-0.028	49.868
S.D.	0.002	0.003	0.004	0.010	0.002	0.008	0.026	0.068
% R.S.D.	3.548	0.554	75.446	0.722	0.797	0.330	89.819	0.136

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.149	-0.465	0.015	3.511	5.184	0.038	0.037	203.491
S.D.	0.050	0.059	0.001	0.238	0.058	0.000	0.004	1.311
% R.S.D.	33.585	12.611	8.052	6.779	1.118	1.293	11.512	0.644

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.038	-0.236	0.038	0.394	-0.004	0.070	3.554	1.542
S.D.	0.005	0.033	0.004	0.010	0.002	0.005	0.013	0.082
% R.S.D.	14.439	14.045	11.048	2.655	48.544	7.370	0.367	5.316

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.539	0.253	0.058	-0.001	0.021
S.D.	0.003	0.114	0.001	0.002	0.128
% R.S.D.	0.546	45.071	0.925	135.905	621.061

05/24/96 12:17 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 008

Identity 1: s96t001257 Identity 2: sample 11:17 AM May 24, 1996
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	2.413	0.078	-0.096	5.250	0.637	0.013	0.029	0.004
S.D.	0.005	0.000	0.011	0.007	0.009	0.004	0.000	0.000
% R.S.D.	0.206	0.169	11.863	0.137	1.443	26.604	0.549	9.076

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.015	0.493	0.011	1.412	0.114	2.294	0.054	48.794
S.D.	0.000	0.002	0.002	0.013	0.000	0.003	0.007	0.177
% R.S.D.	2.700	0.433	14.376	0.930	0.142	0.124	12.594	0.362

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.071	-0.143	0.013	4.048	5.168	0.034	0.004	185.618
S.D.	0.012	0.016	0.000	0.131	0.068	0.000	0.006	1.735
% R.S.D.	16.325	11.350	2.225	3.239	1.322	0.578	135.434	0.935

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.036	-0.086	0.037	0.360	0.008	0.064	3.464	1.927
S.D.	0.001	0.006	0.000	0.012	0.000	0.001	0.007	0.014
% R.S.D.	3.370	6.867	1.160	3.344	4.785	0.796	0.202	0.721

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.545	-0.030	0.051	0.001	-0.087
S.D.	0.001	0.036	0.001	0.000	0.019
% R.S.D.	0.163	120.828	2.435	33.118	21.172

05/24/96 12:17 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 009

Identity 1: s96t001257_d Identity 2: dup 11:21 AM May 24, 1996
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	3.292	0.072	-0.086	5.248	0.646	0.008	0.026	0.004
S.D.	0.036	0.000	0.002	0.002	0.005	0.000	0.000	0.000
% R.S.D.	1.092	0.051	1.849	0.044	0.797	0.125	1.069	3.372

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.014	0.483	0.010	1.326	0.111	2.248	0.041	49.395
S.D.	0.001	0.003	0.001	0.011	0.000	0.006	0.015	0.080
% R.S.D.	4.872	0.666	15.199	0.794	0.194	0.279	35.707	0.161

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.081	-0.118	0.012	4.591	5.118	0.032	0.003	189.179
S.D.	0.011	0.009	0.000	0.090	0.047	0.000	0.002	1.192
% R.S.D.	13.780	7.406	1.559	1.958	0.918	0.300	60.728	0.630

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.032	-0.060	0.043	0.344	0.009	0.065	3.435	1.885
S.D.	0.001	0.023	0.001	0.003	0.000	0.000	0.005	0.007
% R.S.D.	2.132	38.084	1.922	0.900	0.474	0.675	0.146	0.369

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.510	-0.016	0.062	0.001	-0.063
S.D.	0.001	0.022	0.002	0.000	0.018
% R.S.D.	0.232	143.476	3.515	14.297	28.611

05/24/96 12:18 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 010

Identity 1: s96t001257_s Identity 2: post spk 1ml-4ml 11:37 AM May 24, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.25
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	4.471	1.291	1.154	6.582	1.851	1.289	1.274	1.128
S.D.	0.006	0.001	0.002	0.009	0.005	0.008	0.002	0.004
% R.S.D.	0.123	0.094	0.158	0.130	0.263	0.628	0.131	0.390

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.325	1.735	1.273	2.601	1.447	3.525	1.378	52.374
S.D.	0.004	0.013	0.005	0.006	0.001	0.014	0.010	0.058
% R.S.D.	0.309	0.777	0.358	0.248	0.049	0.386	0.690	0.111

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.363	1.066	1.224	5.619	6.263	1.230	1.263	193.261
S.D.	0.005	0.005	0.001	0.173	0.081	0.002	0.006	0.679
% R.S.D.	0.341	0.483	0.083	3.088	1.297	0.144	0.512	0.351

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	1.286	1.082	1.172	1.592	1.225	1.325	4.743	3.003
S.D.	0.002	0.015	0.001	0.024	0.001	0.003	0.010	0.028
% R.S.D.	0.173	1.380	0.055	1.478	0.065	0.240	0.202	0.916

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1.770	1.240	1.336	1.263	1.214
S.D.	0.006	0.012	0.000	0.003	0.012
% R.S.D.	0.313	0.950	0.006	0.205	1.001

05/24/96 12:18 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 011

Identity 1: CCV Identity 2: Quality Control 11:44 AM May 24, 1996
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	4.969	4.871	4.942	4.732	4.876	5.168	4.930	4.738
S.D.	0.007	0.011	0.011	0.003	0.012	0.002	0.015	0.024
% R.S.D.	0.140	0.216	0.217	0.066	0.245	0.035	0.301	0.496

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.187	5.071	5.021	5.111	4.924	5.108	5.097	8.726
S.D.	0.009	0.014	0.022	0.017	0.012	0.014	0.006	0.015
% R.S.D.	0.182	0.269	0.441	0.330	0.235	0.281	0.109	0.177

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.952	4.827	4.849	5.306	5.040	4.914	5.095	4.748
S.D.	0.019	0.010	0.013	0.118	0.046	0.004	0.005	0.020
% R.S.D.	0.375	0.203	0.267	2.219	0.917	0.073	0.099	0.421

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Tl (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.089	4.912	4.914	5.031	4.881	5.059	5.095	4.880
S.D.	0.010	0.021	0.006	0.011	0.009	0.006	0.009	0.013
% R.S.D.	0.201	0.433	0.117	0.225	0.182	0.116	0.185	0.266

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.048	4.758	5.104	5.119	4.776
S.D.	0.006	0.034	0.006	0.011	0.008
% R.S.D.	0.126	0.723	0.126	0.209	0.173

05/24/96 12:19 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑012

Identity 1: CCB Identity 2: Quality Control 11:48 AM May 24, 1996
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	0.000	-0.004	-0.008	0.003	0.006	0.001	0.000
S.D.	0.001	0.000	0.006	0.002	0.001	0.002	0.000	0.000
% R.S.D.	12.361	43.644	147.692	28.465	30.572	28.675	13.685	110.223

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	-0.004	-0.004	0.000	0.001	-0.000	-0.024	-0.315
S.D.	0.000	0.002	0.003	0.002	0.000	0.002	0.004	0.005
% R.S.D.	39.341	42.413	82.164	1569.303	28.465	1415.800	16.783	1.452

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.015	-0.067	0.000	0.016	-0.013	0.001	0.003	0.004
S.D.	0.007	0.002	0.000	0.007	0.005	0.000	0.002	0.002
% R.S.D.	45.160	3.665	163.817	46.319	37.110	31.492	61.092	50.006

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.000	-0.039	-0.001	-0.008	-0.002	-0.001	0.006	-0.018
S.D.	0.001	0.001	0.000	0.008	0.000	0.001	0.001	0.005
% R.S.D.	540.809	3.733	15.276	99.342	16.879	130.031	11.396	29.731

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.045	-0.001	0.000	-0.016
S.D.	0.000	0.012	0.000	0.000	0.012
% R.S.D.	20.641	27.200	21.466	67.254	74.064

05/24/96 12:19 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑013

Identity 1: a961258_L Identity 2: 2.5ml-2.5ml-1ml-4ml 12:33 PM May 24, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 10.00
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	-0.049	0.002	-0.011	25.875	4.647	-0.020	0.034	0.096
S.D.	0.007	0.001	0.149	0.009	0.045	0.018	0.004	0.002
% R.S.D.	15.290	41.660	1327.407	0.034	0.965	88.364	11.687	2.286

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.080	0.010	-0.026	0.088	0.572	0.142	0.033	-3.122
S.D.	0.005	0.032	0.016	0.006	0.006	0.023	0.060	0.491
% R.S.D.	5.726	322.880	64.433	6.417	0.977	16.348	179.115	15.737

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.027	-0.785	0.004	27.310	26.840	0.058	0.161	449.760
S.D.	0.085	0.122	0.003	0.856	0.360	0.001	0.025	2.807
% R.S.D.	318.767	15.562	66.393	3.135	1.340	1.682	15.269	0.624

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.019	-0.256	-0.009	0.031	-0.011	-0.007	5.346	0.166
S.D.	0.013	0.105	0.007	0.158	0.001	0.003	0.038	0.164
% R.S.D.	69.134	41.101	73.245	508.437	7.327	42.659	0.719	98.525

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	1.016	0.010	0.001	-0.460
S.D.	0.002	0.075	0.009	0.000	0.111
% R.S.D.	29.527	7.368	97.583	5.717	24.221

05/24/96 12:20 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 014

Identity 1: s961258 Identity 2: 2.5ml-2.5ml 12:37 PM May 24, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.00
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	0.018	0.002	-0.035	26.723	4.692	0.017	0.013	0.095
S.D.	0.001	0.000	0.016	0.084	0.022	0.000	0.001	0.001
% R.S.D.	8.466	8.183	46.433	0.313	0.479	0.037	4.957	0.683

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.012	0.005	-0.009	0.061	0.168	0.152	-0.008	-0.561
S.D.	0.000	0.006	0.002	0.005	0.002	0.003	0.004	0.048
% R.S.D.	0.823	114.735	18.556	8.679	1.123	2.221	54.805	8.569

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.036	-0.104	0.005	27.025	27.602	0.056	0.019	436.339
S.D.	0.018	0.008	0.000	0.497	0.116	0.000	0.005	0.689
% R.S.D.	51.749	7.877	4.773	1.837	0.420	0.606	28.021	0.158

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.008	-0.069	-0.002	0.068	0.007	0.001	5.279	0.707
S.D.	0.001	0.010	0.001	0.018	0.001	0.001	0.009	0.036
% R.S.D.	16.430	14.028	52.251	26.735	17.756	66.642	0.172	5.054

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.002	-0.025	0.005	-0.000	-0.025
S.D.	0.001	0.130	0.001	0.001	0.032
% R.S.D.	23.562	512.790	26.249	673.007	130.077

05/24/96 12:20 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 015

Identity 1: s961258_s Identity 2: 2.5sam+1sst5+1.5hno3 12:42 PM May 24, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.00
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	2.046	2.003	2.011	28.217	6.603	2.091	2.063	1.978
S.D.	0.004	0.010	0.036	0.059	0.029	0.010	0.009	0.014
% R.S.D.	0.177	0.491	1.805	0.209	0.441	0.455	0.427	0.722

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	2.107	2.080	2.070	2.181	2.159	2.217	2.142	3.105
S.D.	0.002	0.009	0.013	0.019	0.010	0.005	0.021	0.077
% R.S.D.	0.117	0.417	0.608	0.858	0.443	0.203	0.995	2.473

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.938	1.890	1.994	29.389	29.190	2.005	2.056	437.148
S.D.	0.006	0.004	0.010	0.437	0.376	0.004	0.018	3.060
% R.S.D.	0.298	0.195	0.520	1.487	1.289	0.177	0.853	0.700

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	2.051	1.950	1.754	2.146	1.996	2.054	7.360	2.571
S.D.	0.010	0.030	0.002	0.032	0.004	0.001	0.012	0.028
% R.S.D.	0.507	1.529	0.113	1.473	0.214	0.038	0.167	1.081

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	2.067	2.077	2.082	2.066	1.851
S.D.	0.003	0.066	0.003	0.007	0.025
% R.S.D.	0.142	3.177	0.145	0.320	1.377

05/24/96 12:21 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 016

Identity 1: s961258_d Identity 2: 4ml-4ml 12:51 PM May 24, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 2.00
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	0.012	0.003	0.023	21.020	2.111	0.004	0.011	0.086
S.D.	0.001	0.000	0.002	0.014	0.001	0.000	0.001	0.000
% R.S.D.	7.474	2.341	6.874	0.065	0.068	0.065	5.768	0.576

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.050	0.017	-0.005	0.089	0.075	0.144	-0.044	-0.578
S.D.	0.000	0.003	0.004	0.007	0.000	0.004	0.011	0.021
% R.S.D.	0.761	17.480	87.103	8.369	0.188	2.787	25.095	3.641

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.026	-0.106	0.004	26.569	25.231	0.038	-0.004	399.546
S.D.	0.013	0.004	0.000	0.053	0.051	0.000	0.006	0.625
% R.S.D.	50.784	3.899	5.093	0.200	0.201	0.509	125.020	0.157

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.006	-0.070	-0.001	0.063	0.006	-0.004	4.789	0.410
S.D.	0.001	0.020	0.001	0.013	0.001	0.001	0.004	0.018
% R.S.D.	21.297	28.957	269.581	20.458	23.151	26.960	0.093	4.501

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.002	0.035	0.003	0.000	-0.013
S.D.	0.000	0.032	0.001	0.000	0.030
% R.S.D.	19.262	91.544	33.720	359.894	233.672

05/24/96 12:22 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 017

Identity 1: ICSA Identity 2: Quality Control 12:54 PM May 24, 1996
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	-0.003	0.002	-0.031	0.004	197.217	0.011	0.002	0.000
S.D.	0.001	0.000	0.019	0.001	0.494	0.002	0.000	0.000
% R.S.D.	21.395	3.409	62.721	23.438	0.250	17.075	11.074	199.219

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.005	0.005	0.002	98.595	101.713	0.003	0.017	-0.177
S.D.	0.000	0.001	0.003	0.348	0.294	0.000	0.004	0.053
% R.S.D.	7.995	11.588	189.471	0.353	0.289	13.783	25.823	30.042

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.003	-0.044	0.003	0.056	0.017	102.057	0.015	181.418
S.D.	0.008	0.010	0.000	0.003	0.012	0.144	0.004	0.599
% R.S.D.	267.519	23.125	5.898	6.227	67.499	0.141	26.004	0.330

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.044	-0.001	-0.021	-0.001	-0.001	0.016	0.069
S.D.	0.002	0.003	0.001	0.005	0.000	0.001	0.001	0.011
% R.S.D.	124.819	7.597	41.448	24.645	23.451	44.268	3.527	16.552

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.008	0.086	-0.000	0.003	-0.048
S.D.	0.000	0.019	0.001	0.000	0.015
% R.S.D.	5.149	22.444	492.288	8.611	31.814

05/24/96 12:22 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 018

Identity 1: ICSAB Identity 2: Quality Control 12:58 PM May 24, 1996
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	-0.011	0.002	-0.036	-0.008	195.234	0.498	0.499	0.910
S.D.	0.000	0.000	0.008	0.003	0.101	0.003	0.001	0.002
% R.S.D.	1.141	4.406	22.186	37.434	0.051	0.625	0.224	0.193

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.000	0.982	-0.001	97.829	101.954	0.504	0.054	-0.321
S.D.	0.001	0.002	0.002	0.262	0.119	0.003	0.002	0.034
% R.S.D.	0.147	0.181	404.521	0.268	0.117	0.621	4.124	10.477

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.017	-0.052	0.501	0.062	0.003	100.797	0.017	183.927
S.D.	0.009	0.009	0.002	0.009	0.010	0.087	0.004	0.218
% R.S.D.	54.305	18.339	0.307	14.956	309.036	0.086	26.217	0.119

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	-0.007	1.003	1.024	-0.002	1.000	0.013	-0.063
S.D.	0.002	0.011	0.001	0.005	0.000	0.000	0.001	0.011
% R.S.D.	3310.831	140.678	0.106	0.478	10.325	0.046	4.914	16.720

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.508	0.045	0.504	0.500	-0.008
S.D.	0.002	0.023	0.001	0.001	0.010
% R.S.D.	0.338	50.620	0.211	0.161	128.328

05/24/96 12:23 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W 019

Identity 1: CCV Identity 2: Quality Control 1:01 PM May 24, 1996
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	4.958	4.896	4.926	4.718	4.910	5.105	4.963	4.755
S.D.	0.008	0.011	0.031	0.008	0.018	0.017	0.011	0.012
% R.S.D.	0.165	0.227	0.637	0.161	0.364	0.335	0.219	0.246

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.137	5.051	5.083	5.185	4.984	5.076	5.342	8.811
S.D.	0.008	0.013	0.013	0.018	0.010	0.025	0.052	0.024
% R.S.D.	0.146	0.261	0.258	0.353	0.192	0.485	0.972	0.275

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.967	4.864	4.882	5.198	4.920	4.892	5.027	4.816
S.D.	0.016	0.011	0.011	0.089	0.050	0.014	0.027	0.014
% R.S.D.	0.324	0.225	0.220	1.705	1.011	0.295	0.531	0.288

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.038	4.904	4.890	5.050	4.872	5.058	5.147	4.916
S.D.	0.014	0.059	0.007	0.020	0.012	0.010	0.008	0.020
% R.S.D.	0.274	1.199	0.143	0.403	0.254	0.198	0.153	0.404

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.039	4.781	5.108	5.142	4.827
S.D.	0.010	0.020	0.012	0.011	0.016
% R.S.D.	0.207	0.420	0.242	0.215	0.331

05/24/96 12:23 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑020

Identity 1: CCB Identity 2: Quality Control 1:05 PM May 24, 1996
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	0.000	-0.004	-0.006	-0.000	0.005	0.001	0.000
S.D.	0.001	0.000	0.010	0.003	0.004	0.000	0.000	0.000
% R.S.D.	15.651	26.956	222.667	40.839	2421.292	0.063	30.393	51.959

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.002	-0.002	0.002	0.004	0.004	0.004	-0.020	-0.237
S.D.	0.000	0.002	0.001	0.002	0.001	0.000	0.004	0.025
% R.S.D.	20.826	111.661	46.231	39.532	12.981	13.414	20.788	10.752

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.010	-0.066	0.000	0.013	-0.009	0.004	0.008	0.021
S.D.	0.007	0.003	0.000	0.012	0.004	0.001	0.002	0.003
% R.S.D.	66.728	4.972	101.267	90.184	40.362	17.321	29.737	11.945

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.041	0.000	-0.003	-0.001	0.000	0.004	-0.010
S.D.	0.001	0.014	0.001	0.010	0.000	0.001	0.000	0.009
% R.S.D.	81.320	34.006	187.993	351.418	60.039	122.289	10.026	98.365

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.010	-0.001	0.000	-0.019
S.D.	0.000	0.033	0.001	0.000	0.012
% R.S.D.	22.445	340.181	205.426	176.124	61.887

05/24/96 12:24 ☎509 372 2929 WESTINGHOUSE →→→ MO-924 200W ☑021

07/17/96 06:39
A-0004-1

File #: 960717a.TXT

WHC-SD-WM-DP-140, REV. 1

Page: 1

LABCORE Data Entry Template for Worklist# 10538

Analyst: DK Sato **Instrument:** ICP01-L 07-17-96 **Book#** 57B489

Method: LA-505-~~151~~/161 Rev/Mod B-1

Worklist Comment: ICP B-106 (SOLID ACID DIGEST) 7-17-96

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	LLS				@ICP-QC	QC		
4	ICSA				@ICP-QC	QC		
5	ICSAB				@ICP-QC	QC		
6	PREPSTD~~ARL~~ TJG 7-17-96				@ICP-A01	SOLID		
7	PREPBLK~~ARL~~ TJG 7-17-96				@ICP-A01	SOLID		
8	SERDIL	S96T003625	0	A	@ICP-A01	SOLID		
9	SAMPLE	S96T003625	0	A	@ICP-A01	SOLID	95000096	B-106

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

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
10	DUP	S96T003625	0	A	@ICP-A01	SOLID		
11	SPK-PREDIG	S96T003625	0	A	@ICP-A01	SOLID		
12	ICSA				@ICP-QC	QC		
13	ICSAB				@ICP-QC	QC		
14	CCV				@ICP-QC	QC		
15	CCB				@ICP-QC	QC		

Data Entry Comments: Sample result calculation:

S96T003625 $Cr = 1.457 \frac{ug}{ml} \times \frac{1}{5.982 \frac{g}{L} \times \frac{1L}{1000}} = 2.44e+2 \frac{ug}{g}$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

383

Note: 5.892 $\frac{g}{L}$ is sample prep dilution factor which can be found in sample prep worklist.

LABCORE Data Entry Template for Worklist# 10538

S Type	Sample#	R A	Test	Matrix	Group#	Project

Final page for worklist # 10538

DK Lott 07-17-96
Analyst Signature Date

Reviewed by:
Saul M. Parong 7/18/96
Analyst Signature Date

PrepStdQrL, direct
PrepblkQrL, direct
S96T003625_L, 4-4-2-8, DF 10
S96T003625 4-4 2
S96T003625_D 4-4 2
S96T003625_S 4-4 2

High RPD's on all the elements may be due to sample prep error. A re-run was made but still high RPD's results were obtained. Suggest a reprep but under the discretion of the PC.

Data Entry Comments: Spike recovery calculation:

S96T003625 $Cr = \frac{6.121 - 1.457}{5} \times 100 = 93.3\%$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

381

Note: Spike true value is 5.0 ppm for all elements except Ag = 1.0 ppm and U = 10.0 ppm

WHC-SD-WM-DP-14-D, REV. 1

Analysis Report Summary Wed 07-17-96 05:55:02 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960717A	ICP2	07/17/96	16:55	DKS	Q	CONC
2	ICB	960717A	ICP2	07/17/96	16:58	DKS	Q	CONC
3	LLS	960717A	ICP2	07/17/96	17:01	DKS	Q	CONC
4	ICSA	960717A	ICP2	07/17/96	17:04	DKS	Q	CONC
5	ICSAB	960717A	ICP2	07/17/96	17:07	DKS	Q	CONC
6	PREPSTDTJA	960717A	ICP2	07/17/96	17:12	DKS	S	CONC
7	PREPBLKTJA	960717A	ICP2	07/17/96	17:16	DKS	S	CONC
8	S96T003625_L	960717A	ICP2	07/17/96	17:19	DKS	S	CONC
9	S96T003625	960717A	ICP2	07/17/96	17:23	DKS	S	CONC
10	S96T003625_D	960717A	ICP2	07/17/96	17:26	DKS	S	CONC
11	S96T003625_S	960717A	ICP2	07/17/96	17:30	DKS	S	CONC
12	ICSA	960717A	ICP2	07/17/96	17:39	DKS	Q	CONC
13	ICSAB	960717A	ICP2	07/17/96	17:42	DKS	Q	CONC
14	CCV	960717A	ICP2	07/17/96	17:47	DKS	Q	CONC
15	CCB	960717A	ICP2	07/17/96	17:51	DKS	Q	CONC

DK [signature]
07-17-96
B-106 S96T003625
Worklist # 10538

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 385 TO 388.

Analysis Report Averages Wed 07-17-96 05:55:02 PM page 2

WHC-SD-WM-DP-140, REV. 1

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.976	4.928	5.185	5.064	5.046	5.195
2	ICB	.0000	.0105	.0009	-.0034	.0000	.0002
3	LLS	.0173	.1136	.2167	.1109	.1013	.0110
4	ICSA	.0029	242.8	-.0420	-.0030	.0031	.0006
5	ICSAB	.9925	242.5	-.0223	-.0023	.5035	.4988
6	PREPSTDTJA	.9866	4.945	5.067	5.508	5.013	5.224
7	PREPBLKTJA	.0003	.0296	.0092	.1280	.0002	.0002
8	S96T003625_L	.0578	7.803	.1181	.6452	.2812	.0012
9	S96T003625	.0526	7.353	-.0243	.6503	.2734	-.0003
10	S96T003625_D	.0738	10.49	-.0388	.9540	.4007	-.0003
11	S96T003625_S	1.042	11.14	5.106	5.716	5.188	5.087
12	ICSA	.0031	242.0	-.0510	-.0099	.0031	.0007
13	ICSAB	.9971	242.1	-.0147	-.0020	.5041	.4998
14	CCV	5.067	4.986	5.299	5.105	5.172	5.279
15	CCB	.0001	.0078	.0084	.0000	-.0001	.0002

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.055	5.033	5.021	5.179	5.029	5.075
2	ICB	.0071	-.0044	-.0001	.0016	-.0006	.0003
3	LLS	.1829	.1908	.0119	.2108	.0398	.0211
4	ICSA	-.0072	252.2	.0008	.0072	.0014	.0009
5	ICSAB	-.0266	254.9	.9746	.0118	.4825	.4903
6	PREPSTDTJA	4.848	4.927	4.838	5.218	4.986	4.878
7	PREPBLKTJA	-.0123	.0285	-.0014	-.0041	-.0004	.0014
8	S96T003625_L	8.261	5.585	.0000	.0432	-.0028	1.473
9	S96T003625	8.012	5.597	.0051	.0947	.0221	1.457
10	S96T003625_D	11.68	8.073	.0021	.1335	.0192	2.079
11	S96T003625_S	11.91	9.705	4.885	5.274	5.018	6.121
12	ICSA	-.0176	258.6	.0013	.0120	.0038	.0005
13	ICSAB	-.0080	259.7	.9820	.0097	.4879	.4944
14	CCV	5.152	5.278	5.143	5.293	5.138	5.206
15	CCB	-.0217	-.0076	-.0006	.0004	-.0016	-.0006

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.246	-.0045	5.064	4.973	5.080	5.109
2	ICB	-.0002	-.0006	-.0004	-.2344	-.0000	-.0001
3	LLS	.0206	.0003	.1053	.4083	.1033	.0216
4	ICSA	-.0119	-.0590	93.48	-.0970	-.0051	.0030
5	ICSAB	.5041	-.0620	93.76	-.1364	-.0055	1.020
6	PREPSTDTJA	4.958	-.0052	4.912	4.912	5.067	5.081
7	PREPBLKTJA	.0014	-.0011	.0460	.0439	.0002	-.0007
8	S96T003625_L	.0686	-.0716	126.8	-1.334	.0541	.1632
9	S96T003625	.0773	-.0626	121.5	1.382	.0565	.1619
10	S96T003625_D	.0969	-.0903	177.5	1.960	.0840	.2460
11	S96T003625_S	4.952	-.0577	110.0	5.972	5.090	5.170
12	ICSA	-.0109	-.0712	94.50	-.0619	-.0052	.0042
13	ICSAB	.5030	-.0712	94.69	.0112	-.0053	1.015
14	CCV	5.309	-.0043	5.198	4.782	5.188	5.138
15	CCB	-.0009	-.0001	-.0006	-.1854	-.0001	.0000

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.909	4.940	5.050	5.058	5.157	5.023
2	ICB	-.0016	.0001	.0010	-.0018	-.0018	-.0056
3	LLS	.1985	.0202	.1003	.2199	.2013	.0472
4	ICSA	241.3	-.0065	-.0146	203.3	.0020	-.0093
5	ICSAB	241.2	.4625	-.0169	202.8	.0049	.9493
6	PREPSTDTJA	4.685	4.783	4.975	5.584	5:053	4.955
7	PREPBLKTJA	.0116	.0003	-.0042	.2526	-.0009	-.0018
8	S96T003625_L	1.080	.4897	-.0446	645.7	.0620	.5538
9	S96T003625_	1.104	.4729	-.0147	619.8	.0890	.5914
10	S96T003625_D	1.396	.6925	-.0157	908.9	.0995	.8252
11	S96T003625_S	5.494	5.160	5.037	540.3	5.065	5.467
12	ICSA	240.9	-.0058	-.0176	201.3	.0016	-.0001
13	ICSAB	241.1	.4662	-.0173	201.8	.0038	.9463
14	CCV	4.938	5.060	5.166	5.096	5.269	5.150
15	CCB	-.0110	.0002	-.0042	-.0018	-.0040	-.0011

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	4.856	4.972	4.948	4.799	4.892	4.904
2	ICB	-.0164	.0160	.0045	-.0085	.0069	.0027
3	LLS	.3455	.2196	.2074	.1007	.2082	.1349
4	ICSA	.0025	.0487	.0310	-.0108	-.0601	.0132
5	ICSAB	-.0182	1.025	.0302	.0001	-.0298	.0153
6	PREPSTDTJA	4.756	4.683	4.776	4.680	4.683	7.990
7	PREPBLKTJA	-.0069	.0062	.0388	-.0079	.0111	.0422
8	S96T003625_L	136.5	2.532	31.23	-.0647	-.0528	5.173
9	S96T003625_	136.2	2.412	30.34	-.0161	.0012	5.026
10	S96T003625_D	193.6	3.354	43.90	-.0168	-.0100	7.416
11	S96T003625_S	120.3	6.778	30.91	4.836	4.700	12.96
12	ICSA	.0045	.0434	.0383	.0018	-.0540	.0190
13	ICSAB	.0126	1.048	.0383	.0109	-.0542	.0210
14	CCV	4.806	5.123	4.937	4.866	5.005	4.991
15	CCB	-.0144	.0109	.0027	-.0038	.0111	.0003

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.955	5.012	.0007	4.917	4.810	9.741
2	ICB	-.0036	.0000	.0018	.0000	.0028	-.0263
3	LLS	.2078	.0208	-.0020	.0198	.4149	.5181
4	ICSA	-.0080	-.0024	-.0089	.0010	.0158	-.0173
5	ICSAB	-.0086	-.0024	-.0052	.0015	-.0326	-.0146
6	PREPSTDTJA	4.951	4.964	-.0032	4.891	4.654	9.738
7	PREPBLKTJA	-.0126	-.0001	.0011	.0005	-.0109	-.0621
8	S96T003625_L	-.1093	3.809	-.2825	.0586	-.0911	133.8
9	S96T003625_	-.0072	3.690	-.2878	.0638	-.0700	129.8
10	S96T003625_D	-.0155	5.396	-.4429	.0898	-.1183	191.3
11	S96T003625_S	4.902	8.110	-.2034	4.966	4.613	122.0
12	ICSA	.0037	-.0025	-.0045	.0008	-.0139	-.0350
13	ICSAB	.0001	-.0024	-.0089	.0018	-.0051	-.0347
14	CCV	5.054	5.122	-.0101	5.014	4.987	9.901
15	CCB	-.0004	.0000	-.0032	-.0003	.0068	-.0094

Analysis Report Averages Wed 07-17-96 05:55:02 PM page 4

WHC-SD-WM-DP-140, REV. 1

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.038	.0054	5.034	4.975
2	ICB	-.0013	-.0003	.0014	-.0008
3	LLS	.1049	.0006	.0219	.0216
4	ICSA	-.0019	.0063	-.0014	-.0034
5	ICSAB	.4845	.0065	.9856	-.0032
6	PREPSTDTJA	4.880	.0042	4.711	4.918
7	PREPBLKTJA	-.0022	-.0006	.0096	-.0015
8	S96T003625_L	.0087	-.0059	.6739	.0526
9	S96T003625	.0231	-.0030	.6505	.0730
10	S96T003625_D	.0279	-.0050	.9367	.1019
11	S96T003625_S	4.897	.0022	5.382	5.028
12	ICSA	.0003	.0069	-.0022	-.0017
13	ICSAB	.4889	.0069	.9923	-.0011
14	CCV	5.153	.0059	5.137	5.079
15	CCB	.0000	.0000	.0017	.0003

DK [illegible]
07-17-96

File # 08607168.TXT

07/03/96 09:56
A-0004-1

LABCORE Data Entry Template for Worklist# 10540

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 # 7-16-96 **Book#** 576484

Method: LA-505-~~151~~ 161 Rev/Mod B-1 (7-16-96)

Worklist Comment: ICP B-106 (SOLID WATER DIGEST) WHC-SD-WM-DP-140, REV. 1

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	LLS				@ICP-QC	QC		
4	ICSA				@ICP-QC	QC		
5	ICSAB				@ICP-QC	QC		
6	PREPBLKARL				@ICP-I01	SOLID		
7	SERDIL	S96T003627	0	I	@ICP-I01	SOLID		
8	SAMPLE	S96T003627	0	I	@ICP-I01	SOLID	95000096	B-106
		Analytes Requested:			AG-I-01 , AL-I-01 , AS-I-01 , B-I-01 , BA-I-01 , BE-I-01 , BI-I-01 , CA-I-01 , CD-I-01 , CE-I-01 , CO-I-01 , CR-I-01 , CU-I-01 , FE-I-01 , K-I-01 , LA-I-01 , LI-I-01 , MG-I-01 , MN-I-01 , MO-I-01 , NA-I-01 , ND-I-01 , NI-I-01 , P-I-01 , PB-I-01 , S-I-01 , SB-I-01 , SE-I-01 , SI-I-01 , SM-I-01 , SR-I-01 , TI-I-01 , TL-I-01 , U-I-01 , V-I-01 , ZN-I-01 , ZR-I-01			
9	DUP	S96T003627	0	I	@ICP-I01	SOLID		
10	SPK	S96T003627	0	I	@ICP-I01	SOLID		
11	ICSA				@ICP-QC	QC		
12	ICSAB				@ICP-QC	QC		
13	CCV				@ICP-QC	QC		
14	CCB				@ICP-QC	QC		

Data Entry Comments: Sample result calculation:

S96T003627 Al = ~~1.930 ug/g~~ $1.930 \frac{ug}{ml} \times \frac{1}{5.118 \frac{g}{L} \times \frac{1L}{1000ml}} = 3.77e+2 \frac{ug}{g}$

SP 7/16/96

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

Note: 5.118 g/L is sample prep dilution factor which can be found in sample prep worklist.

LABCORE Data Entry Template for Worklist# 10540

S Type	Sample#	R A	Test	Matrix	Group#	Project

Final page for worklist # 10540

[signature] 7-16-96
Analyst Signature Date

Reviewed by: [signature]
Analyst Signature Date

PREPARATION	DIRECT	D.F.
SSGT003627_C	5mL-5mL-2mL-8mL	1
3627	5mL-5mL	10
3627_D	5mL-5mL	2
3627_A	5mL-2mL-3mL	2

Data Entry Comments: Spike recovery calculation:

$$Al = \frac{\left(\frac{3.866}{2}\right) - \left(\frac{1.930}{2}\right)}{1} \times 100 = 96.8\%$$

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

390

Note: Spike true value is 1.0 ppm for all elements except for U = 2.0 ppm.

WHC-SD-WM-DP-140, REV. 1

Analysis Report Summary Tue 07-16-96 03:26:00 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960716B	ICP2	07/16/96	14:38	BJG	Q	CONC
2	ICB	960716B	ICP2	07/16/96	14:41	BJG	Q	CONC
3	LLS	960716B	ICP2	07/16/96	14:44	BJG	Q	CONC
4	ICSA	960716B	ICP2	07/16/96	14:47	BJG	Q	CONC
5	ICSAB	960716B	ICP2	07/16/96	14:49	BJG	Q	CONC
6	PREPBLKTJA	960716B	ICP2	07/16/96	14:57	BJG	S	CONC
7	S96T003627_L	960716B	ICP2	07/16/96	15:02	BJG	S	CONC
8	S96T003627_	960716B	ICP2	07/16/96	15:05	BJG	S	CONC
9	S96T003627_D	960716B	ICP2	07/16/96	15:08	BJG	S	CONC
10	S96T003627_A	960716B	ICP2	07/16/96	15:11	BJG	S	CONC
11	ICSA	960716B	ICP2	07/16/96	15:14	BJG	Q	CONC
12	ICSAB	960716B	ICP2	07/16/96	15:16	BJG	Q	CONC
13	CCV	960716B	ICP2	07/16/96	15:19	BJG	Q	CONC
14	CCB	960716B	ICP2	07/16/96	15:22	BJG	Q	CONC

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 391 TO 394.

[signature]
7-16-96
B-106

Analysis Report Averages Tue 07-16-96 03:26:00 PM page 2

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.936	4.885	5.202	4.970	4.981	5.280
2	ICB	.0010	.0169	.0168	.0062	.0002	.0009
3	LLS	.0173	.1153	.2200	.0987	.0987	.0113
4	ICSA	.0042	238.4	-.0114	.0051	.0030	.0009
5	ICSAB	.9783	238.3	.0041	-.0005	.4903	.5019
6	PREPBLKTJA	-.0001	.0120	.0178	-.0024	.0000	.0007
7	S96T003627_L	.0438	2.072	.2128	2.925	.0161	.0059
8	S96T003627_	.0366	1.930	.0590	2.895	.0163	.0013
9	S96T003627_D	.0338	1.473	.0223	2.504	.0101	.0013
10	S96T003627_A	1.911	3.866	2.167	4.885	2.003	2.111
11	ICSA	.0193	238.3	.0215	.0024	.0032	.0010
12	ICSAB	.9810	239.0	.0441	-.0021	.4912	.5057
13	CCV	4.952	4.897	5.208	4.960	4.957	5.288
14	CCB	.0014	.0287	.0173	.0076	.0003	.0009

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.063	5.136	4.989	5.118	5.006	5.094
2	ICB	-.0003	.0057	.0012	.0094	.0036	.0025
3	LLS	.2276	.2047	.0104	.2105	.0416	.0228
4	ICSA	-.0138	253.1	.0014	.0238	.0043	.0023
5	ICSAB	.0061	255.1	.9618	.0260	.4832	.4891
6	PREPBLKTJA	.0242	-.0186	.0008	.0001	.0032	.0017
7	S96T003627_L	.3923	.2682	.0026	.0790	.0402	.2289
8	S96T003627_	.1596	.1892	.0024	.0180	.0045	.2144
9	S96T003627_D	.1361	.1003	.0008	.0035	.0049	.1834
10	S96T003627_A	2.186	2.287	2.026	2.083	2.029	2.280
11	ICSA	.0031	256.1	.0004	.0189	.0029	.0031
12	ICSAB	.0015	258.4	.9689	.0104	.4822	.4934
13	CCV	5.045	5.225	5.014	5.107	5.021	5.120
14	CCB	.0135	.0056	.0007	.0082	.0025	.0030

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.207	-.0036	5.095	4.830	5.052	4.965
2	ICB	.0007	-.0008	-.0002	.2535	-.0003	.0000
3	LLS	.0216	.0001	.1045	Q.8400	.1011	.0210
4	ICSA	-.0089	-.0554	93.19	.1513	-.0049	.0037
5	ICSAB	.4971	-.0558	93.48	.2914	-.0051	.9803
6	PREPBLKTJA	.0002	.0006	-.0013	.0858	-.0002	.0013
7	S96T003627_L	.0107	-.0069	5.922	2.114	.0019	.1178
8	S96T003627_	.0093	-.0012	5.844	1.487	.0032	.1202
9	S96T003627_D	.0083	-.0016	3.472	1.460	-.0014	.1171
10	S96T003627_A	2.097	-.0030	7.902	3.271	2.045	2.107
11	ICSA	-.0098	-.0612	93.77	.2094	-.0046	.0037
12	ICSAB	.4975	-.0615	94.27	.3745	-.0066	.9819
13	CCV	5.193	-.0032	5.112	4.879	5.047	4.937
14	CCB	.0016	-.0005	.0002	.2388	.0009	-.0001

Analysis Report Averages Tue 07-16-96 03:26:00 PM page 3

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.889	4.901	5.044	4.889	5.075	5.004
2	ICB	.0022	.0001	.0010	-.0036	.0010	.0028
3	LLS	.2122	.0195	.0973	.2110	.2004	.0399
4	ICSA	238.1	-.0065	-.0118	195.2	.0069	-.0038
5	ICSAB	238.1	.4545	-.0195	194.6	.0080	.9406
6	PREPBLKTJA	.0059	.0004	-.0007	.0240	-.0001	-.0076
7	S96T003627_L	.0576	.0184	-.0233	487.0	.0103	-.0432
8	S96T003627	.0570	.0211	.0026	478.9	.0080	.0303
9	S96T003627_D	.0388	.0128	.0054	469.0	.0053	.0134
10	S96T003627_A	2.019	1.961	2.053	480.5	2.051	2.043
11	ICSA	238.2	-.0063	-.0118	193.7	.0055	-.0043
12	ICSAB	238.8	.4581	-.0125	194.6	.0045	.9270
13	CCV	4.888	4.910	5.057	4.874	5.065	5.003
14	CCB	.0114	.0002	.0019	.0000	.0034	.0014

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.163	4.982	4.914	4.820	4.999	4.848
2	ICB	-.0265	.0278	-.0056	.0034	.0808	-.0270
3	LLS	.3724	.2202	.2117	.1093	Q.2939	Q.1028
4	ICSA	-.0088	.0490	.0310	.0146	.0332	-.0166
5	ICSAB	.0028	1.019	.0263	.0104	.0404	-.0124
6	PREPBLKTJA	-.0250	.0203	-.0121	-.0051	.1003	-.0280
7	S96T003627_L	53.70	.2284	27.26	.0099	.8146	7.315
8	S96T003627	54.13	.1239	27.13	-.0052	.1879	7.574
9	S96T003627_D	50.13	.0837	26.78	.0096	.1828	5.323
10	S96T003627_A	56.12	2.164	29.00	1.969	2.189	9.604
11	ICSA	-.0072	.0522	.0215	.0011	.0300	-.0100
12	ICSAB	.0025	1.039	.0228	.0054	.0427	-.0074
13	CCV	5.141	5.009	4.921	4.819	5.026	4.861
14	CCB	-.0091	.0284	-.0107	-.0003	Q.1022	-.0263

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.939	4.999	.0290	4.935	4.844	9.707
2	ICB	-.0063	.0001	.0052	.0003	.0035	-.0252
3	LLS	.2059	.0203	-.0001	.0206	.4071	.5018
4	ICSA	-.0094	-.0026	.0058	.0011	.0264	-.1099
5	ICSAB	-.0062	-.0025	.0078	.0016	.0047	-.1130
6	PREPBLKTJA	.0129	.0001	.0046	-.0007	.0085	.0512
7	S96T003627_L	-.0353	.1221	.0901	.0074	-.2043	.8580
8	S96T003627	-.0020	.1211	.0138	.0060	.0406	1.044
9	S96T003627_D	-.0038	.0674	.0156	.0048	.0248	.5603
10	S96T003627_A	1.985	2.137	.0317	2.006	2.000	4.931
11	ICSA	-.0045	-.0026	.0038	.0008	.0332	-.1220
12	ICSAB	-.0029	-.0026	.0066	.0008	.0165	-.1390
13	CCV	4.925	4.997	.0368	4.953	4.829	9.680
14	CCB	-.0059	.0001	.0102	.0005	-.0024	-.0130

WHC-SD-WM-DP-142, REV. 1

Analysis Report Averages Tue 07-16-96 03:26:00 PM page 4

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.054	.0057	5.020	4.943
2	ICB	-.0009	-.0004	-.0004	-.0007
3	LLS	.1039	.0004	.0201	.0210
4	ICSA	.0003	.0063	.0009	-.0038
5	ICSAB	.4839	.0066	.9774	-.0038
6	PREPBLKTJA	.0028	.0005	.0014	.0021
7	S96T003627_L	-.0068	-.0035	.0785	.0030
8	S96T003627	.0025	.0000	.0640	.0142
9	S96T003627_D	.0009	-.0004	.0503	.0096
10	S96T003627_A	2.045	.0021	2.105	2.007
11	ICSA	.0011	.0064	.0008	-.0030
12	ICSAB	.4881	.0069	.9820	-.0027
13	CCV	5.073	.0059	5.049	4.949
14	CCB	-.0006	-.0004	.0009	-.0007

WHC-SD-WM-DP-140, REV. 1

worklistrpt Version 2.1 05/15/95
04/04/96 14:09

Page: 1

LABCORE Data Entry Template for Worklist# 7301

Analyst: JLS2 **Instrument:** CARB2 _____ **Book #** 22N12A TIC 16N12E TOC

Method: LA-342-100 Rev/Mod D-0

Worklist Comment: B-106 FOR @TICTOC1 ACID PERSULFATE

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				@TICTOC1 TIC-02	SOLID	1	.9	N/A	ug/g
		1	BLNK				@TICTOC1 TOC-02	SOLID	1	3.3	N/A	ug/g
		2	STD				@TICTOC1 TIC-02	SOLID	~~6.02E2~~ 6.02E2	6.08E2	N/A	ug/g
		2	STD				@TICTOC1 TOC-02	SOLID	3.00E3	2.81E3	N/A	ug/g
95000096	B-106	3	SAMPLE	S96T001198	0		@TICTOC1 TIC-02	SOLID	N/A	2.73E2	5.00	ug/g
95000096	B-106	3	SAMPLE	S96T001198	0		@TICTOC1 TOC-02	SOLID	N/A	1.20E3	40.0	ug/g
95000096	B-106	4	DUP	S96T001198	0		@TICTOC1 TIC-02	SOLID	2.73E2	4.02E2	N/A	ug/g
95000096	B-106	4	DUP	S96T001198	0		@TICTOC1 TOC-02	SOLID	1.20E3	1.25E3	N/A	ug/g
95000096	B-106	5	SPK	S96T001198	0		@TICTOC1 TIC-02	SOLID	100	96	N/A	ug/g
95000096	B-106	5	SPK	S96T001198	0		@TICTOC1 TOC-02	SOLID	100	129	N/A	ug/g
95000096	B-106	6	SAMPLE	S96T001212	0		@TICTOC1 TIC-02	SOLID	N/A	3.07E2	5.00	ug/g
95000096	B-106	6	SAMPLE	S96T001212	0		@TICTOC1 TOC-02	SOLID	N/A	1.25E3	40.0	ug/g
95000096	B-106	7	DUP	S96T001212	0		@TICTOC1 TIC-02	SOLID	3.07E2	3.29E2	N/A	ug/g
95000096	B-106	7	DUP	S96T001212	0		@TICTOC1 TOC-02	SOLID	1.25E3	9.35E2	N/A	ug/g

Final page for worklist # 7301

Reviewed RW Schroeder 4/23/96

Jackie Steele 4/17/96
Analyst Signature **Date**

[signature] 4-23-96
Analyst Signature **Date**

13648
13649
13650

Data Entry Comments: S96T001198 First TOC analysis and duplicate Not to completion.

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.

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASELINE Date: 04/17/96 Time: 08:02:38

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASELINE
Blank Value = N/A

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	1.40	42.86
3	1.51	2.00	30.00
4	2.00	2.40	16.67
5	2.50	2.90	17.24
6	3.00	3.30	12.12
7	3.50	3.60	8.33
8	4.00	3.90	7.69
9	4.50	4.30	9.30
10	5.00	4.60	6.52
11	5.50	4.90	6.12
12	6.00	5.20	5.77
13	6.50	5.50	5.45
14	7.00	5.80	5.17
15	7.50	6.10	4.92
16	8.00	6.40	4.69
17	8.50	6.70	4.48
18	9.00	7.00	4.29
19	9.50	7.30	4.11
20	10.00	7.60	3.95
21	10.50	7.90	3.80
22	11.00	8.20	3.66

BLANK VALUE = 8.2 micrograms carbon
BLANK FACTOR = 8.2 / 10.99982 = +7.5E-01 ug/min Carbon

Sample Run By: Jacque Steele 4/17/96
JL STEELE 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASELINE Date: 04/17/96 Time: 08:16:37

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASELINE
Blank Value = N/A

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	1.00	60.00
3	1.51	1.90	47.37
4	2.00	4.80	60.42
5	2.50	8.20	41.46
6	3.00	11.10	26.13
7	3.50	13.30	16.54
8	4.00	14.90	10.74
9	4.50	16.00	6.88
10	5.00	16.70	4.19
11	5.50	17.20	2.91
12	6.00	17.70	2.82
13	6.50	18.10	2.21
14	7.00	18.80	3.72
15	7.50	19.30	2.59
16	8.00	19.90	3.02
17	8.50	20.50	2.93
18	9.00	21.10	2.84
19	9.50	21.60	2.31
20	10.00	22.10	2.26
21	10.50	22.60	2.21
22	11.00	23.00	1.74

BLANK VALUE = 23 micrograms carbon
BLANK FACTOR = 23 / 11.00067 = +2.09E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jacque Steele 4/17/96
JL STEELE 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD 22N12A Date: 04/17/96 Time: 08:54:40

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .75 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.60	0.00
2	1.01	8.60	93.02
3	1.51	122.10	92.96
4	2.00	285.90	57.29
5	2.50	416.40	31.34
6	3.00	505.20	17.58
7	3.50	557.50	9.38
8	4.00	584.80	4.67
9	4.50	598.90	2.35
10	5.00	605.90	1.16
11	5.50	608.80	0.48
12	6.00	610.80	0.33
13	6.50	611.70	0.15
14	7.00	612.40	0.11
15	7.50	613.00	0.10
16	8.00	613.40	0.07
17	8.50	613.80	0.07
18	9.00	614.30	0.08
19	9.50	614.70	0.07
20	10.00	615.00	0.05
21	10.50	615.30	0.05
22	11.00	615.70	0.06

USER INPUT BLANK VALUE
BLANK VALUE = 8.250504 micrograms carbon
BLANK FACTOR = 8.250504 / 11.00067 = +7.5E-01 ug/min Carbon

SAMPLE RESULTS:
(615.7 - 8.249084)(1)/(1) = +6.075E+02 g/L Carbon
(615.7 - 8.249084)(1)/(1)(12) = +5.062E+01 Molar Carbon

Sample Run By: Jeanie Steele 4/17/96
JL STEELE 00000

$\frac{607.5}{602} = 100.9\%$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD 16N12E Date: 04/17/96 Time: 09:07:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.09 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	1.70	76.47
3	1.51	10.60	83.96
4	2.00	59.20	82.09
5	2.50	176.00	66.36
6	3.00	323.00	45.51
7	3.50	445.20	27.45
8	4.00	518.70	14.17
9	4.50	554.90	6.52
10	5.00	570.40	2.72
11	5.50	576.90	1.13
12	6.00	579.40	0.43
13	6.50	580.90	0.26
14	7.00	581.90	0.17
15	7.50	582.50	0.10
16	8.00	583.10	0.10
17	8.50	583.60	0.09
18	9.00	584.10	0.09
19	9.50	584.50	0.07
20	10.00	585.00	0.09
21	10.50	585.40	0.07
22	11.00	585.80	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 22.9914 micrograms carbon
BLANK FACTOR = 22.9914 / 11.00067 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(585.8 - 22.9914)(1)/(1) = +5.628E+02 g/L Carbon
(585.8 - 22.9914)(1)/(1)(12) = +4.690E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$\frac{562.8}{.200ml} - \frac{2814}{3000} = 93.82$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLANK Date: 04/17/96 Time: 09:19:42

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .75 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	2.30	65.22
3	1.51	3.10	25.81
4	2.00	3.60	13.89
5	2.50	4.10	12.20
6	3.00	4.50	8.89
7	3.50	4.80	6.25
8	4.00	5.10	5.88
9	4.50	5.40	5.56
10	5.00	5.70	5.26
11	5.50	6.00	5.00
12	6.00	6.30	4.76
13	6.50	6.60	4.55
14	7.00	6.80	2.94
15	7.50	7.10	4.23
16	8.00	7.40	4.05
17	8.50	7.70	3.90
18	9.00	8.00	3.75
19	9.50	8.30	3.61
20	10.00	8.50	2.35
21	10.50	8.90	4.49
22	11.00	9.10	2.20

USER INPUT BLANK VALUE
BLANK VALUE = 8.250504 micrograms carbon
BLANK FACTOR = 8.250504 / 11.00067 = +7.5E-01 ug/min Carbon

SAMPLE RESULTS:
(9.1 - 8.250504)(1)/(1) = +8.5E-01 g/L Carbon
(9.1 - 8.250504)(1)/(1)(12) = +7.1E-02 Molar Carbon

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

(9.10 - 8.20) = .9

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLANK Date: 04/17/96 Time: 09:33:05

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.09 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	0.90	44.44
3	1.51	2.20	59.09
4	2.00	4.50	51.11
5	2.50	7.60	40.79
6	3.01	10.10	24.75
7	3.50	11.80	14.41
8	4.00	13.30	11.28
9	4.50	14.00	5.00
10	5.00	14.60	4.11
11	5.50	15.30	4.58
12	6.00	15.60	1.92
13	6.50	16.00	2.50
14	7.00	16.50	3.03
15	7.50	16.80	1.79
16	8.00	17.10	1.75
17	8.50	17.40	1.72
18	9.00	17.80	2.25
19	9.50	18.30	2.73
20	10.00	18.90	3.17
21	10.50	19.30	2.07
22	11.00	19.70	2.03

USER INPUT BLANK VALUE
BLANK VALUE = 22.9914 micrograms carbon
BLANK FACTOR = 22.9914 / 11.00067 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(19.7 - 22.98962)(1)/(1) = < 5.00 E-3 g/L Carbon
(19.7 - 22.98962)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jerry Steele 4/17/96
JL STEELE 00000

|19.70 - 23.00| = 3.3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001198 Date: 04/17/96 Time: 09:53:09

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .75 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	4.30	93.02
3	1.51	18.30	76.50
4	2.00	36.00	49.17
5	2.50	52.30	31.17
6	3.00	66.40	21.23
7	3.50	77.20	13.99
8	4.00	84.20	8.31
9	4.50	89.60	6.03
10	5.00	92.70	3.34
11	5.50	94.80	2.22
12	6.00	96.60	1.86
13	6.50	97.80	1.23
14	7.00	98.50	0.71
15	7.50	99.10	0.61
16	8.00	99.80	0.70
17	8.50	100.30	0.50
18	9.00	100.70	0.40
19	9.50	101.10	0.40
20	10.00	101.60	0.49
21	10.50	101.90	0.29
22	11.00	102.30	0.39

USER INPUT BLANK VALUE
BLANK VALUE = 8.250504 micrograms carbon
BLANK FACTOR = 8.250504 / 11.00067 = +7.5E-01 ug/min Carbon

SAMPLE RESULTS:
(102.3 - 8.249908)(1)/(1) = +9.405E+01 g/L Carbon
(102.3 - 8.249908)(1)/(1)(12) = +7.838E+00 Molar Carbon

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$\frac{94.05}{.3445g} = 2.73^{E2}$

402

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001198 Date: 04/17/96 Time: 10:06:53

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.09 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	1.30	61.54
3	1.50	2.60	50.00
4	2.00	7.50	65.33
5	2.50	16.00	53.13
6	3.00	28.40	43.66
7	3.50	45.00	36.89
8	4.00	66.70	32.53
9	4.50	91.30	26.94
10	5.00	117.70	22.43
11	5.50	143.90	18.21
12	6.00	170.70	15.70
13	6.50	197.50	13.57
14	7.00	224.30	11.95
15	7.50	251.40	10.78
16	8.00	279.30	9.99
17	8.50	305.30	8.52
18	9.00	333.30	8.40
19	9.50	359.30	7.24
20	10.00	385.30	6.75
21	10.50	411.30	6.32
22	11.00	435.40	5.54

USER INPUT BLANK VALUE
BLANK VALUE = 22.9914 micrograms carbon
BLANK FACTOR = 22.9914 / 11.00067 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(435.4 - 22.98553)(1)/(1) = +4.124E+02 g/L Carbon
(435.4 - 22.98553)(1)/(1)(12) = +3.437E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$\frac{412.4}{.3445g} = 1.197e3$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1198 DUP Date: 04/17/96 Time: 10:20:20

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .75 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	18.30	0.00
2	1.01	38.60	52.59
3	1.51	62.50	38.24
4	2.00	81.90	23.69
5	2.50	96.10	14.78
6	3.00	107.40	10.52
7	3.50	114.70	6.36
8	4.00	120.10	4.50
9	4.50	124.00	3.15
10	5.00	126.50	1.98
11	5.50	128.30	1.40
12	6.00	129.60	1.00
13	6.50	130.40	0.61
14	7.00	131.30	0.69
15	7.50	132.00	0.53
16	8.00	132.60	0.45
17	8.50	133.10	0.38
18	9.00	133.50	0.30
19	9.50	134.00	0.37
20	10.00	134.40	0.30
21	10.50	134.80	0.30
22	11.00	135.10	0.22

USER INPUT BLANK VALUE
BLANK VALUE = 8.250504 micrograms carbon
BLANK FACTOR = 8.250504 / 11.00067 = +7.5E-01 ug/min Carbon

SAMPLE RESULTS:
(135.1 - 8.250504)(1)/(1) = +1.268E+02 g/L Carbon
(135.1 - 8.250504)(1)/(1)(12) = +1.057E+01 Molar Carbon

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$\frac{126.8}{.3155g} = 4.02E2$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1198 DUP Date: 04/17/96 Time: 10:32:19

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.09 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

Reading	Analysis Time	Coulometer	% Difference
1	0.51	0.60	0.00
2	1.01	1.20	50.00
3	1.50	2.30	47.83
4	2.00	5.70	59.65
5	2.50	12.30	53.66
6	3.00	21.60	43.06
7	3.50	35.70	39.50
8	4.00	53.70	33.52
9	4.50	74.00	27.43
10	5.00	97.20	23.87
11	5.50	121.80	20.20
12	6.00	147.40	17.37
13	6.50	174.10	15.34
14	7.00	200.20	13.04
15	7.50	227.40	11.96
16	8.00	255.30	10.93
17	8.50	282.40	9.60
18	9.00	309.90	8.87
19	9.50	337.70	8.23
20	10.00	364.30	7.30
21	10.50	390.30	6.66
22	11.00	417.30	6.47

USER INPUT BLANK VALUE
BLANK VALUE = 22.9914 micrograms carbon
BLANK FACTOR = 22.9914 / 11.00067 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(417.3 - 22.98758)(1)/(1) = +3.943E+02 g/L Carbon
(417.3 - 22.98758)(1)/(1)(12) = +3.286E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$\frac{394.3}{.3155g} = 1.25^{E3}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1198 SPIKE Date: 04/17/96 Time: 10:57:16

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .75 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.20	0.00
2	1.01	28.30	88.69
3	1.50	100.30	71.78
4	2.00	177.30	43.43
5	2.50	240.90	26.40
6	3.00	288.20	16.41
7	3.50	322.00	10.50
8	4.00	343.50	6.26
9	4.50	358.20	4.10
10	5.00	367.80	2.61
11	5.50	373.50	1.53
12	6.00	376.90	0.90
13	6.50	379.10	0.58
14	7.00	380.80	0.45
15	7.50	382.00	0.31
16	8.00	382.80	0.21
17	8.50	383.60	0.21
18	9.00	384.20	0.16
19	9.50	384.70	0.13
20	10.00	385.30	0.16
21	10.50	385.80	0.13
22	11.00	386.20	0.10

USER INPUT BLANK VALUE
BLANK VALUE = 8.250504 micrograms carbon
BLANK FACTOR = 8.250504 / 11.00067 = +7.5E-01 ug/min Carbon

SAMPLE RESULTS:
(386.2 - 8.24913)(1)/(1) = +3.780E+02 g/L Carbon
(386.2 - 8.24913)(1)/(1)(12) = +3.150E+01 Molar Carbon

Sample Run By: Jacque Steele 4/17/96
JL STEELE 00000

$$\frac{386.20}{\frac{102.30}{.3455} \times .3404 + 300} = \frac{386.20}{400.79} = 96.36\%$$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1198 SPIKE Date: 04/17/96 Time: 11:09:23

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.09 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	1.40	57.14
3	1.50	2.50	44.00
4	2.00	7.20	65.28
5	2.50	16.20	55.56
6	3.00	33.80	52.07
7	3.50	63.90	47.10
8	4.00	109.80	41.80
9	4.50	169.20	35.11
10	5.00	237.30	28.70
11	5.50	311.00	23.70
12	6.00	384.10	19.03
13	6.50	454.50	15.49
14	7.00	520.20	12.63
15	7.50	584.90	11.06
16	8.00	648.60	9.82
17	8.50	711.20	8.80
18	9.00	769.80	7.61
19	9.50	820.80	6.21
20	10.00	867.30	5.36
21	10.50	905.80	4.25
22	11.00	937.60	3.39

USER INPUT BLANK VALUE
BLANK VALUE = 22.9914 micrograms carbon
BLANK FACTOR = 22.9914 / 11.00067 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(937.6 - 22.98592)(1)/(1) = +9.146E+02 g/L Carbon
(937.6 - 22.98592)(1)/(1)(12) = +7.622E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$$\frac{937.60}{\frac{435.40}{.3455} \times .3404 + 300} = \frac{937.60}{728.97} = 128.62\%$$

407

WHC-SD-WM-DP-140, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001212 Date: 04/17/96 Time: 11:28:09

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .75 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.90	0.00
2	1.01	7.40	74.32
3	1.50	17.80	58.43
4	2.00	28.80	38.19
5	2.50	37.10	22.37
6	3.00	44.20	16.06
7	3.50	49.00	9.80
8	4.00	51.90	5.59
9	4.50	54.10	4.07
10	5.00	55.40	2.35
11	5.50	56.30	1.60
12	6.00	57.00	1.23
13	6.50	57.60	1.04
14	7.00	58.20	1.03
15	7.50	58.70	0.85
16	8.00	59.20	0.84
17	8.50	59.60	0.67
18	9.00	60.10	0.83
19	9.50	60.60	0.83
20	10.00	61.00	0.66
21	10.50	61.50	0.81
22	11.00	61.80	0.49

USER INPUT BLANK VALUE
BLANK VALUE = 8.250504 micrograms carbon
BLANK FACTOR = 8.250504 / 11.00067 = +7.5E-01 ug/min Carbon

SAMPLE RESULTS:
(61.8 - 8.248489)(1)/(1) = +5.36E+01 g/L Carbon
(61.8 - 8.248489)(1)/(1)(12) = +4.46E+00 Molar Carbon

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$\frac{53.6}{.1748g} = 3.07E2$

403

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001212 Date: 04/17/96 Time: 11:40:17

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.09 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	4.30	86.05
3	1.51	20.50	79.02
4	2.00	55.90	63.33
5	2.50	105.60	47.06
6	3.00	142.10	25.69
7	3.50	165.90	14.35
8	4.00	180.20	7.94
9	4.50	189.90	5.11
10	5.00	198.00	4.09
11	5.50	204.30	3.08
12	6.00	209.70	2.58
13	6.50	215.20	2.56
14	7.00	219.10	1.78
15	7.50	223.20	1.84
16	8.00	226.80	1.59
17	8.50	230.00	1.39
18	9.00	233.00	1.29
19	9.50	235.70	1.15
20	10.00	238.00	0.97
21	10.50	240.10	0.87
22	11.00	241.80	0.70

USER INPUT BLANK VALUE
BLANK VALUE = 22.9914 micrograms carbon
BLANK FACTOR = 22.9914 / 11.00067 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(241.8 - 22.98758)(1)/(1) = +2.188E+02 g/L Carbon
(241.8 - 22.98758)(1)/(1)(12) = +1.823E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$\frac{218.8}{.1748g} = 1.252 E3$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1212 DUP Date: 04/17/96 Time: 12:54:34

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .75 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	7.70	87.01
3	1.51	31.60	75.63
4	2.00	60.20	47.51
5	2.50	86.90	30.72
6	3.00	107.40	19.09
7	3.50	120.50	10.87
8	4.00	128.90	6.52
9	4.50	133.00	3.08
10	5.00	136.10	2.28
11	5.50	137.80	1.23
12	6.00	139.10	0.93
13	6.50	140.40	0.93
14	7.00	141.20	0.57
15	7.50	142.10	0.63
16	8.00	143.00	0.63
17	8.50	143.70	0.49
18	9.00	144.50	0.55
19	9.50	145.10	0.41
20	10.00	145.90	0.55
21	10.50	146.50	0.41
22	11.00	147.20	0.48

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 = +7.5E-01 ug/min Carbon

SAMPLE RESULTS:
(147.2 - 8.249771)(1)/(1) = +1.390E+02 g/L Carbon
(147.2 - 8.249771)(1)/(1)(12) = +1.158E+01 Molar Carbon

Sample Run By: Jaenie Steele 4/17/96
JL STEELE 00000

$\frac{139.0}{.4225g} = 3.29E2$

WHC-SD-WM-DP-140, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1212 DUP Date: 04/17/96 Time: 13:06:50

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.09 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.00	14.60	93.15
3	1.50	51.00	71.37
4	2.00	122.00	58.20
5	2.50	206.80	41.01
6	3.01	262.20	21.13
7	3.51	297.60	11.90
8	4.00	321.70	7.49
9	4.50	338.90	5.08
10	5.00	352.80	3.94
11	5.50	363.30	2.89
12	6.00	373.20	2.65
13	6.50	380.60	1.94
14	7.00	387.70	1.83
15	7.50	393.80	1.55
16	8.00	399.20	1.35
17	8.50	404.00	1.19
18	9.00	407.80	0.93
19	9.50	411.00	0.78
20	10.00	413.50	0.60
21	10.50	415.80	0.55
22	11.00	417.90	0.50

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(417.9 - 22.99306)(1)/(1) = +3.949E+02 g/L Carbon
(417.9 - 22.99306)(1)/(1)(12) = +3.291E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/17/96
JL STEELE 00000

$\frac{394.9}{.4225g} = 9.35^{E2}$

411

LABCORE Data Entry Template for Worklist# 7303

Analyst: JLS2 **Instrument:** CARB2 **Book #** 22N12-A TIC 16N12E TOC

Method: LA-342-100 Rev/Mod D-0 D-0 LAD 6-17-96

Worklist Comment: B-106 FOR @TICTOC1 ACID PERSULFATE

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	TEST	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				@TICTOC1 TIC-02	SOLID	1	1.4	N/A	ug/g
		1	BLNK				@TICTOC1 TOC-02	SOLID	1	1.3	N/A	ug/g
		2	STD				@TICTOC1 TIC-02	SOLID	6.02E2	5.77E2	N/A	ug/g
		2	STD				@TICTOC1 TOC-02	SOLID	3.00E3	2.93E3	N/A	ug/g
95000096	B-106	3	SAMPLE	S96T001225	0		@TICTOC1 TIC-02	SOLID	N/A	3.22E2	5.00	ug/g
95000096	B-106	3	SAMPLE	S96T001225	0		@TICTOC1 TOC-02	SOLID	N/A	2.73E2	40.0	ug/g
95000096	B-106	4	DUP	S96T001225	0		@TICTOC1 TIC-02	SOLID	3.22E2	3.66E2	N/A	ug/g
95000096	B-106	4	DUP	S96T001225	0		@TICTOC1 TOC-02	SOLID	2.73E2	2.86E2	N/A	ug/g
95000096	B-106	5	SAMPLE	S96T001226	0		@TICTOC1 TIC-02	SOLID	N/A	2.30E2	5.00	ug/g
95000096	B-106	5	SAMPLE	S96T001226	0		@TICTOC1 TOC-02	SOLID	N/A	2.54E2	40.0	ug/g
95000096	B-106	6	DUP	S96T001226	0		@TICTOC1 TIC-02	SOLID	2.30E2	2.34E2	N/A	ug/g
95000096	B-106	6	DUP	S96T001226	0		@TICTOC1 TOC-02	SOLID	2.54E2	2.46E2	N/A	ug/g
95000096	B-106	7	SPK	S96T001226	0		@TICTOC1 TIC-02	SOLID	100	96	N/A	ug/g
95000096	B-106	7	SPK	S96T001226	0		@TICTOC1 TOC-02	SOLID	100	93	N/A	ug/g
95000096	B-106	8	SAMPLE	S96T001227	0		@TICTOC1 TIC-02	SOLID	N/A	3.19E2	5.00	ug/g
95000096	B-106	8	SAMPLE	S96T001227	0		@TICTOC1 TOC-02	SOLID	N/A	5.49E2	40.0	ug/g
95000096	B-106	9	DUP	S96T001227	0		@TICTOC1 TIC-02	SOLID	3.19E2	3.40E2	N/A	ug/g
95000096	B-106	9	DUP	S96T001227	0		@TICTOC1 TOC-02	SOLID	5.49E2	5.88E2	N/A	ug/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# 7303

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

Final page for worklist # 7303

Jackie Steele 4/9/96
Analyst Signature Date

[illegible] 4/15/96
Analyst Signature Date

Reviewed RW Schroeder
4/15/96

Data Entry Comments:

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

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASELINE Date: 04/09/96 Time: 08:57:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASELINE
Blank Value = N/A

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	1.50	60.00
3	1.50	2.20	31.82
4	2.01	2.70	18.52
5	2.50	3.30	18.18
6	3.00	3.70	10.81
7	3.50	4.10	9.76
8	4.00	4.40	6.82
9	4.50	4.80	8.33
10	5.00	5.10	5.88
11	5.50	5.40	5.56
12	6.00	5.80	6.90
13	6.50	6.10	4.92
14	7.00	6.40	4.69
15	7.50	6.70	4.48
16	8.00	7.10	5.63
17	8.50	7.40	4.05
18	9.00	7.70	3.90
19	9.50	8.00	3.75
20	10.00	8.30	3.61
21	10.50	8.60	3.49
22	11.00	8.90	3.37

BLANK VALUE = 8.9 micrograms carbon
BLANK FACTOR = 8.9 / 11.0025 = +8.1E-01 ug/min Carbon

Sample Run By: Jacque Steele 4/09/96
JL STEELE 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASELINE Date: 04/09/96 Time: 09:09:55

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASELINE
Blank Value = N/A

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	0.90	66.67
3	1.51	3.20	71.88
4	2.00	7.50	57.33
5	2.50	10.80	30.56
6	3.00	12.70	14.96
7	3.50	13.90	8.63
8	4.00	15.10	7.95
9	4.50	16.10	6.21
10	5.00	17.10	5.85
11	5.50	18.00	5.00
12	6.00	18.80	4.26
13	6.50	19.50	3.59
14	7.00	20.10	2.99
15	7.50	20.60	2.43
16	8.00	21.10	2.37
17	8.50	21.50	1.86
18	9.00	22.00	2.27
19	9.50	22.40	1.79
20	10.00	22.80	1.75
21	10.50	23.20	1.72
22	11.00	23.50	1.28

BLANK VALUE = 23.5 micrograms carbon
BLANK FACTOR = 23.5 / 10.99805 = +2.14E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jacque Steele 4/09/96
JL STEELE 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD 22N12A Date: 04/09/96 Time: 09:23:22

Sample Size = ~~1 uL~~ JS 4/9/96 1ml
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	21.60	98.61
3	1.51	148.60	85.46
4	2.00	301.70	50.75
5	2.50	426.60	29.28
6	3.00	506.30	15.74
7	3.50	548.90	7.76
8	4.00	567.90	3.35
9	4.50	576.10	1.42
10	5.00	579.40	0.57
11	5.50	581.10	0.29
12	6.00	582.10	0.17
13	6.50	582.70	0.10
14	7.00	583.20	0.09
15	7.50	583.70	0.09
16	8.00	584.10	0.07
17	8.50	584.50	0.07
18	9.00	584.90	0.07
19	9.50	585.20	0.05
20	10.00	585.50	0.05
21	10.50	585.80	0.05
22	11.00	586.20	0.07

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(586.2 - 8.90906)(1)/(1) = +5.773E+02 g/L Carbon
(586.2 - 8.90906)(1)/(1)(12) = +4.811E+01 Molar Carbon

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

$\frac{577.3}{602}$ → ~~96.22%~~ JS 4/9/96
95.90%

WHC-SD-WM-DP-140, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD 16N12E Date: 04/09/96 Time: 09:35:52

Sample Size = ~~1 uL~~ JS 4/9/96 .200ml
Dil Factor = 1
Blank ID # =
Blank Value = 2.14 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	4.60	93.48
3	1.51	58.90	92.19
4	2.00	230.40	74.44
5	2.50	443.00	47.99
6	3.00	549.00	19.31
7	3.50	582.00	5.67
8	4.00	592.30	1.74
9	4.50	596.50	0.70
10	5.00	599.00	0.42
11	5.50	600.80	0.30
12	6.00	602.10	0.22
13	6.50	603.10	0.17
14	7.00	604.10	0.17
15	7.50	604.80	0.12
16	8.00	605.50	0.12
17	8.50	606.10	0.10
18	9.00	606.70	0.10
19	9.50	607.20	0.08
20	10.00	607.70	0.08
21	10.50	608.20	0.08
22	11.00	608.70	0.08

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(608.7 - 23.53961)(1)/(1) = +5.852E+02 g/L Carbon
(608.7 - 23.53961)(1)/(1)(12) = +4.876E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jacque Steele 4/09/96
JL STEELE 00000

$\frac{585.2}{.200ml} = 2926$

417

$\frac{2926}{3000} = 97.53\%$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLANK Date: 04/09/96 Time: 09:48:52

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	2.00	80.00
3	1.51	3.50	42.86
4	2.00	4.30	18.60
5	2.50	4.90	12.24
6	3.00	5.30	7.55
7	3.50	5.70	7.02
8	4.00	6.00	5.00
9	4.50	6.30	4.76
10	5.00	6.60	4.55
11	5.50	6.90	4.35
12	6.00	7.20	4.17
13	6.50	7.60	5.26
14	7.00	7.90	3.80
15	7.50	8.30	4.82
16	8.00	8.60	3.49
17	8.50	8.90	3.37
18	9.00	9.20	3.26
19	9.50	9.50	3.16
20	10.00	9.70	2.06
21	10.50	10.00	3.00
22	11.00	10.30	2.91

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(10.3 - 8.90906)(1)/(1) = +1.39E+00 g/L Carbon
(10.3 - 8.90906)(1)/(1)(12) = +1.16E-01 Molar Carbon

Sample Run By: Jackie Steele 4/19/96
JL STEELE 00000

(10.30 - 8.90) = 1.4

WHC-SD-WM-DP-140, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLANK Date: 04/09/96 Time: 10:01:05

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.14 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	0.90	77.78
3	1.51	3.30	72.73
4	2.00	7.60	56.58
5	2.50	11.40	33.33
6	3.00	13.60	16.18
7	3.50	14.70	7.48
8	4.00	15.90	7.55
9	4.50	16.70	4.79
10	5.00	17.40	4.02
11	5.50	17.90	2.79
12	6.00	18.50	3.24
13	6.50	19.00	2.63
14	7.00	19.50	2.56
15	7.50	19.90	2.01
16	8.00	20.20	1.49
17	8.50	20.60	1.94
18	9.00	21.00	1.90
19	9.50	21.30	1.41
20	10.00	21.60	1.39
21	10.50	21.90	1.37
22	11.00	22.20	1.35

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(22.2 - 23.53935)(1)/(1) = < 5.00 E-3 g/L Carbon
(22.2 - 23.53935)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

|22.20 - 23.50| = 1.3

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1225 ~~DUP2~~ 15/9/96 Date: 04/09/96 Time: 11:17:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.14 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	3.80	89.47
3	1.51	15.40	75.32
4	2.00	34.80	55.75
5	2.50	50.90	31.63
6	3.00	58.20	12.54
7	3.50	62.20	6.43
8	4.00	63.70	2.35
9	4.50	65.60	2.90
10	5.00	67.50	2.81
11	5.50	69.40	2.74
12	6.00	70.70	1.84
13	6.50	71.80	1.53
14	7.00	72.70	1.24
15	7.50	73.40	0.95
16	8.00	74.10	0.94
17	8.50	74.70	0.80
18	9.00	75.30	0.80
19	9.50	75.80	0.66
20	10.00	76.30	0.66
21	10.50	76.90	0.78
22	11.00	77.50	0.77

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(77.5 - 23.54353)(1)/(1) = +5.40E+01 g/L Carbon
(77.5 - 23.54353)(1)/(1)(12) = +4.50E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

420

$\frac{54.0}{.1676g} = 3.22E2$

WHC-SD-WM-DP-140, REV 2

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1225 ~~DUP~~ 4/9/96 JS Date: 04/09/96 Time: 10:40:34

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	1.40	78.57
3	1.51	10.70	86.92
4	2.00	22.70	52.86
5	2.50	35.20	35.51
6	3.00	46.30	23.97
7	3.50	54.80	15.51
8	4.00	60.80	9.87
9	4.50	64.90	6.32
10	5.00	67.60	3.99
11	5.50	69.30	2.45
12	6.00	70.40	1.56
13	6.50	71.20	1.12
14	7.00	71.70	0.70
15	7.50	72.20	0.69
16	8.00	72.70	0.69
17	8.50	73.10	0.55
18	9.00	73.50	0.54
19	9.50	73.90	0.54
20	10.00	74.30	0.54
21	10.50	74.60	0.40
22	11.00	75.00	0.53

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(75 - 8.911236)(1)/(1) = +6.61E+01 g/L Carbon
(75 - 8.911236)(1)/(1)(12) = +5.51E+00 Molar Carbon

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

$\frac{66.1}{.2423g} = 2.73^{E2}$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1225 DUP Date: 04/09/96 Time: 10:52:31

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.14 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	2.90	82.76
3	1.51	15.70	81.53
4	2.00	42.10	62.71
5	2.50	67.60	37.72
6	3.00	81.70	17.26
7	3.50	88.20	7.37
8	4.00	92.70	4.85
9	4.50	95.00	2.42
10	5.00	96.90	1.96
11	5.50	99.20	2.32
12	6.00	101.40	2.17
13	6.50	103.20	1.74
14	7.00	104.60	1.34
15	7.50	105.90	1.23
16	8.00	107.00	1.03
17	8.50	108.00	0.93
18	9.00	108.90	0.83
19	9.50	109.70	0.73
20	10.00	110.60	0.81
21	10.50	111.40	0.72
22	11.00	112.20	0.71

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(112.2 - 23.53935)(1)/(1) = +8.866E+01 g/L Carbon
(112.2 - 23.53935)(1)/(1)(12) = +7.388E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

88.66 / .2423g = 3.66 E2

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1225 DUP Date: 04/09/96 Time: 11:05:48

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	1.70	76.47
3	1.51	12.10	85.95
4	2.00	23.10	47.62
5	2.50	32.60	29.14
6	3.00	40.00	18.50
7	3.50	44.90	10.91
8	4.00	48.20	6.85
9	4.50	50.30	4.17
10	5.00	51.60	2.52
11	5.50	52.30	1.34
12	6.00	52.90	1.13
13	6.50	53.30	0.75
14	7.00	53.70	0.74
15	7.50	54.20	0.92
16	8.00	54.50	0.55
17	8.50	54.90	0.73
18	9.00	55.30	0.72
19	9.50	55.70	0.72
20	10.00	56.10	0.71
21	10.50	56.40	0.53
22	11.00	56.80	0.70

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(56.8 - 8.909802)(1)/(1) = +4.79E+01 g/L Carbon
(56.8 - 8.909802)(1)/(1)(12) = +3.99E+00 Molar Carbon

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

$\frac{47.9}{.1676g.} = 2.86^{E2}$

WHC-SD-WM-DP-140, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001226 Date: 04/09/96 Time: 11:32:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	2.10	85.71
3	1.51	17.40	87.93
4	2.00	38.80	55.15
5	2.50	58.70	33.90
6	3.00	72.70	19.26
7	3.50	81.90	11.23
8	4.00	87.00	5.86
9	4.50	89.90	3.23
10	5.00	91.60	1.86
11	5.50	92.80	1.29
12	6.00	93.60	0.85
13	6.50	94.30	0.74
14	7.00	95.00	0.74
15	7.50	95.60	0.63
16	8.00	96.20	0.62
17	8.50	96.80	0.62
18	9.00	97.30	0.51
19	9.50	97.80	0.51
20	10.00	98.30	0.51
21	10.50	98.80	0.51
22	11.00	99.30	0.50

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(99.3 - 8.909902)(1)/(1) = +9.04E+01 g/L Carbon
(99.3 - 8.909902)(1)/(1)(12) = +7.53E+00 Molar Carbon

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

$\frac{90.4}{.3934g} = 2.30E2$

WHC-SD-WM-DP-140, REV.2

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001226 Date: 04/09/96 Time: 11:44:53

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.14 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	1.80	66.67
3	1.51	13.70	86.86
4	2.00	40.70	66.34
5	2.50	72.70	44.02
6	3.00	93.00	21.83
7	3.50	103.30	9.97
8	4.00	108.80	5.06
9	4.50	112.00	2.86
10	5.00	113.90	1.67
11	5.50	115.50	1.39
12	6.00	116.80	1.11
13	6.50	117.80	0.85
14	7.00	118.60	0.67
15	7.50	119.40	0.67
16	8.00	120.10	0.58
17	8.50	120.80	0.58
18	9.00	121.40	0.49
19	9.50	122.00	0.49
20	10.00	122.60	0.49
21	10.50	123.10	0.41
22	11.00	123.60	0.40

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(123.6 - 23.54144)(1)/(1) = +1.001E+02 g/L Carbon
(123.6 - 23.54144)(1)/(1)(12) = +8.338E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/09/96
JLP STEELE 00000

$\frac{100.1}{.3934g} = 2.54E2$

WHC-SD-WM-DP-140, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1226 DUP Date: 04/09/96 Time: 11:56:51

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	2.40	83.33
3	1.51	19.10	87.43
4	2.01	44.80	57.37
5	2.51	69.70	35.72
6	3.01	87.40	20.25
7	3.50	98.80	11.54
8	4.00	105.10	5.99
9	4.50	108.60	3.22
10	5.00	110.80	1.99
11	5.50	112.20	1.25
12	6.00	113.30	0.97
13	6.50	114.20	0.79
14	7.00	115.10	0.78
15	7.50	115.90	0.69
16	8.00	116.60	0.60
17	8.50	117.30	0.60
18	9.00	118.00	0.59
19	9.50	118.70	0.59
20	10.00	119.30	0.50
21	10.50	119.90	0.50
22	11.00	120.50	0.50

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(120.5 - 8.910593)(1)/(1) = +1.116E+02 g/L Carbon
(120.5 - 8.910593)(1)/(1)(12) = +9.299E+00 Molar Carbon

Sample Run By: JL STEELE 00000

$\frac{111.6}{.4979g} = 2.34^{E2}$

WHC-SD-WM-DP-140, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1226 DUP Date: 04/09/96 Time: 12:09:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.14 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	3.90	82.05
3	1.51	22.60	82.74
4	2.00	54.90	58.83
5	2.50	89.90	38.93
6	3.00	110.60	18.72
7	3.50	121.20	8.75
8	4.00	127.80	5.16
9	4.50	131.90	3.11
10	5.00	134.80	2.15
11	5.50	136.90	1.53
12	6.00	138.50	1.16
13	6.50	139.80	0.93
14	7.00	140.80	0.71
15	7.50	141.70	0.64
16	8.00	142.40	0.49
17	8.50	143.10	0.49
18	9.00	143.80	0.49
19	9.50	144.50	0.48
20	10.00	145.10	0.41
21	10.50	145.70	0.41
22	11.00	146.20	0.34

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(146.2 - 23.53974)(1)/(1) = +1.227E+02 g/L Carbon
(146.2 - 23.53974)(1)/(1)(12) = +1.022E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

$\frac{122.7}{.4977g} = 2.46^{82}$

427

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1226 SPIKE Date: 04/09/96 Time: 12:21:57

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	6.00	93.33
3	1.51	68.00	91.18
4	2.00	161.80	57.97
5	2.50	253.30	36.12
6	3.00	324.10	21.85
7	3.50	371.20	12.69
8	4.00	399.00	6.97
9	4.50	414.60	3.76
10	5.00	422.40	1.85
11	5.50	426.50	0.96
12	6.00	429.00	0.58
13	6.50	430.80	0.42
14	7.00	432.30	0.35
15	7.50	433.50	0.28
16	8.00	434.60	0.25
17	8.50	435.60	0.23
18	9.00	436.50	0.21
19	9.50	437.40	0.21
20	10.00	438.20	0.18
21	10.50	439.00	0.18
22	11.00	439.80	0.18

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(439.8 - 8.910495)(1)/(1) = +4.309E+02 g/L Carbon
(439.8 - 8.910495)(1)/(1)(12) = +3.591E+01 Molar Carbon

Sample Run By: JL STEELE 00000

$$\frac{439.80}{\left(\frac{99.30}{.3934}\right)(.6313) + 300} = \frac{439.80}{459.35} = 95.74\%$$

423

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

WHC-SD-WM-DP-140, REV. 1

Sample: 1226 SPIKE Date: 04/09/96 Time: 12:35:13

Sample Size = 1 uL *Analyst : JL STEELE*
Dil Factor = 1 *Min Readings = 22*
Blank ID # = *Max Readings = 22*
Blank Value = 2.14 ug/minute C *% Difference = 10*

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	4.20	76.19
3	1.51	49.70	91.55
4	2.00	153.80	67.69
5	2.50	295.70	47.99
6	3.00	381.10	22.41
7	3.50	416.00	8.39
8	4.00	431.20	3.53
9	4.50	438.90	1.75
10	5.00	444.10	1.17
11	5.50	447.80	0.83
12	6.00	450.70	0.64
13	6.50	452.80	0.46
14	7.00	454.50	0.37
15	7.50	455.80	0.29
16	8.00	457.00	0.26
17	8.50	458.00	0.22
18	9.00	459.00	0.22
19	9.50	459.80	0.17
20	10.00	460.60	0.17
21	10.50	461.40	0.17
22	11.00	462.00	0.13

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(462 - 23.53935)(1)/(1) = +4.385E+02 g/L Carbon
(462 - 23.53935)(1)/(1)(12) = +3.654E+01 Molar Carbon
< < < < WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!! > > > >

Sample Run By: Jackie Steele
JL STEELE 00000

$$\frac{462.00}{\left(\frac{123.60}{.3934}\right)(.6313)+300} = \frac{462.00}{498.34} = 92.71\%$$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001227 Date: 04/09/96 Time: 12:49:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	1.40	71.43
3	1.50	11.60	87.93
4	2.00	29.30	60.41
5	2.51	49.10	40.33
6	3.00	66.70	26.39
7	3.50	78.90	15.46
8	4.00	86.70	9.00
9	4.50	91.00	4.73
10	5.00	93.60	2.78
11	5.50	95.30	1.78
12	6.00	96.40	1.14
13	6.50	97.30	0.92
14	7.00	98.10	0.82
15	7.50	98.90	0.81
16	8.00	99.60	0.70
17	8.50	100.30	0.70
18	9.00	100.90	0.59
19	9.50	101.60	0.69
20	10.00	102.20	0.59
21	10.50	102.70	0.49
22	11.00	103.30	0.58

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(103.3 - 8.910495)(1)/(1) = +9.439E+01 g/L Carbon
(103.3 - 8.910495)(1)/(1)(12) = +7.866E+00 Molar Carbon

Sample Run By: Jackie Steele 04/09/96
JL STEELE 00000

$\frac{94.39}{.2962g} = 3.19E2$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001227 Date: 04/09/96 Time: 13:02:08

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.14 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	4.10	82.93
3	1.51	23.80	82.77
4	2.00	66.50	64.21
5	2.50	108.60	38.77
6	3.00	131.30	17.29
7	3.50	143.90	8.76
8	4.00	150.80	4.58
9	4.50	156.20	3.46
10	5.00	160.30	2.56
11	5.50	163.80	2.14
12	6.00	166.70	1.74
13	6.50	169.50	1.65
14	7.00	172.10	1.51
15	7.50	174.50	1.38
16	8.00	176.80	1.30
17	8.50	178.90	1.17
18	9.00	180.70	1.00
19	9.50	182.30	0.88
20	10.00	183.70	0.76
21	10.50	185.00	0.70
22	11.00	186.20	0.64

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(186.2 - 23.53582)(1)/(1) = +1.627E+02 g/L Carbon
(186.2 - 23.53582)(1)/(1)(12) = +1.356E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

$\frac{162.7}{.29662g} = 5.4922$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1227 DUP Date: 04/09/96 Time: 13:14:01

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .81 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.90	0.00
2	1.01	2.50	64.00
3	1.51	13.10	80.92
4	2.00	29.60	55.74
5	2.50	47.50	37.68
6	3.00	63.40	25.08
7	3.50	75.10	15.58
8	4.00	82.20	8.64
9	4.50	86.40	4.86
10	5.00	88.90	2.81
11	5.50	90.50	1.77
12	6.00	91.50	1.09
13	6.50	92.40	0.97
14	7.00	93.10	0.75
15	7.50	93.80	0.75
16	8.00	94.50	0.74
17	8.50	95.10	0.63
18	9.00	95.70	0.63
19	9.50	96.30	0.62
20	10.00	96.80	0.52
21	10.50	97.40	0.62
22	11.00	97.90	0.51

USER INPUT BLANK VALUE
BLANK VALUE = 8.908418 micrograms carbon
BLANK FACTOR = 8.908418 / 10.99805 = +8.1E-01 ug/min Carbon

SAMPLE RESULTS:
(97.9 - 8.909753)(1)/(1) = +8.90E+01 g/L Carbon
(97.9 - 8.909753)(1)/(1)(12) = +7.42E+00 Molar Carbon

Sample Run By: Jackie Steele 4/09/96
JL STEELE 00000

$\frac{89.0}{.26166g} = 3.40^{E2}$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 1227 DUP Date: 04/09/96 Time: 13:39:58

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.14 ug/minute C

Analyst : JL STEELE
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	3.00	76.67
3	1.51	22.00	86.36
4	2.01	60.30	63.52
5	2.51	101.30	40.47
6	3.01	124.80	18.83
7	3.51	137.40	9.17
8	4.00	144.40	4.85
9	4.50	149.70	3.54
10	5.00	153.80	2.67
11	5.50	157.00	2.04
12	6.00	159.80	1.75
13	6.50	162.20	1.48
14	7.00	164.30	1.28
15	7.50	166.20	1.14
16	8.00	168.10	1.13
17	8.50	170.10	1.18
18	9.00	171.90	1.05
19	9.50	173.50	0.92
20	10.00	174.90	0.80
21	10.50	176.20	0.74
22	11.00	177.40	0.68

USER INPUT BLANK VALUE
BLANK VALUE = 23.53582 micrograms carbon
BLANK FACTOR = 23.53582 / 10.99805 = +2.1E+00 ug/min Carbon

SAMPLE RESULTS:
(177.4 - 23.54705)(1)/(1) = +1.539E+02 g/L Carbon
(177.4 - 23.54705)(1)/(1)(12) = +1.282E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: Jacque Steele 4/09/96
JL STEELE 00000

$\frac{153.9}{.2616g} = 5.88^{E2}$

LABCORE Data Entry Template for Worklist# 7306

Analyst: KRM **Instrument:** CARB2 **Book #** 22N12A 16N12E

Method: LA-342-100 Rev/Mod A-0

Worklist Comment: B-106 FOR @TICTOC1 ACID PERSULFATE

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				@TICTOC1 TIC-02	SOLID	1	1.3	N/A	ug/g
		1	BLNK				@TICTOC1 TOC-02	SOLID	1	8.3	N/A	ug/g
		2	STD				@TICTOC1 TIC-02	SOLID	6.00E2	6.12E2	N/A	ug/g
		2	STD				@TICTOC1 TOC-02	SOLID	3.00E3	2.94E3	N/A	ug/g
95000096	B-106	3	SAMPLE	S96T001237	0		@TICTOC1 TIC-02	SOLID	N/A	2.81E2	5.00	ug/g
95000096	B-106	3	SAMPLE	S96T001237	0		@TICTOC1 TOC-02	SOLID	N/A	2.78E2	40.0	ug/g
95000096	B-106	4	DUP	S96T001237	0		@TICTOC1 TIC-02	SOLID	2.81E2	2.86E2	N/A	ug/g
95000096	B-106	4	DUP	S96T001237	0		@TICTOC1 TOC-02	SOLID	2.78E2	2.99E2	N/A	ug/g
95000096	B-106	5	SPK	S96T001237	0		@TICTOC1 TIC-02	SOLID	100	101	N/A	ug/g
95000096	B-106	5	SPK	S96T001237	0		@TICTOC1 TOC-02	SOLID	100	100	N/A	ug/g
95000096	B-106	6	SAMPLE	S96T001236	0		@TICTOC1 TIC-02	SOLID	N/A	3.38E2	5.00	ug/g
95000096	B-106	6	SAMPLE	S96T001236	0		@TICTOC1 TOC-02	SOLID	N/A	7.70E2	40.0	ug/g
95000096	B-106	7	DUP	S96T001236	0		@TICTOC1 TIC-02	SOLID	3.38E2	3.43E2	N/A	ug/g
95000096	B-106	7	DUP	S96T001236	0		@TICTOC1 TOC-02	SOLID	7.70E2	6.44E2	N/A	ug/g
95000096	B-106	8	SAMPLE	S96T001238	0		@TICTOC1 TIC-02	SOLID	N/A	6.45E3	5.00	ug/g
95000096	B-106	8	SAMPLE	S96T001238	0		@TICTOC1 TOC-02	SOLID	N/A	8.96E3	40.0	ug/g
95000096	B-106	9	DUP	S96T001238	0		@TICTOC1 TIC-02	SOLID	6.45E3	5.40E3	N/A	ug/g
95000096	B-106	9	DUP	S96T001238	0		@TICTOC1 TOC-02	SOLID	8.96E3	9.51E3	N/A	ug/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# 7306

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
95000096	B-106	10	SAMPLE	S96T001239	0		@TICTOC1 TIC-02	SOLID	N/A	2.77E2	5.00	ug/g
95000096	B-106	10	SAMPLE	S96T001239	0		@TICTOC1 TOC-02	SOLID	N/A	1.79E2	40.0	ug/g
95000096	B-106	11	DUP	S96T001239	0		@TICTOC1 TIC-02	SOLID	2.77E2	2.72E2	N/A	ug/g
95000096	B-106	11	DUP	S96T001239	0		@TICTOC1 TOC-02	SOLID	1.79E2	1.52E2	N/A	ug/g
95000096	B-106	12	SAMPLE	S96T001644	0		@TICTOC1 TIC-02	SOLID	N/A	2.97E2	5.00	ug/g
95000096	B-106	12	SAMPLE	S96T001644	0		@TICTOC1 TOC-02	SOLID	N/A	4.41E2	40.0	ug/g
95000096	B-106	13	DUP	S96T001644	0		@TICTOC1 TIC-02	SOLID	2.97E2	3.07E2	N/A	ug/g
95000096	B-106	13	DUP	S96T001644	0		@TICTOC1 TOC-02	SOLID	4.41E2	4.41E2	N/A	ug/g

Final page for worklist # 7306

4-16-96
Analyst Signature **Date**

4-20-96
Analyst Signature **Date**

Reviewed By RW Schroeder
4/20/96

Data Entry Comments:

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

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 04/16/96 Time: 04:55:06

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	0.50	60.00
3	1.51	0.80	37.50
4	2.01	1.30	38.46
5	2.51	1.80	27.78
6	3.00	1.80	0.00
7	3.50	1.80	0.00
8	4.00	1.90	5.26
9	4.50	1.90	0.00
10	5.00	1.90	0.00
11	5.50	1.90	0.00
12	6.00	1.90	0.00
13	6.50	1.90	0.00
14	7.00	1.90	0.00
15	7.50	2.00	5.00
16	8.00	2.30	13.04
17	8.50	3.30	30.30
18	9.00	3.70	10.81
19	9.50	4.00	7.50
20	10.00	4.30	6.98
21	10.50	4.60	6.52
22	11.00	4.90	6.12

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 436 TO 463.

BLANK VALUE = 4.9 micrograms carbon
BLANK FACTOR = 4.9 / 11.00064 = +4.5E-01 ug/min Carbon

Sample Run By: 4-16-96
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BLK Date: 04/16/96 Time: 05:09:42

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BLK
Blank Value = N/A

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	2.00	85.00
3	1.51	6.50	69.23
4	2.01	11.50	43.48
5	2.50	15.90	27.67
6	3.01	18.80	15.43
7	3.51	20.90	10.05
8	4.01	22.20	5.86
9	4.50	23.40	5.13
10	5.00	24.10	2.90
11	5.50	24.70	2.43
12	6.00	25.20	1.98
13	6.50	25.70	1.95
14	7.00	26.20	1.91
15	7.50	26.60	1.50
16	8.00	27.00	1.48
17	8.50	27.40	1.46
18	9.00	27.80	1.44
19	9.50	28.20	1.42
20	10.00	28.50	1.05
21	10.50	28.90	1.38
22	11.00	29.20	1.03

BLANK VALUE = 29.2 micrograms carbon
BLANK FACTOR = 29.2 / 10.99969 = +2.65E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 04/16/96 Time: 05:24:18

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	29.70	0.00
2	1.01	145.30	79.56
3	1.51	324.10	55.17
4	2.00	453.70	28.57
5	2.50	530.30	14.44
6	3.00	573.10	7.47
7	3.50	595.00	3.68
8	4.00	605.30	1.70
9	4.50	609.60	0.71
10	5.00	611.70	0.34
11	5.50	612.80	0.18
12	6.00	613.40	0.10
13	6.50	613.90	0.08
14	7.00	614.30	0.07
15	7.50	614.70	0.07
16	8.00	615.10	0.07
17	8.50	615.40	0.05
18	9.00	615.80	0.06
19	9.50	616.10	0.05
20	10.00	616.40	0.05
21	10.50	616.80	0.06
22	11.00	617.00	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(617 - 4.949931)(1)/(1000) = +6.121E-01 g/L Carbon
(617 - 4.949931)(1)/(1000)(12) = +5.100E-02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: STD Date: 04/16/96 Time: 05:36:09

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	12.70	96.85
3	1.50	99.40	87.22
4	2.00	266.20	62.66
5	2.50	435.40	38.86
6	3.00	534.20	18.49
7	3.50	580.60	7.99
8	4.00	598.80	3.04
9	4.50	605.10	1.04
10	5.00	607.90	0.46
11	5.50	609.10	0.20
12	6.00	609.90	0.13
13	6.50	610.80	0.15
14	7.00	612.00	0.20
15	7.50	613.10	0.18
16	8.00	614.00	0.15
17	8.50	614.70	0.11
18	9.00	615.50	0.13
19	9.50	616.10	0.10
20	10.00	616.30	0.03
21	10.50	616.90	0.10
22	11.00	617.60	0.11

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(617.6 - 29.14911)(1)/(200) = +2.942E+00 g/L Carbon
(617.6 - 29.14911)(1)/(200)(12) = +2.452E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 04/16/96 Time: 05:51:12

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	0.60	50.00
3	1.51	1.10	45.45
4	2.00	1.50	26.67
5	2.50	1.90	21.05
6	3.00	2.20	13.64
7	3.50	2.50	12.00
8	4.00	2.70	7.41
9	4.50	3.00	10.00
10	5.00	3.30	9.09
11	5.50	3.50	5.71
12	6.00	3.80	7.89
13	6.50	4.00	5.00
14	7.00	4.20	4.76
15	7.50	4.50	6.67
16	8.00	4.70	4.26
17	8.50	5.00	6.00
18	9.00	5.30	5.66
19	9.50	5.50	3.64
20	10.00	5.80	5.17
21	10.50	5.90	1.69
22	11.00	6.20	4.84

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(6.2 - 4.950316)(1)/(1) = +1.2E+00 g/L Carbon
(6.2 - 4.950316)(1)/(1)(12) = +1.0E-01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: R BLK Date: 04/16/96 Time: 06:03:03

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.00	0.00
2	1.01	1.30	100.00
3	1.50	4.40	70.45
4	2.00	7.90	44.30
5	2.50	10.30	23.30
6	3.00	12.00	14.17
7	3.50	13.00	7.69
8	4.00	13.70	5.11
9	4.50	14.20	3.52
10	5.00	14.60	2.74
11	5.50	15.00	2.67
12	6.00	15.30	1.96
13	6.50	15.60	1.92
14	7.00	15.80	1.27
15	7.50	16.10	1.86
16	8.00	16.20	0.62
17	8.50	16.30	0.61
18	9.00	16.60	1.81
19	9.50	17.00	2.35
20	10.00	18.20	6.59
21	10.50	19.80	8.08
22	11.00	20.90	5.26

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(20.9 - 29.14693)(1)/(1) = < 5.00 E-3 g/L Carbon
(20.9 - 29.14693)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1237 Date: 04/16/96 Time: 06:17:54

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	13.50	0.00
2	1.01	35.60	62.08
3	1.51	59.30	39.97
4	2.00	81.70	27.42
5	2.50	100.80	18.95
6	3.00	117.00	13.85
7	3.50	129.00	9.30
8	4.00	137.20	5.98
9	4.50	142.90	3.99
10	5.00	146.70	2.59
11	5.50	149.40	1.81
12	6.00	151.30	1.26
13	6.50	152.90	1.05
14	7.00	154.10	0.78
15	7.50	155.20	0.71
16	8.00	156.10	0.58
17	8.50	157.00	0.57
18	9.00	157.80	0.51
19	9.50	158.60	0.50
20	10.00	159.40	0.50
21	10.50	160.10	0.44
22	11.00	160.80	0.44

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(160.8 - 4.950673)(1)/(1) = +1.558E+02 g/L Carbon
(160.8 - 4.950673)(1)/(1)(12) = +1.299E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{155.8}{.5545} = 2.81E^2$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1237 Date: 04/16/96 Time: 06:29:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	7.70	92.21
3	1.51	36.40	78.85
4	2.00	84.20	56.77
5	2.50	119.30	29.42
6	3.00	139.80	14.66
7	3.50	151.90	7.97
8	4.00	159.10	4.53
9	4.50	163.10	2.45
10	5.00	166.00	1.75
11	5.50	168.10	1.25
12	6.00	169.80	1.00
13	6.50	171.10	0.76
14	7.00	172.20	0.64
15	7.50	173.40	0.69
16	8.00	175.20	1.03
17	8.50	177.50	1.30
18	9.00	179.40	1.06
19	9.50	181.00	0.88
20	10.00	182.00	0.55
21	10.50	182.90	0.49
22	11.00	183.50	0.33

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(183.5 - 29.14919)(1)/(1) = +1.544E+02 g/L Carbon
(183.5 - 29.14919)(1)/(1)(12) = +1.286E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{154.4}{.5545} = 2.78E^{2}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1237 Date: 04/16/96 Time: 06:41:40

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	5.90	93.22
3	1.51	24.50	75.92
4	2.01	46.40	47.20
5	2.51	67.60	31.36
6	3.01	84.60	20.09
7	3.51	97.10	12.87
8	4.00	104.90	7.44
9	4.50	110.10	4.72
10	5.00	112.80	2.39
11	5.50	114.60	1.57
12	6.00	115.80	1.04
13	6.50	116.70	0.77
14	7.00	117.50	0.68
15	7.50	118.30	0.68
16	8.00	119.00	0.59
17	8.50	119.70	0.58
18	9.00	120.40	0.58
19	9.50	121.10	0.58
20	10.00	121.60	0.41
21	10.50	122.30	0.57
22	11.00	122.90	0.49

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(122.9 - 4.951497)(1)/(1) = +1.179E+02 g/L Carbon
(122.9 - 4.951497)(1)/(1)(12) = +9.829E+00 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{117.9}{.4118} = 2.86E^2$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1237 Date: 04/16/96 Time: 06:59:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	6.60	87.88
3	1.51	24.30	72.84
4	2.00	50.00	51.40
5	2.50	75.80	34.04
6	3.00	94.60	19.87
7	3.50	107.50	12.00
8	4.00	115.80	7.17
9	4.50	121.60	4.77
10	5.00	125.30	2.95
11	5.50	128.30	2.34
12	6.00	130.50	1.69
13	6.50	132.00	1.14
14	7.00	133.40	1.05
15	7.50	135.20	1.33
16	8.00	137.30	1.53
17	8.50	139.30	1.44
18	9.00	142.50	2.25
19	9.50	146.30	2.60
20	10.00	149.20	1.94
21	10.50	151.20	1.32
22	11.00	152.30	0.72

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(152.3 - 29.14693)(1)/(1) = +1.232E+02 g/L Carbon
(152.3 - 29.14693)(1)/(1)(12) = +1.026E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{123.2}{.9118} = 2.99$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1237 + SP Date: 04/16/96 Time: 08:18:39

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	22.80	98.68
3	1.51	116.00	80.34
4	2.01	221.50	47.63
5	2.50	303.70	27.07
6	3.00	365.40	16.89
7	3.50	406.30	10.07
8	4.00	430.50	5.62
9	4.50	444.10	3.06
10	5.00	451.60	1.66
11	5.50	455.50	0.86
12	6.00	458.00	0.55
13	6.50	459.70	0.37
14	7.00	460.90	0.26
15	7.50	461.80	0.19
16	8.00	462.80	0.22
17	8.50	463.60	0.17
18	9.00	464.50	0.19
19	9.50	465.20	0.15
20	10.00	465.80	0.13
21	10.50	466.50	0.15
22	11.00	467.20	0.15

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(467.2 - 4.949931)(1)/(1) = +4.623E+02 g/L Carbon
(467.2 - 4.949931)(1)/(1)(12) = +3.852E+01 Molar Carbon

Sample Run By: KR MONTEITH 00000

$$\frac{467.2}{\left(\frac{160.8}{.5545}\right)(.5671) + 300} = 101\% \text{ REC}$$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1237 + SP Date: 04/16/96 Time: 08:31:06

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	8.40	90.48
3	1.50	47.30	82.24
4	2.00	150.90	68.65
5	2.50	290.30	48.02
6	3.00	379.90	23.59
7	3.50	421.20	9.81
8	4.00	439.20	4.10
9	4.50	443.60	0.99
10	5.00	451.20	1.68
11	5.50	456.60	1.18
12	6.00	463.50	1.49
13	6.50	468.30	1.02
14	7.00	471.80	0.74
15	7.50	472.60	0.17
16	8.00	475.40	0.59
17	8.50	478.00	0.54
18	9.00	481.80	0.79
19	9.50	484.80	0.62
20	10.00	487.10	0.47
21	10.50	488.90	0.37
22	11.00	490.10	0.24

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(490.1 - 29.14685)(1)/(1) = +4.610E+02 g/L Carbon
(490.1 - 29.14685)(1)/(1)(12) = +3.841E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$$\frac{490.1}{\left(\frac{183.5}{.5545}\right)(.5671) + 300} = 100\ \%\ Rec$$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1236 Date: 04/16/96 Time: 08:43:41

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.20	0.00
2	1.01	18.00	93.33
3	1.51	77.70	76.83
4	2.00	133.50	41.80
5	2.51	173.70	23.14
6	3.01	199.20	12.80
7	3.51	212.10	6.08
8	4.01	219.30	3.28
9	4.50	223.50	1.88
10	5.00	226.20	1.19
11	5.50	228.40	0.96
12	6.00	230.10	0.74
13	6.50	231.70	0.69
14	7.00	233.30	0.69
15	7.50	234.60	0.55
16	8.00	235.80	0.51
17	8.50	237.00	0.51
18	9.00	238.00	0.42
19	9.50	239.00	0.42
20	10.00	240.00	0.42
21	10.50	240.90	0.37
22	11.00	241.70	0.33

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(241.7 - 4.950329)(1)/(1) = +2.367E+02 g/L Carbon
(241.7 - 4.950329)(1)/(1)(12) = +1.973E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{236.7}{.6995} = 3.38E^2$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1236 Date: 04/16/96 Time: 08:55:29

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	7.70	87.01
3	1.51	34.50	77.68
4	2.00	90.70	61.96
5	2.50	170.00	46.65
6	3.00	250.00	32.00
7	3.50	303.60	17.65
8	4.00	358.70	15.36
9	4.50	412.30	13.00
10	5.00	448.30	8.03
11	5.50	474.50	5.52
12	6.00	494.80	4.10
13	6.50	508.60	2.71
14	7.00	512.40	0.74
15	7.50	513.60	0.23
16	8.00	514.80	0.23
17	8.50	525.10	1.96
18	9.00	535.90	2.02
19	9.50	537.60	0.32
20	10.00	552.80	2.75
21	10.50	561.60	1.57
22	11.00	568.10	1.14

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(568.1 - 29.15178)(1)/(1) = +5.389E+02 g/L Carbon
(568.1 - 29.15178)(1)/(1)(12) = +4.491E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: KR MONTEITH 00000

$\frac{538.9}{.6995} = 7.70E^2$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1236 Date: 04/16/96 Time: 09:10:04

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	14.50	0.00
2	1.01	85.60	83.06
3	1.51	129.40	33.85
4	2.00	163.50	20.86
5	2.50	193.20	15.37
6	3.00	213.40	9.47
7	3.50	226.30	5.70
8	4.00	234.00	3.29
9	4.50	239.10	2.13
10	5.00	242.30	1.32
11	5.50	244.80	1.02
12	6.00	246.90	0.85
13	6.50	248.70	0.72
14	7.00	250.40	0.68
15	7.50	251.80	0.56
16	8.00	253.30	0.59
17	8.50	254.60	0.51
18	9.00	255.80	0.47
19	9.50	256.90	0.43
20	10.00	258.00	0.43
21	10.50	258.90	0.35
22	11.00	259.90	0.38

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(259.9 - 4.94945)(1)/(1) = +2.550E+02 g/L Carbon
(259.9 - 4.94945)(1)/(1)(12) = +2.125E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{255.0}{.7426} = 3.43E^2$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1236 Date: 04/16/96 Time: 09:23:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.90	0.00
2	1.01	5.60	83.93
3	1.51	25.30	77.87
4	2.01	59.80	57.69
5	2.51	116.20	48.54
6	3.01	187.50	38.03
7	3.51	261.90	28.41
8	4.00	333.70	21.52
9	4.50	397.90	16.13
10	5.00	442.70	10.12
11	5.50	462.70	4.32
12	6.00	485.50	4.70
13	6.50	487.70	0.45
14	7.00	489.90	0.45
15	7.50	492.10	0.45
16	8.00	494.30	0.45
17	8.50	496.40	0.42
18	9.00	498.90	0.50
19	9.50	501.00	0.42
20	10.00	502.90	0.38
21	10.50	505.00	0.42
22	11.00	507.20	0.43

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(507.2 - 29.14952)(1)/(1) = +4.781E+02 g/L Carbon
(507.2 - 29.14952)(1)/(1)(12) = +3.984E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{478.1}{.7426} = 6.44E^{2}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1238 Date: 04/16/96 Time: 09:37:16

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	48.40	0.00
2	1.01	126.70	61.80
3	1.51	317.20	60.06
4	2.00	589.10	46.16
5	2.50	858.40	31.37
6	3.00	1078.40	20.40
7	3.50	1231.50	12.43
8	4.00	1336.80	7.88
9	4.50	1408.40	5.08
10	5.00	1452.40	3.03
11	5.50	1478.40	1.76
12	6.00	1494.20	1.06
13	6.50	1503.30	0.61
14	7.00	1509.30	0.40
15	7.50	1513.20	0.26
16	8.00	1515.90	0.18
17	8.50	1518.30	0.16
18	9.00	1520.30	0.13
19	9.50	1521.90	0.11
20	10.00	1523.50	0.11
21	10.50	1525.00	0.10
22	11.00	1526.40	0.09

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(1526.4 - 4.94945)(1)/(1) = +1.5215E+03 g/L Carbon
(1526.4 - 4.94945)(1)/(1)(12) = +1.2679E+02 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{1521.5}{.2360} = 6.45E^{3}$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1238 Date: 04/16/96 Time: 09:49:04

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.40	0.00
2	1.01	6.60	78.79
3	1.51	45.80	85.59
4	2.00	101.30	54.79
5	2.50	168.60	39.92
6	3.00	292.10	42.28
7	3.50	522.70	44.12
8	4.00	791.50	33.96
9	4.50	1046.90	24.40
10	5.00	1242.40	15.74
11	5.50	1400.40	11.28
12	6.00	1530.40	8.49
13	6.50	1628.70	6.04
14	7.00	1718.00	5.20
15	7.50	1800.50	4.58
16	8.00	1870.00	3.72
17	8.50	1930.30	3.12
18	9.00	1985.20	2.77
19	9.50	2032.00	2.30
20	10.00	2072.90	1.97
21	10.50	2110.40	1.78
22	11.00	2143.60	1.55

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(2143.6 - 29.14693)(1)/(1) = +2.1145E+03 g/L Carbon
(2143.6 - 29.14693)(1)/(1)(12) = +1.7620E+02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

2114.5 / .2360 8.96E 3

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1238 Date: 04/16/96 Time: 10:02:18

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	22.80	0.00
2	1.01	70.20	67.52
3	1.50	180.90	61.19
4	2.00	293.70	38.41
5	2.50	407.70	27.96
6	3.00	504.60	19.20
7	3.50	582.40	13.36
8	4.00	638.80	8.83
9	4.50	676.70	5.60
10	5.00	701.20	3.49
11	5.50	715.70	2.03
12	6.00	724.60	1.23
13	6.50	730.10	0.75
14	7.00	733.80	0.50
15	7.50	736.30	0.34
16	8.00	738.20	0.26
17	8.50	739.70	0.20
18	9.00	741.00	0.18
19	9.50	742.10	0.15
20	10.00	743.20	0.15
21	10.50	744.20	0.13
22	11.00	745.10	0.12

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(745.1 - 4.949835)(1)/(1) = +7.402E+02 g/L Carbon
(745.1 - 4.949835)(1)/(1)(12) = +6.168E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{740.2}{.1371} = 5.40E^{3}$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT WHC-SD-WM-DP-140, REV. 1
TICTOC REV 2.0

Sample: S99T1238 Date: 04/16/96 Time: 10:14:51

Sample Size = 1 uL *Analyst : KR MONTEITH*
Dil Factor = 1 *Min Readings = 22*
Blank ID # = *Max Readings = 22*
Blank Value = 2.65 ug/minute C *% Difference = 10*

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	8.40	88.10
3	1.51	40.80	79.41
4	2.01	86.20	52.67
5	2.50	188.70	54.32
6	3.00	367.60	48.67
7	3.50	552.50	33.47
8	4.00	703.90	21.51
9	4.50	825.30	14.71
10	5.00	922.10	10.50
11	5.50	999.80	7.77
12	6.00	1062.70	5.92
13	6.50	1112.60	4.48
14	7.00	1153.90	3.58
15	7.50	1188.20	2.89
16	8.00	1217.00	2.37
17	8.50	1241.40	1.97
18	9.00	1263.40	1.74
19	9.50	1284.00	1.60
20	10.00	1301.90	1.37
21	10.50	1318.10	1.23
22	11.00	1333.50	1.15

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(1333.5 - 29.15405)(1)/(1) = +1.3043E+03 g/L Carbon
(1333.5 - 29.15405)(1)/(1)(12) = +1.0870E+02 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{1304.3}{.1371} = 9.51E^{3}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1239 Date: 04/16/96 Time: 10:30:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	9.90	95.96
3	1.51	45.60	78.29
4	2.00	85.40	46.60
5	2.50	116.30	26.57
6	3.00	137.60	15.48
7	3.50	151.80	9.35
8	4.00	160.20	5.24
9	4.50	165.50	3.20
10	5.00	168.70	1.90
11	5.50	170.70	1.17
12	6.00	172.30	0.93
13	6.50	173.60	0.75
14	7.00	174.80	0.69
15	7.50	175.90	0.63
16	8.00	176.90	0.57
17	8.50	177.90	0.56
18	9.00	178.90	0.56
19	9.50	179.80	0.50
20	10.00	180.60	0.44
21	10.50	181.50	0.50
22	11.00	182.30	0.44

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(182.3 - 4.950274)(1)/(1) = +1.773E+02 g/L Carbon
(182.3 - 4.950274)(1)/(1)(12) = +1.478E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{177.3}{.6403} = 2.77E^{2}$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1239 Date: 04/16/96 Time: 12:09:47

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.10	0.00
2	1.01	4.00	72.50
3	1.51	16.90	76.33
4	2.00	36.90	54.20
5	2.50	61.20	39.71
6	3.00	82.20	25.55
7	3.50	97.20	15.43
8	4.00	106.80	8.99
9	4.50	113.70	6.07
10	5.00	118.50	4.05
11	5.50	122.20	3.03
12	6.00	125.30	2.47
13	6.50	127.90	2.03
14	7.00	130.30	1.84
15	7.50	132.40	1.59
16	8.00	134.40	1.49
17	8.50	136.30	1.39
18	9.00	137.90	1.16
19	9.50	139.50	1.15
20	10.00	140.90	0.99
21	10.50	142.30	0.98
22	11.00	143.80	1.04

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(143.8 - 29.15178)(1)/(1) = +1.146E+02 g/L Carbon
(143.8 - 29.15178)(1)/(1)(12) = +9.554E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{114.6}{.6403} = 1.79E^{2}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1239 Date: 04/16/96 Time: 12:23:43

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	5.50	94.55
3	1.51	42.40	87.03
4	2.01	91.50	53.66
5	2.51	129.60	29.40
6	3.01	156.30	17.08
7	3.51	172.10	9.18
8	4.00	180.40	4.60
9	4.50	185.00	2.49
10	5.00	187.50	1.33
11	5.50	189.20	0.90
12	6.00	190.60	0.73
13	6.50	191.80	0.63
14	7.00	192.90	0.57
15	7.50	193.80	0.46
16	8.00	194.80	0.51
17	8.50	195.60	0.41
18	9.00	196.50	0.46
19	9.50	197.30	0.41
20	10.00	198.10	0.40
21	10.50	198.80	0.35
22	11.00	199.60	0.40

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(199.6 - 4.950274)(1)/(1) = +1.946E+02 g/L Carbon
(199.6 - 4.950274)(1)/(1)(12) = +1.622E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{194.6}{.7152} = 2.72E^{2}$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1239 Date: 04/16/96 Time: 12:35:46

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	3.70	81.08
3	1.51	17.70	79.10
4	2.00	40.30	56.08
5	2.50	68.10	40.82
6	3.01	90.80	25.00
7	3.50	105.60	14.02
8	4.00	114.90	8.09
9	4.50	120.10	4.33
10	5.00	123.70	2.91
11	5.50	126.30	2.06
12	6.00	128.20	1.48
13	6.50	129.60	1.08
14	7.00	130.80	0.92
15	7.50	131.90	0.83
16	8.00	132.70	0.60
17	8.50	133.60	0.67
18	9.00	134.30	0.52
19	9.50	135.10	0.59
20	10.00	136.00	0.66
21	10.50	136.80	0.58
22	11.00	137.60	0.58

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(137.6 - 29.15405)(1)/(1) = +1.084E+02 g/L Carbon
(137.6 - 29.15405)(1)/(1)(12) = +9.037E+00 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{108.4}{.7152} = 1.52E^{2}$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1644 Date: 04/16/96 Time: 12:55:56

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	3.20	93.75
3	1.51	19.80	83.84
4	2.00	46.50	57.42
5	2.50	73.70	36.91
6	3.00	99.80	26.15
7	3.50	120.90	17.45
8	4.00	135.90	11.04
9	4.50	145.60	6.66
10	5.00	151.60	3.96
11	5.50	155.20	2.32
12	6.00	157.70	1.59
13	6.50	159.40	1.07
14	7.00	160.90	0.93
15	7.50	162.10	0.74
16	8.00	163.20	0.67
17	8.50	164.20	0.61
18	9.00	165.20	0.61
19	9.50	166.10	0.54
20	10.00	166.90	0.48
21	10.50	167.70	0.48
22	11.00	168.60	0.53

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(168.6 - 4.949862)(1)/(1) = +1.637E+02 g/L Carbon
(168.6 - 4.949862)(1)/(1)(12) = +1.364E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{163.7}{.5508} = 2.97E^2$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1644 Date: 04/16/96 Time: 13:09:02

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.60	0.00
2	1.01	2.50	76.00
3	1.50	13.90	82.01
4	2.00	35.40	60.73
5	2.50	71.20	50.28
6	3.00	111.70	36.26
7	3.50	148.50	24.78
8	4.00	174.50	14.90
9	4.50	193.00	9.59
10	5.00	206.10	6.36
11	5.50	215.60	4.41
12	6.00	223.60	3.58
13	6.50	230.50	2.99
14	7.00	236.80	2.66
15	7.50	242.50	2.35
16	8.00	247.60	2.06
17	8.50	252.00	1.75
18	9.00	256.30	1.68
19	9.50	260.90	1.76
20	10.00	265.50	1.73
21	10.50	269.10	1.34
22	11.00	272.20	1.14

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(272.2 - 29.14919)(1)/(1) = +2.431E+02 g/L Carbon
(272.2 - 29.14919)(1)/(1)(12) = +2.025E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{243.1}{.5508} = 4.41E^2$

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1644 Date: 04/16/96 Time: 13:25:11

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .45 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.10	0.00
2	1.01	7.90	73.42
3	1.51	38.00	79.21
4	2.00	81.70	53.49
5	2.50	124.90	34.59
6	3.00	162.20	23.00
7	3.50	190.80	14.99
8	4.00	211.00	9.57
9	4.50	224.70	6.10
10	5.00	233.30	3.69
11	5.50	239.00	2.38
12	6.00	243.00	1.65
13	6.50	246.00	1.22
14	7.00	248.50	1.01
15	7.50	250.50	0.80
16	8.00	252.40	0.75
17	8.50	254.10	0.67
18	9.00	255.60	0.59
19	9.50	256.90	0.51
20	10.00	258.30	0.54
21	10.50	259.60	0.50
22	11.00	260.70	0.42

USER INPUT BLANK VALUE
BLANK VALUE = 4.949862 micrograms carbon
BLANK FACTOR = 4.949862 / 10.99969 = +4.5E-01 ug/min Carbon

SAMPLE RESULTS:
(260.7 - 4.949478)(1)/(1) = +2.558E+02 g/L Carbon
(260.7 - 4.949478)(1)/(1)(12) = +2.131E+01 Molar Carbon

Sample Run By: _____
KR MONTEITH 00000

$\frac{255.8}{.8338} = 3.07E^2$

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T1644 Date: 04/16/96 Time: 13:37:11

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 2.65 ug/minute C

Analyst : KR MONTEITH
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	3.00	73.33
3	1.50	16.90	82.25
4	2.00	44.80	62.28
5	2.50	89.40	49.89
6	3.00	143.50	37.70
7	3.50	196.70	27.05
8	4.00	238.90	17.66
9	4.50	270.50	11.68
10	5.00	292.10	7.39
11	5.50	309.50	5.62
12	6.00	323.40	4.30
13	6.50	334.50	3.32
14	7.00	344.10	2.79
15	7.50	352.10	2.27
16	8.00	359.90	2.17
17	8.50	367.10	1.96
18	9.00	373.90	1.82
19	9.50	380.40	1.71
20	10.00	386.00	1.45
21	10.50	391.50	1.40
22	11.00	396.80	1.34

USER INPUT BLANK VALUE
BLANK VALUE = 29.14919 micrograms carbon
BLANK FACTOR = 29.14919 / 10.99969 = +2.7E+00 ug/min Carbon

SAMPLE RESULTS:
(396.8 - 29.14919)(1)/(1) = +3.677E+02 g/L Carbon
(396.8 - 29.14919)(1)/(1)(12) = +3.064E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: _____
KR MONTEITH 00000

$\frac{367.7}{.8338} = 4.41E^2$

LABCORE Data Entry Template for Worklist# 8031

Analyst: RS McCown **Instrument:** CARB2 _____ **Book #** TIC 22N12A TOC 16N12E

Method: LA-342-100 Rev/Mod D-0

Worklist Comment: B106 TICTOC. RCJ Rerun #1

GROUP	PROJECT	S	TYPE	SAMPLE#	R	A	-------TEST------	MATRIX	ACTUAL	FOUND	DL	UNIT
		1	BLNK				@TICTOC1 TIC-02	SOLID	1	0.3	N/A	ug/g
		1	BLNK				@TICTOC1 TOC-02	SOLID	1	16.4	N/A	ug/g
		2	STD				@TICTOC1 TIC-02	SOLID	6.02e2	6.02e2	N/A	ug/g
		2	STD				@TICTOC1 TOC-02	SOLID	2.99e3	2.68e3	N/A	ug/g
95000096	B-106	3	SAMPLE	S96T001198	0		@TICTOC1 TOC-02	SOLID	N/A	1.13e4	40.0	ug/g
95000096	B-106	4	DUP	S96T001198	0		@TICTOC1 TIC-02	SOLID	3.70e2	3.77e2	N/A	ug/g
95000096	B-106	4	DUP	S96T001198	0		@TICTOC1 TOC-02	SOLID	1.13e4	1.21e4	N/A	ug/g

Final page for worklist # 8031

RS McCown 4/24/96
Analyst Signature **Date**

RT Stahl 4-26-96
Analyst Signature **Date**

Reviewed RW Schroeder 4/26/96

Data Entry Comments:

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

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASE Date: 04/24/96 Time: 20:20:33

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASE
Blank Value = N/A

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.80	0.00
2	1.01	1.30	38.46
3	1.51	1.90	31.58
4	2.01	2.30	17.39
5	2.50	2.60	11.54
6	3.00	2.90	10.34
7	3.50	3.20	9.37
8	4.00	3.50	8.57
9	4.50	3.70	5.41
10	5.00	4.00	7.50
11	5.50	4.20	4.76
12	6.00	4.50	6.67
13	6.50	4.70	4.26
14	7.00	5.00	6.00
15	7.50	5.20	3.85
16	8.00	5.50	5.45
17	8.50	5.70	3.51
18	9.00	6.00	5.00
19	9.50	6.20	3.23
20	10.00	6.50	4.62
21	10.50	6.70	2.99
22	11.00	6.90	2.90

BLANK VALUE = 6.9 micrograms carbon
BLANK FACTOR = 6.9 / 11.00171 = +6.3E-01 ug/min Carbon

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASE Date: 04/24/96 Time: 20:33:45

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASE
Blank Value = N/A

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	0.90	66.67
3	1.51	2.90	68.97
4	2.00	11.90	75.63
5	2.50	22.30	46.64
6	3.00	27.30	18.32
7	3.50	29.70	8.08
8	4.00	31.00	4.19
9	4.50	32.00	3.13
10	5.00	32.80	2.44
11	5.50	33.40	1.80
12	6.00	33.90	1.47
13	6.50	34.60	2.02
14	7.00	35.00	1.14
15	7.50	35.40	1.13
16	8.00	35.90	1.39
17	8.50	36.30	1.10
18	9.00	36.60	0.82
19	9.50	37.00	1.08
20	10.00	37.30	0.80
21	10.50	37.60	0.80
22	11.00	37.90	0.79

BLANK VALUE = 37.9 micrograms carbon
BLANK FACTOR = 37.9 / 10.99988 = +3.45E+00 ug/min Carbon

<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 22N12A Date: 04/24/96 Time: 22:40:55

Sample Size = 1000 uL
Dil Factor = 1
Blank ID # =
Blank Value = .63 ug/minute C

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	51.20	99.02
3	1.51	233.00	78.03
4	2.00	405.50	42.54
5	2.50	517.40	21.63
6	3.00	573.00	9.70
7	3.50	594.50	3.62
8	4.00	601.40	1.15
9	4.50	603.60	0.36
10	5.00	604.60	0.17
11	5.50	605.20	0.10
12	6.00	605.70	0.08
13	6.50	606.20	0.08
14	7.00	606.50	0.05
15	7.50	606.90	0.07
16	8.00	607.20	0.05
17	8.50	607.60	0.07
18	9.00	607.90	0.05
19	9.50	608.20	0.05
20	10.00	608.50	0.05
21	10.50	608.90	0.07
22	11.00	609.10	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 6.929923 micrograms carbon
BLANK FACTOR = 6.929923 / 10.99988 = +6.3E-01 ug/min Carbon

SAMPLE RESULTS:
(609.1 - 6.929308)(1)/(1000) = +6.022E-01 g/L Carbon
(609.1 - 6.929308)(1)/(1000)(12) = +5.018E-02 Molar Carbon

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

6.02 x 100 = 602/602 x100 = 100% rec

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 16N12E Date: 04/24/96 Time: 22:57:51

Sample Size = 200 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.45 ug/minute C

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.30	0.00
2	1.01	15.40	98.05
3	1.51	163.70	90.59
4	2.00	404.60	59.54
5	2.50	521.90	22.48
6	3.00	554.70	5.91
7	3.50	564.10	1.67
8	4.00	566.90	0.49
9	4.50	568.30	0.25
10	5.00	569.10	0.14
11	5.50	569.80	0.12
12	6.00	570.40	0.11
13	6.50	570.90	0.09
14	7.00	571.40	0.09
15	7.50	572.00	0.10
16	8.00	572.40	0.07
17	8.50	572.80	0.07
18	9.00	573.10	0.05
19	9.50	573.60	0.09
20	10.00	573.90	0.05
21	10.50	574.20	0.05
22	11.00	574.50	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 37.94958 micrograms carbon
BLANK FACTOR = 37.94958 / 10.99988 = +3.5E+00 ug/min Carbon

SAMPLE RESULTS:
(574.5 - 37.94579)(1)/(200) = +2.683E+00 g/L Carbon
(574.5 - 37.94579)(1)/(200)(12) = +2.236E-01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

2680/2990 x100 = 89.6

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLANK Date: 04/24/96 Time: 23:11:24

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .63 ug/minute C

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.10	0.00
2	1.01	2.00	45.00
3	1.51	2.50	20.00
4	2.00	2.90	13.79
5	2.50	3.30	12.12
6	3.00	3.50	5.71
7	3.50	3.70	5.41
8	4.00	4.00	7.50
9	4.50	4.10	2.44
10	5.00	4.30	4.65
11	5.50	4.50	4.44
12	6.00	4.70	4.26
13	6.50	5.00	6.00
14	7.00	5.20	3.85
15	7.50	5.30	1.89
16	8.00	5.40	1.85
17	8.50	5.60	3.57
18	9.00	5.80	3.45
19	9.50	5.90	1.69
20	10.00	6.20	4.84
21	10.50	6.40	3.13
22	11.00	6.60	3.03

USER INPUT BLANK VALUE
BLANK VALUE = 6.929923 micrograms carbon
BLANK FACTOR = 6.929923 / 10.99988 = +6.3E-01 ug/min Carbon

SAMPLE RESULTS:
(6.6 - 6.930923)(1)/(1) = < 5.00 E-3 g/L Carbon
(6.6 - 6.930923)(1)/(1)(12) = < 4.17 E-4 Molar Carbon

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

|6.9 - 6.6| = 0.3

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLANK Date: 04/24/96 Time: 23:41:15

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.45 ug/minute C

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	0.60	66.67
3	1.50	1.20	50.00
4	2.00	2.60	53.85
5	2.50	6.70	61.19
6	3.00	12.00	44.17
7	3.50	15.40	22.08
8	4.00	16.90	8.88
9	4.50	17.60	3.98
10	5.00	18.30	3.83
11	5.50	18.80	2.66
12	6.00	19.20	2.08
13	6.50	19.60	2.04
14	7.00	19.90	1.51
15	7.50	20.10	1.00
16	8.00	20.40	1.47
17	8.50	20.60	0.97
18	9.00	20.70	0.48
19	9.50	20.90	0.96
20	10.00	21.20	1.42
21	10.50	21.30	0.47
22	11.00	21.50	0.93

USER INPUT BLANK VALUE
BLANK VALUE = 37.94958 micrograms carbon
BLANK FACTOR = 37.94958 / 10.99988 = +3.5E+00 ug/min Carbon

SAMPLE RESULTS:
(21.5 - 37.94579)(1)/(1) = < 5.00 E-3 g/L Carbon
(21.5 - 37.94579)(1)/(1)(12) = < 4.17 E-4 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

|21.5-37.9| = 16.4

WHC-SD-WM-DP-140, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001198 Date: 04/25/96 Time: 00:02:16

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .63 ug/minute C

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.70	0.00
2	1.01	7.80	78.21
3	1.51	17.00	54.12
4	2.00	33.40	49.10
5	2.50	54.40	38.60
6	3.00	73.30	25.78
7	3.50	85.80	14.57
8	4.00	93.20	7.94
9	4.50	97.50	4.41
10	5.00	100.60	3.08
11	5.50	102.70	2.04
12	6.00	104.60	1.82
13	6.50	106.10	1.41
14	7.00	107.40	1.21
15	7.50	108.60	1.10
16	8.00	109.60	0.91
17	8.50	110.40	0.72
18	%-1431.00	111.30	0.81
19	%-1430.50	111.90	0.54
20	%-1430.00	112.70	0.71
21	%-1429.50	113.20	0.44
22	%-1429.00	113.80	0.53

USER INPUT BLANK VALUE
BLANK VALUE = 6.929923 micrograms carbon
BLANK FACTOR = 6.929923 / 10.99988 = +6.3E-01 ug/min Carbon

SAMPLE RESULTS:
(113.8 --900.2701)(1)/(1) = +1.014E+03 g/L Carbon
(113.8 --900.2701)(1)/(1)(12) = +8.451E+01 Molar Carbon

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

.2889g

471

113.8 - 6.9 = 106.9 / .2889 = 3.70e2

WHC-SD-WM-DP-140, REV.1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001198 Date: 04/25/96 Time: 00:18:14

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.45 ug/minute C

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	1.90	73.68
3	1.50	15.50	87.74
4	2.00	68.50	77.37
5	2.50	158.10	56.67
6	3.00	228.90	30.93
7	3.50	270.50	15.38
8	4.00	295.10	8.34
9	4.50	310.00	4.81
10	5.00	320.50	3.28
11	5.50	328.70	2.49
12	6.00	335.20	1.94
13	6.50	340.80	1.64
14	7.00	345.20	1.27
15	7.50	348.70	1.00
16	8.00	352.10	0.97
17	8.50	354.70	0.73
18	9.00	357.20	0.70
19	9.50	359.30	0.58
20	10.00	361.20	0.53
21	10.50	362.90	0.47
22	11.00	364.60	0.47

USER INPUT BLANK VALUE
BLANK VALUE = 37.94958 micrograms carbon
BLANK FACTOR = 37.94958 / 10.99988 = +3.5E+00 ug/min Carbon

SAMPLE RESULTS:
(364.6 - 37.94885)(1)/(1) = +3.267E+02 g/L Carbon
(364.6 - 37.94885)(1)/(1)(12) = +2.722E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

.2889g

472

364.6 - 37.9 / .2889 = 1.13e4

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001198DUP Date: 04/25/96 Time: 00:33:37

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .63 ug/minute C

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	2.10	80.95
3	1.50	12.50	83.20
4	2.00	32.20	61.18
5	2.50	54.50	40.92
6	3.00	75.10	27.43
7	3.50	91.20	17.65
8	4.00	101.20	9.88
9	4.50	107.80	6.12
10	5.00	112.10	3.84
11	5.50	115.30	2.78
12	6.00	117.90	2.21
13	6.50	120.10	1.83
14	7.00	122.10	1.64
15	7.50	123.60	1.21
16	8.00	124.80	0.96
17	8.50	126.20	1.11
18	9.00	127.20	0.79
19	9.50	128.30	0.86
20	10.00	129.00	0.54
21	10.50	129.90	0.69
22	11.00	130.60	0.54

USER INPUT BLANK VALUE
BLANK VALUE = 6.929923 micrograms carbon
BLANK FACTOR = 6.929923 / 10.99988 = +6.3E-01 ug/min Carbon

SAMPLE RESULTS:
(130.6 - 6.930944)(1)/(1) = +1.237E+02 g/L Carbon
(130.6 - 6.930944)(1)/(1)(12) = +1.031E+01 Molar Carbon

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

.3285g

473

130.6 - 6.9 = 1.24e2 / .3285 = 3.77e2

WHC-SD-WM-DP-146, REV. 1

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T001198DUP Date: 04/25/96 Time: 01:58:49

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 3.45 ug/minute C

Analyst : PJ MCCOWN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	2.50	72.00
3	1.50	22.40	88.84
4	2.00	92.70	75.84
5	2.50	186.80	50.37
6	3.00	258.40	27.71
7	3.50	302.30	14.52
8	4.00	331.10	8.70
9	4.50	351.70	5.86
10	5.00	368.40	4.53
11	5.50	380.90	3.28
12	6.00	390.80	2.53
13	6.50	398.70	1.98
14	7.00	405.40	1.65
15	7.50	411.30	1.43
16	8.00	416.30	1.20
17	8.50	421.40	1.21
18	9.00	425.40	0.94
19	9.50	428.40	0.70
20	10.00	431.30	0.67
21	10.50	433.80	0.58
22	11.00	435.80	0.46

USER INPUT BLANK VALUE
BLANK VALUE = 37.94958 micrograms carbon
BLANK FACTOR = 37.94958 / 10.99988 = +3.5E+00 ug/min Carbon

SAMPLE RESULTS:
(435.8 - 37.94886)(1)/(1) = +3.979E+02 g/L Carbon
(435.8 - 37.94886)(1)/(1)(12) = +3.315E+01 Molar Carbon
<<<< WARNING - BLANK VALUE EXCEEDS 1.5 ug/min Carbon!!!!!>>>>

Sample Run By: PJ McCown 4/24/96
PJ MCCOWN 00000

.3285g 474

435.8-37.9 = 3.98e2/.3285 = 1.21e4

LABCORE Data Entry Template for Worklist# 10809

Analyst: JDS **Instrument:** CARB2 **Book#** 22 N 12 C TIC
24 N 12 B TOC

Method: LA-342-100 Rev/Mod D-0

Worklist Comment: B-106 TICTOC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	BLNK				@TICTOC1	SOLID		
2	STD				@TICTOC1	SOLID		
3	SAMPLE	S96T003624	0		@TICTOC1	SOLID	95000096	B-106
		Analytes Requested: TIC-02 , TOC-02						
4	DUP	S96T003624	0		@TICTOC1	SOLID		
5	TRIPL	S96T003624	0		@TICTOC1	SOLID		
6	SPK	S96T003624	0		@TICTOC1	SOLID		

Final page for worklist # 10809

Analyst Signature **Date** **Analyst Signature** **Date**

Data Entry Comments:

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code.

LABCORE Completed Worklist Report for Worklist# 10809

Analyst: jds **Instrument:** CARB2 **Book#** 22N12C TIC 24N12B TOC

Method: LA-342-100 Rev/Mod D-0

Worklist Comment: B-106 TICTOC. RCJ

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	BLNK			0	@TICTOC1 TIC-02	SOLID	1	6.00E-1	0.600	ug/g
1	BLNK			0	@TICTOC1 TOC-02	SOLID	1	1.68E+1	16.800	ug/g
2	STD			0	@TICTOC1 TIC-02	SOLID	6.02E+02	6.09E+2	101.163	% Recovery
2	STD			0	@TICTOC1 TOC-02	SOLID	3.00E+03	2.86E+3	95.333	% Recovery
3	SAMPLE	S96T003624		0	@TICTOC1 TIC-02	SOLID	N/A	4.03E+02	5.000	ug/g
3	SAMPLE	S96T003624		0	@TICTOC1 TOC-02	SOLID	N/A	4.52E+02	40.000	ug/g
4	DUP	S96T003624		0	@TICTOC1 TIC-02	SOLID	4.03E+2	2.98E+2	29.957	RPD
4	DUP	S96T003624		0	@TICTOC1 TOC-02	SOLID	4.52E+2	2.75E+2	48.693	RPD
5	TRIPL	S96T003624		0	@TICTOC1 TIC-02	SOLID	4.03E+2	4.13E+2	2.451	RPD
5	TRIPL	S96T003624		0	@TICTOC1 TOC-02	SOLID	4.52E+2	2.93E+2	42.685	RPD
6	SPK	S96T003624		0	@TICTOC1 TIC-02	SOLID	1.00E+02	8.94E+01	89.400	% Recovery
6	SPK	S96T003624		0	@TICTOC1 TOC-02	SOLID	1.00E+02	6.43E+01	64.300	% Recovery

Final page for worklist# 10809

7-17-96
Analyst Signature **Date**

see attached
Analyst Signature **Date**

validated into Labcore, 07/22/96
Reviewer Signature **Date**

Units shown for QC (BLK/BKG) may not reflect the actual units.

LABCORE Data Entry Template for Worklist# 10809

Analyst: JdS **Instrument:** CARB2 **Book#** 22N12C TIC 24N12B TOC

Method: LA-342-100 Rev/Mod D-0

Worklist Comment: B-106 TICTOC. RCJ

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	BLNK				@TICTOC1	SOLID		
2	STD				@TICTOC1	SOLID		
3	SAMPLE	S96T003624	0		@TICTOC1	SOLID	95000096	B-106
		Analytes Requested: TIC-02 , TOC-02						
4	DUP	S96T003624	0		@TICTOC1	SOLID		
5	SPK	S96T003624	0		@TICTOC1	SOLID		

Final page for worklist # 10809

JdS 7-16-96

Analyst Signature **Date**

Analyst Signature **Date**

Data Entry Comments:

Carb #1 Rob, This machine was running really weird I think there is a leak but I couldn't find it.

S = Worklist Slot Number, R = Replicate Number, A = Aliquot Code

477

WORKBOOK PAGE: BLANK1

WHC-SD-WM-DP-140, REV. 1

TIC/TOC : LA-342-100 (D-0) SOLIDS

			TIC	TOC
	Sample Size in g	(SS)	0.0000	0.0000
BLNK	Dilution Factor	(DF)	1	1
	µg of Carbon in Sample	(C1)	9.4	32.3
10809	µg of Carbon from Baseline	(C2)	8.8	15.5

@TICTOC1

SOLID

96007110

µg of Carbon = |C1-C2|

0

N/A

BLNK

CARB2#1

RTS

RWS

JDS

07/16/96

07/15/96

		TIC	TOC
	Method Detection Limit in ug/g	5	40
	µg of Carbon	6.00E-01	1.68E+01

B-106

Data Entered By:	RTS	Date:	07/16/96
Signature of Chemist:	John McClusky	Date:	07/22/96

BLANK.WB1 REV 1.0 342100ML

I:\342100\OUT\10809.WB1 07/16/96 13:42:40

WORKBOOK PAGE: STD2

WHC-SD-WM-DP-140, REV. 1

TIC/TOC : LA-342-100 (D-0) LIQUIDS

			TIC	TOC
	Sample Size in mL	(SS)	1.0000	0.2000
STD	Dilution Factor	(DF)	1	1
	Final Coulometer Reading in µg	(C1)	617.3	586.9
10809	µg of Carbon from Baseline	(C2)	8.8	15.5
	Standard Book Number		22N12C	24N12B
@TICTOC1	Standard Value (µg/ml)		602	3001

LIQUID

96007110

0

N/A

STD

CARB2#1

RTS

RWS

JDS

07/16/96

07/15/96

QC Actual in µg/mL = Standard Value (µg/mL)

QC Found in µg/mL = (C1 - C2) * DF / SS

QC Found in µg/mL for TIC = 5 if C1 < C2

QC Found in µg/mL for TOC = 40 if C1 < C2

% Recovery = QC Found / QC Actual * 100

	TIC	TOC
Method Detection Limit in µg/mL	5	40
QC Actual in µg/mL	6.02E+02	3.00E+03
QC Found in µg/mL	6.09E+02	2.86E+03
B-106 Percent Standard Recovery	101.1	95.2

Data Entered By:	RTS	Date:	07/16/96
Signature of Chemist:	John McCharkey	Date:	07/22/96

STANDARD.WB1 REV 1.0 342100ML

I:\342100\OUT\10809.WB1 07/16/96 13:42:47

WHC-SD-WM-DP-140, REV. 1

WORKBOOK PAGE: SAM3

TIC/TOC : LA-342-100 (D-0) SOLIDS

			TIC	TOC
SAMPLE	Sample Size in g	(SS)	0.1373	0.1373
	Dilution Factor	(DF)	1	1
10809	µg of Carbon in Sample	(C1)	64.1	77.5
	µg of Carbon from Baseline	(C2)	8.8	15.5
@TICTOC1				

SOLID

96007110

0

N/A

S96T003624

CARB2#1

RTS

RWS

JDS

07/16/96

07/15/96

µg of Carbon/g = (C1-C2) * DF / SS
µg of Carbon/g for TIC = 5 if C1 < C2
µg of Carbon/g for TOC = 40 if C1 < C2

	TIC	TOC
Method Detection Limit in ug/g	5	40
µg of Carbon/g	4.03E+02	4.52E+02

B-106

Data Entered By:	RTS	Date:	07/16/96
Signature of Chemist:	John McCluskey	Date:	07/22/96

SAMPLE.WB1 REV 1.0 342100ML

I:\342100\OUT\10809.WB1 07/16/96 13:42:54

WORKBOOK PAGE: DUP4

TIC/TOC : LA-342-100 (D-0) SOLIDS

			TIC	TOC
	Sample Size in g	(SS)	0.3251	0.3251
DUP	Dilution Factor	(DF)	1	1
	µg of Carbon in Sample	(C1)	105.7	104.9
10809	µg of Carbon from Baseline	(C2)	8.8	15.5
	Known µg of C from Original Sample		4.03E+2	4.52E+2
@TICTOC1				

SOLID

96007110

0

N/A

S96T003624

CARB2#1

RTS

RWS

JDS

07/16/96

07/15/96

µg of Carbon/g = (C1-C2) * DF / SS
µg of Carbon/g for TIC = 5 if C1 < C2
µg of Carbon/g for TOC = 40 if C1 < C2

	TIC	TOC
Method Detection Limit in ug/g	5	40
µg of Carbon/g	2.98E+02	2.75E+02

B-106

Data Entered By:	RTS	Date:	07/16/96
Signature of Chemist:	John McCluskey	Date:	07/22/96

SAMPLE.WB1 REV 1.0 342100M

0.4289

TIC/TOC : LA-342-100 (D-0) SOLIDS

			TIC	TOC
	Sample Size in g	(SS)	0.3305	0.3305
TRIPL	Dilution Factor	(DF)	1	1
	µg of Carbon in Sample	(C1)	145.3	112.4
10809	µg of Carbon from Baseline	(C2)	8.8	15.5
	Known µg of C from Original Sample		4.03E+2	4.52E+2
@TICTOC1	Duplicate Result		2.98E+2	2.75E+2

SOLID

96007110

0

N/A

S96T003624

CARB2#1

RTS

RWS

JDS

07/16/96

07/15/96

µg of Carbon/g = (C1-C2) * DF / SS
µg of Carbon/g for TIC = 5 if C1 < C2
µg of Carbon/g for TOC = 40 if C1 < C2

	TIC	TOC
Method Detection Limit in ug/g	5	40
µg of Carbon/g	4.13E+02	2.93E+02

B-106

Data Entered By:	RTS	Date:	07/16/96
Signature of Chemist:	John McCleskey	Date:	07/22/96

SAMPLE.WB1 REV 1.0 342100ML

WORKBOOK PAGE: SPIKE6 WHC-SD-WM-DP-140, REV. 1

TIC/TOC : LA-342-100 (D-0) SOLIDS

	Sample Vial Data		TIC	TOC
SPK	Sample Size in g	(SS)	0.1373	0.1373
	Final Coulometer Reading in µg	(C1)	64.1	77.5
10809	**Spiked Vial Data**			
	Sample Size in g	(SPK SS)	0.4289	0.4289
@TICTOC1	Amount of Spike Std. in mL	(SPK VOL)	0.500	0.100
	Final Coulometer Reading in µg	(C3)	448.2	348.7
SOLID	Spike Book Number		22N12C	24N12B
	Spike Standard Value in µg/ml		602	3001
96007110	Spike Concentration in µg	(SPK CONC)	301	300.1

0

Spike Concentration in µg = (Spike Std. Value in µg/mL)*(SPK VOL)

N/A

Percent Spike Recovery = (C3) / [(C1/SS * SPK SS) + (SPK CONC)] * 100

S96T003624

QC Actual in µg/mL = Spike Value (µg/mL)

CARB2#1 **QC Found in µg/mL = (Percent Spike Recovery)*(QC Actual) / 100**

RTS

Chemist

RWS

Analyst

JDS

07/16/96

07/15/96

		TIC	TOC
	QC Actual in µg/mL	6.02E+02	3.00E+03
Sample Point	QC Found in µg/mL	5.38E+02	1.93E+03
B-106	Percent Spike Recovery	89.4	64.3

Data Entered By:	RTS	Date:	07/16/96
Signature of Chemist:	John McCluskey	Date:	07/22/96

SPIKE.WB1 REV 1.0 342100ML

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASELINE Date: 07/15/96 **Time: 21:00:43**

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASELINE
Blank Value = N/A

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	0.90	44.44
3	1.51	1.40	35.71
4	2.01	1.90	26.32
5	2.50	2.60	26.92
6	3.00	3.00	13.33
7	3.50	3.50	14.29
8	4.00	4.00	12.50
9	4.50	4.30	6.98
10	5.00	4.50	4.44
11	5.50	5.10	11.76
12	6.00	5.40	5.56
13	6.50	5.90	8.47
14	7.00	6.30	6.35
15	7.50	6.70	5.97
16	8.00	7.10	5.63
17	8.50	7.20	1.39
18	9.00	7.70	6.49
19	9.50	7.90	2.53
20	10.00	8.10	2.47
21	10.50	8.40	3.57
22	11.00	8.80	4.55

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 484 TO 497.

BLANK VALUE = 8.8 micrograms carbon
BLANK FACTOR = 8.8 / 10.99976 = +8.0E-01 ug/min Carbon

Sample Run By: _____
JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0
<<< BLANK ANALYSIS >>>

Sample: BASELINE Date: 07/15/96 **Time: 23:16:07**

Sample Size = 1 uL
Dil Factor = 1
Blank ID # = BASELINE
Blank Value = N/A

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.20	0.00
2	1.01	0.50	60.00
3	1.51	0.50	0.00
4	2.00	1.10	54.55
5	2.50	1.90	42.11
6	3.00	3.90	51.28
7	3.50	6.40	39.06
8	4.00	7.60	15.79
9	4.50	8.80	13.64
10	5.00	10.30	14.56
11	5.50	10.80	4.63
12	6.00	11.90	9.24
13	6.50	12.20	2.46
14	7.00	12.70	3.94
15	7.50	13.10	3.05
16	8.00	13.60	3.68
17	8.50	14.20	4.23
18	9.00	14.80	4.05
19	9.50	14.80	0.00
20	10.00	15.00	1.33
21	10.50	15.20	1.32
22	11.00	15.50	1.94

BLANK VALUE = 15.5 micrograms carbon
BLANK FACTOR = 15.5 / 10.99805 = +1.41E+00 ug/min Carbon

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLK Date: 07/16/96 **Time: 01:16:47**

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = .8 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.50	0.00
2	1.01	1.50	66.67
3	1.50	2.80	46.43
4	%-1438.00	3.10	15.15
5	%-1437.50	3.90	15.38
6	%-1437.00	4.50	9.30
7	%-1436.50	4.80	10.42
8	%-1436.00	5.10	5.88
9	%-1435.50	5.50	7.27
10	%-1435.00	5.90	6.78
11	%-1434.50	6.10	3.28
12	%-1434.00	6.50	6.15
13	%-1433.50	6.70	2.99
14	%-1433.00	7.10	5.63
15	%-1432.50	7.30	2.74
16	%-1432.00	7.70	5.19
17	%-1431.50	7.90	2.53
18	%-1431.00	8.30	4.82
19	%-1430.50	8.60	3.49
20	%-1430.00	8.90	3.37
21	%-1429.50	9.20	3.26
22	%-1429.00	9.40	2.13

USER INPUT BLANK VALUE
BLANK VALUE = 8.798438 micrograms carbon
BLANK FACTOR = 8.798438 / 10.99805 = +8.0E-01 ug/min Carbon

SAMPLE RESULTS:
(9.4 --1143.2)(1)/(1) = +1.2E+03 g/L Carbon
(9.4 --1143.2)(1)/(1)(12) = +9.6E+01 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: BLK Date: 07/16/96 Time: 01:37:07

Sample Size = 1 uL
Dil Factor = 1
Blank ID # =
Blank Value = 1.41 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.40	0.00
2	1.01	4.40	90.91
3	1.50	14.60	69.86
4	2.00	20.30	28.08
5	2.50	23.50	13.62
6	3.00	25.10	6.37
7	3.50	25.70	2.33
8	4.00	26.30	2.28
9	4.50	26.30	0.00
10	5.00	27.00	2.59
11	5.50	27.00	0.00
12	6.00	27.80	2.88
13	6.50	28.60	2.80
14	7.00	29.20	2.05
15	7.50	29.90	2.34
16	8.00	30.40	1.64
17	8.50	30.70	0.98
18	9.00	31.10	1.29
19	9.50	31.50	1.27
20	10.00	31.70	0.63
21	10.50	32.00	0.94
22	11.00	32.30	0.93

USER INPUT BLANK VALUE
BLANK VALUE = 15.50725 micrograms carbon
BLANK FACTOR = 15.50725 / 10.99805 = +1.4E+00 ug/min Carbon

SAMPLE RESULTS:
(32.3 - 15.50835)(1)/(1) = +1.68E+01 g/L Carbon
(32.3 - 15.50835)(1)/(1)(12) = +1.40E+00 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 22N12C Date: 07/15/96 Time: 23:33:47

Sample Size = 1 ~~µL~~ mL 07/17/96 JMM
Dil Factor = 1
Blank ID # =
Blank Value = .8 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.00	0.00
2	1.01	43.90	97.72
3	1.50	210.60	79.17
4	2.00	373.20	43.52
5	2.50	489.30	23.73
6	3.00	560.50	12.70
7	3.50	592.80	5.45
8	4.00	604.30	1.90
9	4.50	608.60	0.71
10	5.00	610.20	0.26
11	5.50	610.90	0.11
12	6.00	611.60	0.11
13	6.50	612.20	0.10
14	7.00	613.00	0.13
15	7.50	613.50	0.08
16	8.00	614.50	0.16
17	8.50	615.00	0.08
18	9.00	615.60	0.10
19	9.50	616.10	0.08
20	10.00	616.70	0.10
21	10.50	617.10	0.06
22	11.00	617.30	0.03

USER INPUT BLANK VALUE
BLANK VALUE = 8.798438 micrograms carbon
BLANK FACTOR = 8.798438 / 10.99805 = +8.0E-01 ug/min Carbon

SAMPLE RESULTS:
(617.3 - 8.799903)(1)/(1) = +6.085E+02 g/L Carbon
(617.3 - 8.799903)(1)/(1)(12) = +5.071E+01 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: 24N12B Date: 07/15/96 Time: 23:55:24

Sample Size = ~~1 ul~~ 0.200 mL 07/17/96 JMM
Dil Factor = 1
Blank ID # =
Blank Value = 1.41 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	4.80	0.00
2	1.01	14.40	66.67
3	1.50	42.30	65.96
4	2.00	131.90	67.93
5	2.50	328.40	59.84
6	3.00	506.60	35.18
7	3.50	561.20	9.73
8	4.00	565.20	0.71
9	4.50	568.50	0.58
10	5.00	571.30	0.49
11	5.50	573.20	0.33
12	6.00	578.20	0.86
13	6.50	582.10	0.67
14	7.00	584.50	0.41
15	7.50	584.50	0.00
16	8.00	584.80	0.05
17	8.50	585.10	0.05
18	9.00	585.50	0.07
19	9.50	585.90	0.07
20	10.00	586.30	0.07
21	10.50	586.60	0.05
22	11.00	586.90	0.05

USER INPUT BLANK VALUE
BLANK VALUE = 15.50725 micrograms carbon
BLANK FACTOR = 15.50725 / 10.99805 = +1.4E+00 ug/min Carbon

SAMPLE RESULTS:
(586.9 - 15.50828)(1)/(1) = +5.714E+02 g/L Carbon
(586.9 - 15.50828)(1)/(1)(12) = +4.762E+01 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

Jul. 16. 1996 4:55AM WHC 2225 LAB No. 2995 P. 7/17

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T003624 Date: 07/16/96 Time: 02:01:37

Sample Size = ~~1 uL~~ 07/17/96 JMM 0.1373 g
Dil Factor = 1
Blank ID # =
Blank Value = .8 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	0.70	0.00
2	1.01	4.10	82.93
3	1.51	9.50	56.84
4	2.01	20.90	54.55
5	2.51	30.90	32.36
6	3.01	38.50	19.74
7	3.51	42.40	9.20
8	4.01	44.30	4.29
9	4.51	45.40	2.42
10	5.01	45.90	1.09
11	5.51	47.00	2.34
12	6.01	48.40	2.89
13	6.51	50.[illegible]	3.39
14	7.00	51.80	3.28
15	7.50	53.40	3.00
16	8.00	55.20	3.09
17	8.50	56.60	2.65
18	9.00	58.00	2.41
19	9.50	59.80	3.01
20	10.00	61.30	2.45
21	10.50	62.80	2.39
22	11.00	64.10	2.03

USER INPUT BLANK VALUE
BLANK VALUE = 8.798438 micrograms carbon
BLANK FACTOR = 8.798438 / 10.99805 = +8.0E-01 ug/min Carbon

SAMPLE RESULTS:
(64.1 - 8.801996)(1)/(1) = +5.53E+01 g/L Carbon
(64.1 - 8.801996)(1)/(1)(12) = +4.61E+00 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T003624 **Date:** 07/16/96 **Time:** 02:20:59

Sample Size = ~~1 uL~~ 0.1373g 07/17/96 JMM
Dil Factor = 1
Blank ID # =
Blank Value = 1.41 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	1.[illegible]	0.00
2	1.01	8.[illegible]	85.39
3	1.51	34.[illegible]	73.82
4	2.00	51.[illegible]	33.59
5	2.50	58.10	11.88
6	3.00	61.10	4.91
7	3.50	63.60	3.93
8	4.00	65.40	2.75
9	4.50	67.10	2.53
10	5.00	68.30	1.76
11	5.50	69.50	1.73
12	6.00	70.50	1.42
13	6.50	71.30	1.12
14	7.00	72.[illegible]	1.38
15	7.50	72.80	0.69
16	8.00	73.60	1.09
17	8.50	74.40	1.08
18	9.00	74.80	0.53
19	9.50	75.70	1.19
20	10.00	76.10	0.53
21	10.50	77.20	1.30
22	11.00	77.50	0.52

USER INPUT BLANK VALUE
BLANK VALUE = 15.50725 micrograms carbon
BLANK FACTOR = 15.50725 / 10.99805 = +1.4E+00 ug/min Carbon

SAMPLE RESULTS:
(77.5 - 15.50976)(1)/(1) = +6.20E+01 g/L Carbon
(77.5 - 15.50976)(1)/(1)(12) = +5.17E+00 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T003624DUP Date: 07/16/96 Time: 02:36:43

Sample Size = ~~1 uL~~ 07/17/96 0.3251 g JMM
Dil Factor = 1
Blank ID # =
Blank Value = .8 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.20	0.00
2	1.01	5.70	61.40
3	1.[illegible]	17.60	67.61
4	2.00	37.40	52.94
5	2.50	58.80	36.39
6	3.00	72.50	18.90
7	3.50	81.60	11.15
8	4.00	87.40	6.64
9	4.50	91.20	4.17
10	5.00	93.50	2.46
11	5.50	95.90	2.50
12	6.00	97.50	1.64
13	6.50	99.10	1.61
14	7.00	99.70	0.60
15	7.50	100.70	0.99
16	8.00	101.80	1.08
17	8.50	102.70	0.88
18	9.00	103.10	0.39
19	9.50	103.90	0.77
20	10.00	104.50	0.57
21	10.50	105.20	0.67
22	11.00	105.70	0.47

USER INPUT BLANK VALUE
BLANK VALUE = 8.798438 micrograms carbon
BLANK FACTOR = 8.798438 / 10.99805 = +8.0E-01 ug/min Carbon

SAMPLE RESULTS:
(105.7 - 8.799878)(1)/(1) = +9.690E+01 g/L Carbon
(105.7 - 8.799878)(1)/(1)(12) = +8.075E+00 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T003624DUP Date: 07/16/96 Time: 02:54:56

Sample Size = ~~1 ul~~ 0.3251 g Analyst : JD SPELLMAN
Dil Factor = 1 Min Readings = 22
Blank ID # = Max Readings = 22
Blank Value = 1.41 ug/minute C % Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	3.80	0.00
2	1.01	20.70	81.64
3	1.51	49.60	58.27
4	2.01	64.00	22.50
5	2.50	70.50	9.22
6	3.00	75.40	6.50
7	3.50	79.20	4.80
8	4.00	84.40	6.16
9	4.50	87.70	3.76
10	5.00	89.60	2.12
11	5.50	91.70	2.29
12	6.00	93.30	1.71
13	6.50	94.90	1.27
14	7.00	96.20	1.87
15	7.50	97.10	0.93
16	8.00	98.90	1.72
17	8.50	99.60	0.70
18	9.00	100.40	0.80
19	9.50	101.40	0.99
20	10.00	102.60	1.17
21	10.50	103.90	1.25
22	11.00	104.90	0.95

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 = +1.4E+00 ug/min Carbon

SAMPLE RESULTS:
(104.9 - 15.51095)(1)/(1) = +8.939E+01 g/L Carbon
(104.9 - 15.51095)(1)/(1)(12) = +7.449E+00 Molar Carbon

Sample Run By: _____
JD SPELLMAN 00000

WHC-SD-WM-DP-140, REV. 1

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T003624TRP Date: 07/16/96 **Time:** 04:08:16

Sample Size = ~~1 uL~~ 0.3305 g
Dil Factor = 1
Blank ID # =
Blank Value = .8 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	2.10	0.00
2	1.01	24.90	91.57
3	1.51	63.00	60.48
4	2.01	96.50	34.72
5	2.51	114.30	15.57
6	3.01	123.40	7.37
7	3.51	127.60	3.29
8	4.01	129.80	1.69
9	4.50	131.80	1.52
10	5.00	133.60	1.35
11	5.50	135.10	1.11
12	6.00	136.00	0.66
13	6.50	137.30	0.95
14	7.00	138.20	0.65
15	7.50	139.00	0.58
16	8.00	140.00	0.71
17	8.50	140.60	0.43
18	9.00	141.60	0.71
19	9.50	142.60	0.70
20	10.00	143.60	0.70
21	10.50	144.30	0.49
22	11.00	145.30	0.69

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 = +8.0E-01 ug/min Carbon

SAMPLE RESULTS:
(145.3 - 8.802014)(1)/(1) = +1.365E+02 g/L Carbon
(145.3 - 8.802014)(1)/(1)(12) = +1.137E+01 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T003624 Date: 07/16/96 Time: 04:21:43

Sample Size = ~~1 ul~~ 0.3305g 07/22/96 JMM
Dil Factor = 1
Blank ID # =
Blank Value = 1.41 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	17.60	0.00
2	1.01	57.60	69.44
3	1.50	65.20	11.66
4	2.00	74.20	12.13
5	2.50	88.10	15.78
6	3.00	93.50	5.78
7	3.50	96.40	3.01
8	4.00	98.40	2.03
9	4.50	99.80	1.40
10	5.00	101.20	1.38
11	5.50	102.50	1.27
12	6.00	103.50	0.97
13	6.50	104.80	1.24
14	7.00	105.50	0.66
15	7.50	106.40	0.85
16	8.00	107.60	1.12
17	8.50	108.50	0.83
18	9.00	109.30	0.73
19	9.50	110.20	0.82
20	10.00	110.70	0.45
21	10.50	111.70	0.90
22	11.00	112.40	0.62

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 = +1.4E+00 ug/min Carbon

SAMPLE RESULTS:
(112.4 - 15.51095)(1)/(1) = +9.689E+01 g/L Carbon
(112.4 - 15.51095)(1)/(1)(12) = +8.074E+00 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TIC- TOTAL INORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T003624SPK **Date:** 07/16/96 **Time:** 04:33:48

Sample Size = ~~1 uL~~ 07/22/96 0.4289 g JWM
Dil Factor = 1
Blank ID # =
Blank Value = .8 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	18.80	0.00
2	1.01	129.40	85.47
3	1.50	243.90	46.95
4	2.00	335.70	27.35
5	2.50	385.90	13.01
6	3.00	413.00	6.56
7	3.50	423.90	2.57
8	4.00	429.40	1.28
9	4.50	432.70	0.76
10	5.00	435.20	0.57
11	5.50	436.90	0.39
12	6.00	438.10	0.27
13	6.50	439.60	0.34
14	7.00	440.60	0.23
15	7.50	441.40	0.27
16	8.00	442.00	0.23
17	8.50	444.00	0.27
18	9.00	444.60	0.13
19	9.50	445.80	0.27
20	10.00	446.50	0.11
21	10.50	447.20	0.20
22	11.00	448.20	0.22

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 +8.0E-01 ug/min Carbon

SAMPLE RESULTS:
(448.2 - 8.799878)(1)/(1) = +4.394E+02 g/L Carbon
(448.2 - 8.799878)(1)/(1)(12) = +3.662E+01 Molar Carbon

Sample Run By: JD SPELLMAN 00000

TOC- TOTAL ORGANIC CARBON ANALYSIS REPORT
TICTOC REV 2.0

Sample: S96T003624SPK Date: 07/16/96 Time: 04:46:40

Sample Size = ~~1 ul~~ 07/22/96 0.4289 g JMM
Dil Factor = 1
Blank ID # =
Blank Value = 1.41 ug/minute C

Analyst : JD SPELLMAN
Min Readings = 22
Max Readings = 22
% Difference = 10

== Reading	==== Analysis Time	==== Coulometer	==== % Difference ==
1	0.51	80.70	0.00
2	1.01	214.50	62.38
3	1.51	290.70	26.19
4	2.01	298.90	2.48
5	2.51	303.80	1.91
6	3.01	308.10	1.40
7	3.51	311.00	0.93
8	4.01	311.90	0.29
9	4.50	312.60	0.22
10	5.00	312.90	0.10
11	5.50	326.50	4.17
12	6.00	333.10	1.98
13	6.50	335.50	0.72
14	7.00	337.20	0.50
15	7.50	338.40	0.35
16	8.00	339.90	0.44
17	8.50	340.80	0.26
18	9.00	341.70	0.26
19	9.50	344.20	0.73
20	10.00	346.90	0.78
21	10.50	347.60	0.20
22	11.00	348.70	0.32

USER INPUT BLANK VALUE
BLANK VALUE = 0 micrograms carbon
BLANK FACTOR = 0 / 0 = +1.4E+00 ug/min Carbon

SAMPLE RESULTS:
(348.7 - 15.51211)(1)/(1) = +3.332E+02 g/L Carbon
(348.7 - 15.51211)(1)/(1)(12) = +2.777E+01 Molar Carbon

Sample Run By: JD SPELLMAN 00000