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

DOCUMENT NUMBER: SD-WM-DP-164

SECTION 4 **OF** 12

TITLE: Final Report for Tank 241BY104 Rotary Mode Cores 116 & 117 [Pgs 597 Thru 795]

DATE: 06/25/1996

ORIGINATOR: Benar CJ

CO: WHC

RECIPIENT:

CO:

REFERENCES: ECN-629043

LABCORE Completed Worklist Report for Worklist# 4688

Seq	Type	Sample#	R	A	Test		Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S95T003814	0	W	@IC-01	CL-02	SOLID	79	59.322	75.090	% Recovery
6	SPK	S95T003814	0	W	@IC-01	NO2-02	SOLID	543	505.647	93.120	% Recovery
6	SPK	S95T003814	0	W	@IC-01	BR-02	SOLID	575	495.000	86.090	% Recovery
6	SPK	S95T003814	0	W	@IC-01	NO3-02	SOLID	614	511.250	83.270	% Recovery
6	SPK	S95T003814	0	W	@IC-01	PO4-02	SOLID	546	473.495	86.720	% Recovery
6	SPK	S95T003814	0	W	@IC-01	SO4-02	SOLID	631	570.020	90.340	% Recovery
6	SPK	S95T003814	0	W	@IC-01	OXALATE2	SOLID	516	489.517	94.870	% Recovery
7	SAMPLE	S95T003798	0	W	@IC-01	F-02	SOLID	N/A	3.766e+03	101.300	ug/g
7	SAMPLE	S95T003798	0	W	@IC-01	CL-02	SOLID	N/A	2.759e+03	132.400	ug/g
7	SAMPLE	S95T003798	0	W	@IC-01	NO2-02	SOLID	N/A	4.718e+04	833.600	ug/g
7	SAMPLE	S95T003798	0	W	@IC-01	BR-02	SOLID	N/A <	9.816e+02	981.600	ug/g
7	SAMPLE	S95T003798	0	W	@IC-01	NO3-02	SOLID	N/A	2.265e+05	1.090e+003	ug/g
7	SAMPLE	S95T003798	0	W	@IC-01	PO4-02	SOLID	N/A	4.748e+03	934.100	ug/g
7	SAMPLE	S95T003798	0	W	@IC-01	SO4-02	SOLID	N/A	1.662e+04	1.059e+003	ug/g
7	SAMPLE	S95T003798	0	W	@IC-01	OXALATE2	SOLID	N/A	1.221e+04	818.000	ug/g
8	DUP	S95T003798	0	W	@IC-01	F-02	SOLID	3.77e+03	3.80e+03	0.790	RPD
8	DUP	S95T003798	0	W	@IC-01	CL-02	SOLID	2.76e+03	2.60e+03	5.970	RPD
8	DUP	S95T003798	0	W	@IC-01	NO2-02	SOLID	4.72e+04	4.45e+04	5.890	RPD
8	DUP	S95T003798	0	W	@IC-01	BR-02	SOLID	<9.82e2	<9.93e2		RPD
8	DUP	S95T003798	0	W	@IC-01	NO3-02	SOLID	2.26e+05	2.33e+05	3.050	RPD
8	DUP	S95T003798	0	W	@IC-01	PO4-02	SOLID	4.75e+03	6.31e+03	28.210	RPD
8	DUP	S95T003798	0	W	@IC-01	SO4-02	SOLID	1.66e+04	1.61e+04	3.060	RPD
8	DUP	S95T003798	0	W	@IC-01	OXALATE2	SOLID	1.22e+04	1.22e+04	0.000	RPD
9	SAMPLE	S95T003683	0	W	@IC-01	F-02	SOLID	N/A	6.040e+03	100.800	ug/g
9	SAMPLE	S95T003683	0	W	@IC-01	CL-02	SOLID	N/A	2.009e+03	131.900	ug/g
9	SAMPLE	S95T003683	0	W	@IC-01	NO2-02	SOLID	N/A	3.277e+04	829.900	ug/g
9	SAMPLE	S95T003683	0	W	@IC-01	BR-02	SOLID	N/A <	9.773e+02	977.300	ug/g
9	SAMPLE	S95T003683	0	W	@IC-01	NO3-02	SOLID	N/A	2.140e+05	1.085e+003	ug/g
9	SAMPLE	S95T003683	0	W	@IC-01	PO4-02	SOLID	N/A	5.532e+03	930.000	ug/g
9	SAMPLE	S95T003683	0	W	@IC-01	SO4-02	SOLID	N/A	2.459e+04	1.054e+003	ug/g
9	SAMPLE	S95T003683	0	W	@IC-01	OXALATE2	SOLID	N/A	1.778e+04	814.400	ug/g
10	DUP	S95T003683	0	W	@IC-01	F-02	SOLID	6.04e+03	6.05e+03	0.170	RPD
10	DUP	S95T003683	0	W	@IC-01	CL-02	SOLID	2.01e+03	2.41e+03	18.100	RPD
10	DUP	S95T003683	0	W	@IC-01	NO2-02	SOLID	3.28e+04	3.91e+04	17.520	RPD
10	DUP	S95T003683	0	W	@IC-01	BR-02	SOLID	<9.77e2	<9.87e2		RPD
10	DUP	S95T003683	0	W	@IC-01	NO3-02	SOLID	2.14e+05	2.37e+05	10.200	RPD
10	DUP	S95T003683	0	W	@IC-01	PO4-02	SOLID	5.53e+03	6.33e+03	13.490	RPD
10	DUP	S95T003683	0	W	@IC-01	SO4-02	SOLID	2.46e+04	2.78e+04	12.210	RPD
10	DUP	S95T003683	0	W	@IC-01	OXALATE2	SOLID	1.78e+04	2.01e+04	12.140	RPD

Final page for worklist# 4688

Analyst Signature Date

Analyst Signature Date

Reviewer Signature Date 3/27/96

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

LABCORE Data Entry Template for Worklist# 4688

Analyst: KRQ **Instrument:** IC01 **Book#** 12209-6

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

Worklist Comment: BY-104 FOR IC RTS

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S95T003814	0	W	@IC-01	SOLID	95000200	BY104 ROTARY
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
5	DUP	S95T003814	0	W	@IC-01	SOLID		
6	SPK	S95T003814	0	W	@IC-01	SOLID		
7	SAMPLE	S95T003798	0	W	@IC-01	SOLID	95000200	BY104 ROTARY
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
8	DUP	S95T003798	0	W	@IC-01	SOLID		
9	SAMPLE	S95T003683	0	W	@IC-01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
10	DUP	S95T003683	0	W	@IC-01	SOLID		

Final page for worklist # 4688

Analyst Signature **Date** 2/21/96 **Analyst Signature** **Date**

Export In Shell Uploaded 3/1/96

Data Entry Comments:

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

A-0010-IC DATA FILE/WORKLIST RESOLUTION 01-Mar-96

Worklist#: 4688

	Seq	Type	Sample #
=>	1	CCB	
=>	2	CCV	
=>	3	BLNK-PREP	
=>	4	SAMPLE	S95T003814
=>	5	DUP	S95T003814
=>	6	SPK	S95T003814
=>	7	SAMPLE	S95T003798
=>	8	DUP	S95T003798
=>	9	SAMPLE	S95T003683
=>	10	DUP	S95T003683

Data File: 4688FEB.CSV

Seq#	Data File	Sample Name		Dilution
1	96022121.d02	CCB		1.00
	96022121.d03	CCV 122N9-G		101.00
	96022121.d04	CCV 122N9-G		101.00
2	96022121.d05	CCV 122N9-G		101.00
3	96022121.d06	PREP BLANK		1.00
	96022121.d07	S95T003814		101.00
4	96022121.d08	S95T003814		41.00
5	96022121.d09	S95T003814	DUP	41.00
6	96022121.d10	S95T003814	SPIK	41.00
7	96022121.d12	S95T003798		41.00
8	96022121.d13	S95T003798	DUP	41.00
9	96022121.d14	S95T003683		41.00
10	96022121.d15	S95T003683	DUP	41.00

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

Sample Name: CCB
Data File : C:\DX\DATA\96022121.D02
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2
Analyst: 2-21-96
Column: AG4A/AS4A anion column

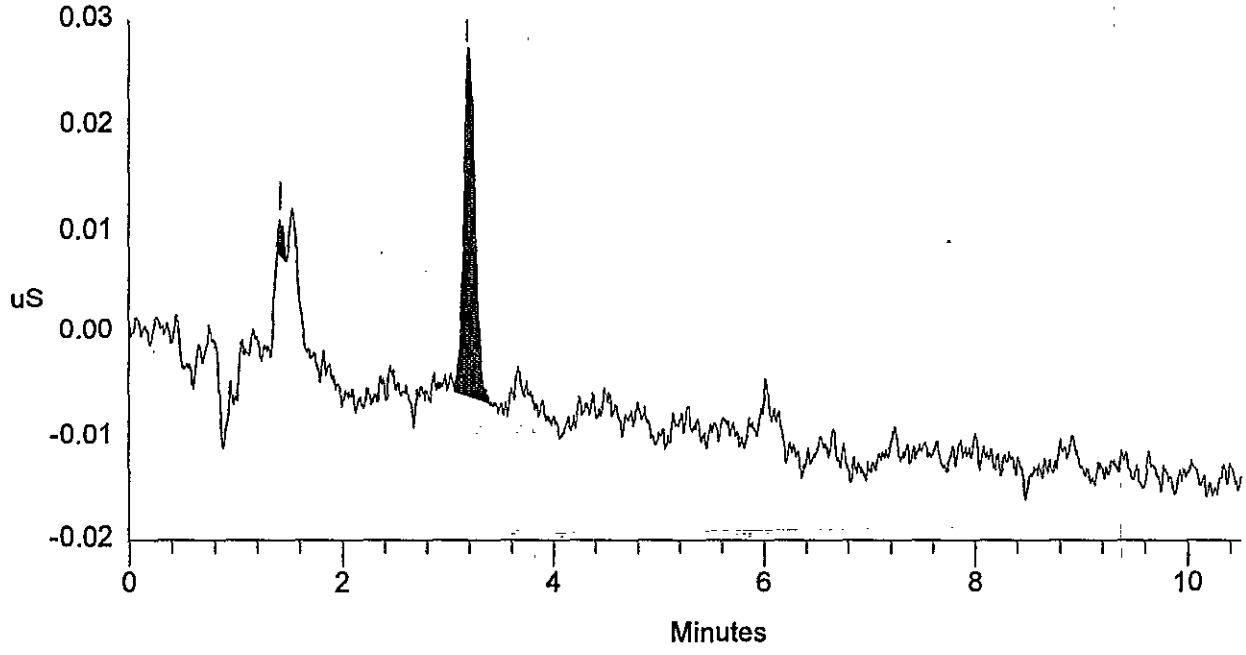
Date: 02/21/1996 11:26:23
WHC-SD-WM-DP-164, REV. 1
Detector: CDM-2

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50		20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	3.19	nitrate	0.252	33144	246154	1	1.38
		Totals	0.252	33144	246154		

File: 96022121.D02 Sample: CCB



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 600 TO 609.

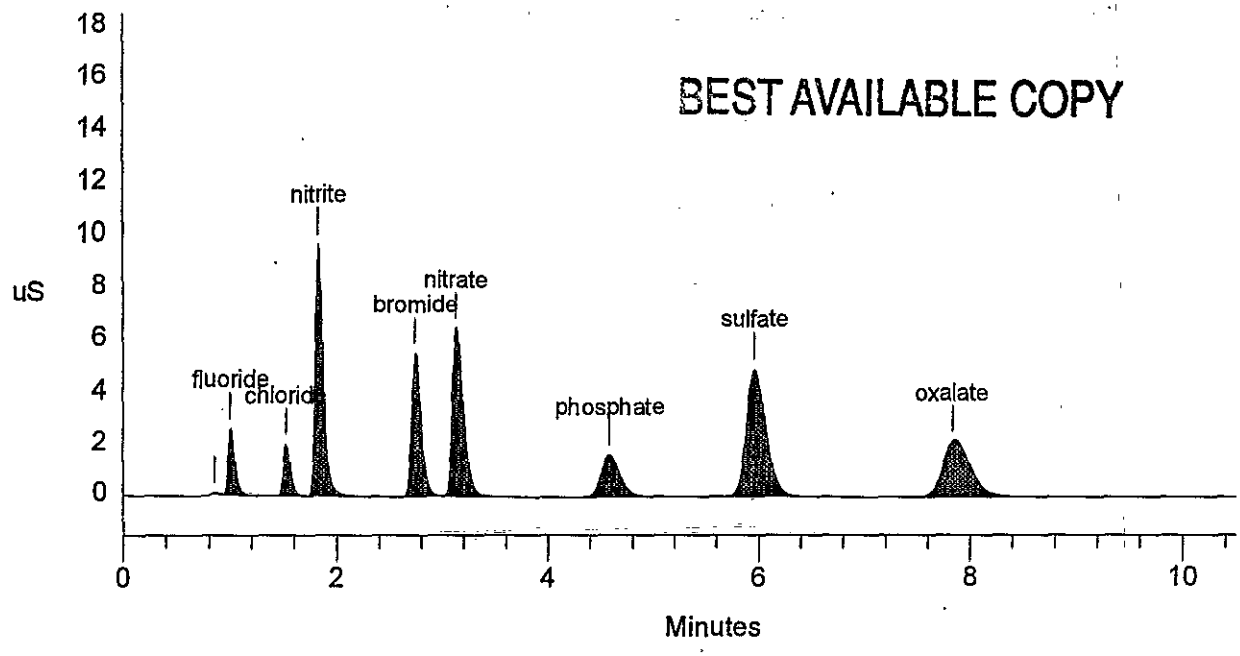
Sample Name: CCV 122N9-G	Date: 02/21/1996 12:20:18
Data File : C:\DX\DATA\96022121.D05	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 5	Detector:CDM-2
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	75706	318275	2	
2	1.01	fluoride	55.380	2596469	11676656	2	-0.33
3	1.53	chloride	73.468	2033503	9712760	1	-2.76
4	1.83	nitrite	540.122	9659814	51763786	1	-4.01
5	2.75	bromide	562.833	5491091	34953588	1	-2.60
6	3.13	nitrate	594.710	6458057	47783410	1	-0.53
7	4.59	phosphate	523.454	1632173	20768088	1	-2.20
8	5.97	sulfate	616.671	4930581	64875594	1	-3.50
9	7.84	oxalate	510.119	2156513	40144182	1	-3.33
		Totals	3476.757	35033906	281996340		

File: 96022121.D05 Sample: CCV 122N9-G



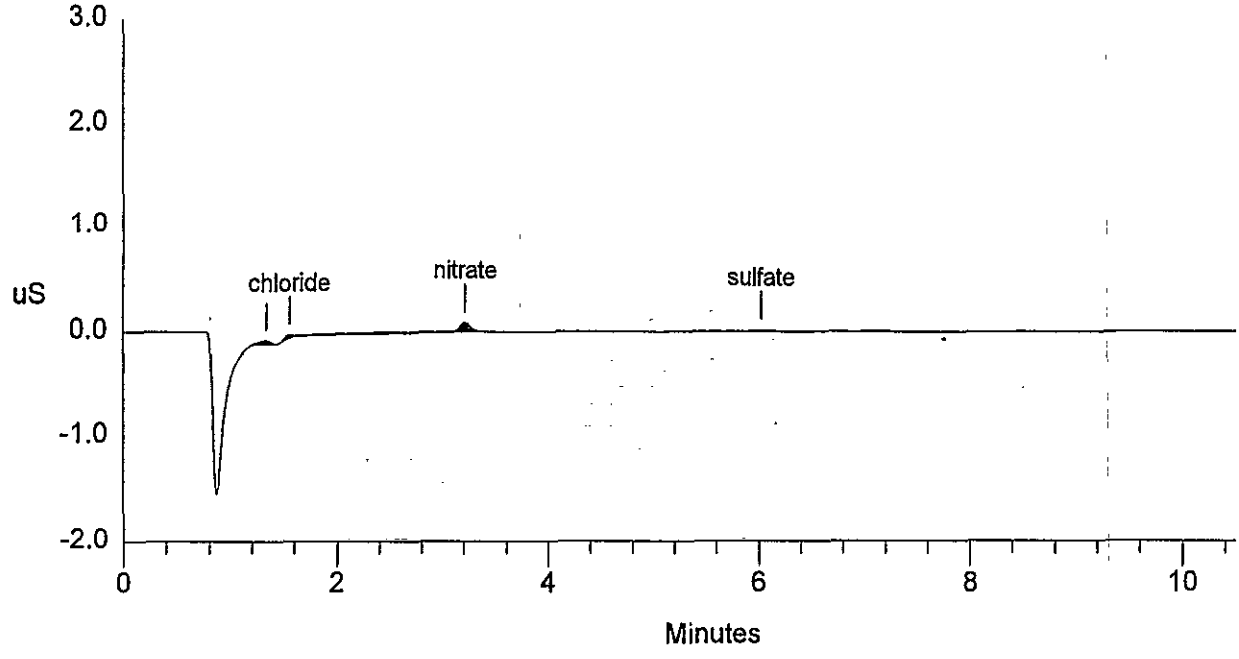
Sample Name: PREP BLANK Date: 02/21/1996 13:49:32
Data File : C:\DX\DATA\96022121.D06
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 6 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.35		0.000	38510	284604	1	
2	1.56	chloride	0.024	39247	187615	1	-0.64
3	3.21	nitrate	0.428	86015	1714250	1	2.01
4	6.03	sulfate	0.201	17880	278756	1	-2.64
		Totals	0.653	181652	2465225		

File: 96022121.D06 Sample: PREP BLANK



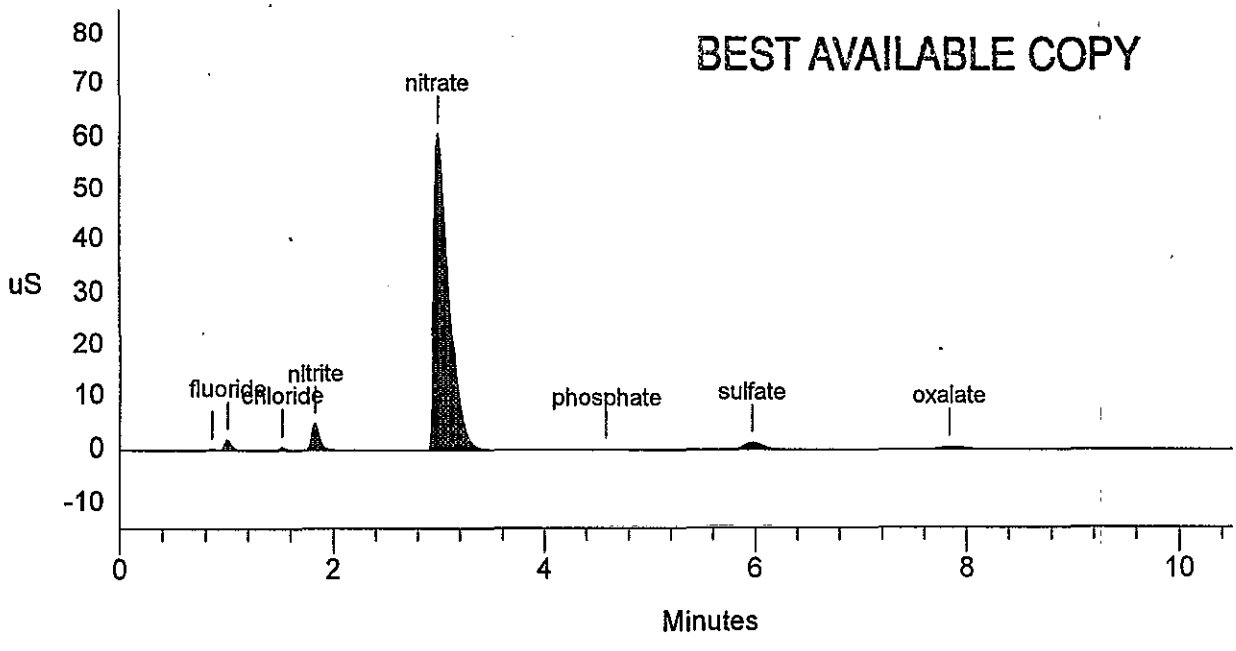
Sample Name: S95T003814 Date: 02/21/1996 14:21:17
Data File : C:\DX\DATA\96022121.D08 WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 8 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	173835	765100	2	
2	1.01	fluoride	18.280	1948874	9422389	2	-0.33
3	1.52	chloride	10.271	674167	3240084	1	-3.18
4	1.83	nitrite	113.741	4936526	26067788	1	-4.36
5	2.99	nitrate	2475.501	60762919	594137402	1	-4.97
6	4.59	phosphate	33.602	218100	2818912	1	-2.20
7	5.97	sulfate	76.992	1378035	18409558	1	-3.50
8	7.84	oxalate	55.193	568280	10499132	1	-3.33
		Totals	2783.580	70660737	665360365		

File: 96022121.D08 Sample: S95T003814



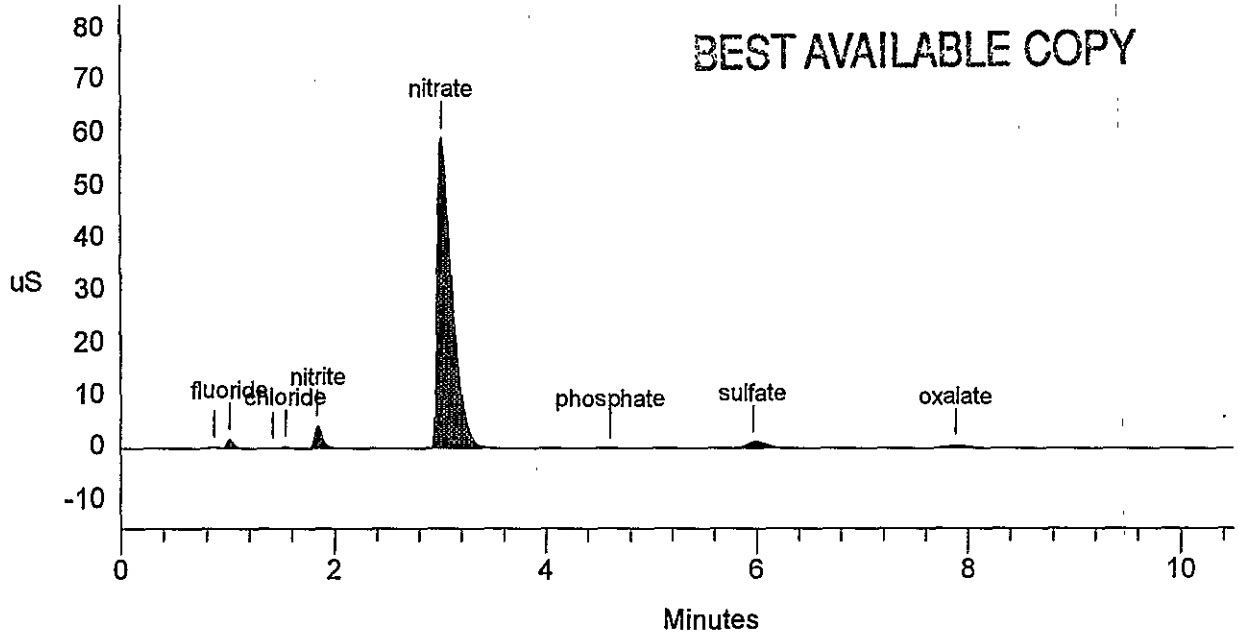
Sample Name: S95T003814 DUP Date: 02/21/1996 14:35:24
Data File : C:\DX\DATA\96022121.D09
Method : C:\DX\METHOD\KIT.MET
WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 9 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	181485	837601	2	
2	1.02	fluoride	15.271	1679365	7809474	2	0.99
3	1.43		0.000	15200	66252	1	
4	1.55	chloride	5.887	409318	1798274	1	-1.49
5	1.85	nitrite	101.110	4404231	22997754	1	-3.32
6	3.01	nitrate	2407.720	59042475	574228950	1	-4.34
7	4.61	phosphate	14.381	61744	918016	1	-1.63
8	5.97	sulfate	76.554	1272904	18293504	1	-3.50
9	7.89	oxalate	58.433	589291	11128294	1	-2.67
		Totals	2679.356	67656012	638078120		

File: 96022121.D09 Sample: S95T003814 DUP



Sample Name: S95T003814 SPIKE Date: 02/21/1996 14:48:07
Data File : C:\DX\DATA\96022121.D10
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 10 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

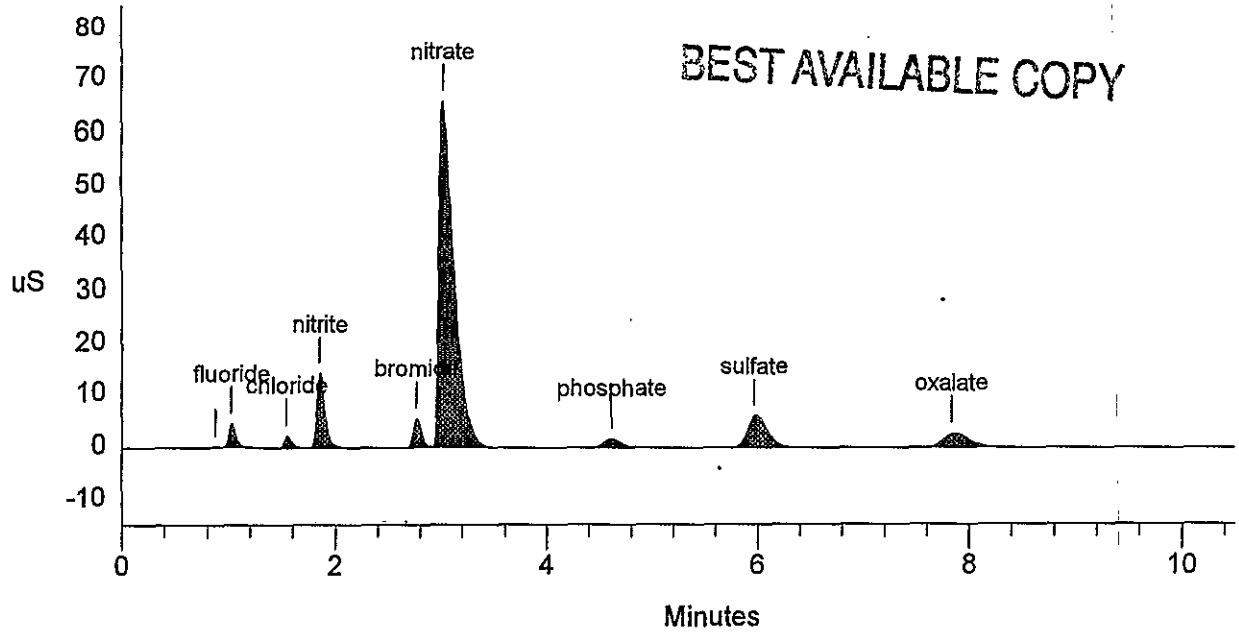
WHC-SD-WM-DP-164, REV. 1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.88		0.000	224311	945963	2	
2	1.03	fluoride	39.068	4417253	20600112	2	1.65
3	1.55	chloride	34.047	2284121	11120216	1	-1.49
4	1.86	nitrite	316.360	14289446	75491598	1	-2.62
5	2.77	bromide	198.436	5448406	30142900	1	-1.89
6	3.02	nitrate	2677.265	65812304	655291399	1	-4.13
7	4.61	phosphate	223.023	1716834	21839770	1	-1.63
8	5.97	sulfate	305.170	5921025	79807830	1	-3.50
9	7.84	oxalate	250.892	2631773	48750584	1	-3.33
		Totals	4044.262	102745472	943990373		

File: 96022121.D10 Sample: S95T003814 SPIKE



BEST AVAILABLE COPY

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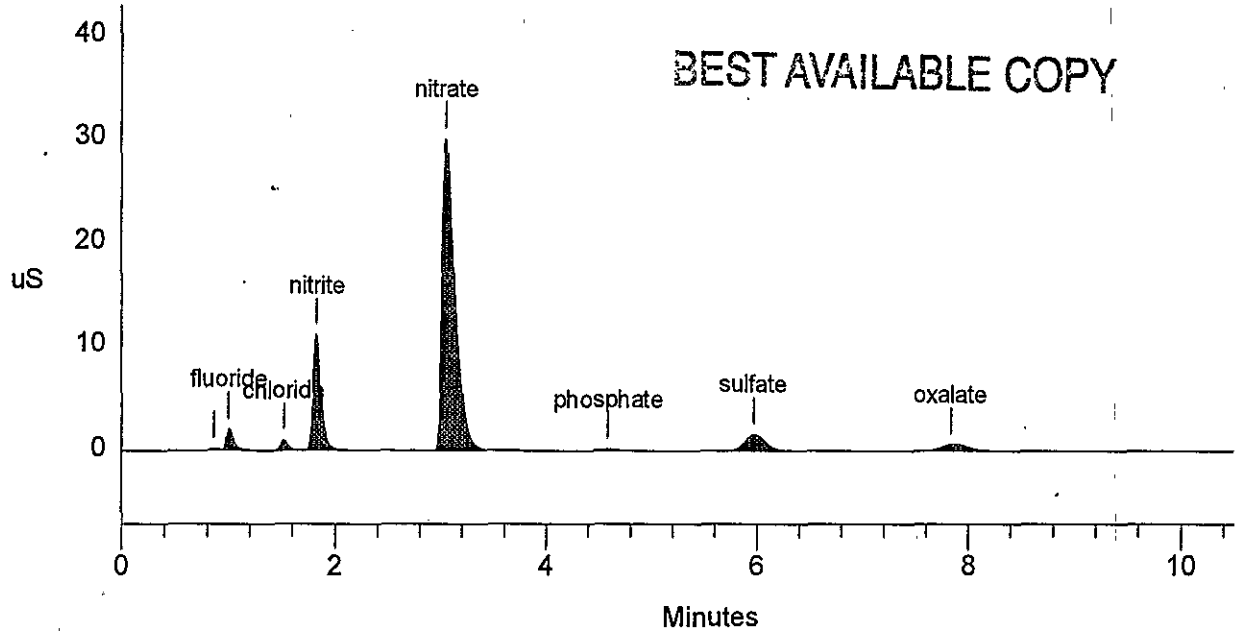
==============================================================================
| Sample Name: S95T003798                      Date: 02/21/1996 15:20:01      |
| Data File  : C:\DX\DATA\96022121.D12                                        |
| Method     : C:\DX\METHOD\KIT.MET            WHC-SD-WM-DP-164, REV. 1      |
| ACI Address: 1  System: 1  Inject#: 12                  Detector:CDM-2      |
| Analyst    :                 Column: AG4A/AS4A anion column                |
==============================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	178531	855528	2	
2	1.01	fluoride	19.813	2047813	10244812	2	-0.33
3	1.52	chloride	14.523	977431	4641938	1	-3.18
4	1.83	nitrite	248.306	11095676	58853946	1	-4.36
5	3.05	nitrate	1191.300	29999777	257629634	1	-3.07
6	4.59	phosphate	24.981	153747	1965718	1	-2.20
7	5.97	sulfate	87.461	1573392	21185202	1	-3.50
8	7.84	oxalate	64.278	631872	12264032	1	-3.33
		Totals	1650.662	46658239	367640810		

File: 96022121.D12 Sample: S95T003798



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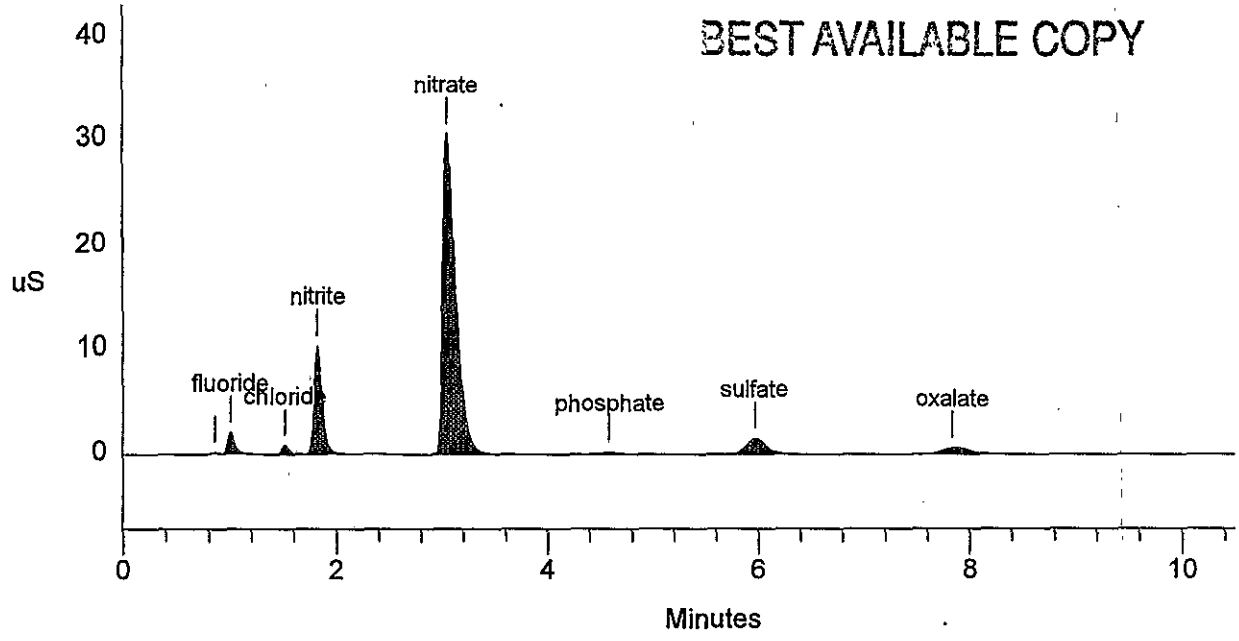
==============================================================================
| Sample Name: S95T003798  DUP                    Date: 02/21/1996 15:32:16   |
| Data File  : C:\DX\DATA\96022121.D13                                        |
| Method     : C:\DX\METHOD\KIT.MET                WHC-SD-WM-DP-164, REV. 1   |
| ACI Address: 1  System: 1  Inject#: 13                   Detector:CDM-2     |
| Analyst    :                  Column: AG4A/AS4A anion column               |
==============================================================================
```

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3150	5Hz	0.00	10.50		20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	170458	811558	2	
2	1.01	fluoride	19.744	2078638	10207584	2	-0.33
3	1.52	chloride	13.511	891553	4307888	1	-3.18
4	1.83	nitrite	231.593	10258230	54773738	1	-4.36
5	3.05	nitrate	1212.145	30463967	262537496	1	-3.28
6	4.59	phosphate	32.814	207550	2740920	1	-2.20
7	5.97	sulfate	83.928	1507750	20247962	1	-3.50
8	7.84	oxalate	63.314	613798	12076758	1	-3.33
		Totals	1657.048	46191943	367703905		

File: 96022121.D13 Sample: S95T003798 DUP



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==============================================================================
| Sample Name: S95T003683                      Date: 02/21/1996 15:45:17      |
| Data File  : C:\DX\DATA\96022121.D14                                        |
| Method     : C:\DX\METHOD\KIT.MET                                           |
| ACI Address: 1  System: 1  Inject#: 14                   Detector:CDM-2     |
| Analyst    :                 Column: AG4A/AS4A anion column                 |
==============================================================================
```

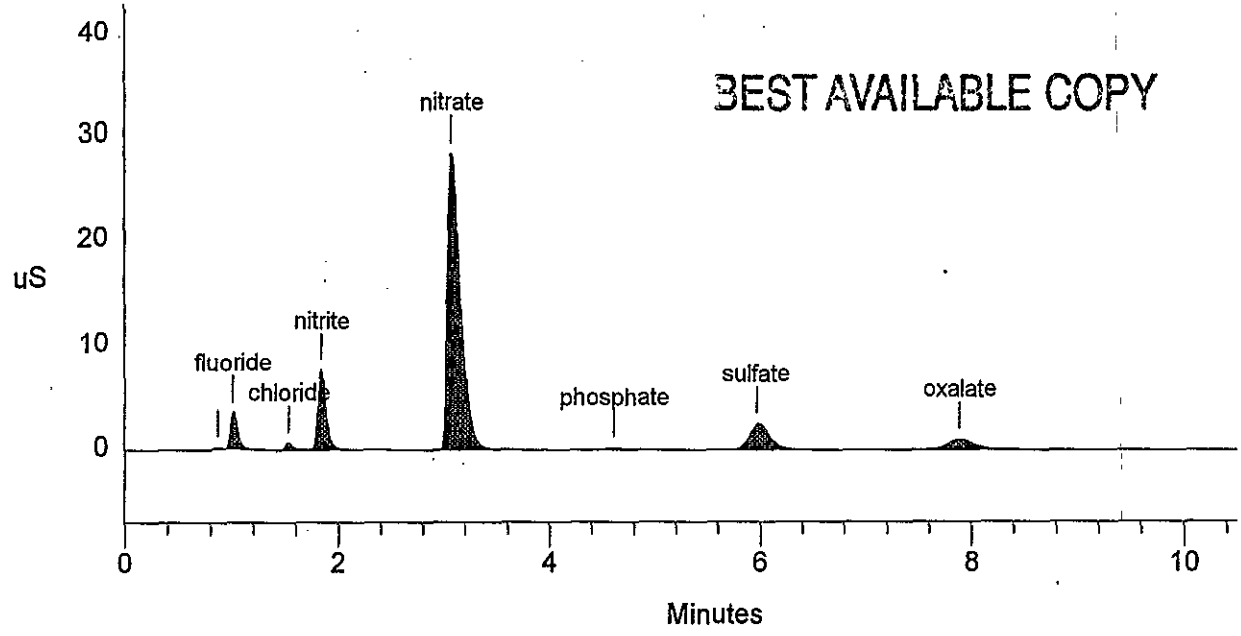
WHC-SD-WM-DP-164, REV. 1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	173908	765293	2	
2	1.02	fluoride	31.927	3473239	16753996	2	0.99
3	1.54	chloride	10.617	704557	3354088	1	-1.91
4	1.85	nitrite	173.207	7663467	40537988	1	-3.32
5	3.07	nitrate	1131.117	28379598	243542220	1	-2.43
6	4.61	phosphate	29.243	180547	2387354	1	-1.63
7	5.97	sulfate	129.962	2415922	32493274	1	-3.50
8	7.89	oxalate	93.908	978040	18027778	1	-2.67
		Totals	1599.981	43969278	357861991		

File: 96022121.D14 Sample: S95T003683



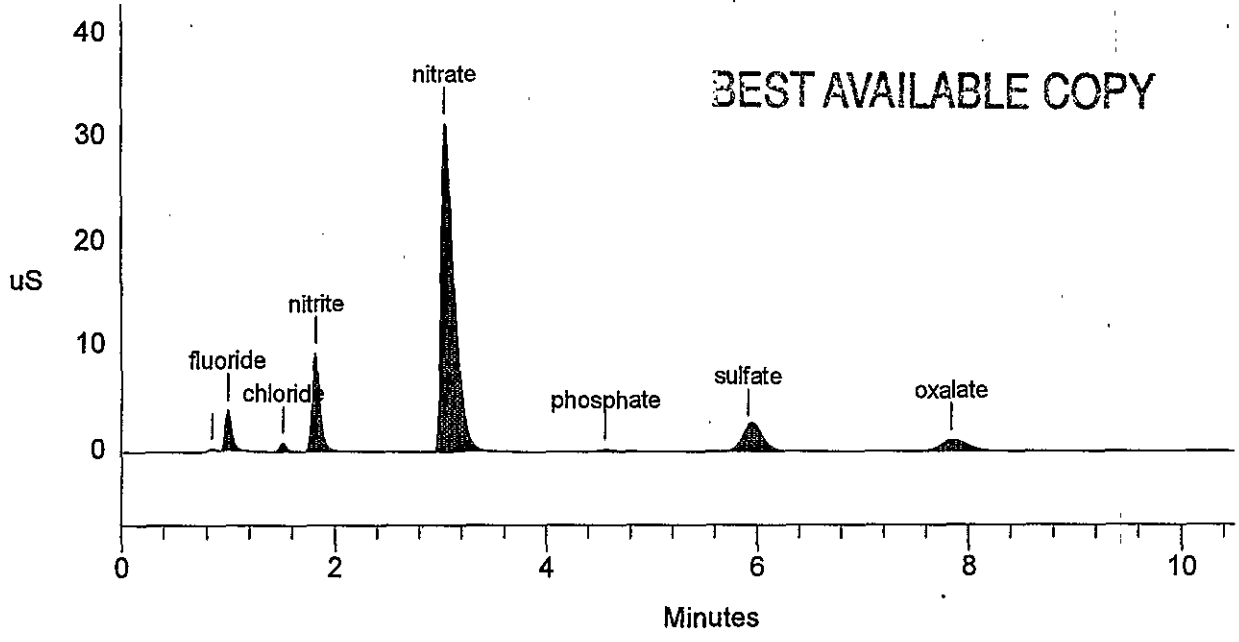
Sample Name: S95T003683 DUP
Date: 02/21/1996 16:26:45
Data File : C:\DX\DATA\96022121.D15
WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 15 Detector:CDM-2
Analyst Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.85		0.000	174024	708676	2	
2	0.99	fluoride	31.721	3820508	16643088	2	-1.65
3	1.51	chloride	12.641	858517	4021166	1	-3.61
4	1.82	nitrite	205.154	9327944	48323942	1	-4.71
5	3.04	nitrate	1242.771	31262604	269774946	1	-3.49
6	4.56	phosphate	33.195	200213	2778680	1	-2.77
7	5.92	sulfate	145.824	2422291	36730344	1	-4.36
8	7.84	oxalate	105.191	1085550	20225396	1	-3.33
		Totals	1776.498	49151651	399206238		

File: 96022121.D15 Sample: S95T003683 DUP



LABCORE Completed Worklist Report for Worklist# 4689

Analyst: eal **Instrument:** IC01 **Book#** 122N9E

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

Worklist Comment: BY-104 FOR IC RTS

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F QC	1	<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL QC	1	<1.70e-2		ug/mL
1	CCB			0	@IC-QC	NO2 QC	1	<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR QC	1	<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3 QC	1	2.38e-01	0.240	ug/mL
1	CCB			0	@IC-QC	PO4 QC	1	<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4 QC	1	1.91e-01	0.190	ug/mL
1	CCB			0	@IC-QC	OXALATE2 QC	1	<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F QC	59	5.39e+01	91.360	% Recovery
2	CCV			0	@IC-QC	CL QC	79	7.34e+01	92.910	% Recovery
2	CCV			0	@IC-QC	NO2 QC	534	4.98e+02	93.260	% Recovery
2	CCV			0	@IC-QC	BR QC	575	5.43e+02	94.430	% Recovery
2	CCV			0	@IC-QC	NO3 QC	614	5.91e+02	96.250	% Recovery
2	CCV			0	@IC-QC	PO4 QC	546	5.08e+02	93.040	% Recovery
2	CCV			0	@IC-QC	SO4 QC	631	6.09e+02	96.510	% Recovery
2	CCV			0	@IC-QC	OXALATE2 QC	526	4.99e+02	94.870	% 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	7.68e-01	0.770	ug/g
3	BLNK-PREP			0	@IC-01	NO3-02 SOLID	1	2.27e-01	0.230	ug/g
3	BLNK-PREP			0	@IC-01	PO4-02 SOLID	1	<1.20e-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	S95T003799		0 W	@IC-01	F-02 SOLID	N/A	2.277e+03	255.400	ug/g
4	SAMPLE	S95T003799		0 W	@IC-01	CL-02 SOLID	N/A	1.682e+03	334.000	ug/g
4	SAMPLE	S95T003799		0 W	@IC-01	NO2-02 SOLID	N/A	2.529e+04	2.102e+003	ug/g
4	SAMPLE	S95T003799		0 W	@IC-01	BR-02 SOLID	N/A <	2.475e+03	2.475e+003	ug/g
4	SAMPLE	S95T003799		0 W	@IC-01	NO3-02 SOLID	N/A	4.831e+05	2.749e+003	ug/g
4	SAMPLE	S95T003799		0 W	@IC-01	PO4-02 SOLID	N/A	6.411e+03	2.356e+003	ug/g
4	SAMPLE	S95T003799		0 W	@IC-01	SO4-02 SOLID	N/A	1.177e+04	2.670e+003	ug/g
4	SAMPLE	S95T003799		0 W	@IC-01	OXALATE2 SOLID	N/A	7.790e+03	2.063e+003	ug/g
5	DUP	S95T003799		0 W	@IC-01	F-02 SOLID	2.28e+03	2.50e+03	9.210	RPD
5	DUP	S95T003799		0 W	@IC-01	CL-02 SOLID	1.68e+03	1.83e+03	8.550	RPD
5	DUP	S95T003799		0 W	@IC-01	NO2-02 SOLID	2.53e+04	2.75e+04	8.330	RPD
5	DUP	S95T003799		0 W	@IC-01	BR-02 SOLID	<2.48e3	<2.46e3		RPD
5	DUP	S95T003799		0 W	@IC-01	NO3-02 SOLID	4.83e+05	4.83e+05	0.000	RPD
5	DUP	S95T003799		0 W	@IC-01	PO4-02 SOLID	6.41e+03	6.27e+03	2.210	RPD
5	DUP	S95T003799		0 W	@IC-01	SO4-02 SOLID	1.18e+04	1.19e+04	0.840	RPD
5	DUP	S95T003799		0 W	@IC-01	OXALATE2 SOLID	7.79e+03	8.08e+03	3.650	RPD
6	SPK	S95T003799		0 W	@IC-01	F-02 SOLID	59	55.496	94.050	% Recovery

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

LABCORE Completed Worklist Report for Worklist# 4689

Seq	Type	Sample#	R	A		Test	Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S95T003799	0	W	@IC-01	CL-02	SOLID	79	69.852	88.420	% Recovery
6	SPK	S95T003799	0	W	@IC-01	NO2-02	SOLID	534	509.996	95.500	% Recovery
6	SPK	S95T003799	0	W	@IC-01	BR-02	SOLID	575	5.62e+02	97.740	% Recovery
6	SPK	S95T003799	0	W	@IC-01	NO3-02	SOLID	614	666.480	108.550	% Recovery
6	SPK	S95T003799	0	W	@IC-01	PO4-02	SOLID	546	500.040	91.580	% Recovery
6	SPK	S95T003799	0	W	@IC-01	SO4-02	SOLID	631	596.491	94.530	% Recovery
6	SPK	S95T003799	0	W	@IC-01	OXALATE2	SOLID	526	515.952	98.090	% Recovery
7	SAMPLE	S95T003800	0	W	@IC-01	F-02	SOLID	N/A	2.687e+03	226.400	ug/g
7	SAMPLE	S95T003800	0	W	@IC-01	CL-02	SOLID	N/A	6.660e+03	295.100	ug/g
7	SAMPLE	S95T003800	0	W	@IC-01	NO2-02	SOLID	N/A	2.823e+04	1.864e+003	ug/g
7	SAMPLE	S95T003800	0	W	@IC-01	BR-02	SOLID	N/A <	2.195e+03	2.195e+003	ug/g
7	SAMPLE	S95T003800	0	W	@IC-01	NO3-02	SOLID	N/A	4.333e+05	2.437e+003	ug/g
7	SAMPLE	S95T003800	0	W	@IC-01	PO4-02	SOLID	N/A	6.344e+03	2.089e+003	ug/g
7	SAMPLE	S95T003800	0	W	@IC-01	SO4-02	SOLID	N/A	1.383e+04	2.367e+003	ug/g
7	SAMPLE	S95T003800	0	W	@IC-01	OXALATE2	SOLID	N/A	9.051e+03	1.829e+003	ug/g
8	DUP	S95T003800	0	W	@IC-01	F-02	SOLID	2.69e+03	2.20e+03	20.040	RPD
8	DUP	S95T003800	0	W	@IC-01	CL-02	SOLID	6.66e+03	2.18e+03	101.360	RPD
8	DUP	S95T003800	0	W	@IC-01	NO2-02	SOLID	2.82e+04	2.71e+04	3.980	RPD
8	DUP	S95T003800	0	W	@IC-01	BR-02	SOLID	<2.20e3	<2.22e3		RPD
8	DUP	S95T003800	0	W	@IC-01	NO3-02	SOLID	4.33e+05	4.10e+05	5.460	RPD
8	DUP	S95T003800	0	W	@IC-01	PO4-02	SOLID	6.34e+03	3.10e+03	68.640	RPD
8	DUP	S95T003800	0	W	@IC-01	SO4-02	SOLID	1.38e+04	1.24e+04	10.690	RPD
8	DUP	S95T003800	0	W	@IC-01	OXALATE2	SOLID	9.05e+03	8.17e+03	10.220	RPD

Comments Section:

Comments for sample# S95T003799 and test @IC-01 .
Br < too high at this df but none visible on trace.JMF

Comments for sample# S95T003800 and test @IC-01 .
Br < too high at this df but none visible on trace.JMF

Final page for worklist# 4689

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

Jann Frye 3/7/96
Reviewer Signature **Date**

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

96022001. D15 → D24

LABCORE Data Entry Template for Worklist# 4689

Analyst: EAL **Instrument:** IC01 _____ **Book#** 12209-E

Method: LA-533-105 **Rev/Mod** D1

Worklist Comment: BY-104 FOR IC RTS

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	CCB				@IC-QC	QC		
2	CCV				@IC-QC	QC		
3	BLNK-PREP				@IC-01	SOLID		
4	SAMPLE	S95T003799	0	W	@IC-01	SOLID	95000200	BY104 ROTARY
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
5	DUP	S95T003799	0	W	@IC-01	SOLID		
6	SPK	S95T003799	0	W	@IC-01	SOLID		
7	SAMPLE	S95T003800	0	W	@IC-01	SOLID	95000200	BY104 ROTARY
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
8	DUP	S95T003800	0	W	@IC-01	SOLID		

Final page for worklist # 4689

A Lambert 02-20-96

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

Exported
In shell

Uploaded 3/7/96 Jenn M Frye

Data Entry Comments: Dups poor on S95T003800. JMF

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

A-0010-IC DATA FILE/WORKLIST RESOLUTION 07-Mar-96

Worklist#: 4689

	Seq	Type	Sample #
=>	1	CCB	
=>	2	CCV	
=>	3	BLNK-PREP	
=>	4	SAMPLE	S95T003799
=>	5	DUP	S95T003799
=>	6	SPK	S95T003799
=>	7	SAMPLE	S95T003800
=>	8	DUP	S95T003800

Data File: 4689FEB.CSV

Seq#	Data File	Sample Name	Dilution
	96022001.d15	INST. BLANK	1.00
2	96022001.d16	122N9-E STD.	101.00
1	96022001.d17	INST. BLANK	1.00
3	96022001.d18	PREP. BLANK	1.00
	96022001.d19	S95T003799	51.00
4	96022001.d20	S95T003799	101.00
5	96022001.d21	S95T003799 DUP	101.00
6	96022001.d22	S95T003799 SPI	101.00
7	96022001.d23	S95T003800	101.00
8	96022001.d24	S95T003800 DUP	101.00

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

WHC-SD-WM-DP-164, REV. 1

Data Reprocessed On 02/28/1996 11:20:09

Sample Name: INST. BLANK Date: 02/20/1996 01:27:54
Data File : C:\DX\DATA\96022001.d15
Method : C:\DX\METHOD\KIT.MET
WHC-SD-WM-DP-164, REV. I
ACI Address: 1 System: 1 Inject#: 15 Detector:CDM-2
Analyst Column: AG4A/AS4A anion column

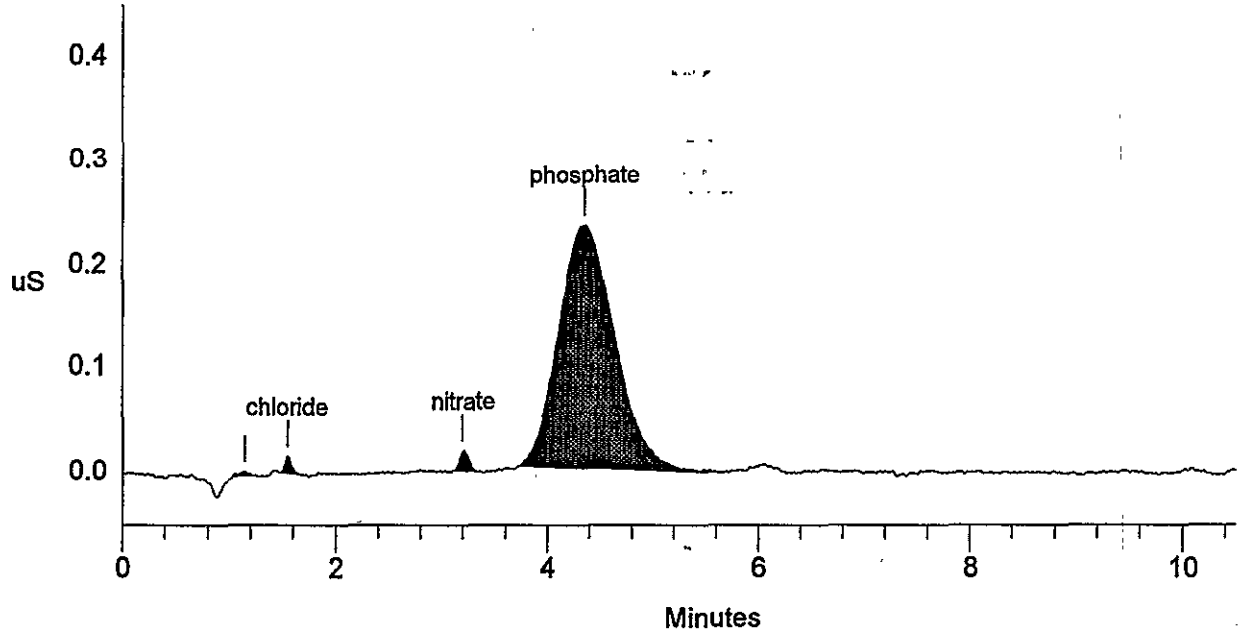
EAL 3/7/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.14		0.000	4688	28076	1	
2	1.55	chloride	0.015	16333	67524	1	-1.49
3	3.20	nitrate	0.236	20029	113916	1	1.59
4	4.35	phosphate	2.240	233361	8612170	1	-7.32
		Totals	2.491	274412	8821686		

File: 96022001.d15 Sample: INST. BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 614 TO 623.

Data Reprocessed On 02/28/1996 11:20:12

Sample Name: 122N9-E STD. Date: 02/20/1996 01:39:40
Data File : C:\DX\DATA\96022001.d16
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 16 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

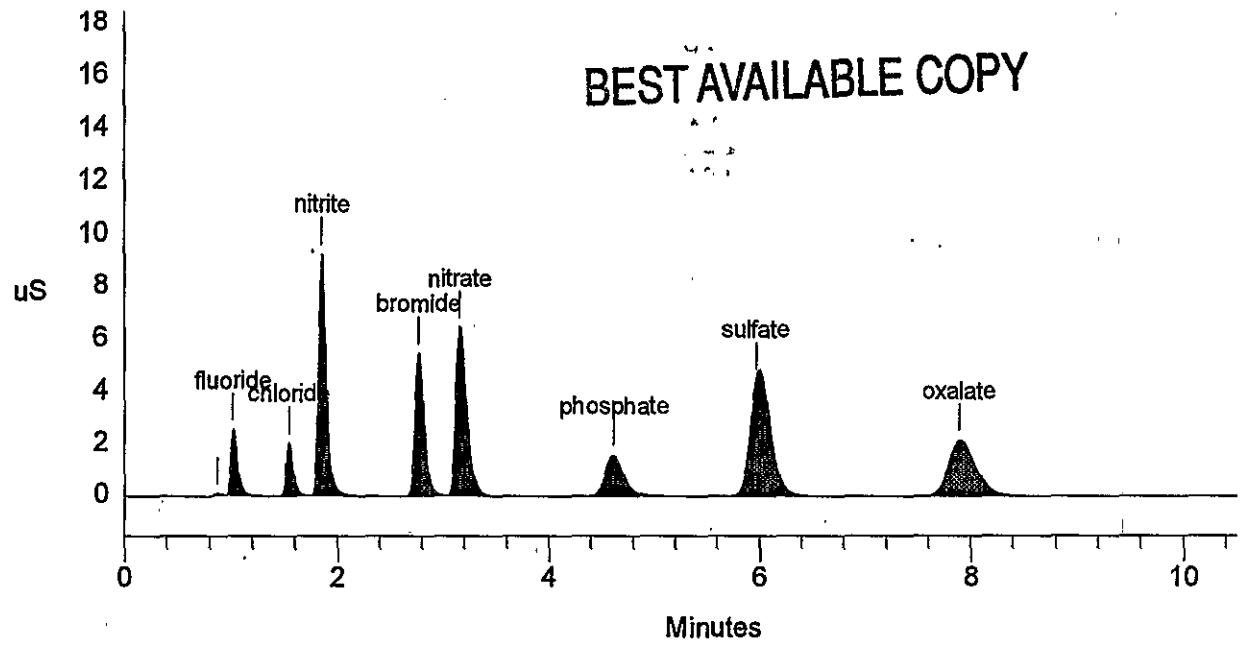
Jan Jung
Rev 9 AR 3/7/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	71665	313062	2	
2	1.02	fluoride	53.939	2535412	11362693	2	0.99
3	1.55	chloride	73.392	2056802	9702566	1	-1.49
4	1.85	nitrite	498.407	9259199	47633878	1	-2.97
5	2.77	bromide	543.374	5459227	33686410	1	-1.89
6	3.15	nitrate	591.491	6432227	47511128	1	0.11
7	4.61	phosphate	508.046	1590766	20132476	1	-1.63
8	5.97	sulfate	608.529	4495390	63979236	1	-3.50
9	7.89	oxalate	499.437	2151578	39293728	1	-2.67
		Totals	3376.616	34052266	273615178		

File: 96022001.d16 Sample: 122N9-E STD.



BEST AVAILABLE COPY

Data Reprocessed On 02/28/1996 11:20:14

Sample Name: INST. BLANK Date: 02/20/1996 01:51:18
Data File : C:\DX\DATA\96022001.d17
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 17 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

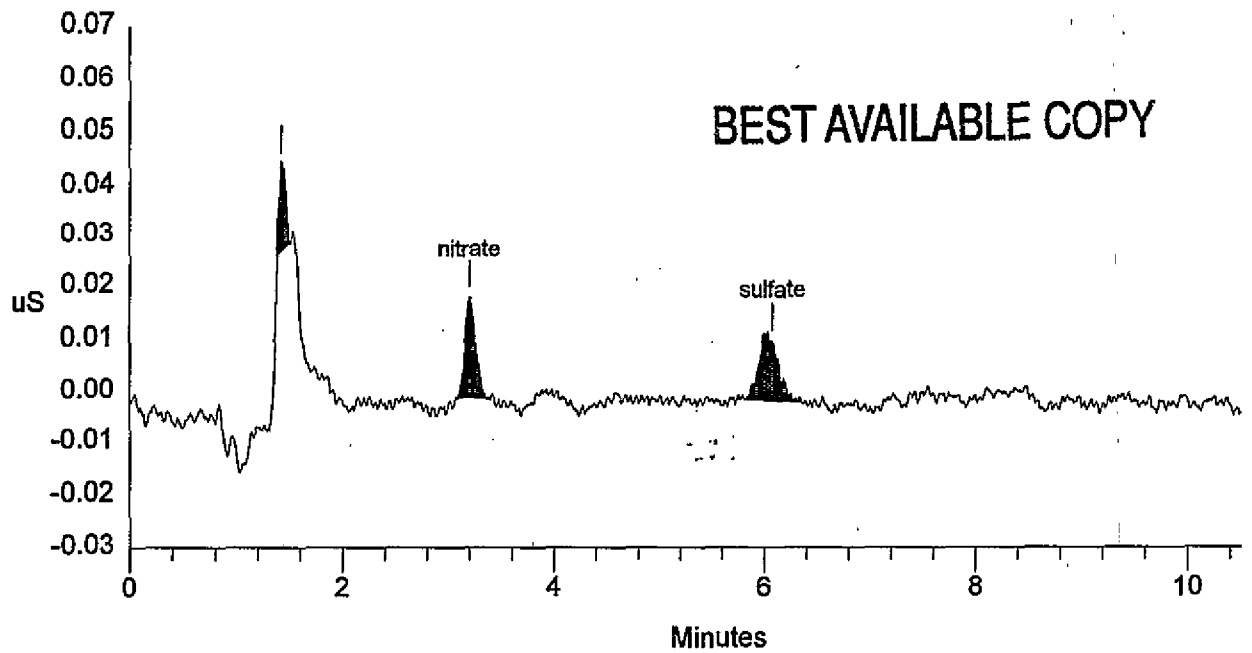
Jan 9 AH 3/7/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.43		0.000	17444	75328	1	
2	3.20	nitrate	0.238	19061	133648	1	1.59
3	6.08	sulfate	0.191	11755	169996	1	-1.78
		Totals	0.430	48259	378972		

File: 96022001.d17 Sample: INST. BLANK



BEST AVAILABLE COPY

Data Reprocessed On 02/28/1996 11:20:16

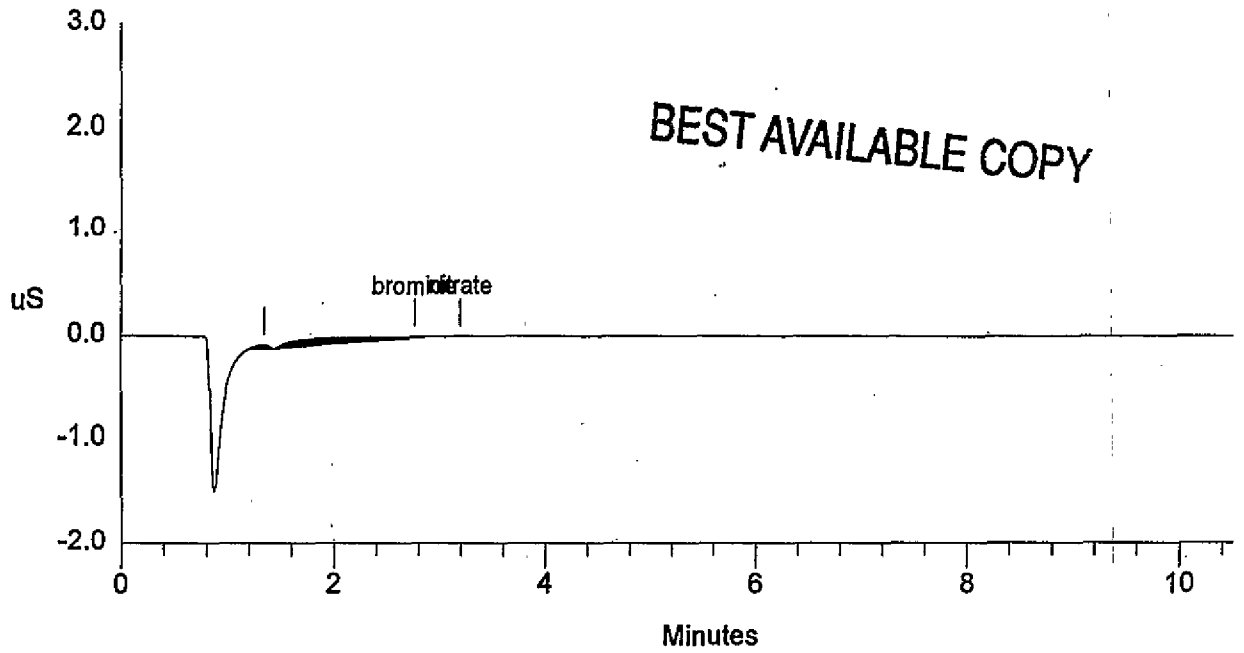
Sample Name: PREP. BLANK	Date: 02/20/1996 02:04:52
Data File : C:\DX\DATA\96022001.d18	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 18	Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.34		0.000	45276	359248	1	
2	2.76	bromide	0.768	14781	3808197	1	-2.13
3	3.19	nitrate	0.227	7418	36664	1	1.38
		Totals	0.995	67475	4204109		

File: 96022001.d18 Sample: PREP. BLANK



BEST AVAILABLE COPY

Data Reprocessed On 02/28/1996 11:20:18

Sample Name: S95TOO3799 Date: 02/20/1996 02:17:34
Data File : C:\DX\DATA\96022001.d19
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 19 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

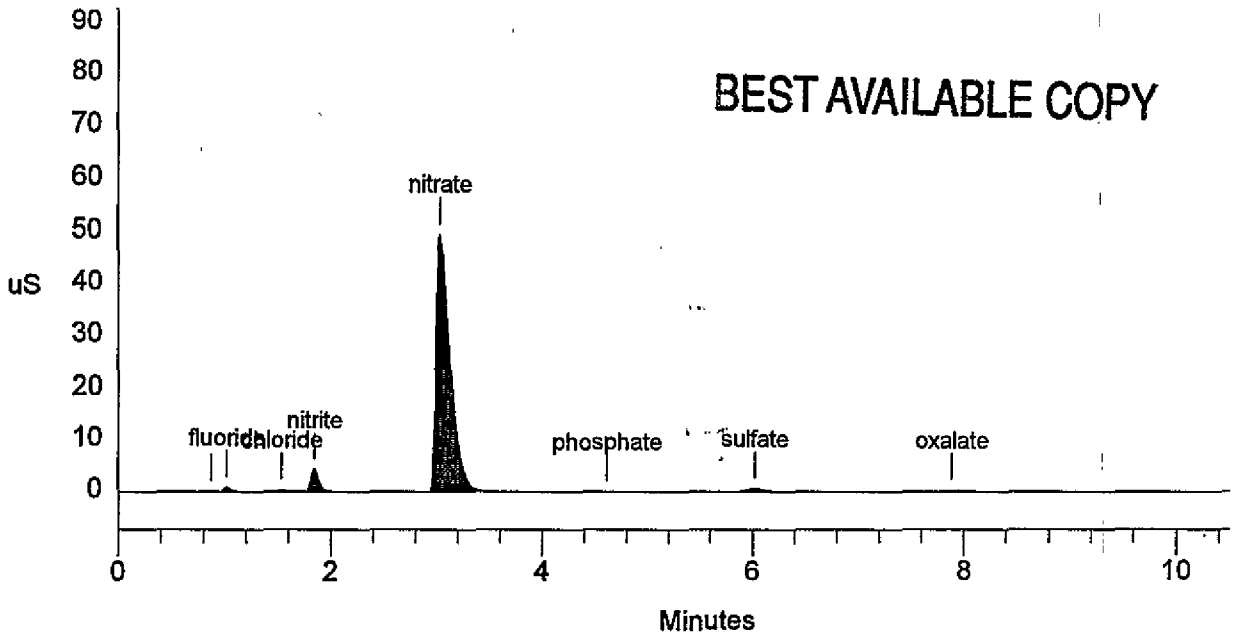
WHC-SD-WM-DP-164 REV. 1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	137286	624326	2	
2	1.02	fluoride	10.977	904490	4357528	2	0.99
3	1.54	chloride	8.907	423726	2216742	1	-1.91
4	1.85	nitrite	126.516	4374168	23143242	1	-3.32
5	3.03	nitrate	2484.944	49524544	459680978	1	-3.70
6	4.61	phosphate	24.183	110013	1417902	1	-1.63
7	6.03	sulfate	51.813	675862	9068566	1	-2.64
8	7.89	oxalate	39.947	303372	6019884	1	-2.67
		Totals	2747.286	56453461	506529168		

File: 96022001.d19 Sample: S95TOO3799



Data Reprocessed On 02/28/1996 11:20:20

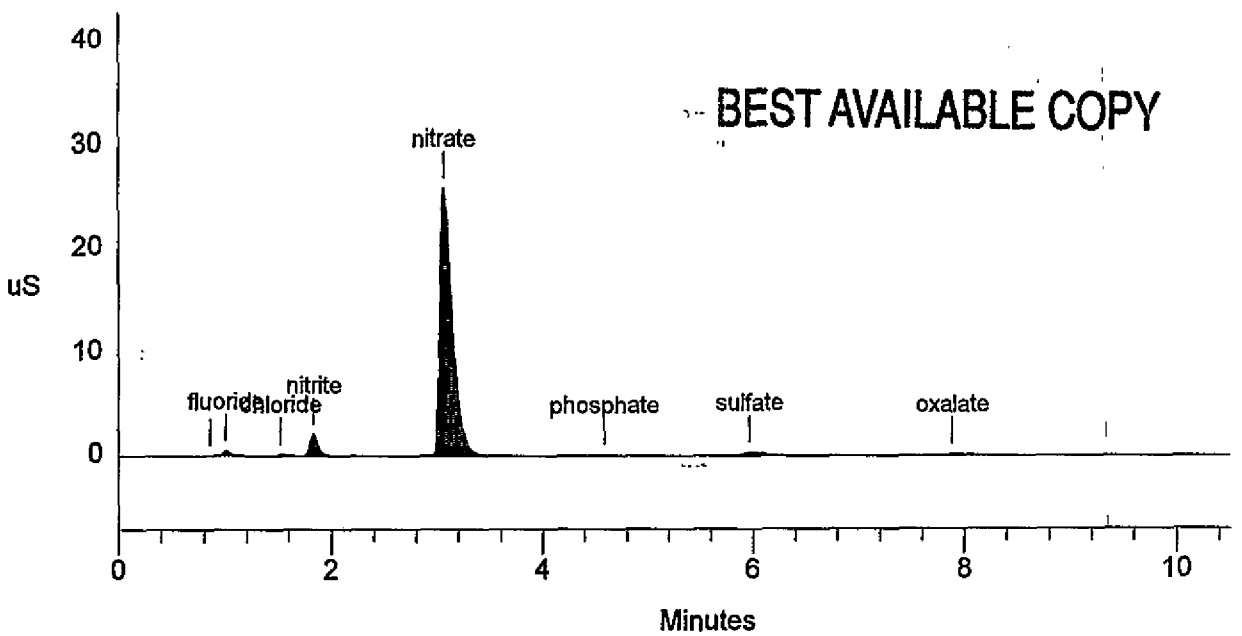
Sample Name: S95TOO3799 Date: 02/20/1996 02:48:45
Data File : C:\DX\DATA\96022001.d20 WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 20 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	60855	281107	2	
2	1.01	fluoride	11.704	470755	2179025	2	-0.33
3	1.53	chloride	8.648	208685	1018234	1	-2.76
4	1.83	nitrite	130.004	2081831	11261734	1	-4.01
5	3.07	nitrate	2483.523	25944043	215128626	1	-2.65
6	4.59	phosphate	32.960	54822	819076	1	-2.20
7	5.97	sulfate	60.509	314025	4566544	1	-3.50
8	7.89	oxalate	40.048	153703	2946208	1	-2.67
		Totals	2767.395	29288719	238200554		

File: 96022001.d20 Sample: S95TOO3799



Data Reprocessed On 02/28/1996 11:20:22

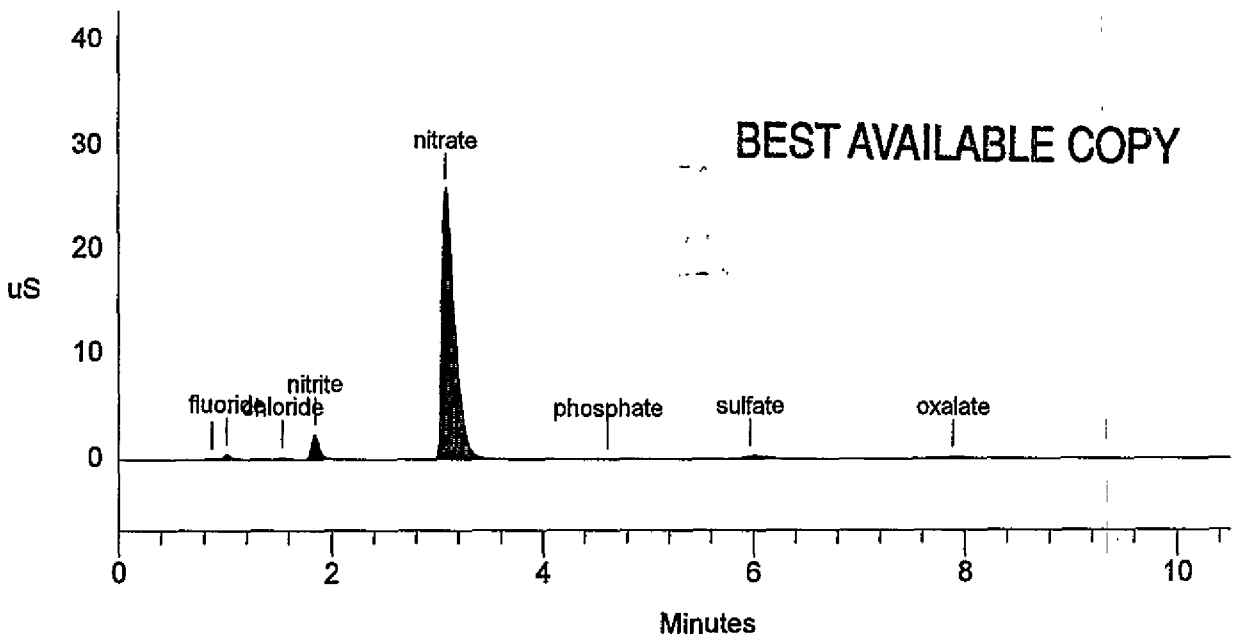
Sample Name: S95TOO3799 DUP	Date: 02/20/1996 03:02:40
Data File : C:\DX\DATA\96022001.d21	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 21	Detector:CDM-2
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	60879	272228	2	
2	1.01	fluoride	12.962	489400	2451987	2	0.33
3	1.54	chloride	9.480	236847	1128990	1	-1.91
4	1.85	nitrite	141.585	2395804	12402408	1	-3.32
5	3.08	nitrate	2502.540	25825844	216898424	1	-2.22
6	4.61	phosphate	32.448	59047	798580	1	-1.63
7	5.97	sulfate	61.759	293804	4700066	1	-3.50
8	7.89	oxalate	41.845	160688	3087562	1	-2.67
		Totals	2802.619	29522314	241740245		

File: 96022001.d21 Sample: S95TOO3799 DUP



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Data Reprocessed On 02/28/1996 11:20:25

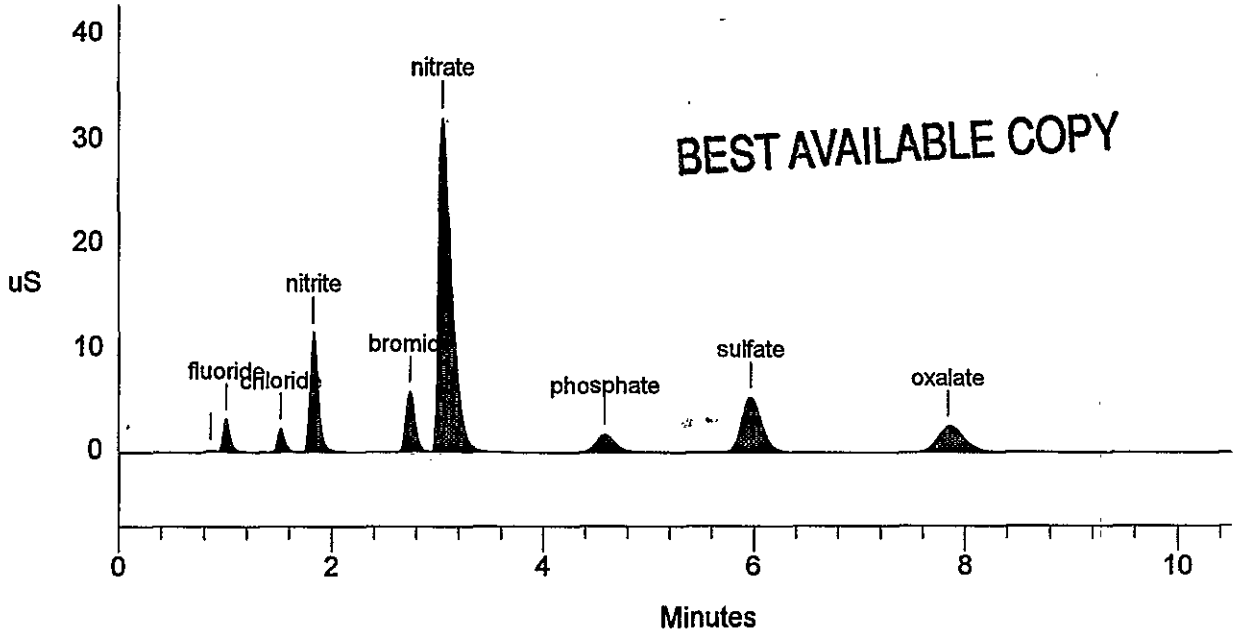
Sample Name: S95TOO3799 SPIKE Date: 02/20/1996 03:18:18
Data File : C:\DX\DATA\96022001.d22
Method : C:\DX\METHOD\KIT.MET
WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 22 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	135522	584944	2	
2	1.01	fluoride	67.178	3095712	14249408	2	-0.33
3	1.52	chloride	78.477	2183820	10390002	1	-3.18
4	1.83	nitrite	640.096	11545498	61671224	1	-4.36
5	2.74	bromide	562.176	5832838	34910758	1	-2.84
6	3.05	nitrate	3146.210	32075675	277943794	1	-3.07
7	4.59	phosphate	533.060	1679268	21164690	1	-2.20
8	5.97	sulfate	657.246	5267668	69348528	1	-3.50
9	7.84	oxalate	555.506	2447182	43760244	1	-3.33
		Totals	6239.949	64263184	534023593		

File: 96022001.d22 Sample: S95TOO3799 SPIKE



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Data Reprocessed On 02/28/1996 11:20:27

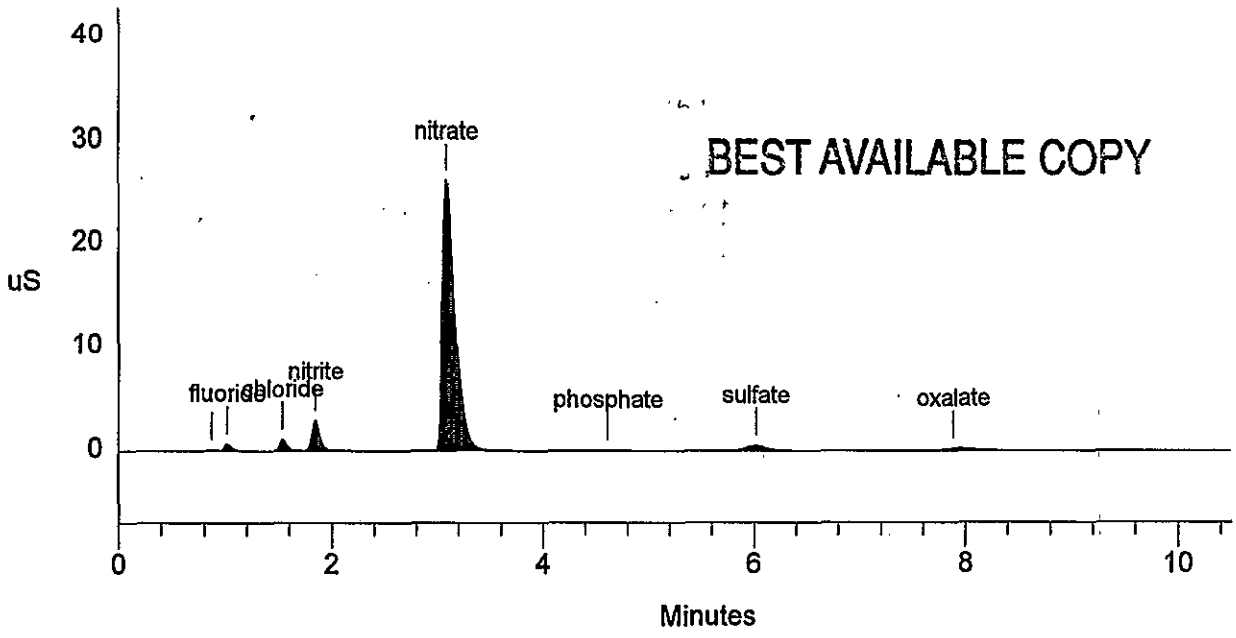
Sample Name: S95TOO3800	Date: 02/20/1996 03:29:34
Data File : C:\DX\DATA\96022001.d23	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 23	Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	72967	338316	2	
2	1.02	fluoride	15.577	644401	3019479	2	0.99
3	1.54	chloride	38.614	1075130	5022170	1	-1.91
4	1.85	nitrite	163.667	2808310	14577714	1	-3.32
5	3.09	nitrate	2512.386	26204412	217815490	1	-2.01
6	4.61	phosphate	36.774	69848	971986	1	-1.63
7	6.03	sulfate	80.186	500459	6669404	1	-2.64
8	7.89	oxalate	52.478	201140	3923954	1	-2.67
		Totals	2899.681	31576667	252338512		

File: 96022001.d23 Sample: S95TOO3800



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Data Reprocessed On 02/28/1996 11:20:29

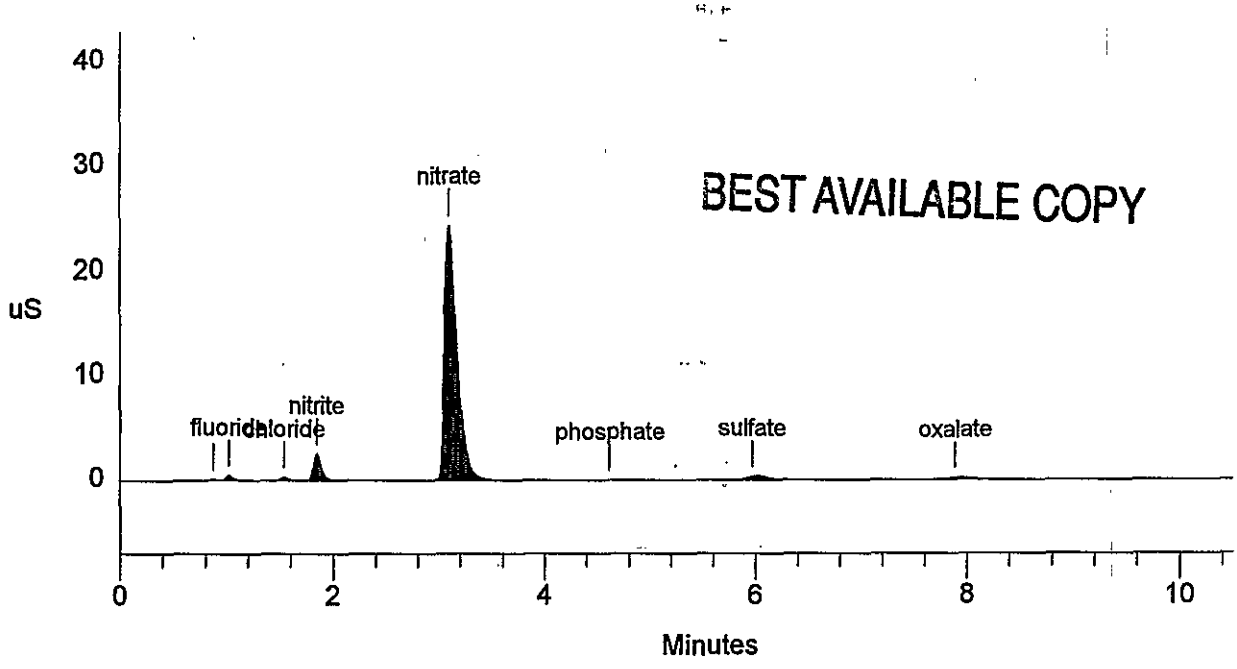
Sample Name: S95TOO3800 DUP	Date: 02/20/1996 03:42:37
Data File : C:\DX\DATA\96022001.d24	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 24	Detector:CDM-2
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	69256	326113	2	
2	1.02	fluoride	12.614	499634	2376482	2	0.99
3	1.54	chloride	12.452	318760	1525044	1	-1.91
4	1.85	nitrite	154.943	2565314	13718284	1	-3.32
5	3.09	nitrate	2346.332	24349560	202415962	1	-1.80
6	4.61	phosphate	17.741	19192	209286	1	-1.63
7	5.97	sulfate	70.738	353899	5659490	1	-3.50
8	7.89	oxalate	46.748	179007	3473196	1	-2.67
		Totals	2661.569	28354621	229703857		

File: 96022001.d24 Sample: S95TOO3800 DUP



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LABCORE Completed Worklist Report for Worklist# 5241

Analyst: eal **Instrument:** IC01 **Book#** 122N4E

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

Worklist Comment: Rerun BY-104 for Br, Use 41 Df. JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB			0	@IC-QC	F QC	1	<1.30e-2		ug/mL
1	CCB			0	@IC-QC	CL QC	1	1.80e-02	2.000e-002	ug/mL
1	CCB			0	@IC-QC	NO2 QC	1	<1.07e-1		ug/mL
1	CCB			0	@IC-QC	BR QC	1	<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3 QC	1	2.51e-01	0.250	ug/mL
1	CCB			0	@IC-QC	PO4 QC	1	4.50e-01	0.450	ug/mL
1	CCB			0	@IC-QC	SO4 QC	1	<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2 QC	1	<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F QC	59	5.47e+01	92.710	% Recovery
2	CCV			0	@IC-QC	CL QC	79	7.18e+01	90.890	% Recovery
2	CCV			0	@IC-QC	NO2 QC	534	4.98e+02	93.260	% Recovery
2	CCV			0	@IC-QC	BR QC	575	5.48e+02	95.300	% Recovery
2	CCV			0	@IC-QC	NO3 QC	614	5.92e+02	96.420	% Recovery
2	CCV			0	@IC-QC	PO4 QC	546	5.10e+02	93.410	% Recovery
2	CCV			0	@IC-QC	SO4 QC	631	6.09e+02	96.510	% Recovery
2	CCV			0	@IC-QC	OXALATE2 QC	526	5.15e+02	97.910	% 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	2.30e-02	2.000e-002	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	<1.20e-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	S95T003704	0	W	@IC-01	BR-02 SOLID	N/A	< 1.217e+03	1.217e+003	ug/g
5	DUP	S95T003704	0	W	@IC-01	BR-02 SOLID	<1.22e3	<1.24e3		RPD
6	SAMPLE	S95T003705	0	W	@IC-01	BR-02 SOLID	N/A	< 1.092e+03	1.092e+003	ug/g
7	DUP	S95T003705	0	W	@IC-01	BR-02 SOLID	<1.09e3	<1.08e3		RPD

Comments Section:

Comments for sample# S95T003704 and test @IC-01 .
Br < value too high

Final page for worklist# 5241

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

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

LABCORE Completed Worklist Report for Worklist# 5241

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit

Reviewer Signature Date 2/22/96

LABCORE Data Entry Template for Worklist# 5241

Analyst: [illegible] **Instrument:** IC01 _____ **Book#** 12249-E

Method: LA-533-105 Rev/Mod D-1 WHC-SD-WM-DP-164, REV. 1

Worklist Comment: Rerun BY-104 for Br, Use 41 Df. JMF

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	S95T003704	0	W	@IC-01	SOLID	95000180	BY104 ROTARY
	Analytes Requested: BR-02							
5	DUP	S95T003704	0	W	@IC-01	SOLID		
6	SAMPLE	S95T003705	0	W	@IC-01	SOLID	95000180	BY104 ROTARY
	Analytes Requested: BR-02							
7	DUP	S95T003705	0	W	@IC-01	SOLID		

Final page for worklist # 5241

Ann Lambert 2-20-96
Analyst Signature **Date**

Analyst Signature **Date**

In Shell

Uploaded 2/22/96
Jann M. Faye
printed

Data Entry Comments:

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

A-0010-IC DATA FILE/WORKLIST RESOLUTION 22-Feb-96

Worklist#: 5241

	Seq	Type	Sample #
=>	1	CCB	
=>	2	CCV	
=>	3	BLNK-PREP	
=>	4	SAMPLE	S95T003704
=>	5	DUP	S95T003704
=>	6	SAMPLE	S95T003705
=>	7	DUP	S95T003705

Data File: 5241FEB.CSV

Seq#	Data File	Sample Name	Dilution
1	96021921.d08	INST. BLANK	1.00
2	96022001.d09	122N9-E STD.	101.00
3	96022001.d10	PREP. BLANK	1.00
4	96022001.d11	S95T003704	51.00
5	96022001.d12	S95T003704 DUP	51.00
6	96022001.d13	S95T003705	51.00
7	96022001.d14	S95T003705 DUP	51.00

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

Sample Name: INST. BLANK Date: 02/19/1996 23:59:26
Data File : C:\DX\DATA\96021921.D08
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 8 Detector:CDM-2
Analyst : A Lankel Column: AG4A/AS4A anion column

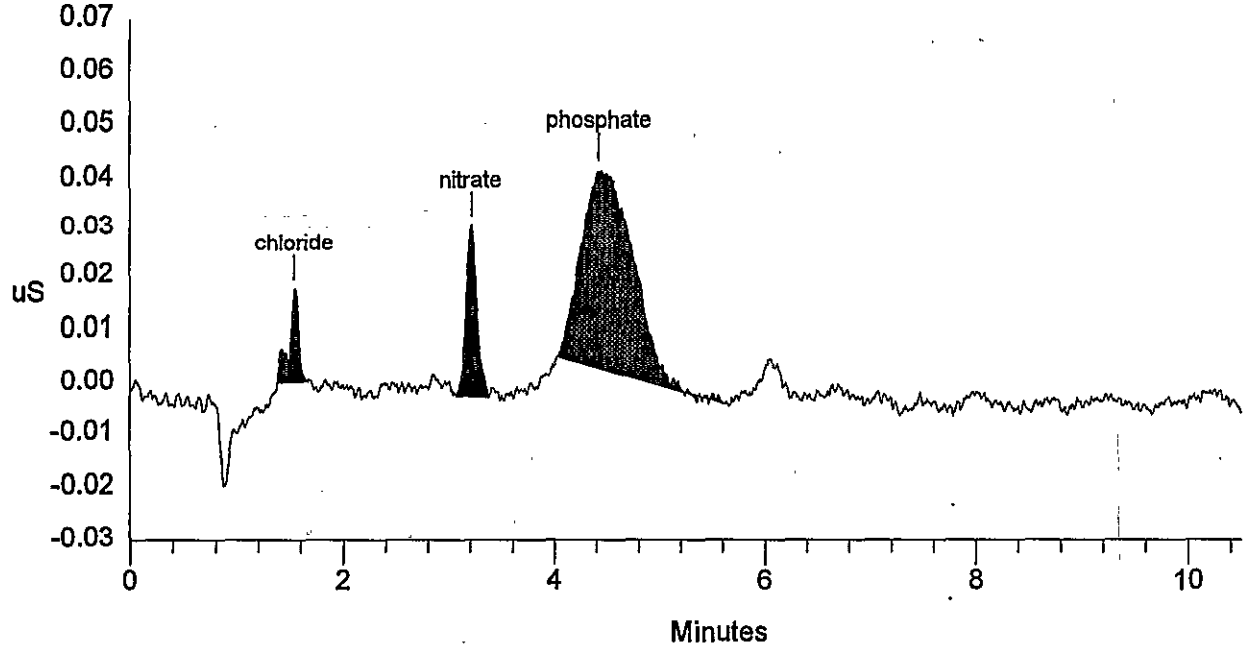
2-20-96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.55	chloride	0.018	17137	113438	1	-1.49
2	3.21	nitrate	0.251	33259	237396	1	2.01
3	4.43	phosphate	0.450	38566	1318180	1	-5.61
		Totals	0.719	88962	1669014		

File: 96021921.D08 Sample: INST. BLANK



Sample Name: 122N9-E STD. Date: 02/20/1996 00:11:27
Data File : C:\DX\DATA\96022001.D09
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 9 Detector:CDM-2
Analyst : A Lambert Column: AG4A/AS4A anion column

WHC-SD-WM-DP-164, REV. 1

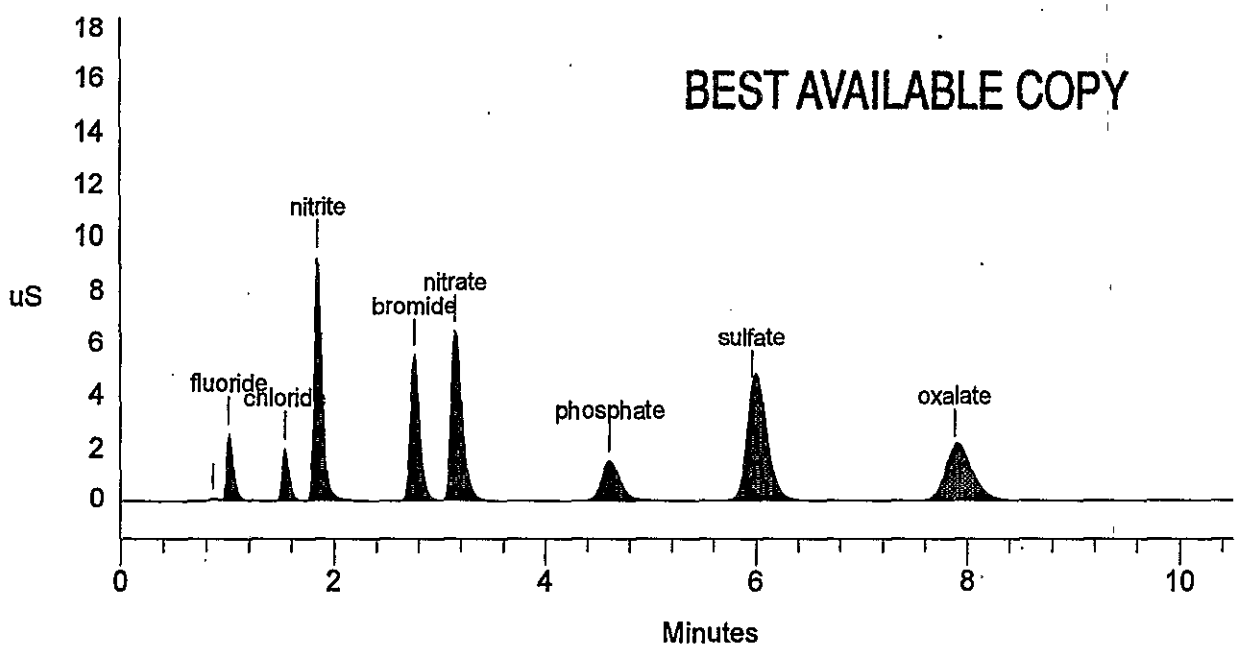
2-20-96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	71553	316872	2	
2	1.02	fluoride	54.681	2568350	11524522	2	0.99
3	1.55	chloride	71.819	2054825	9490042	1	-1.49
4	1.85	nitrite	498.022	9279537	47595722	1	-2.97
5	2.77	bromide	548.168	5582521	33998462	1	-1.89
6	3.15	nitrate	592.478	6489525	47594566	1	-0.11
7	4.61	phosphate	509.994	1606089	20212796	1	-1.63
8	5.97	sulfate	609.073	4360117	64039132	1	-3.50
9	7.89	oxalate	514.868	2149854	40522276	1	-2.67
		Totals	3399.103	34162371	275294390		

File: 96022001.D09 Sample: 122N9-E STD.



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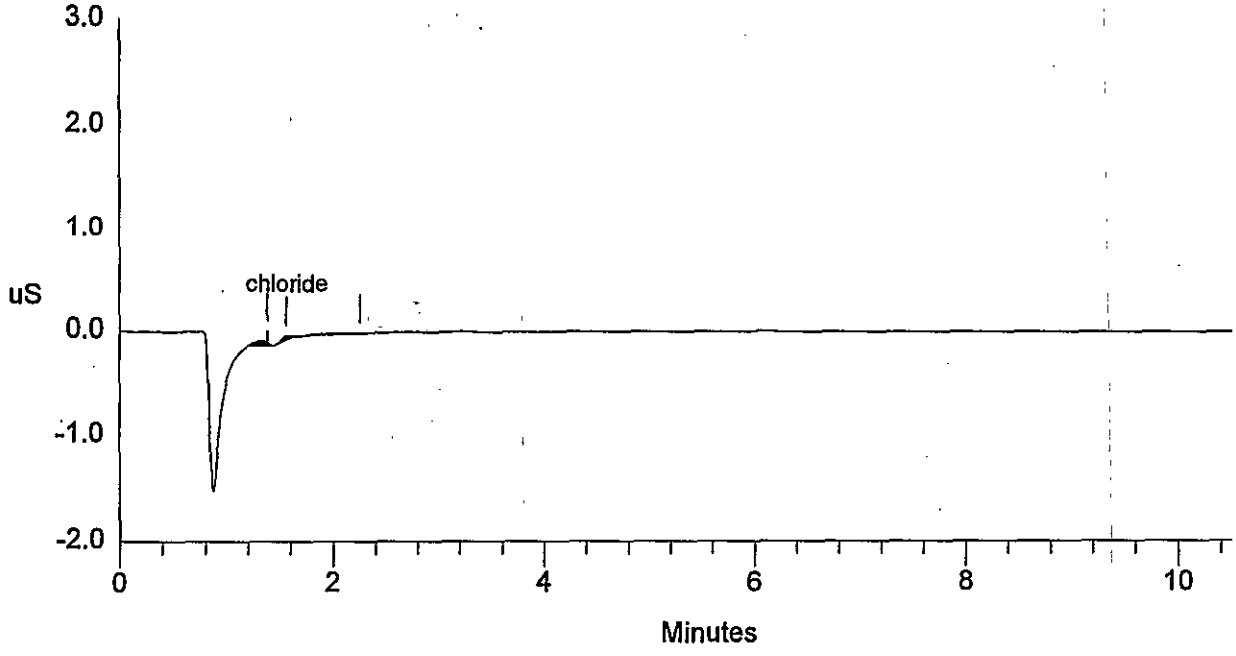
Sample Name: PREP. BLANK Date: 02/20/1996 00:24:41
Data File : C:\DX\DATA\96022001.D10
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 10 Detector:CDM-2
Analyst : A Lambert 2-20-96 Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	1.39		0.000	129690	363242	1	
2	1.57	chloride	0.023	37673	182432	1	-0.21
3	2.26		0.000	8464	321340	1	
		Totals	0.023	175828	867014		

File: 96022001.D10 Sample: PREP. BLANK



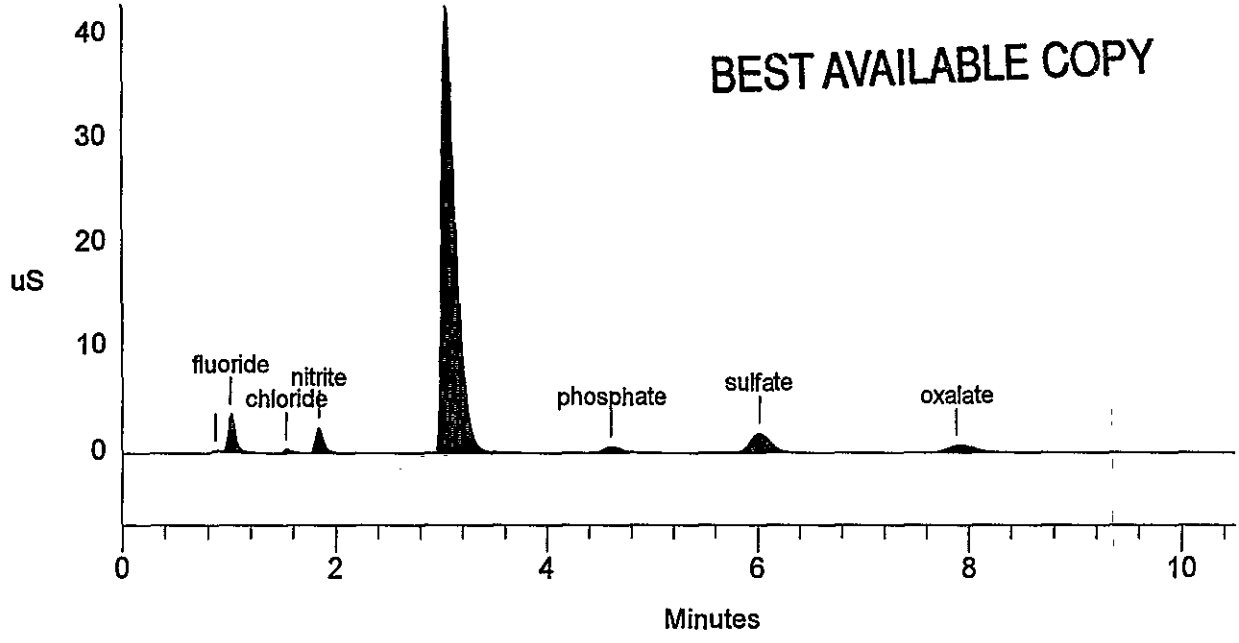
Sample Name: S95T003704 Date: 02/20/1996 00:37:30
Data File : C:\DX\DATA\96022001.D11 WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 11 Detector:CDM-2
Analyst [illegible] 2/6/96 Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	51	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	135946	559508	2	
2	1.02	fluoride	39.163	3531408	16515547	2	0.99
3	1.54	chloride	7.421	378292	1824312	1	-1.91
4	1.85	nitrite	72.866	2399607	12670058	1	-3.32
5	3.05	nitrate	2137.200	42785500	386563844	1	-3.28
6	4.61	phosphate	103.901	586811	7781218	1	-1.63
7	6.03	sulfate	127.080	1879522	25089468	1	-2.64
8	7.89	oxalate	85.139	681451	13073944	1	-2.67
		Totals	2572.769	52378537	464077899		

File: 96022001.D11 Sample: S95T003704



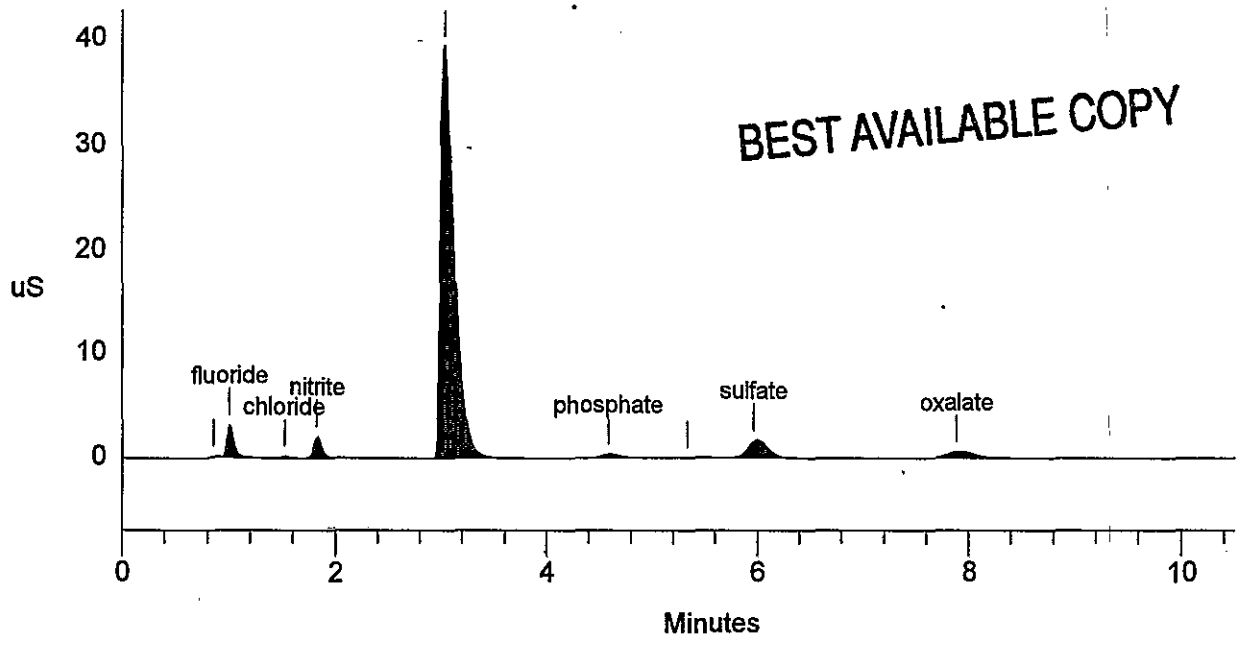
Sample Name: S95T003704 DUP Date: 02/20/1996 00:49:53
Data File : C:\DX\DATA\96022001.D12 WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 12 Detector:CDM-2
Analyst : [illegible] 3/6/96 Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	51	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	125333	518306	2	
2	1.01	fluoride	33.146	3073977	13914219	2	-0.33
3	1.52	chloride	4.541	221467	1064238	1	-3.18
4	1.83	nitrite	64.323	2052120	11003778	1	-4.36
5	3.03	nitrate	1989.822	39509016	356625242	1	-3.70
6	4.59	phosphate	61.408	358024	4382040	1	-2.20
7	5.33		0.000	61775	1562014	1	
8	5.97	sulfate	115.651	1656748	22648484	1	-3.50
9	7.89	oxalate	80.181	649510	12299338	1	-2.67
		Totals	2349.072	47707969	424017658		

File: 96022001.D12 Sample: S95T003704 DUP



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Sample Name: S95T003705 Date: 02/20/1996 01:02:00
Data File : C:\DX\DATA\96022001.D13
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 13 Detector: CDM-2
Analyst : [illegible] 3/6/96 Column: AG4A/AS4A anion column

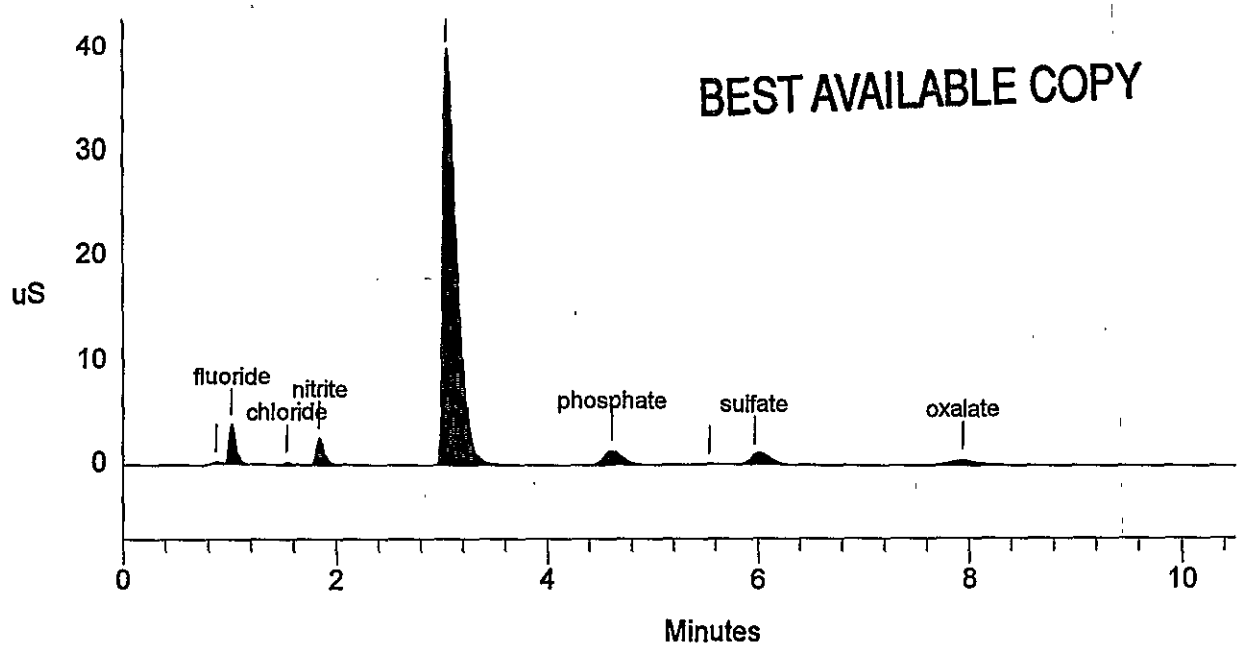
WHC-SD-WM-DP-164, REV. 1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	51	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	151816	674046	2	
2	1.02	fluoride	39.971	3674381	16865148	2	0.99
3	1.54	chloride	5.140	253969	1222158	1	-1.91
4	1.85	nitrite	74.611	2467051	13010568	1	-3.32
5	3.05	nitrate	2000.157	39828615	358705510	1	-3.28
6	4.61	phosphate	212.723	1335887	16563968	1	-1.63
7	5.55		0.000	29044	582290	1	
8	5.97	sulfate	66.688	874976	12224661	1	-3.50
9	7.95	oxalate	57.687	481778	8786962	1	-2.01
		Totals	2456.976	49097519	428635311		

File: 96022001.D13 Sample: S95T003705



Sample Name: S95T003705 DUP Date: 02/20/1996 01:14:31
Data File : C:\DX\DATA\96022001.D14
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 14 Detector:CDM-2
Analyst : Paul Smith 2/6/96 Column: AG4A/AS4A anion column

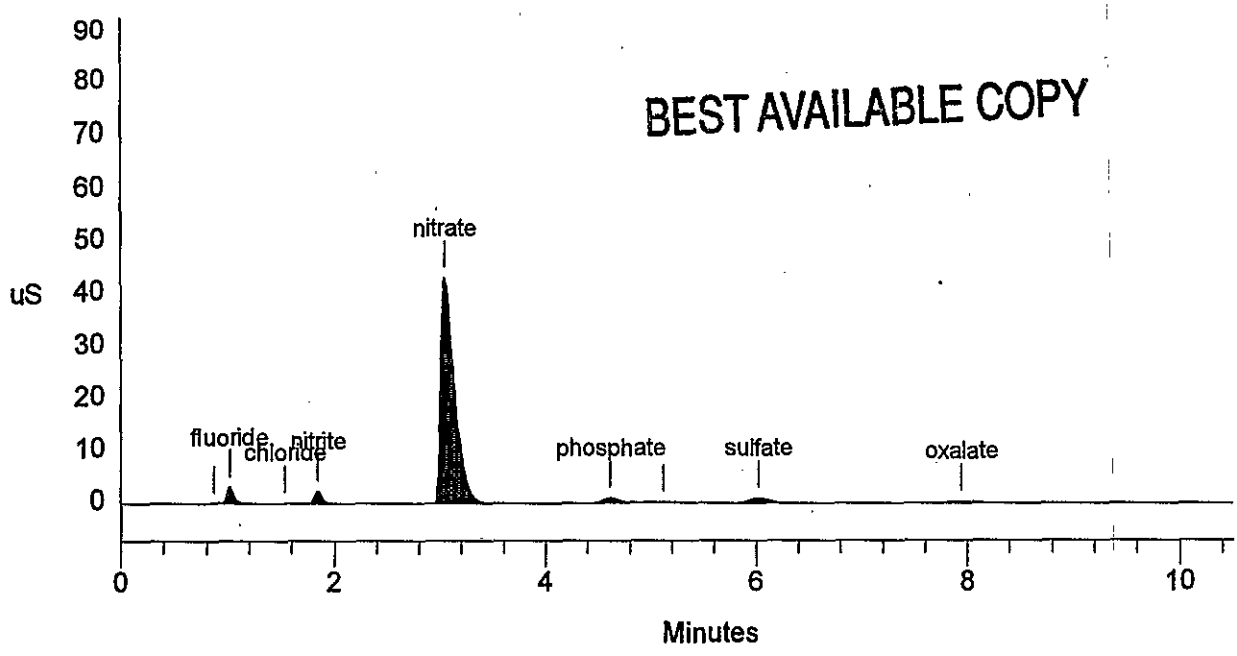
WHC-SD-WM-DP-164, REV. 1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	51	3150	5Hz	0.00	10.50		20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.87		0.000	141528	601344	2	
2	1.02	fluoride	33.634	3039672	14125401	2	0.99
3	1.54	chloride	5.049	246265	1198224	1	-1.91
4	1.85	nitrite	71.885	2393569	12478812	1	-3.32
5	3.05	nitrate	2179.157	43088639	395196542	1	-3.28
6	4.61	phosphate	141.581	958404	10809515	1	-1.63
7	5.12		0.000	159967	4438313	1	
8	6.03	sulfate	68.553	1014546	12620718	1	-2.64
9	7.95	oxalate	57.549	463318	8765562	1	-2.01
		Totals	2557.409	51505908	460234431		

File: 96022001.D14 Sample: S95T003705 DUP



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LABCORE Completed Worklist Report for Worklist# 5747

Analyst: krq **Instrument:** IC01 **Book#** 122N9E

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

Worklist Comment: BY104 AND BY106 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		1.97e-01	0.200	ug/mL
1	CCB			0	@IC-QC	BR	QC	1		<1.26e-1		ug/mL
1	CCB			0	@IC-QC	NO3	QC	1		<1.40e-1		ug/mL
1	CCB			0	@IC-QC	PO4	QC	1		<1.19e-1		ug/mL
1	CCB			0	@IC-QC	SO4	QC	1		<1.36e-1		ug/mL
1	CCB			0	@IC-QC	OXALATE2	QC	1		<1.05e-1		ug/mL
2	CCV			0	@IC-QC	F	QC	59		5.54e+01	93.900	% Recovery
2	CCV			0	@IC-QC	CL	QC	79		7.49e+01	94.810	% Recovery
2	CCV			0	@IC-QC	NO2	QC	534		5.14e+02	96.250	% Recovery
2	CCV			0	@IC-QC	BR	QC	575		5.63e+02	97.910	% Recovery
2	CCV			0	@IC-QC	NO3	QC	614		6.09e+02	99.190	% Recovery
2	CCV			0	@IC-QC	PO4	QC	546		5.28e+02	96.700	% Recovery
2	CCV			0	@IC-QC	SO4	QC	631		6.18e+02	97.940	% Recovery
2	CCV			0	@IC-QC	OXALATE2	QC	526		5.28e+02	100.380	% 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		3.30e-02	3.000e-002	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		2.77e-01	0.280	ug/g
3	BLNK-PREP			0	@IC-01	PO4-02	SOLID	1		<1.20e-1		ug/g
3	BLNK-PREP			0	@IC-01	SO4-02	SOLID	1		2.63e-01	0.260	ug/g
3	BLNK-PREP			0	@IC-01	OXALATE2	SOLID	1		<1.05e-1		ug/g
4	SAMPLE	S96T000381	W	0	@IC-01	F-02	SOLID	N/A		6.375e+03	6.024e-002	ug/g
4	SAMPLE	S96T000381	W	0	@IC-01	CL-02	SOLID	N/A		1.959e+03	7.876e-002	ug/g
4	SAMPLE	S96T000381	W	0	@IC-01	NO2-02	SOLID	N/A		2.335e+04	0.496	ug/g
4	SAMPLE	S96T000381	W	0	@IC-01	BR-02	SOLID	N/A	<	9.814e+02	0.584	ug/g
4	SAMPLE	S96T000381	W	0	@IC-01	NO3-02	SOLID	N/A		3.819e+05	0.648	ug/g
4	SAMPLE	S96T000381	W	0	@IC-01	PO4-02	SOLID	N/A		3.172e+03	0.555	ug/g
4	SAMPLE	S96T000381	W	0	@IC-01	SO4-02	SOLID	N/A		1.203e+04	0.630	ug/g
4	SAMPLE	S96T000381	W	0	@IC-01	OXALATE2	SOLID	N/A		1.095e+04	0.486	ug/g
5	DUP	S96T000381	W	0	@IC-01	F-02	SOLID	6.38e+03		9.23e+03	36.520	RPD
5	DUP	S96T000381	W	0	@IC-01	CL-02	SOLID	1.96e+03		2.46e+03	22.620	RPD
5	DUP	S96T000381	W	0	@IC-01	NO2-02	SOLID	2.34e+04		3.10e+04	27.940	RPD
5	DUP	S96T000381	W	0	@IC-01	BR-02	SOLID	<9.81e2		<1.00e3		RPD
5	DUP	S96T000381	W	0	@IC-01	NO3-02	SOLID	3.82e+05		4.58e+05	20.240	RPD
5	DUP	S96T000381	W	0	@IC-01	PO4-02	SOLID	3.17e+03		9.28e+03	98.150	RPD
5	DUP	S96T000381	W	0	@IC-01	SO4-02	SOLID	1.20e+04		1.42e+04	16.790	RPD
5	DUP	S96T000381	W	0	@IC-01	OXALATE2	SOLID	1.10e+04		1.33e+04	18.930	RPD
6	SPK	S96T000381	W	0	@IC-01	F-02	SOLID	59		5.96e+01	101.020	% Recovery

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

LABCORE Completed Worklist Report for Worklist# 5747

Seq	Type	Sample#	R	A	Test		Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S96T000381	0	W	@IC-01	CL-02	SOLID	79	6.64e+01	84.050	% Recovery
6	SPK	S96T000381	0	W	@IC-01	NO2-02	SOLID	534	5.25e+02	98.310	% Recovery
6	SPK	S96T000381	0	W	@IC-01	BR-02	SOLID	575	5.43e+02	94.430	% Recovery
6	SPK	S96T000381	0	W	@IC-01	NO3-02	SOLID	614	5.78e+02	94.140	% Recovery
6	SPK	S96T000381	0	W	@IC-01	PO4-02	SOLID	546	5.08e+02	93.040	% Recovery
6	SPK	S96T000381	0	W	@IC-01	SO4-02	SOLID	631	5.95e+02	94.290	% Recovery
6	SPK	S96T000381	0	W	@IC-01	OXALATE2	SOLID	526	5.23e+02	99.430	% Recovery
7	SAMPLE	S96T000373	0	W	@IC-01	F-02	SOLID	N/A	5.667e+03	6.261e-002	ug/g
7	SAMPLE	S96T000373	0	W	@IC-01	CL-02	SOLID	N/A	1.907e+03	8.185e-002	ug/g
7	SAMPLE	S96T000373	0	W	@IC-01	NO2-02	SOLID	N/A	2.957e+04	0.515	ug/g
7	SAMPLE	S96T000373	0	W	@IC-01	BR-02	SOLID	N/A <	1.020e+03	0.607	ug/g
7	SAMPLE	S96T000373	0	W	@IC-01	NO3-02	SOLID	N/A	2.311e+05	0.674	ug/g
7	SAMPLE	S96T000373	0	W	@IC-01	PO4-02	SOLID	N/A	7.631e+03	0.577	ug/g
7	SAMPLE	S96T000373	0	W	@IC-01	SO4-02	SOLID	N/A	2.242e+04	0.654	ug/g
7	SAMPLE	S96T000373	0	W	@IC-01	OXALATE2	SOLID	N/A	1.844e+04	0.506	ug/g
8	DUP	S96T000373	0	W	@IC-01	F-02	SOLID	5.67e+03	7.97e+03	33.720	RPD
8	DUP	S96T000373	0	W	@IC-01	CL-02	SOLID	1.91e+03	2.08e+03	8.520	RPD
8	DUP	S96T000373	0	W	@IC-01	NO2-02	SOLID	2.96e+04	3.20e+04	7.790	RPD
8	DUP	S96T000373	0	W	@IC-01	BR-02	SOLID	<1.02e3	<9.16e2		RPD
8	DUP	S96T000373	0	W	@IC-01	NO3-02	SOLID	2.31e+05	1.89e+05	20.000	RPD
8	DUP	S96T000373	0	W	@IC-01	PO4-02	SOLID	7.63e+03	2.21e+04	97.340	RPD
8	DUP	S96T000373	0	W	@IC-01	SO4-02	SOLID	2.24e+04	2.44e+04	8.550	RPD
8	DUP	S96T000373	0	W	@IC-01	OXALATE2	SOLID	1.84e+04	2.02e+04	9.330	RPD
9	SPK	S96T000373	0	W	@IC-01	F-02	SOLID	59	5.92e+01	100.340	% Recovery
9	SPK	S96T000373	0	W	@IC-01	CL-02	SOLID	79	7.19e+01	91.010	% Recovery
9	SPK	S96T000373	0	W	@IC-01	NO2-02	SOLID	534	5.02e+02	94.010	% Recovery
9	SPK	S96T000373	0	W	@IC-01	BR-02	SOLID	575	5.39e+02	93.740	% Recovery
9	SPK	S96T000373	0	W	@IC-01	NO3-02	SOLID	614	5.72e+02	93.160	% Recovery
9	SPK	S96T000373	0	W	@IC-01	PO4-02	SOLID	546	4.58e+02	83.880	% Recovery
9	SPK	S96T000373	0	W	@IC-01	SO4-02	SOLID	631	5.90e+02	93.500	% Recovery
9	SPK	S96T000373	0	W	@IC-01	OXALATE2	SOLID	526	5.09e+02	96.770	% Recovery

Comments Section:

Comments for sample# S96T000381 **and test** @IC-01 .
Dups poor probably inhomogeneous sample may need reprep.jmf

Comments for sample# S96T000373 **and test** @IC-01 .
F and PO4 dups are poor possible inhomogeneous sample.jmf

Final page for worklist# 5747

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

Jann Fuge 3/25/96

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

96022011.D10 → D22

LABCORE Data Entry Template for Worklist# 5747

Analyst: KRQ **Instrument:** IC01 **Book#** 122N9-E

Method: LA-533-105 Rev/Mod D-1 WHC-SD-WM-DP-164, REV.1

Worklist Comment: BY104 AND BY106 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	S96T000381	0	W	@IC-01	SOLID	95000229	BY-106
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
5	DUP	S96T000381	0	W	@IC-01	SOLID		
6	SPK	S96T000381	0	W	@IC-01	SOLID		
7	SAMPLE	S96T000373	0	W	@IC-01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
8	DUP	S96T000373	0	W	@IC-01	SOLID		
9	SPK	S96T000373	0	W	@IC-01	SOLID		

Final page for worklist # 5747

Analyst Signature Date 2/20/96 Analyst Signature Date

Exported
Inspected
Uploaded 3/25/96 Jamie Frye

Data Entry Comments:

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

Data Reprocessed On 03/25/1996 13:26:38

Sample Name: CCB Date: 02/20/1996 13:30:37
Data File : C:\DX\DATA\96022011.d12
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 12 Detector:CDM-2
Analyst : [illegible] Column: AG4A/AS4A anion column

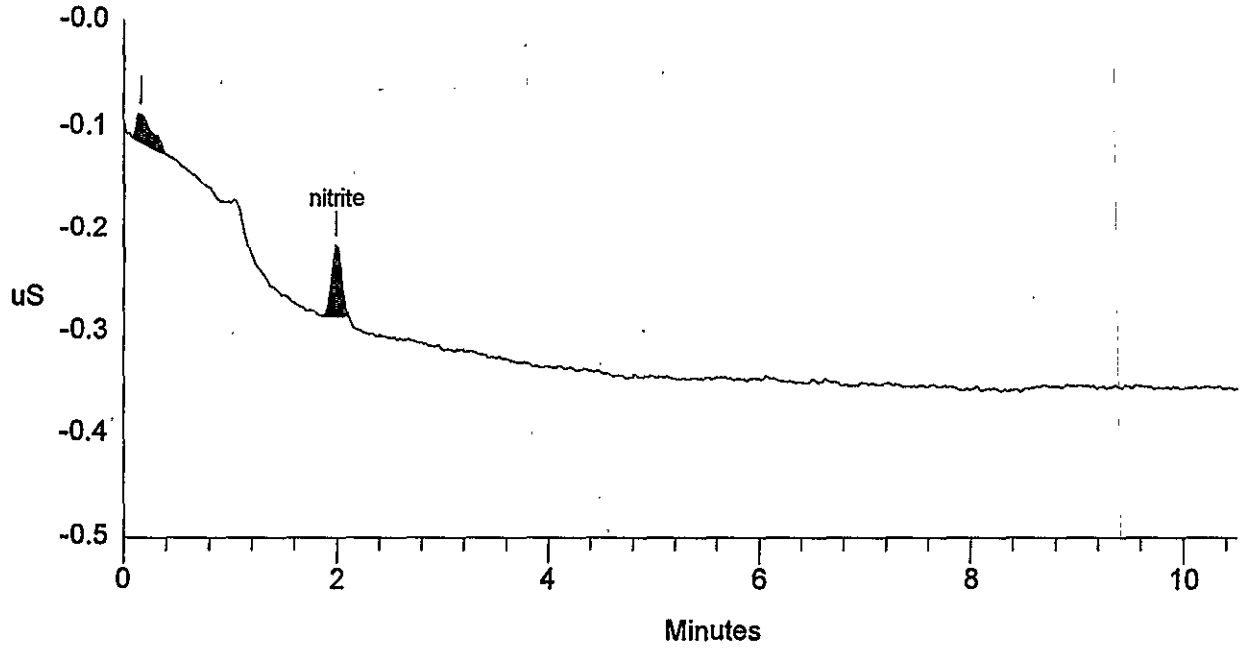
[illegible] Kathy Quirin 3/25/96

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.16		0.000	26614	286690	1	
2	1.99	nitrite	0.197	68708	430460	1	4.36
		Totals	0.197	95322	717150		

File: 96022011.d12 Sample: CCB



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 638 TO 645.

Data Reprocessed On 03/25/1996 13:26:36

Sample Name: CCB	Date: 02/20/1996 11:48:52
Data File : C:\DX\DATA\96022011.d10	
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 10	Detector: CDM-2
Analyst :	Column: AG4A/AS4A anion column

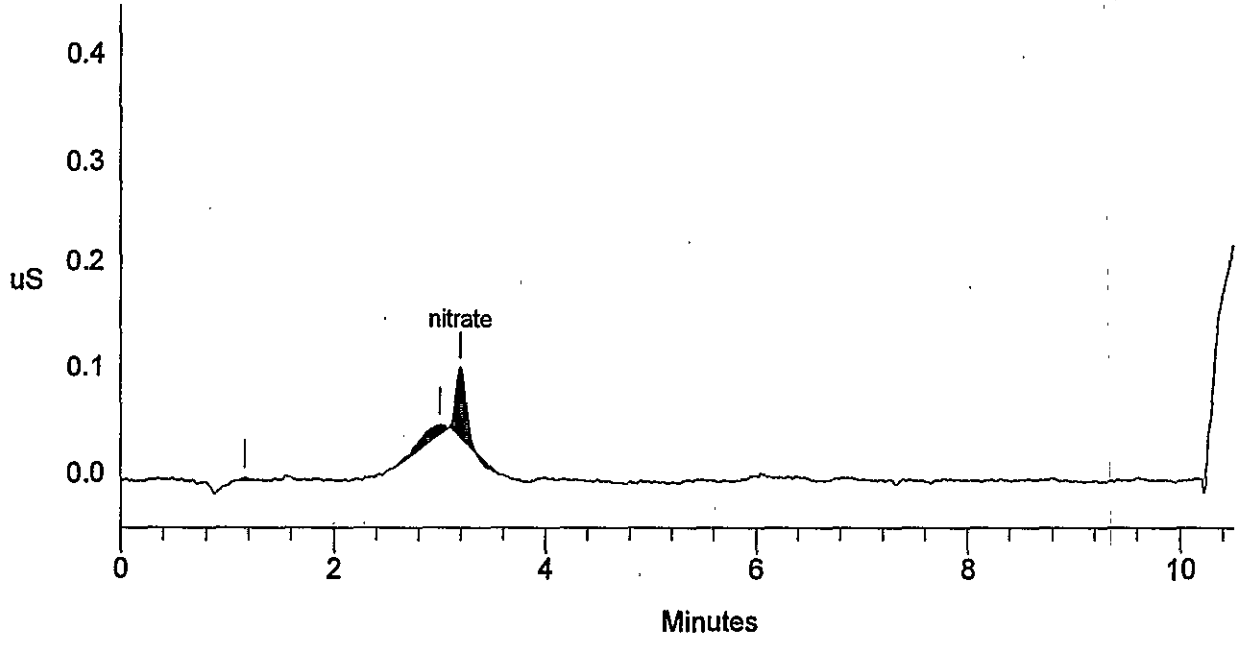
WHC-SD-WM-DP-164 REV. 1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	3.01		0.000	8128	177656	1	
3	3.19	nitrate	0.271	65405	402596	1	1.38
		Totals	0.271	73533	580252		

File: 96022011.d10 Sample: CCB



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Data Reprocessed On 03/25/1996 13:26:40

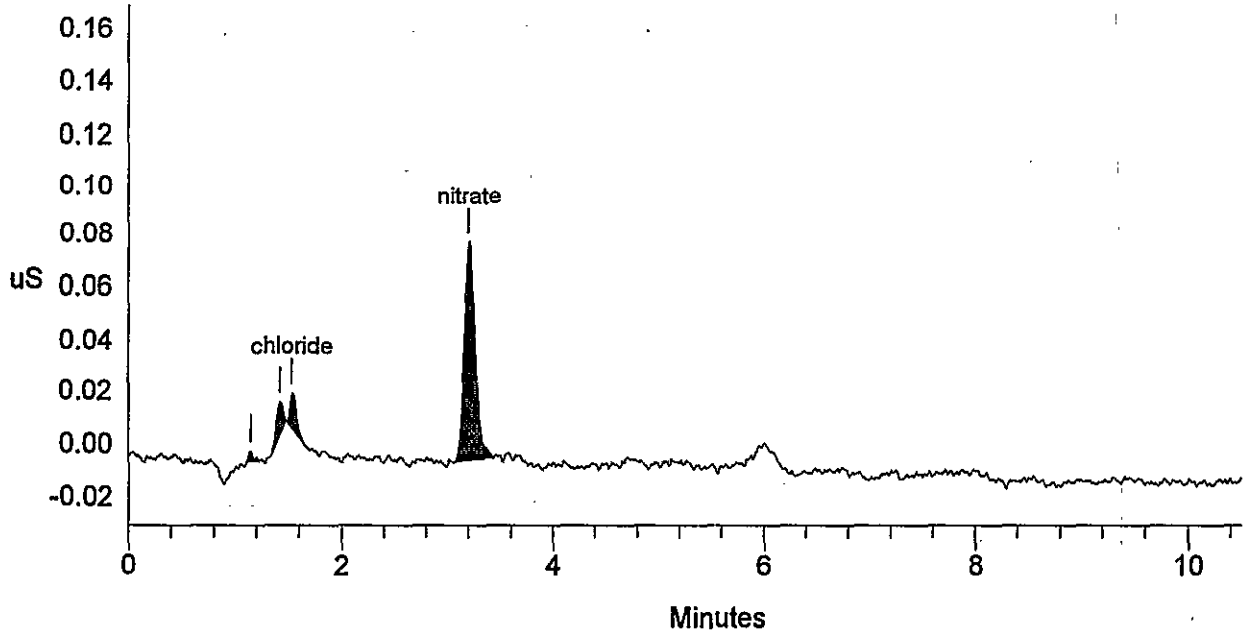
Sample Name: CCB	Date: 02/20/1996 13:43:47
Data File : C:\DX\DATA\96022011.d13	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 13	Detector:CDM-2
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	1	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	1.43		0.000	12182	55756	1	
3	1.53	chloride	0.014	12992	55380	1	-2.34
4	3.20	nitrate	0.293	82397	588820	1	1.59
		Totals	0.307	107571	699956		

File: 96022011.d13 Sample: CCB



Data Reprocessed On 03/25/1996 13:26:42

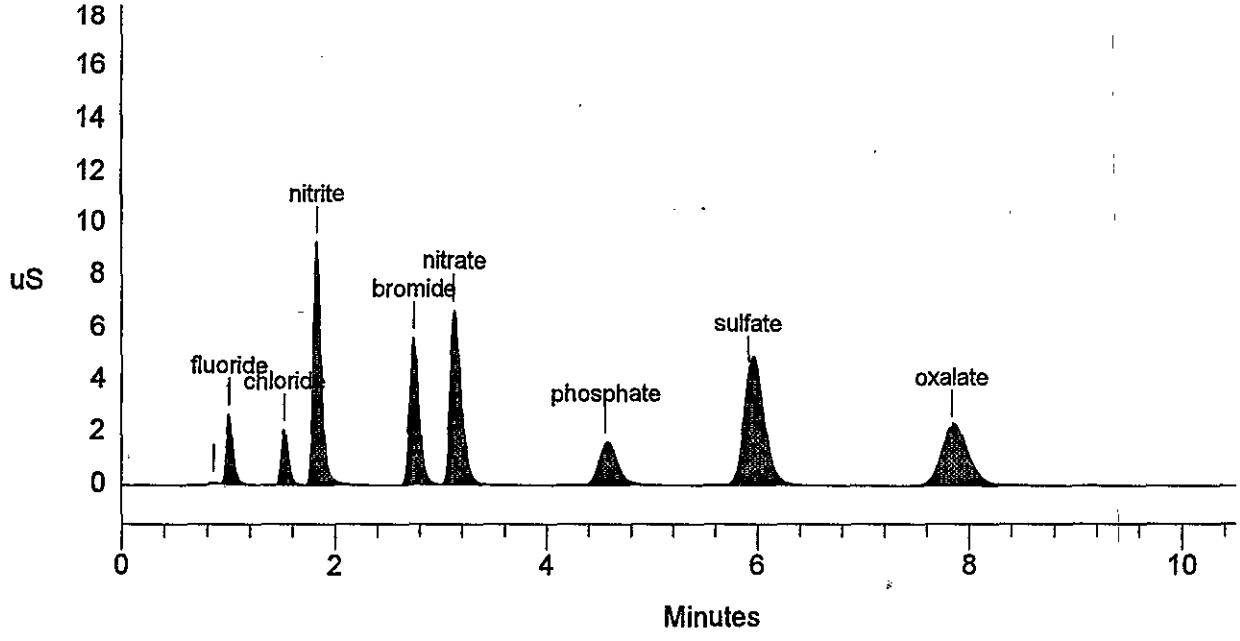
Sample Name: CCV 122N9-E	Date: 02/20/1996 13:56:41
Data File : C:\DX\DATA\96022011.d14	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 14	Detector:CDM-2
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	101	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	79298	328453	2	
2	1.01	fluoride	55.389	2637294	11678640	2	-0.33
3	1.53	chloride	74.880	2074877	9903572	1	-2.76
4	1.83	nitrite	513.853	9265410	49162750	1	-4.01
5	2.75	bromide	562.628	5617444	34940254	1	-2.60
6	3.13	nitrate	608.835	6661467	48978532	1	-0.74
7	4.56	phosphate	527.891	1603932	20951254	1	-2.77
8	5.92	sulfate	617.795	4318377	64999346	1	-4.36
9	7.84	oxalate	527.583	2244950	41535074	1	-3.33
		Totals	3488.855	34503049	282477875		

File: 96022011.d14 Sample: CCV 122N9-E



Data Reprocessed On 03/25/1996 13:26:59

Sample Name: PREP BLANK
Data File : C:\DX\DATA\96022011.d22
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 22 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

Date: 02/20/1996 17:17:10

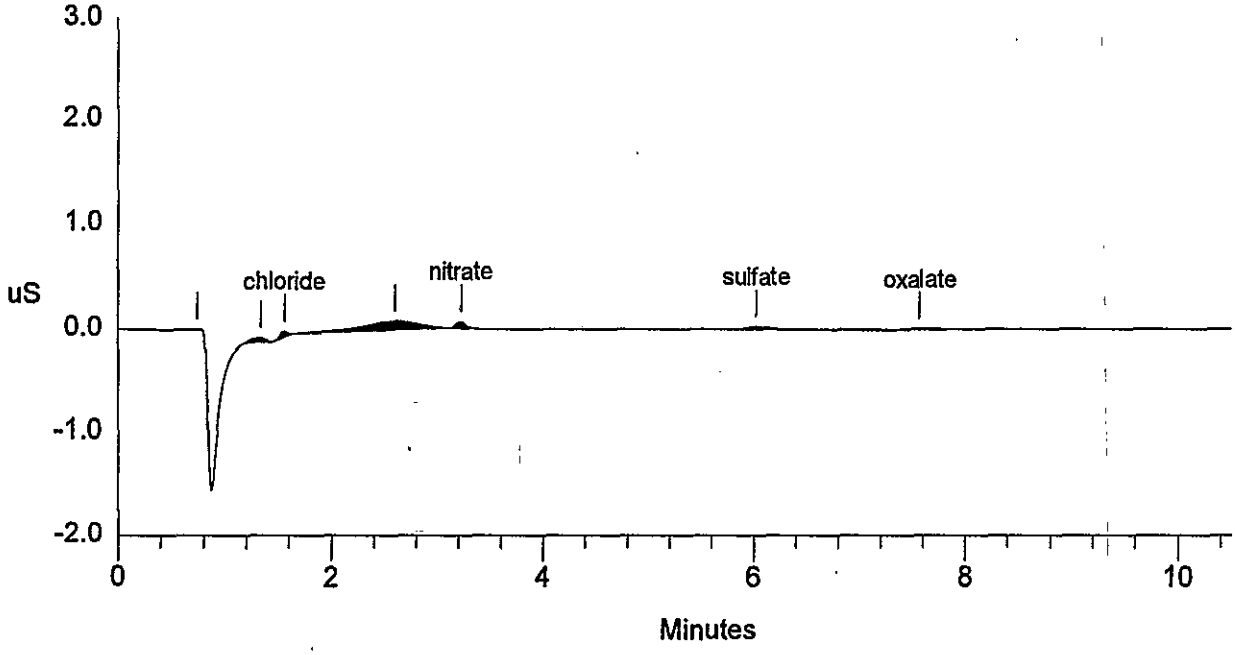
WHC-SD-WM-DP-164, REV. 1

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	3150	5Hz	0.00	10.50	20000	

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.74		0.000	15481	120120	1	
2	1.34		0.000	46419	405462	1	
3	1.56	chloride	0.033	62586	305019	1	-0.64
4	2.60		0.000	89975	3373656	1	
5	3.23	nitrate	0.277	68542	457114	1	2.43
6	6.03	sulfate	0.263	32496	946220	1	-2.64
7	7.57	oxalate	0.093	12529	540156	1	-6.62
		Totals	0.667	328027	6147747		

File: 96022011.d22 Sample: PREP BLANK



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Data Reprocessed On 03/25/1996 13:26:52

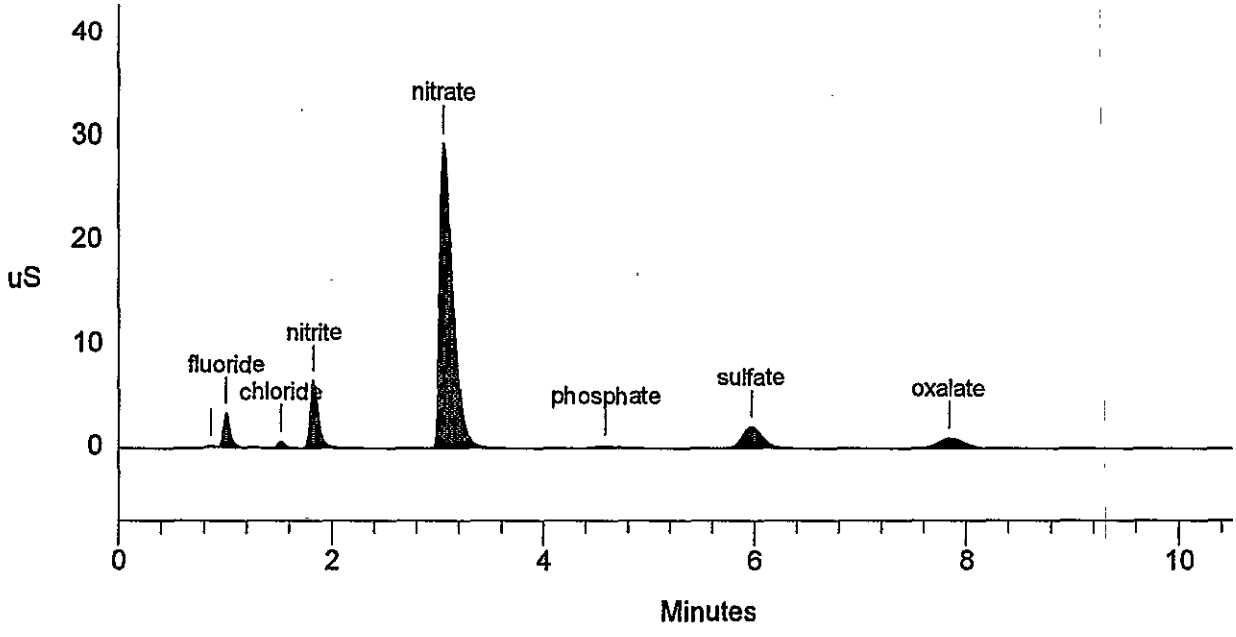
Sample Name: S96T000373 Date: 02/20/1996 16:36:14
Data File : C:\DX\DATA\96022011.d19
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 19 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	175690	780807	2	
2	1.01	fluoride	28.705	3281381	15020710	2	-0.33
3	1.52	chloride	9.660	641989	3039106	1	-3.18
4	1.83	nitrite	149.699	6517815	34814274	1	-4.36
5	3.05	nitrate	1170.682	29428299	252789938	1	-3.07
6	4.59	phosphate	38.651	249929	3319194	1	-2.20
7	5.97	sulfate	113.561	2103402	28121888	1	-3.50
8	7.84	oxalate	93.416	975710	17931942	1	-3.33
		Totals	1604.375	43374215	355817859		

File: 96022011.d19 Sample: S96T000373



Data Reprocessed On 03/25/1996 13:26:54

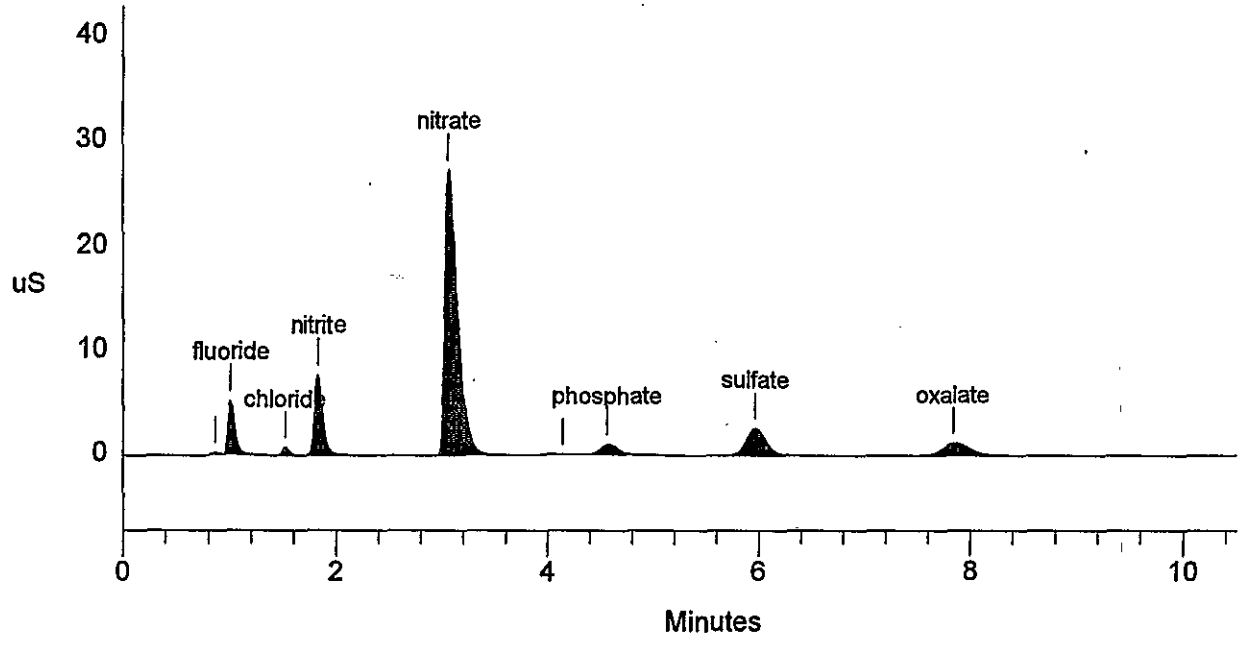
Sample Name: S96T000373 DUP Date: 02/20/1996 16:49:42
Data File : C:\DX\DATA\96022011.d20
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 20 Detector:CDM-2
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
1	0.86		0.000	181033	759418	2	
2	1.01	fluoride	44.966	5213066	23781912	2	-0.33
3	1.52	chloride	11.752	749758	3728080	1	-3.18
4	1.83	nitrite	180.816	7775645	42391798	1	-4.36
5	3.06	nitrate	1068.163	27260384	228933534	1	-2.86
6	4.14		0.000	29897	648728	1	
7	4.56	phosphate	124.695	995727	11900050	1	-2.77
8	5.97	sulfate	137.612	2646873	34535542	1	-3.50
9	7.84	oxalate	113.927	1199663	21928224	1	-3.33
		Totals	1681.932	46052047	368607286		

File: 96022011.d20 Sample: S96T000373 DUP



Data Reprocessed On 03/25/1996 13:26:57

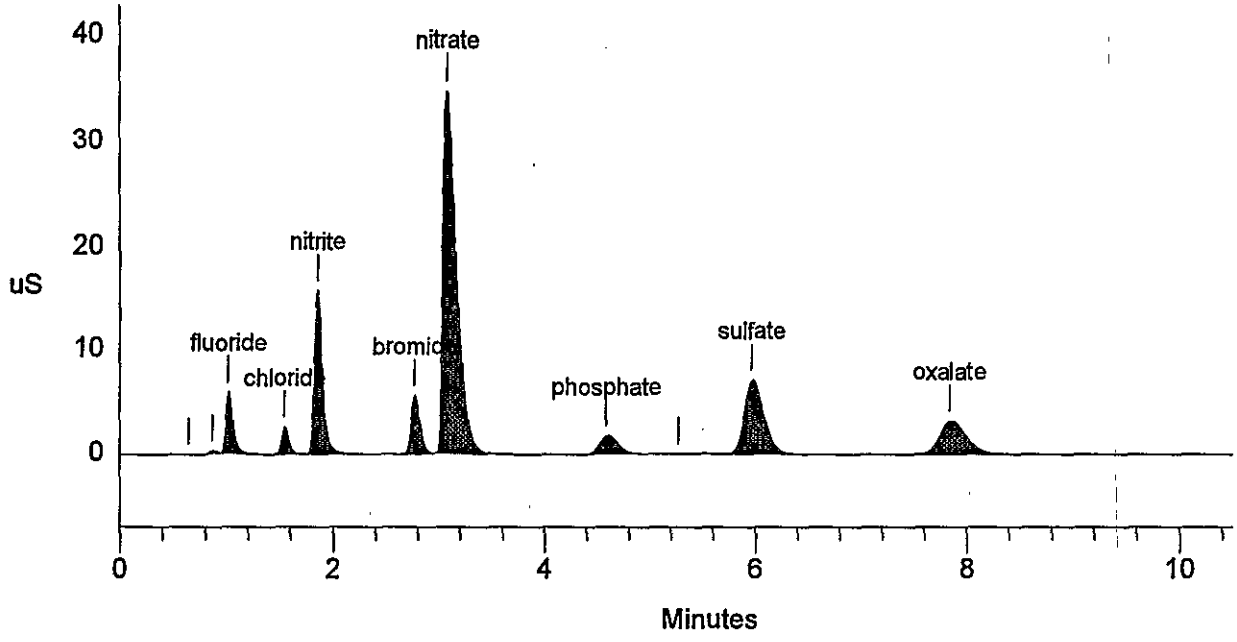
Sample Name: S96T000373 SPIKE	Date: 02/20/1996 17:02:01
Data File : C:\DX\DATA\96022011.d21	WHC-SD-WM-DP-164, REV. I
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 21	Detector:CDM-2
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	3150	5Hz	0.00	10.50	20000

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

Pk. Num	Ret Time	Component Name	Concentration ug/ml	Height	Area	Bl. Code	%Delta
2	0.87		0.000	233098	1052675	2	
3	1.02	fluoride	52.382	5905791	27789637	2	0.99
4	1.55	chloride	38.431	2649157	12584486	1	-1.49
5	1.86	nitrite	350.356	15873873	83817246	1	-2.62
6	2.77	bromide	215.701	5611355	32904882	1	-1.65
7	3.08	nitrate	1399.673	34889558	307371588	1	-2.22
8	4.59	phosphate	222.020	1746363	21737624	1	-2.20
9	5.28		0.000	53675	1264874	1	
10	5.97	sulfate	349.560	7132380	91979830	1	-3.50
11	7.84	oxalate	297.119	3256570	57857972	1	-3.33
		Totals	2925.242	77351820	638360814		

File: 96022011.d21 Sample: S96T000373 SPIKE



LABCORE Completed Worklist Report for Worklist# 6165

Analyst: smf **Instrument:** IC01 **Book#** 133N94

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

Worklist Comment: Rerun BY-104 for poor dup and spike, use 41 DF. JMF

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit
1	CCB			0	@IC-QC F	QC	1	<1.30e-2		ug/mL
1	CCB			0	@IC-QC CL	QC	1	<1.70e-2		ug/mL
1	CCB			0	@IC-QC NO2	QC	1	<1.07e-1		ug/mL
1	CCB			0	@IC-QC BR	QC	1	<1.26e-1		ug/mL
1	CCB			0	@IC-QC NO3	QC	1	<1.40e-1		ug/mL
1	CCB			0	@IC-QC PO4	QC	1	<1.19e-1		ug/mL
1	CCB			0	@IC-QC SO4	QC	1	<1.36e-1		ug/mL
1	CCB			0	@IC-QC OXALATE2	QC	1	<1.05e-1		ug/mL
2	CCV			0	@IC-QC F	QC	59	5.94e+01	100.680	% Recovery
2	CCV			0	@IC-QC CL	QC	79	7.56e+01	95.700	% Recovery
2	CCV			0	@IC-QC NO2	QC	537	5.45e+02	101.490	% Recovery
2	CCV			0	@IC-QC BR	QC	575	5.75e+02	100.000	% Recovery
2	CCV			0	@IC-QC NO3	QC	614	6.13e+02	99.840	% Recovery
2	CCV			0	@IC-QC PO4	QC	546	5.38e+02	98.530	% Recovery
2	CCV			0	@IC-QC SO4	QC	631	6.30e+02	99.840	% Recovery
2	CCV			0	@IC-QC OXALATE2	QC	509	5.28e+02	103.730	% 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	<1.20e-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	S95T003534	0	W	@IC-01 F-02	SOLID	N/A	1.484e+04	94.340	ug/g
4	SAMPLE	S95T003534	0	W	@IC-01 CL-02	SOLID	N/A	2.247e+03	123.400	ug/g
4	SAMPLE	S95T003534	0	W	@IC-01 NO2-02	SOLID	N/A	3.412e+04	776.500	ug/g
4	SAMPLE	S95T003534	0	W	@IC-01 BR-02	SOLID	N/A <	9.143e+02	914.300	ug/g
4	SAMPLE	S95T003534	0	W	@IC-01 NO3-02	SOLID	N/A	7.787e+04	1.015e+003	ug/g
4	SAMPLE	S95T003534	0	W	@IC-01 PO4-02	SOLID	N/A	1.728e+04	870.100	ug/g
4	SAMPLE	S95T003534	0	W	@IC-01 SO4-02	SOLID	N/A	5.462e+04	986.200	ug/g
4	SAMPLE	S95T003534	0	W	@IC-01 OXALATE2	SOLID	N/A	6.095e+04	761.900	ug/g
5	DUP	S95T003534	0	W	@IC-01 F-02	SOLID	1.48e+04	1.34e+04	9.930	RPD
5	DUP	S95T003534	0	W	@IC-01 CL-02	SOLID	2.25e+03	1.83e+03	20.590	RPD
5	DUP	S95T003534	0	W	@IC-01 NO2-02	SOLID	3.41e+04	2.73e+04	22.150	RPD
5	DUP	S95T003534	0	W	@IC-01 BR-02	SOLID	<9.14e2	<8.77e2		RPD
5	DUP	S95T003534	0	W	@IC-01 NO3-02	SOLID	7.79e+04	5.53e+04	33.930	RPD
5	DUP	S95T003534	0	W	@IC-01 PO4-02	SOLID	1.73e+04	2.95e+04	52.140	RPD
5	DUP	S95T003534	0	W	@IC-01 SO4-02	SOLID	5.46e+04	3.96e+04	31.850	RPD
5	DUP	S95T003534	0	W	@IC-01 OXALATE2	SOLID	6.10e+04	5.01e+04	19.620	RPD
6	SPK	S95T003534	0	W	@IC-01 F-02	SOLID	59	52.922	89.700	% Recovery

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

LABCORE Completed Worklist Report for Worklist# 6165

Seq	Type	Sample#	R	A	Test		Matrix	Actual	Found	DL or Yield	Unit
6	SPK	S95T003534	0	W	@IC-01	CL-02	SOLID	79	72.763	92.110	% Recovery
6	SPK	S95T003534	0	W	@IC-01	NO2-02	SOLID	537	578.092	107.650	% Recovery
6	SPK	S95T003534	0	W	@IC-01	BR-02	SOLID	575	570.000	99.130	% Recovery
6	SPK	S95T003534	0	W	@IC-01	NO3-02	SOLID	614	610.100	99.360	% Recovery
6	SPK	S95T003534	0	W	@IC-01	PO4-02	SOLID	546	510.913	93.570	% Recovery
6	SPK	S95T003534	0	W	@IC-01	SO4-02	SOLID	631	598.455	94.840	% Recovery
6	SPK	S95T003534	0	W	@IC-01	OXALATE2	SOLID	509	506.645	99.540	% Recovery
7	BLNK-PREP		0		@IC-01	F-02	SOLID	1	<1.30e-2		ug/g
7	BLNK-PREP		0		@IC-01	CL-02	SOLID	1	<1.70e-2		ug/g
7	BLNK-PREP		0		@IC-01	NO2-02	SOLID	1	<1.07e-1		ug/g
7	BLNK-PREP		0		@IC-01	BR-02	SOLID	1	<1.26e-1		ug/g
7	BLNK-PREP		0		@IC-01	NO3-02	SOLID	1	1.94e+00	1.940	ug/g
7	BLNK-PREP		0		@IC-01	PO4-02	SOLID	1	<1.20e-1		ug/g
7	BLNK-PREP		0		@IC-01	SO4-02	SOLID	1	<1.36e-1		ug/g
7	BLNK-PREP		0		@IC-01	OXALATE2	SOLID	1	<1.05e-1		ug/g
8	SAMPLE	S95T003690	0	W	@IC-01	F-02	SOLID	N/A	5.420e+03	99.920	ug/g
8	SAMPLE	S95T003690	0	W	@IC-01	CL-02	SOLID	N/A	3.059e+03	139.700	ug/g
8	SAMPLE	S95T003690	0	W	@IC-01	NO2-02	SOLID	N/A	4.928e+04	822.500	ug/g
8	SAMPLE	S95T003690	0	W	@IC-01	BR-02	SOLID	N/A <	9.685e+02	968.500	ug/g
8	SAMPLE	S95T003690	0	W	@IC-01	NO3-02	SOLID	N/A	2.407e+05	1.075e+003	ug/g
8	SAMPLE	S95T003690	0	W	@IC-01	PO4-02	SOLID	N/A	6.039e+03	921.600	ug/g
8	SAMPLE	S95T003690	0	W	@IC-01	SO4-02	SOLID	N/A	2.332e+04	1.045e+003	ug/g
8	SAMPLE	S95T003690	0	W	@IC-01	OXALATE2	SOLID	N/A	1.509e+04	807.100	ug/g
9	DUP	S95T003690	0	W	@IC-01	F-02	SOLID	5.42e+03	5.24e+03	3.380	RPD
9	DUP	S95T003690	0	W	@IC-01	CL-02	SOLID	3.06e+03	2.89e+03	5.710	RPD
9	DUP	S95T003690	0	W	@IC-01	NO2-02	SOLID	4.93e+04	4.82e+04	2.260	RPD
9	DUP	S95T003690	0	W	@IC-01	BR-02	SOLID	<9.68e2	<9.87e2		RPD
9	DUP	S95T003690	0	W	@IC-01	NO3-02	SOLID	2.41e+05	2.31e+05	4.240	RPD
9	DUP	S95T003690	0	W	@IC-01	PO4-02	SOLID	6.04e+03	6.04e+03	0.000	RPD
9	DUP	S95T003690	0	W	@IC-01	SO4-02	SOLID	2.33e+04	2.20e+04	5.740	RPD
9	DUP	S95T003690	0	W	@IC-01	OXALATE2	SOLID	1.51e+04	1.79e+04	16.970	RPD
10	SPK	S95T003690	0	W	@IC-01	F-02	SOLID	59	57.222	96.990	% Recovery
10	SPK	S95T003690	0	W	@IC-01	CL-02	SOLID	79	75.462	95.520	% Recovery
10	SPK	S95T003690	0	W	@IC-01	NO2-02	SOLID	537	600.315	111.790	% Recovery
10	SPK	S95T003690	0	W	@IC-01	BR-02	SOLID	575	557.500	96.960	% Recovery
10	SPK	S95T003690	0	W	@IC-01	NO3-02	SOLID	614	540.225	87.980	% Recovery
10	SPK	S95T003690	0	W	@IC-01	PO4-02	SOLID	546	491.972	90.100	% Recovery
10	SPK	S95T003690	0	W	@IC-01	SO4-02	SOLID	631	621.493	98.490	% Recovery
10	SPK	S95T003690	0	W	@IC-01	OXALATE2	SOLID	509	523.967	102.940	% Recovery

Final page for worklist# 6165

Analyst Signature Date

Analyst Signature Date

Reviewer Signature Date 4/2/96

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

9603092U.002 → U/U

LABCORE Data Entry Template for Worklist# 6165

Analyst: SMF **Instrument:** IC01 _____ **Book#** 13309-A

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

Worklist Comment: Rerun BY-104 for poor dup and spike, use 41 DF. JMF

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	S95T003534	0	W	@IC-01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
5	DUP	S95T003534	0	W	@IC-01	SOLID		
6	SPK	S95T003534	0	W	@IC-01	SOLID		
7	BLNK-PREP				@IC-01	SOLID		
8	SAMPLE	S95T003690	0	W	@IC-01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				BR-02 , CL-02 , F-02 , NO2-02 , NO3-02 , OXALATE2, PO4-02 , SO4-02			
9	DUP	S95T003690	0	W	@IC-01	SOLID		
10	SPK	S95T003690	0	W	@IC-01	SOLID		

Final page for worklist # 6165

Susie M. Fulton 3-9-96

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

Exported
Inshelf
Uploaded 3/13/96 N Smith

Data Entry Comments:

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

A-0010-IC DATA FILE/WORKLIST RESOLUTION 13-Mar-96

Worklist#: 6165

	Seq	Type	Sample #
=>	1	CCB	
=>	2	CCV	
=>	3	BLNK-PREP	
=>	4	SAMPLE	S95T003534
=>	5	DUP	S95T003534
=>	6	SPK	S95T003534
=>	7	BLNK-PREP	
=>	8	SAMPLE	S95T003690
=>	9	DUP	S95T003690
=>	10	SPK	S95T003690

Data File: 6165MAR.CSV

Seq#	Data File	Sample Name	Dilution
1	96030921.d01	ELUENT BLANK	1.00
2	96030921.d02	LMCS STD 133N9-	101.00
3	96030921.d03	PREP BLANK	1.00
4	96030921.d04	S95T003534	41.00
5	96030921.d05	S95T003534 DUP	41.00
6	96030921.d06	S95T003534 SPK	41.00
7	96030921.d07	PREP BLANK	1.00
8	96030921.d08	S95T003690	41.00
9	96030921.d09	S95T003690 DUP	41.00
10	96030921.d10	S95T003690 SPK	41.00

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

Data Reprocessed On 03/13/1996 11:12:04

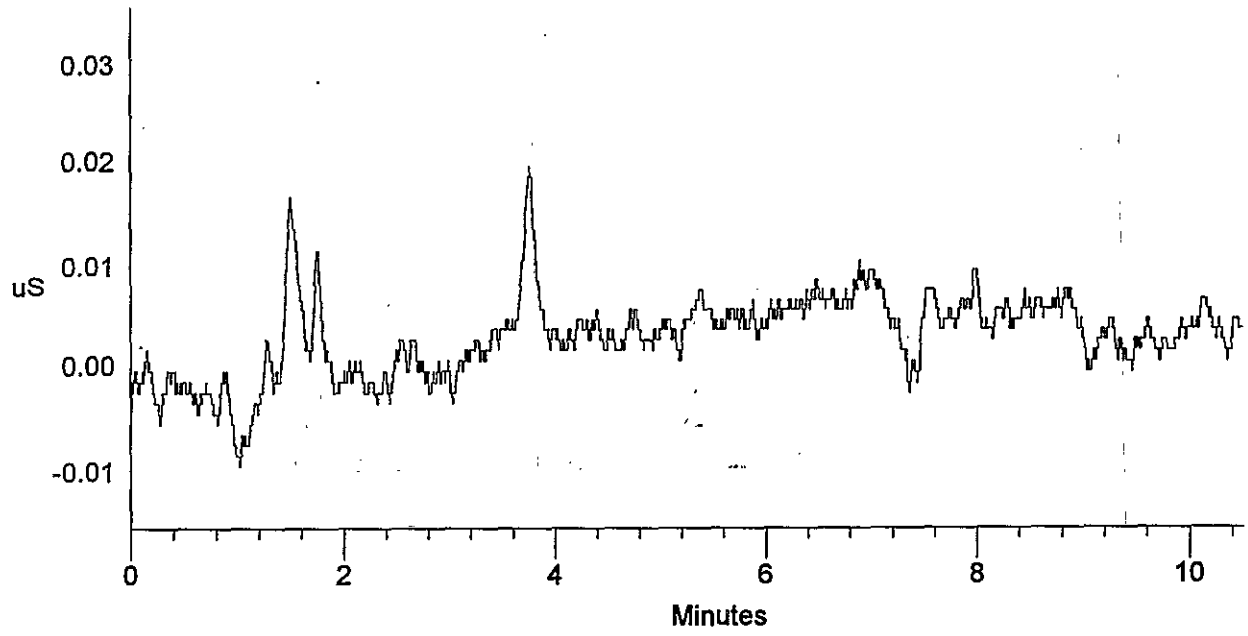
Sample Name: ELUENT BLANK Date: 03/09/1996 07:07:48
Data File : C:\DX\DATA\96030921.d01 WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 1 Detector:CDM-1
Analyst : Jane Fuge 5/7/96 Column: AG4A/AS4A anion column

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
		Totals	0.000	0	0		

File: 96030921.d01 Sample: ELUENT BLANK



SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 650 TO 659.

Data Reprocessed On 03/13/1996 11:12:09

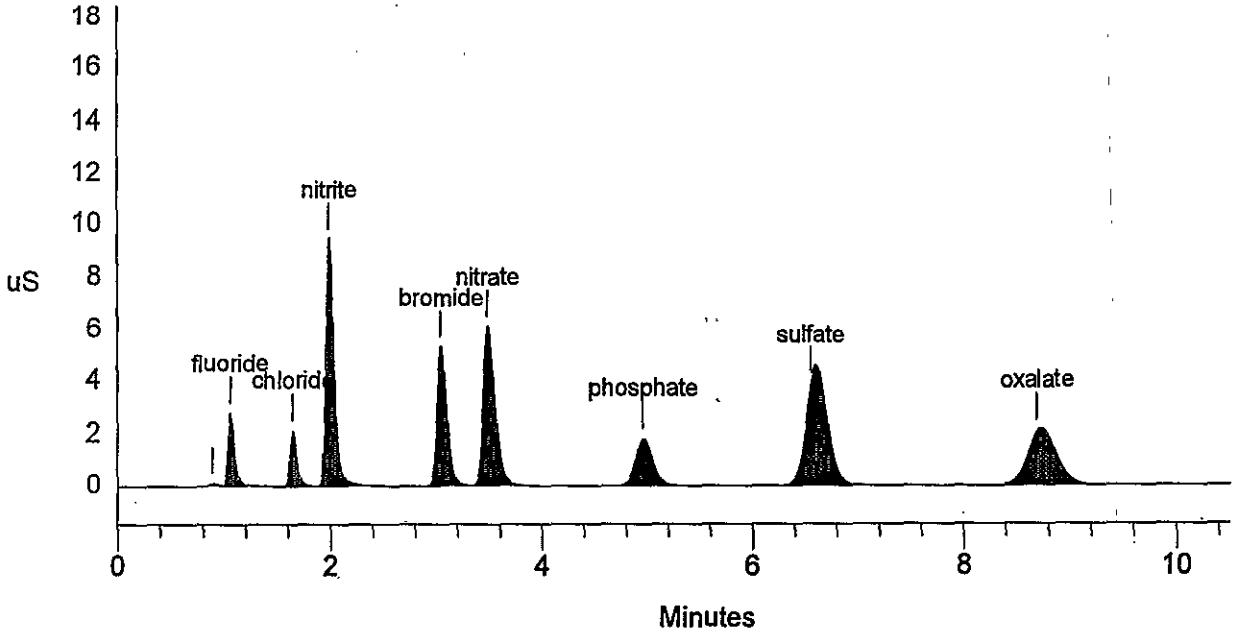
Sample Name: LMCS STD 133N9-A Date: 03/09/1996 07:22:13
Data File : C:\DX\DATA\96030921.d02 WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET
ACI Address: 1 System: 1 Inject#: 2 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	101	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	0.89		0.000	94	438	2	
2	1.06	fluoride	59.443	2746	11983	2	3.92
3	1.65	chloride	75.564	2123	9795	1	2.92
4	1.99	nitrite	545.118	9441	49702	1	2.22
5	3.05	bromide	574.787	5336	34882	1	-0.76
6	3.49	nitrate	612.882	6106	47769	1	-0.38
7	4.96	phosphate	537.561	1840	21885	1	4.42
8	6.56	sulfate	629.862	3895	64558	1	4.29
9	8.69	oxalate	528.354	2134	42585	1	5.84
		Totals	3563.571	33714	283597		

File: 96030921.d02 Sample: LMCS STD 133N9-A



Data Reprocessed On 03/13/1996 11:12:12

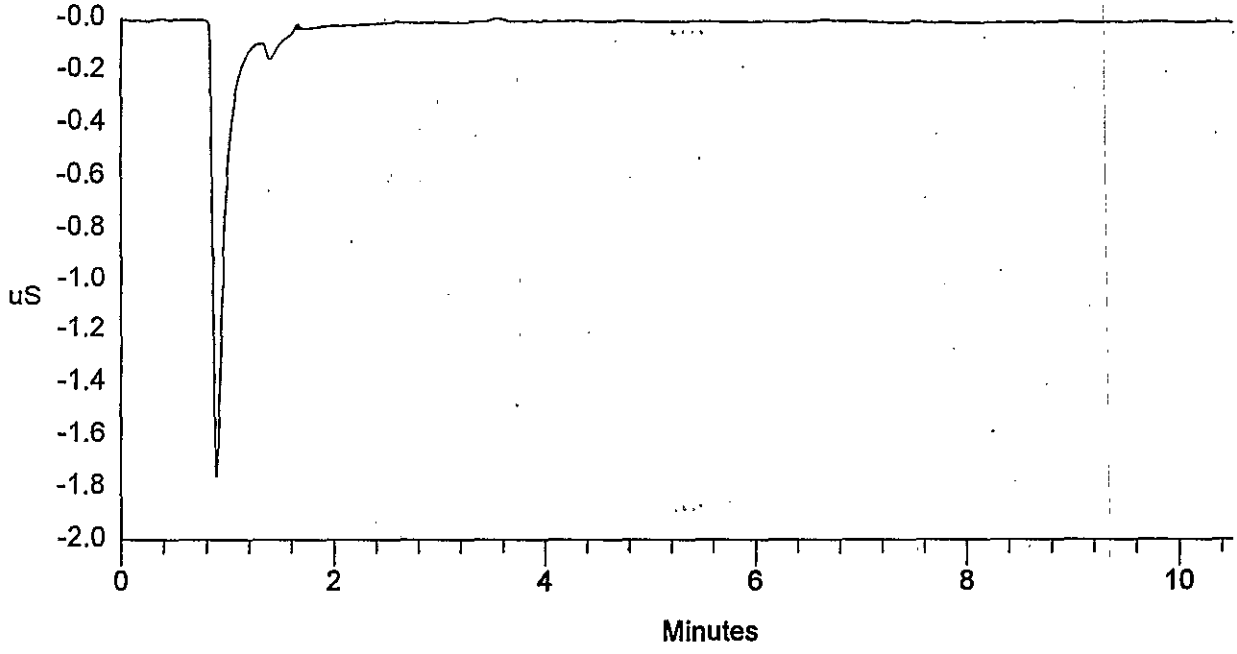
Sample Name: PREP BLANK	Date: 03/09/1996 07:56:59
Data File : C:\DX\DATA\96030921.d03	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 3	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	1	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: 96030921.d03 Sample: PREP BLANK



Data Reprocessed On 03/13/1996 11:12:16

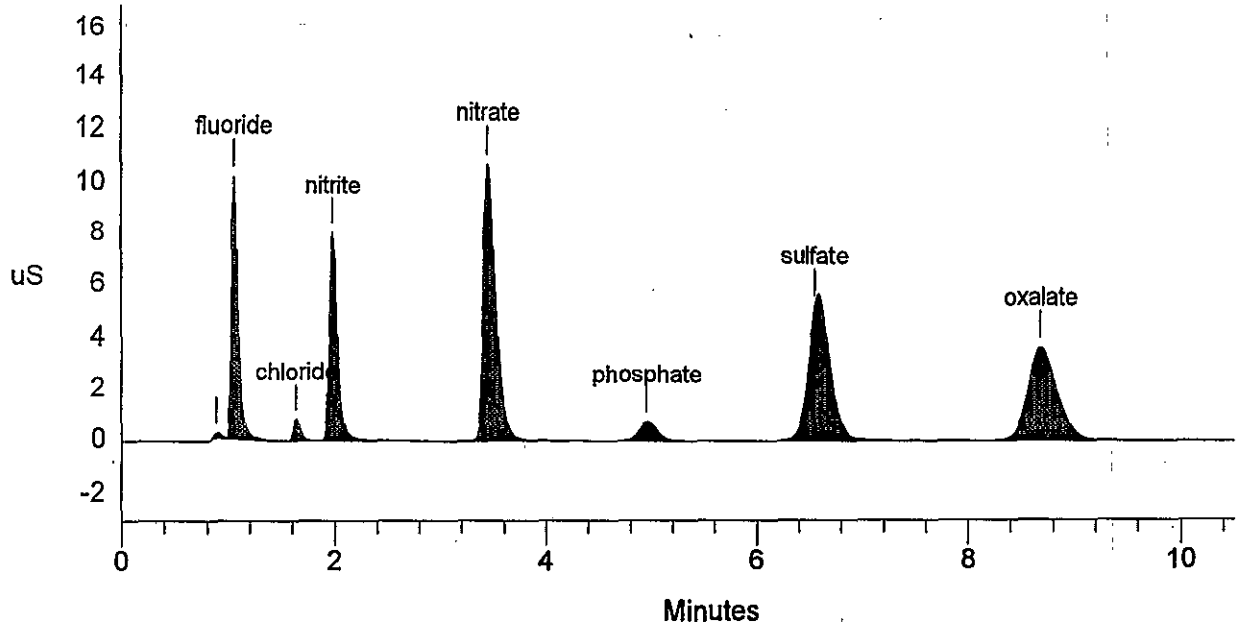
Sample Name: S95T003534	Date: 03/09/1996 09:37:45
Data File : C:\DX\DATA\96030921.d04	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 4	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	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	0.89		0.000	227	1058	2	
2	1.06	fluoride	83.831	10195	45311	2	3.92
3	1.64	chloride	12.695	816	3912	1	2.50
4	1.99	nitrite	192.763	8027	42794	1	1.88
5	3.45	nitrate	439.960	10722	88042	1	-1.33
6	4.96	phosphate	97.635	715	8612	1	4.42
7	6.56	sulfate	308.618	5198	78978	1	4.29
8	8.69	oxalate	344.342	3665	69377	1	5.84
		Totals	1479.844	39565	338084		

File: 96030921.d04 Sample: S95T003534



Data Reprocessed On 03/13/1996 11:12:20

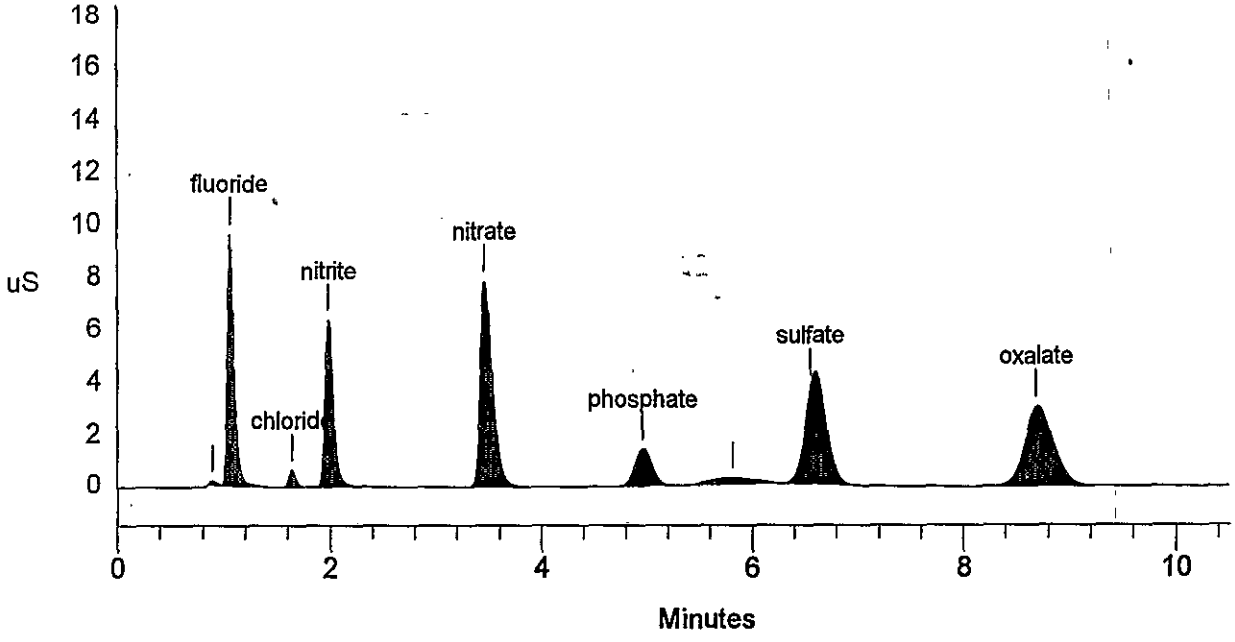
Sample Name: S95T003534 DUP	Date: 03/09/1996 09:51:50
Data File : C:\DX\DATA\96030921.d05	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\KIT.MET	
ACI Address: 1 System: 1 Inject#: 5	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	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	0.89		0.000	175	803	2	
2	1.06	fluoride	78.781	9618	42396	2	3.92
3	1.64	chloride	10.774	697	3290	1	2.50
4	1.99	nitrite	161.107	6400	35138	1	1.88
5	3.46	nitrate	326.087	7884	63933	1	-1.14
6	4.96	phosphate	173.799	1487	16980	1	4.42
7	5.81		0.000	255	7619	1	
8	6.56	sulfate	233.190	3805	58461	1	4.29
9	8.69	oxalate	295.131	3110	59184	1	5.84
		Totals	1278.869	33430	287803		

File: 96030921.d05 Sample: S95T003534 DUP



Data Reprocessed On 03/13/1996 11:12:24

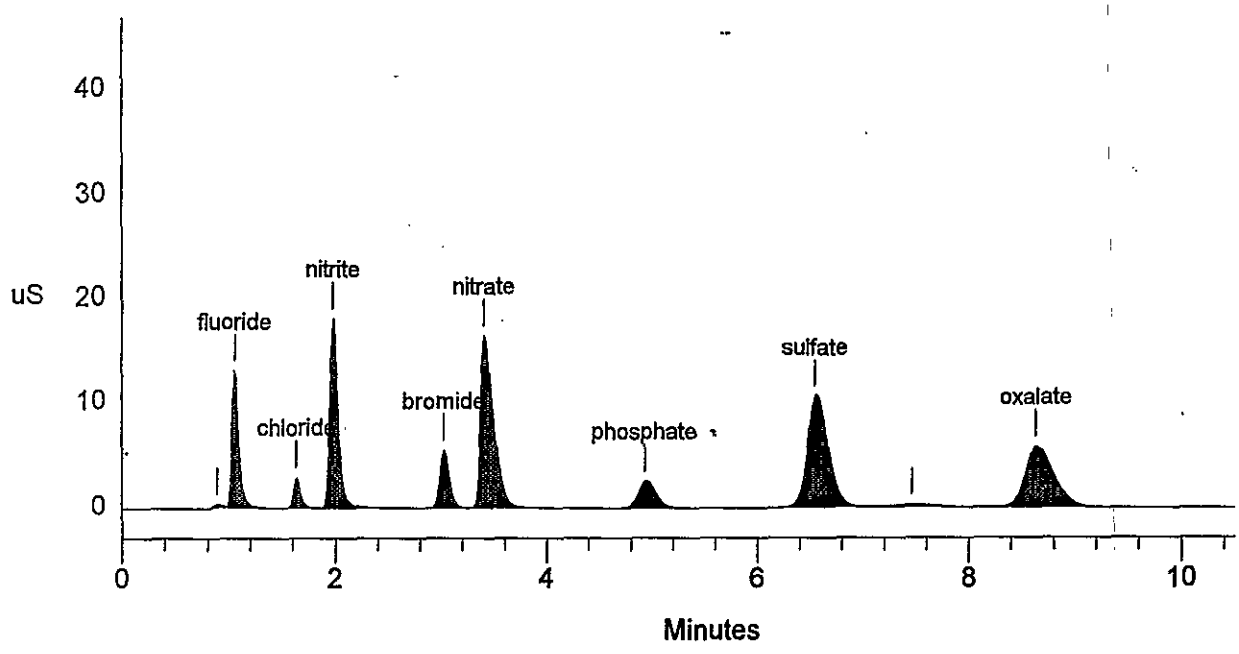
Sample Name: S95T003534 SPK Date: 03/09/1996 10:04:13
Data File : C:\DX\DATA\96030921.d06
Method : C:\DX\METHOD\KIT.MET
WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 6 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	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	0.89		0.000	304	1434	2	
2	1.06	fluoride	104.662	13079	57541	2	3.92
3	1.64	chloride	41.807	2888	13490	1	2.50
4	1.99	nitrite	423.898	18163	99034	1	1.88
5	3.03	bromide	228.478	5445	34101	1	-1.41
6	3.41	nitrate	684.047	16496	140975	1	-2.48
7	4.93	phosphate	301.626	2535	31145	1	3.86
8	6.56	sulfate	548.405	10647	145666	1	4.29
9	7.47		0.000	224	7427	1	
10	8.64	oxalate	546.577	5824	111784	1	5.19
		Totals	2879.501	75607	642595		

File: 96030921.d06 Sample: S95T003534 SPK



Data Reprocessed On 03/13/1996 11:12:28

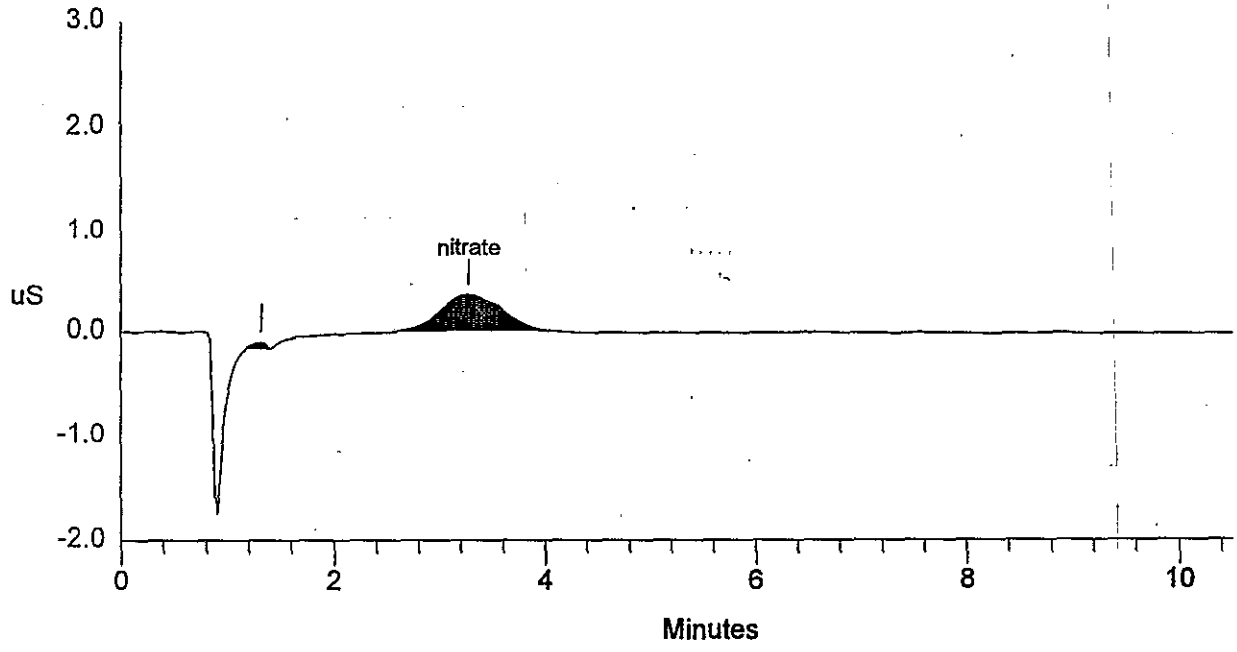
Sample Name: PREP BLANK	Date: 03/09/1996 10:20:52
Data File : C:\DX\DATA\96030921.d07	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 7	Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column	

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	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	1.32		0.000	57	476	1	
2	3.27	nitrate	1.945	336	12954	1	-6.48
		Totals	1.945	393	13430		

File: 96030921.d07 Sample: PREP BLANK



Data Reprocessed On 03/13/1996 11:12:32

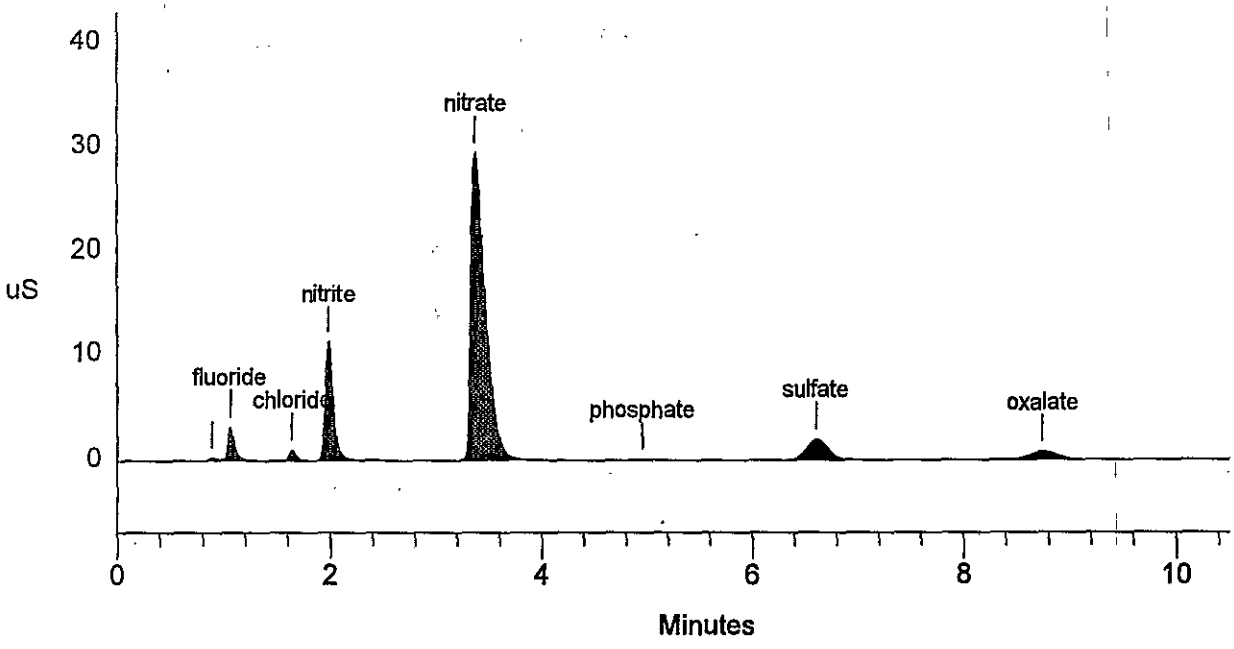
Sample Name: S95T003690 Date: 03/09/1996 10:41:41
Data File : C:\DX\DATA\96030921.d08
Method : C:\DX\METHOD\KIT.MET
WHC-SD-WM-DP-164, REV. I
ACI Address: 1 System: 1 Inject#: 8 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	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	0.89		0.000	264	1404	2	
2	1.06	fluoride	28.911	3134	14566	2	3.92
3	1.64	chloride	16.315	1050	5088	1	2.50
4	1.99	nitrite	262.874	11235	59791	1	1.88
5	3.37	nitrate	1283.910	29494	279417	1	-3.62
6	4.96	phosphate	32.211	118	1466	1	4.42
7	6.61	sulfate	124.403	2041	29235	1	5.14
8	8.75	oxalate	80.413	803	15269	1	6.49
		Totals	1829.037	48140	406238		

File: 96030921.d08 Sample: S95T003690



Data Reprocessed On 03/13/1996 11:12:35

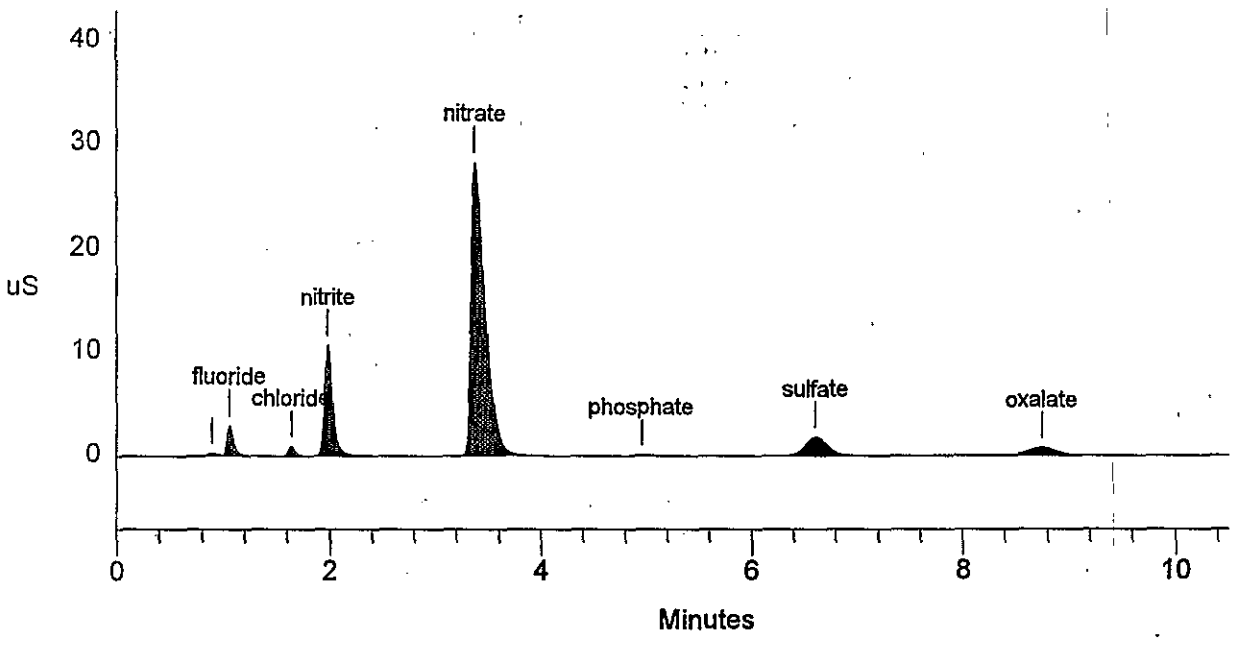
Sample Name: S95T003690 DUP	Date: 03/09/1996 10:53:37
Data File : C:\DX\DATA\96030921.d09	
Method : C:\DX\METHOD\KIT.MET	WHC-SD-WM-DP-164, REV. /
ACI Address: 1 System: 1 Inject#: 9	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	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	0.89		0.000	240	1306	2	
2	1.06	fluoride	27.415	2997	13756	2	3.92
3	1.64	chloride	15.122	978	4700	1	2.50
4	1.99	nitrite	252.419	10666	57253	1	1.88
5	3.37	nitrate	1208.169	28183	261202	1	-3.62
6	4.96	phosphate	31.649	114	1405	1	4.42
7	6.61	sulfate	115.298	1871	26808	1	5.14
8	8.75	oxalate	93.868	790	17995	1	6.49
		Totals	1743.941	45839	384425		

File: 96030921.d09 Sample: S95T003690 DUP



Data Reprocessed On 03/13/1996 11:12:40

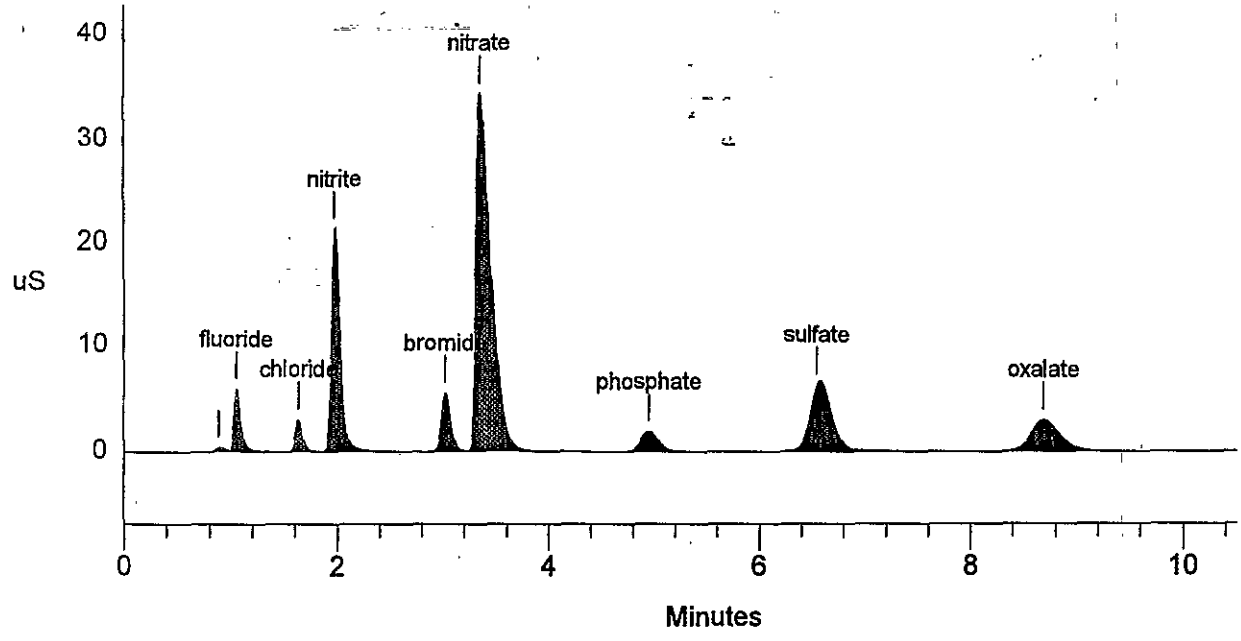
Sample Name: S95T003690 SPK Date: 03/09/1996 11:06:23
Data File : C:\DX\DATA\96030921.d10
Method : C:\DX\METHOD\KIT.MET WHC-SD-WM-DP-164, REV. I
ACI Address: 1 System: 1 Inject#: 10 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	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	0.89		0.000	347	1793	2	
2	1.06	fluoride	51.764	5900	27112	2	3.92
3	1.64	chloride	46.541	3108	15073	1	2.50
4	1.99	nitrite	503.058	21378	118433	1	1.88
5	3.03	bromide	223.106	5538	33237	1	-1.41
6	3.35	nitrate	1502.981	34373	333467	1	-4.19
7	4.96	phosphate	229.484	1960	23132	1	4.42
8	6.56	sulfate	372.950	6397	96647	1	4.29
9	8.69	oxalate	289.834	3050	58090	1	5.84
		Totals	3219.717	82050	706985		

File: 96030921.d10 Sample: S95T003690 SPK



WHC-SD-WM-DP-164, REV. 1

LABCORE Completed Worklist Report for Worklist# 6199

Analyst: krq **Instrument:** IC01 **Book#** 133N9-A

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

Worklist Comment: by-104 rerun need a d.f. of 41. 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	59	5.78e+01	97.970	% Recovery
2	CCV			0	@IC-QC CL	QC	79	7.29e+01	92.280	% Recovery
2	CCV			0	@IC-QC NO2	QC	537	5.28e+02	98.320	% Recovery
2	CCV			0	@IC-QC BR	QC	575	5.52e+02	96.000	% Recovery
2	CCV			0	@IC-QC NO3	QC	614	5.96e+02	97.070	% Recovery
2	CCV			0	@IC-QC PO4	QC	546	5.28e+02	96.700	% Recovery
2	CCV			0	@IC-QC SO4	QC	631	6.13e+02	97.150	% Recovery
2	CCV			0	@IC-QC OXALATE2	QC	509	5.18e+02	101.770	% 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	5.00e-02	5.000e-002	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	<1.20e-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	S95T003685	0	W	@IC-01 CL-02	SOLID	N/A	2.436e+03	123.500	ug/g
4	SAMPLE	S95T003685	0	W	@IC-01 BR-02	SOLID	N/A <	9.153e+02	915.300	ug/g
5	DUP	S95T003685	0	W	@IC-01 CL-02	SOLID	2.44e+03	2.60e+03	6.350	RPD
5	DUP	S95T003685	0	W	@IC-01 BR-02	SOLID	<9.15e2	<9.18e2		RPD
6	SPK	S95T003685	0	W	@IC-01 F-02	SOLID	59	6.01e+01	101.860	% Recovery
6	SPK	S95T003685	0	W	@IC-01 CL-02	SOLID	79	72.877	92.250	% Recovery
6	SPK	S95T003685	0	W	@IC-01 NO2-02	SOLID	537	4.65e+02	86.590	% Recovery
6	SPK	S95T003685	0	W	@IC-01 BR-02	SOLID	575	560.000	97.390	% Recovery
6	SPK	S95T003685	0	W	@IC-01 NO3-02	SOLID	614	1.57e+03	255.700	% Recovery
6	SPK	S95T003685	0	W	@IC-01 PO4-02	SOLID	546	2.31e+02	42.310	% Recovery
6	SPK	S95T003685	0	W	@IC-01 SO4-02	SOLID	631	3.99e+02	63.230	% Recovery
6	SPK	S95T003685	0	W	@IC-01 OXALATE2	SOLID	509	3.16e+02	62.080	% Recovery
7	SAMPLE	S95T003686	0	W	@IC-01 CL-02	SOLID	N/A	2.770e+03	133.800	ug/g
7	SAMPLE	S95T003686	0	W	@IC-01 BR-02	SOLID	N/A <	9.917e+02	991.700	ug/g
8	DUP	S95T003686	0	W	@IC-01 CL-02	SOLID	2.77e+03	2.57e+03	7.490	RPD
8	DUP	S95T003686	0	W	@IC-01 BR-02	SOLID	<9.92e2	<1.02e3		RPD

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

LABCORE Completed Worklist Report for Worklist# 6199

Seq	Type	Sample#	R	A	Test	Matrix	Actual	Found	DL or Yield	Unit

Final page for worklist# 6199

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

Noel Smith 3/15/96
Reviewer Signature **Date**

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

96030831, D01 → D08
96030811, D01

LABCORE Data Entry Template for Worklist# 6199

Analyst: KBD **Instrument:** IC01 _____ **Book#** 133119-A

Method: LA-533-105 Rev/Mod D-1 WHC-SD-WM-DP-164, REV. 1

Worklist Comment: by-104 rerun need a d.f. of 41. 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	S95T003685	0	W	@IC-01	SOLID	95000180	BY104 ROTARY
		Analytes Requested:			BR-02	, CL-02		
5	DUP	S95T003685	0	W	@IC-01	SOLID		
6	SPK	S95T003685	0	W	@IC-01	SOLID		
7	SAMPLE	S95T003686	0	W	@IC-01	SOLID	95000180	BY104 ROTARY
		Analytes Requested:			BR-02	, CL-02		
8	DUP	S95T003686	0	W	@IC-01	SOLID		

Final page for worklist # 6199

Kathy Bauer 3/6/96

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

Exported
Inshell
Uploaded 3/14/96 Jann M. Lage
printed

Data Entry Comments:

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

A-0010-IC DATA FILE/WORKLIST RESOLUTION 14-Mar-96

Worklist#: 6199

	Seq	Type	Sample #
=>	1	CCB	
=>	2	CCV	
=>	3	BLNK-PREP	
=>	4	SAMPLE	S95T003685
=>	5	DUP	S95T003685
=>	6	SPK	S95T003685
=>	7	SAMPLE	S95T003686
=>	8	DUP	S95T003686

Data File: 6199MAR.CSV

Seq#	Data File	Sample Name	Dilution
1	96030831.d01	BLANK	1.00
2	96030831.d02	133N9-A	101.00
3	96030831.d03	PREP BLANK	1.00
4	96030831.d04	S95T003685	41.00
5	96030831.d05	S95T003685 DUP	41.00
6	96030831.d06	S95T003685 SPIKE	41.00
7	96030831.d07	S95T003686	41.00
8	96030831.d08	S95T003686 DUP	41.00

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

Data Reprocessed On 03/13/1996 11:37:04

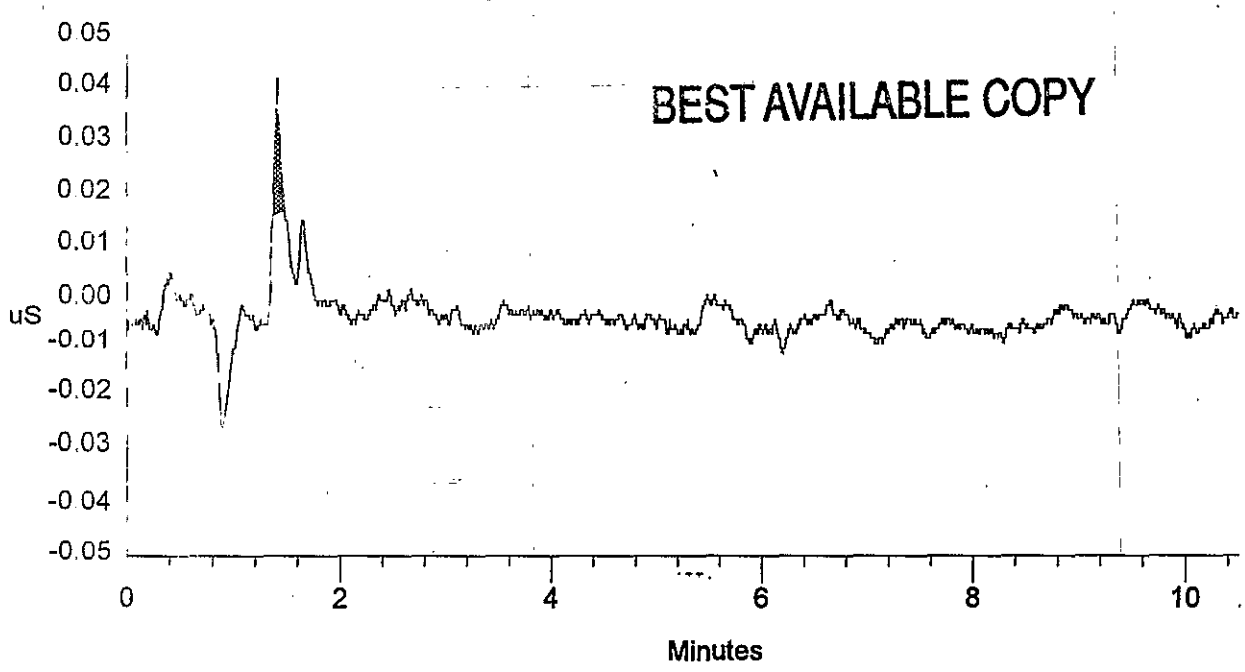
Sample Name: BLANK	Date: 03/08/1996 10:28:18
Data File : C:\DX\DATA\96030831.d01	WHC-SD-WM-DP-164, REV. I
Method : C:\DX\METHOD\AUTOMEL.met	
ACI Address: 1 System: 1 Inject#: 1	Detector:CDM-1
Analyst : 3/15/96	Column: AG4A/AS4A anion column

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
		Totals	0.000	0	0		

File: 96030831.d01 Sample: BLANK



BEST AVAILABLE COPY

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 664 TO 671.

Data Reprocessed On 03/13/1996 11:37:08

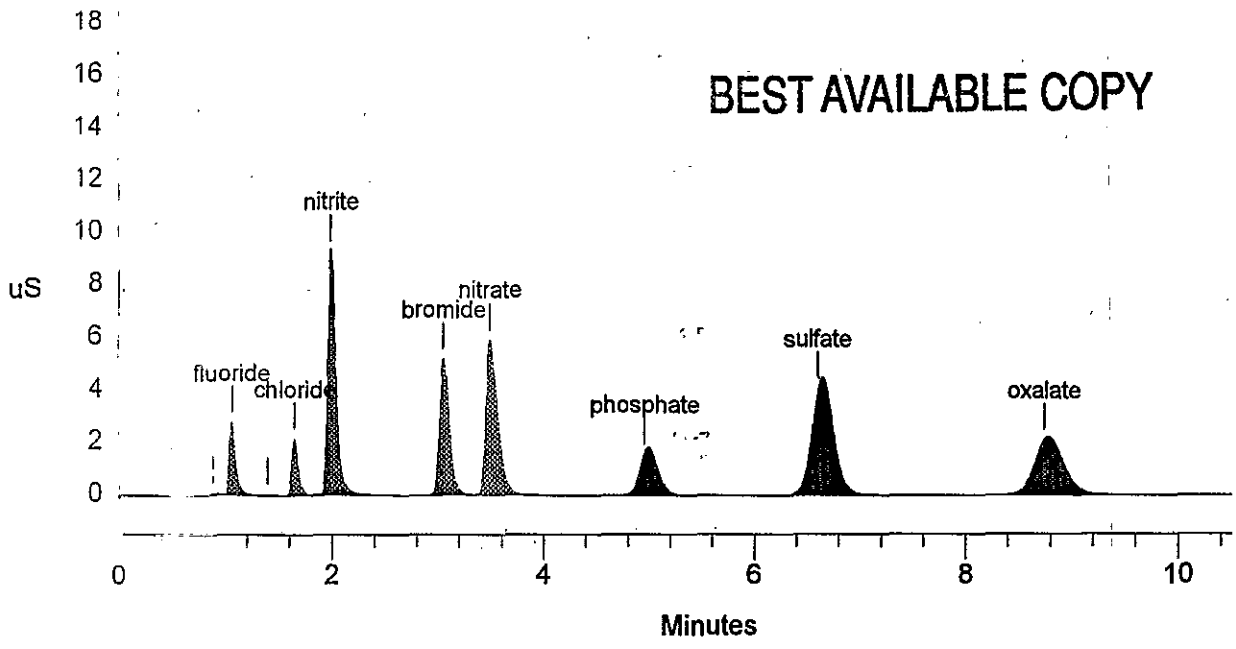
Sample Name: 133N9-A	Date: 03/08/1996 10:41:29
Data File : C:\DX\DATA\96030831.d02	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 2	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

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	0.89		0.000	80	400	2	
2	1.06	fluoride	57.803	2733	11624	2	3.92
3	1.40		0.000	20	109	2	
4	1.65	chloride	72.855	2110	9432	1	2.92
5	1.99	nitrite	527.913	9270	48010	1	2.22
6	3.05	bromide	551.851	5184	33384	1	-0.54
7	3.49	nitrate	595.563	5897	46306	1	-0.19
8	4.96	phosphate	528.287	1547	21468	1	4.42
9	6.61	sulfate	612.623	4060	62659	1	5.14
10	8.75	oxalate	517.757	2084	41703	1	6.49
		Totals	3464.652	32986	275097		

File: 96030831.d02 Sample: 133N9-A



BEST AVAILABLE COPY

Data Reprocessed On 03/13/1996 11:37:11

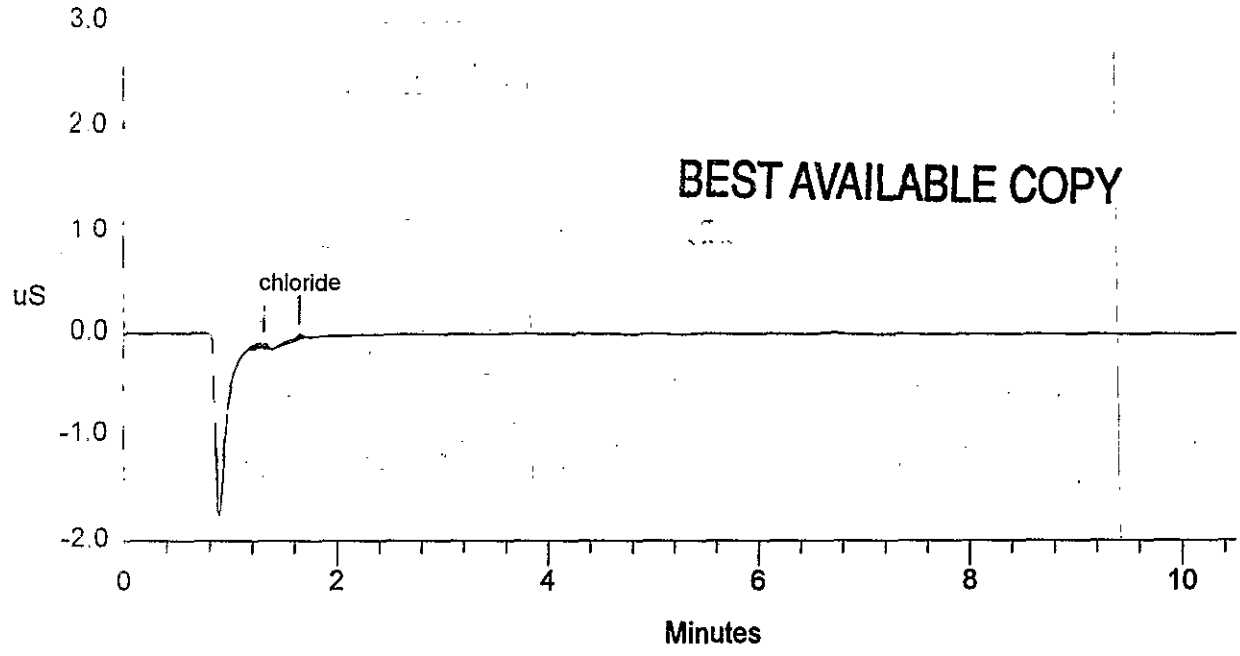
Sample Name: PREP BLANK	Date: 03/08/1996 10:54:41
Data File : C:\DX\DATA\96030831.d03	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 3	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

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	1.32		0.000	59	529	1	
2	1.65	chloride	0.050	50	474	1	3.33
		Totals	0.050	109	1004		

File: 96030831.d03 Sample: PREP BLANK



BEST AVAILABLE COPY

Data Reprocessed On 03/13/1996 11:37:15

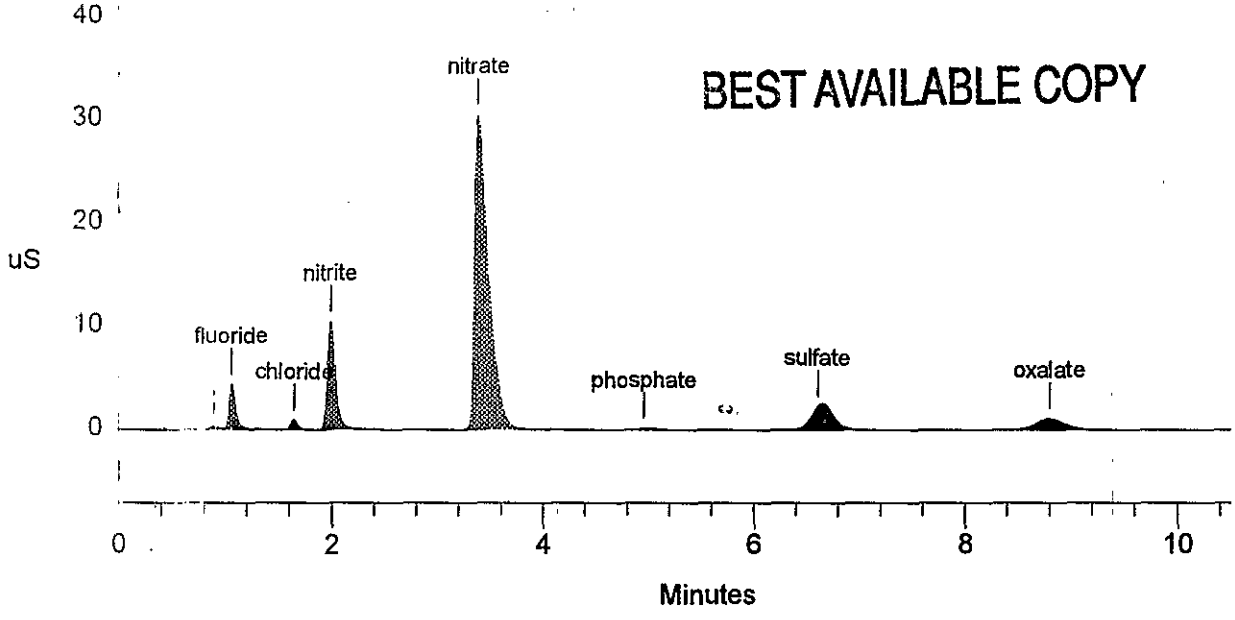
Sample Name: S95T003685	Date: 03/08/1996 11:07:52
Data File : C:\DX\DATA\96030831.d04	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 4	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	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	0.89		0.000	281	1522	2	
2	1.06	fluoride	37.567	4360	19279	2	3.92
3	1.65	chloride	13.749	927	4254	1	2.92
4	1.99	nitrite	240.635	10456	54394	1	2.22
5	3.39	nitrate	1301.625	30362	283711	1	-3.24
6	4.96	phosphate	37.001	135	1988	1	4.42
7	6.61	sulfate	151.844	2311	36567	1	5.14
8	8.80	oxalate	109.467	1115	21160	1	7.14
		Totals	1891.887	49947	422875		

File: 96030831.d04 Sample: S95T003685



Data Reprocessed On 03/13/1996 11:37:19

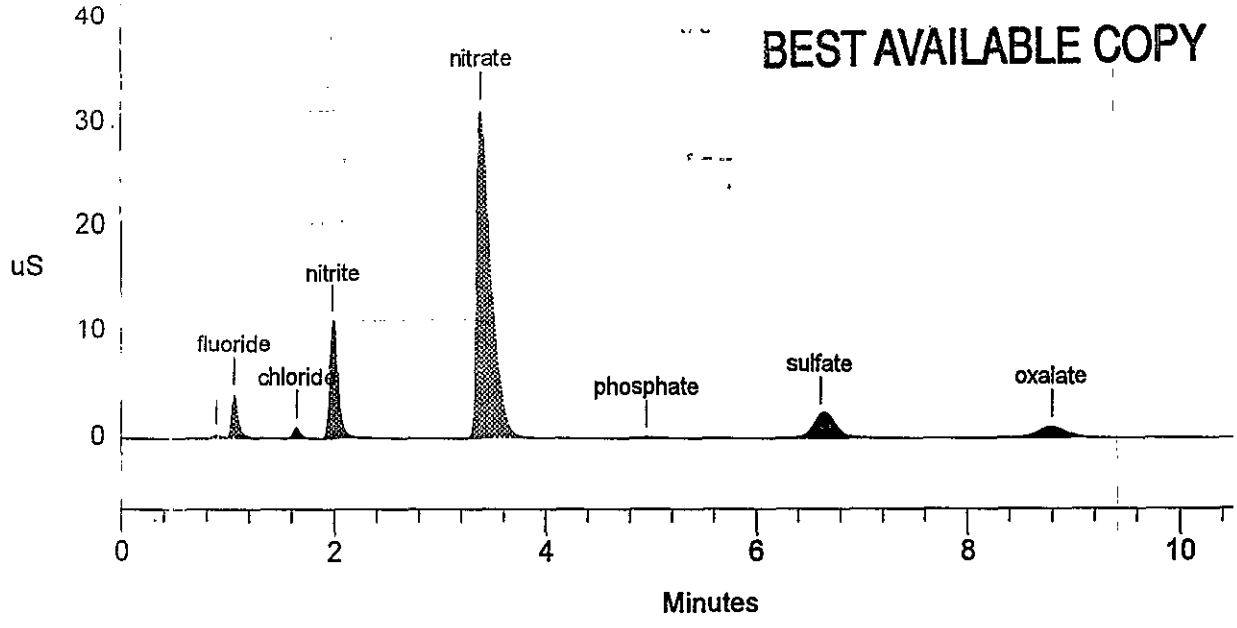
Sample Name: S95T003685 DUP	Date: 03/08/1996 11:21:05
Data File : C:\DX\DATA\96030831.d05	
Method : C:\DX\METHOD\AUTOMEL.met	WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 5	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

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	0.89		0.000	276	1504	2	
2	1.06	fluoride	35.215	4030	17994	2	3.92
3	1.65	chloride	14.625	990	4539	1	2.92
4	1.99	nitrite	255.510	11013	58003	1	2.22
5	3.39	nitrate	1342.472	31195	293662	1	-3.24
6	4.96	phosphate	32.860	104	1537	1	4.42
7	6.61	sulfate	150.372	2249	36173	1	5.14
8	8.80	oxalate	104.553	1072	20163	1	7.14
		Totals	1935.606	50928	433575		

*File: 96030831.d05 Sample: **S95T003685 DUP***



Data Reprocessed On 03/13/1996 11:37:23

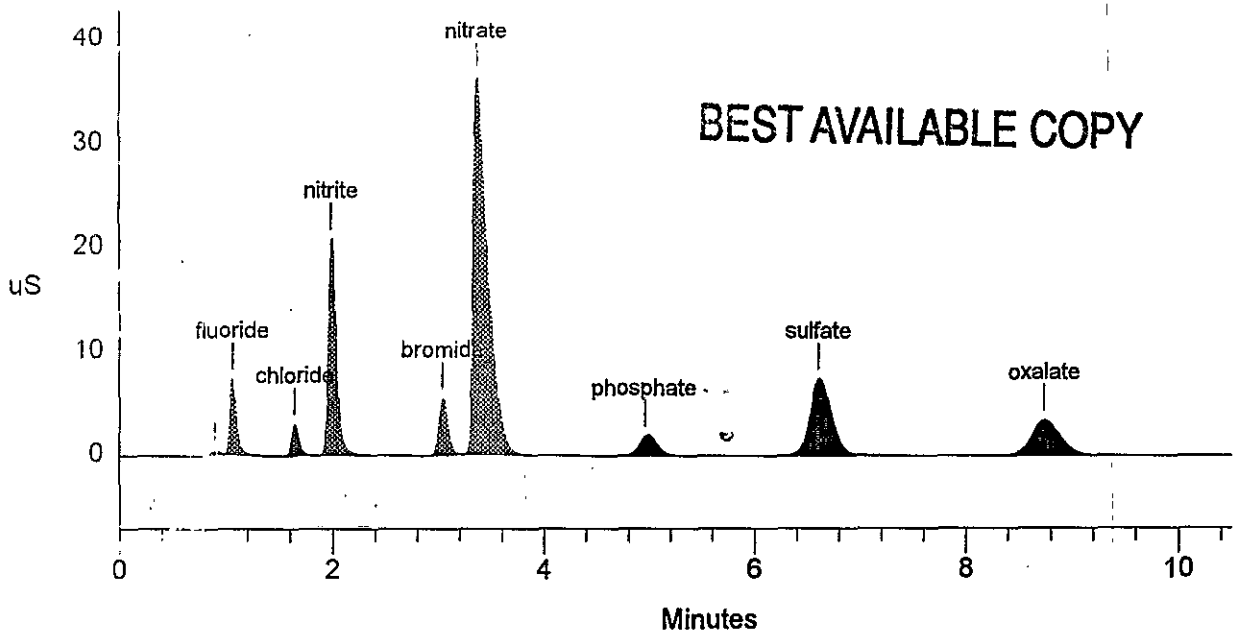
Sample Name: S95T003685 SPIKE	Date: 03/08/1996 11:34:19
Data File : C:\DX\DATA\96030831.d06	WHC-SD-WM-DP-164, REV. 1
Method : C:\DX\METHOD\AUTOMEL.met	
ACI Address: 1 System: 1 Inject#: 6	Detector:CDM-1
Analyst :	Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	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	0.89		0.000	342	1681	2	
2	1.06	fluoride	60.078	7305	31761	2	3.92
3	1.65	chloride	42.913	3015	13859	1	2.92
4	1.99	nitrite	464.578	20734	108994	1	2.22
5	3.04	bromide	223.910	5457	33367	1	-0.98
6	3.37	nitrate	1571.429	36031	350799	1	-3.81
7	4.96	phosphate	231.157	1820	23317	1	4.42
8	6.61	sulfate	399.148	7383	103888	1	5.14
9	8.75	oxalate	316.031	3365	63507	1	6.49
		Totals	3309.243	85452	731173		

*File: 96030831.d06 Sample: **S95T003685 SPIKE***



BEST AVAILABLE COPY

Data Reprocessed On 03/13/1996 11:37:27

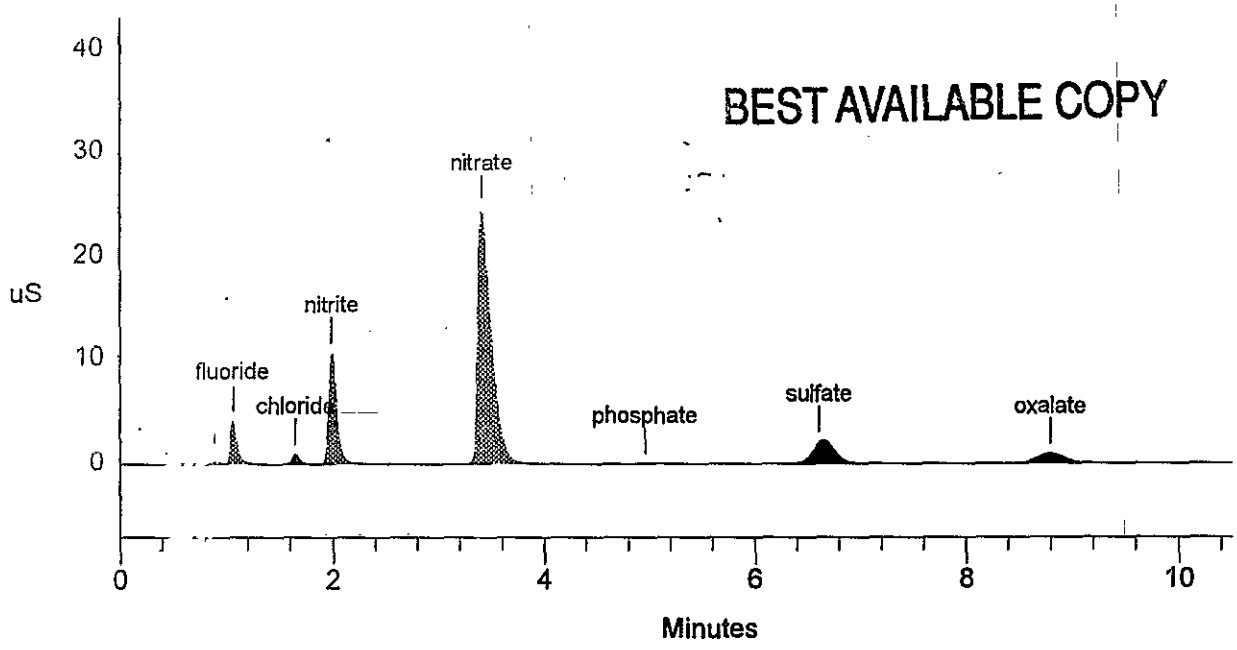
Sample Name: S95T003686 Date: 03/08/1996 11:47:31
Data File : C:\DX\DATA\96030831.d07
Method : C:\DX\METHOD\AUTOMEL.met
WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 7 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area	Reject
External	1	41	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	0.89		0.000	250	1289	2	
2	1.06	fluoride	36.724	4155	18818	2	3.92
3	1.65	chloride	14.431	962	4476	1	2.92
4	1.99	nitrite	249.374	10552	56514	1	2.22
5	3.41	nitrate	1038.071	24298	221112	1	-2.67
6	4.96	phosphate	29.360	80	1156	1	4.42
7	6.61	sulfate	142.801	2152	34148	1	5.14
8	8.80	oxalate	95.093	967	18244	1	7.14
		Totals	1605.852	43417	355755		

File: 96030831.d07 Sample: S95T003686



Data Reprocessed On 03/13/1996 11:37:31

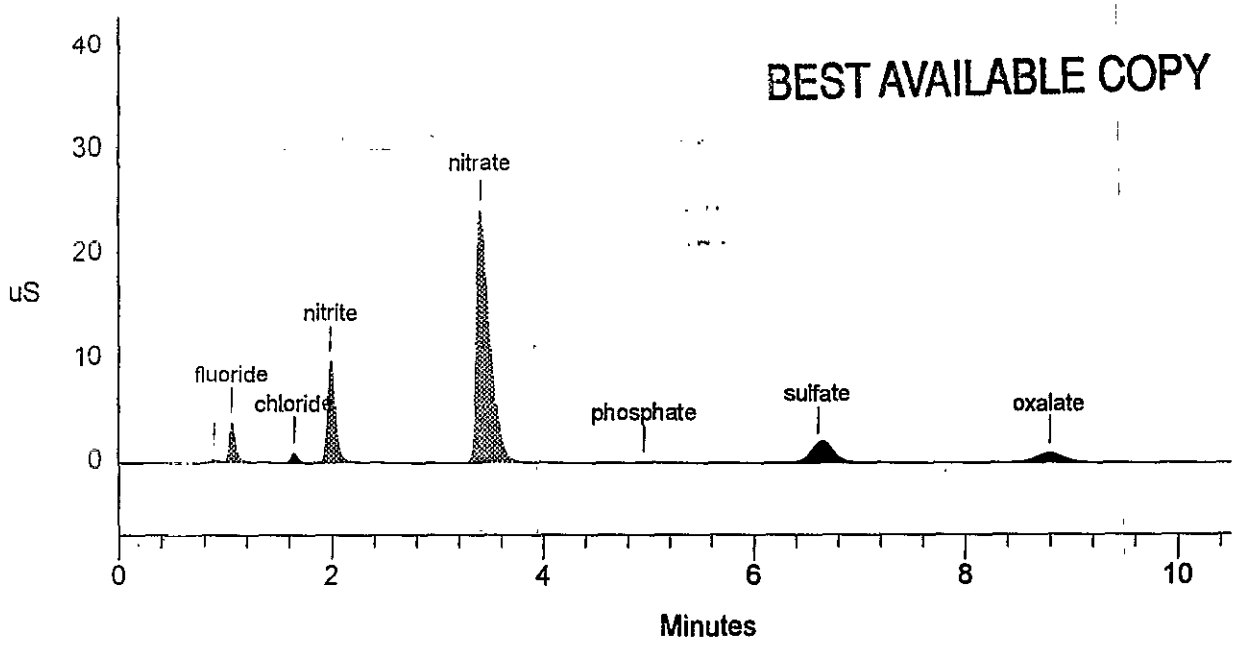
Sample Name: S95T003686 DUP Date: 03/08/1996 12:00:45
Data File : C:\DX\DATA\96030831.d08
Method : C:\DX\METHOD\AUTOMEL.met
WHC-SD-WM-DP-164, REV. 1
ACI Address: 1 System: 1 Inject#: 8 Detector:CDM-1
Analyst : Column: AG4A/AS4A anion column

Calibration	Volume	Dilution	Points	Rate	Start	Stop	Area Reject
External	1	41	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	0.89		0.000	244	1285	2	
2	1.06	fluoride	31.987	3713	16236	2	3.92
3	1.65	chloride	13.213	906	4080	1	2.92
4	1.99	nitrite	224.994	9786	50601	1	2.22
5	3.41	nitrate	1016.410	24180	216084	1	-2.67
6	4.96	phosphate	28.276	75	1038	1	4.42
7	6.61	sulfate	129.555	1870	30609	1	5.14
8	8.80	oxalate	89.062	906	17021	1	7.14
		Totals	1533.497	41680	336955		

*File: 96030831.d08 Sample: **S95T003686 DUP***



LABCORE Data Entry Template for Worklist# 3732

Analyst: JK Sato **Instrument:** ICP01 JK 11-30-95 **Book#** 48848C

Method: LA-505-151/161 Rev/Mod B-0

Worklist Comment: ICP BY-104, BY-110 (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	S95T003713	0	D	@ICP-D03	LIQUID	95000180	BY104 ROTARY
	Analytes Requested: LI-D-01							
6	DUP	S95T003713	0	D	@ICP-D03	LIQUID		
7	SPK	S95T003713	0	D	@ICP-D03	LIQUID		
8	SAMPLE	S95T003378	0	D	@ICP-D03	LIQUID	95000171	BY-110
	Analytes Requested: LI-D-01							
9	DUP	S95T003378	0	D	@ICP-D03	LIQUID		
10	SPK	S95T003378	0	D	@ICP-D03	LIQUID		
11	ICSA				@ICP-QC	QC		
12	ICSAB				@ICP-QC	QC		
13	CCV				@ICP-QC	QC		
14	CCB				@ICP-QC	QC		

Final page for worklist # 3732

JK Sato 11-30-95
Analyst Signature **Date**

Reviewed by: Saul R. Pang 11/30/95
Analyst Signature **Date**

S95T003713_L, 2.8, DF 5
700371B direct 1
700371B_3 direct 1
700371B_Q direct 1.25, 8 ml sample + 2 ml SST5

S95T003378_L, 1-10-2.8 ml, DF 55
S95T003378 1-10 "
S95T003378_3 1-10 "
S95T003378_Q 1-10 " 1 ml sample + 2.2 ml SST5 + 7.8 ml HNO3

Data Entry Comments:

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

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	951130A	ICP2	11/30/95	10:17	DKS	Q	CONC
2	ICB	951130A	ICP2	11/30/95	10:20	DKS	Q	CONC
3	ICSA	951130A	ICP2	11/30/95	10:24	DKS	Q	CONC
4	ICSAB	951130A	ICP2	11/30/95	10:27	DKS	Q	CONC
5	S95T003713_L	951130A	ICP2	11/30/95	10:32	DKS	S	CONC
6	S95T003713	951130A	ICP2	11/30/95	10:35	DKS	S	CONC
7	S95T003713_D	951130A	ICP2	11/30/95	10:38	DKS	S	CONC
8	S95T003713_A	951130A	ICP2	11/30/95	10:41	DKS	S	CONC
9	CCV	951130A	ICP2	11/30/95	10:45	DKS	Q	CONC
~~10~~	~~CCB~~ JK 11-30-95	951130A	ICP2	11/30/95	10:48	DKS	Q	CONC
~~11~~	~~CCB~~	951130A	ICP2	11/30/95	10:54	DKS	Q	CONC
12	CCB	951130A	ICP2	11/30/95	11:01	DKS	Q	CONC
13	S95T003378_L	951130A	ICP2	11/30/95	11:05	DKS	S	CONC
14	S95T003378	951130A	ICP2	11/30/95	11:08	DKS	S	CONC
15	S95T003378_D	951130A	ICP2	11/30/95	11:11	DKS	S	CONC
16	S95T003378_A	951130A	ICP2	11/30/95	11:15	DKS	S	CONC
17	ICSA	951130A	ICP2	11/30/95	11:20	DKS	Q	CONC
18	ICSAB	951130A	ICP2	11/30/95	11:23	DKS	Q	CONC
19	CCV_1	951130A	ICP2	11/30/95	11:27	DKS	Q	CONC
20	CCB_1	951130A	ICP2	11/30/95	11:32	DKS	Q	CONC

WHC-SD-WM-DP-164, REV. 1

JK
11-30-95

BY-104 S95T003713

BY-110 S95T003378

Worklist # 3732

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 643 TO 677.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.958	4.801	5.103	4.919	4.922	5.044
2	ICB	.0002	.0002	.0046	.0043	.0001	-.0000
3	ICSA	-.0128	234.2	-.0605	-.0027	.0031	.0001
4	ICSAB	.9244	235.2	-.0671	-.0023	.4611	.4666
5	S95T003713_L	.0070	.1705	.0367	1.028	.0031	-.0009
6	S95T003713	-.0000	.0189	.0082	1.011	.0013	-.0002
7	S95T003713_D	.0001	.0264	-.0121	.9991	.0013	-.0002
8	S95T003713_A	1.123	1.258	1.335	2.266	1.248	1.303
9	CCV	4.967	4.835	5.143	4.941	4.981	5.118
~~10~~	~~CCB~~ JK 11-30-95	.0022	.0053	.0021	.0085	.0001	.0000
~~11~~	~~CCB~~	.0001	-.0013	.0114	.0021	.0000	-.0001
12	CCB	-.0007	.0000	.0007	.0004	-.0001	-.0001
13	S95T003378_L	-.0202	-.1493	1.061	.1644	.1251	-.0000
14	S95T003378	.0302	-.0161	.1695	-.0374	.1303	-.0008
15	S95T003378_D	.0093	.0083	.1287	.0236	.1287	-.0004
16	S95T003378_A	9.447	10.26	11.45	10.44	10.42	10.86
17	ICSA	-.0056	234.0	-.0624	.0008	.0032	.0001
18	ICSAB	.9341	235.5	-.0379	.0001	.4632	.4751
19	CCV_1	4.961	4.806	5.190	4.936	4.961	5.127
20	CCB_1	.0022	.0039	-.0006	.0043	.0001	-.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.067	5.078	5.024	5.067	5.009	5.081
2	ICB	-.0023	-.0002	-.0002	-.0011	.0037	-.0005
3	ICSA	-.0073	243.1	.0006	.0091	.0043	-.0057
4	ICSAB	.0173	241.5	.9276	.0142	.4621	.4682
5	S95T003713_L	.0361	.7432	-.0025	.0304	.0034	.0190
6	S95T003713	.0100	.6219	.0001	-.0016	-.0021	.0036
7	S95T003713_D	-.0049	.6177	-.0012	.0013	.0009	.0047
8	S95T003713_A	1.313	1.926	1.309	1.310	1.299	1.320
9	CCV	5.136	5.100	5.054	5.136	5.047	5.111
~~10~~	~~CCB~~ JK 11-30-95	.0103	.0033	-.0012	.0051	.0011	.0008
~~11~~	~~CCB~~	.0364	.0002	-.0011	.0009	.0022	-.0004
12	CCB	.0065	-.0009	-.0013	-.0062	-.0006	-.0009
13	S95T003378_L	-.0607	3.033	-.0065	-.3076	.0834	.0061
14	S95T003378	-.0169	3.696	.0003	.0567	.0286	.0108
15	S95T003378_D	-.1729	3.347	.0023	.0402	.0238	.0123
16	S95T003378_A	10.74	14.30	10.80	10.82	10.76	10.97
17	ICSA	-.0235	245.7	.0004	.0117	.0024	-.0050
18	ICSAB	.0034	247.1	.9420	.0148	.4661	.4688
19	CCV_1	5.092	5.120	5.059	5.108	5.045	5.113
20	CCB_1	-.0026	.0005	-.0000	.0051	.0011	.0011

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	4.994	.0071	5.048	5.066	4.979	4.892
2	ICB	.0004	.0015	-.0005	.1612	-.0005	.0008
3	ICSA	-.0096	-.0119	91.73	.1062	-.0049	.0031
4	ICSAB	.4636	-.0088	91.51	.1156	-.0039	.9391
5	S95T003713_L	.0069	.0094	.2347	.6070	.0151	.0082

WHC-SD-WM-DP-164, REV. 1

#	Sample Name	Cu	Eu	Fe	K	La	Li
6	S95T003713	.0010	.0031	.1082	.1247	-.0003	.0047
7	S95T003713_D	.0004	.0025	.1081	.3195	-.0004	.0038
8	S95T003713_A	1.301	.0038	1.404	1.429	1.283	1.259
9	CCV	5.058	.0068	5.055	4.978	5.044	4.983
~~10~~	~~CCB~~ 11-30-95	.0010	.0007	-.0001	.1875	.0001	.0009
~~11~~	~~CCB~~	.0002	.0007	-.0004	-.0042	-.0003	.0002
12	CCB	.0002	.0003	-.0013	-.0253	-.0014	.0000
13	S95T003378_L	.0563	.0504	.1157	-2.429	-.0791	1949.
14	S95T003378	.0407	.0197	.2262	3.131	.0019	1900.
15	S95T003378_D	.0339	.0212	.1323	1.556	-.0034	1890.
16	S95T003378_A	10.61	.0266	11.12	13.41	10.61	1902.
17	ICSA	-.0096	-.0173	91.92	.0865	-.0044	.0034
18	ICSAB	.4661	-.0135	93.43	.1769	-.0045	.9435
19	CCV_1	5.038	.0074	5.037	4.922	5.035	4.895
20	CCB_1	.0012	.0015	-.0013	.0896	.0007	.0006

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.845	4.938	5.009	4.890	5.029	5.042
2	ICB	-.0034	.0005	.0008	.0106	-.0001	.0048
3	ICSA	234.9	-.0071	-.0120	189.4	.0099	-.0122
4	ICSAB	233.6	.4369	.0056	187.9	.0324	.9004
5	S95T003713_L	.0963	.0313	.0069	2.927	.0183	.0399
6	S95T003713	.0417	.0166	.0010	2.942	-.0015	.0006
7	S95T003713_D	.0440	.0164	.0011	2.926	-.0009	.0001
8	S95T003713_A	1.292	1.261	1.279	4.184	1.294	1.308
9	CCV	4.844	4.946	5.026	4.910	5.090	5.019
~~10~~	~~CCB~~ 11-30-95	-.0001	.0003	-.0004	.0023	.0025	-.0041
~~11~~	~~CCB~~	-.0040	.0002	.0018	.0019	-.0008	.0018
12	CCB	-.0058	.0001	-.0003	-.0015	.0005	-.0042
13	S95T003378_L	-.4166	.0444	.0829	5.957	-.0092	.1243
14	S95T003378	.2944	.0307	.0593	5.666	.0208	.0948
15	S95T003378_D	.2333	.0319	.0543	5.670	.0066	.1128
16	S95T003378_A	10.37	10.32	10.90	15.95	10.66	10.87
17	ICSA	234.9	-.0069	-.0100	187.9	.0115	-.0233
18	ICSAB	234.2	.4413	-.0098	188.4	.0097	.9024
19	CCV_1	4.799	4.946	5.038	4.857	5.067	5.037
20	CCB_1	-.0045	.0004	.0012	.0072	.0021	-.0018

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.010	5.083	4.883	4.756	4.876	4.962
2	ICB	-.0188	.0066	.0018	-.0068	.0025	.0266
3	ICSA	.0194	.0609	-.0272	.0047	-.0155	.0202
4	ICSAB	.0181	1.057	.0222	.0038	-.0123	.0211
5	S95T003713_L	.0724	.0060	7.112	-.0642	.0270	3.079
6	S95T003713	-.0088	-.0075	3.020	-.0043	.0098	3.100
7	S95T003713_D	-.0117	-.0046	3.316	.0021	-.0003	3.081
8	S95T003713_A	1.254	1.321	7.108	1.217	1.246	4.395
9	CCV	5.078	5.086	5.081	4.772	4.937	4.965
~~10~~	~~CCB~~ 11-30-95	-.0059	.0093	Q.1168	-.0068	.0123	.0194
~~11~~	~~CCB~~	-.0144	-.0103	Q.0580	.0033	-.0026	.0099

WHC-SD-WM-DP-164, REV. 1

#	Sample Name	P	Pb	S	Sb	Se	Si
12	CCB	-.0181	-.0071	.0376	.0048	.0030	.0093
13	S95T003378_L	-1.196	-.0823	6.790	-.3191	.8004	1.164
14	S95T003378	-.0721	.0359	2.754	.0287	.1987	.9006
15	S95T003378_D	-.1231	.0138	2.265	-.0020	.3520	.9234
16	S95T003378_A	10.95	10.90	12.61	10.28	11.07	11.85
17	ICSA	.0044	.0542	.0109	-.0075	.0166	.0258
18	ICSAB	-.0198	1.035	.0050	.0026	.0127	.0255
19	CCV_1	5.064	5.096	4.906	4.772	4.895	4.948
20	CCB_1	-.0279	.0047	.0098	.0079	.0321	.0141

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.852	4.861	.0238	4.799	4.798	9.411
2	ICB	.0140	.0000	-.0056	-.0000	.0219	.0435
3	ICSA	-.0074	-.0025	-.0154	.0008	.0021	.1649
4	ICSAB	-.0042	-.0025	-.0160	.0010	.0045	.1718
5	S95T003713_L	.0700	.0794	-.0058	.0028	.0422	.4962
6	S95T003713	.0223	.0079	-.0115	.0001	-.0080	.1156
7	S95T003713_D	.0170	.0079	-.0037	.0002	-.0027	.0911
8	S95T003713_A	1.242	1.256	.0023	1.232	1.277	2.493
9	CCV	4.916	4.923	.0266	4.842	4.916	9.538
~~10~~	~~CCB~~ 11-30-95	.0056	.0000	-.0009	.0004	.0176	.0170
~~11~~	~~CCB~~	.0010	.0000	-.0015	-.0006	.0079	.0121
12	CCB	.0034	.0000	-.0040	-.0002	-.0143	.0134
13	S95T003378_L	.2922	.0477	-.3071	-.0128	-.6065	1.738
14	S95T003378	.1441	.0368	-.0566	.0041	-.0859	.6076
15	S95T003378_D	.1153	.0364	-.0620	-.0048	.0870	.4798
16	S95T003378_A	10.33	10.37	.0218	10.32	10.04	20.25
17	ICSA	.0022	-.0022	-.0174	.0010	.0062	.1780
18	ICSAB	-.0031	-.0023	-.0151	.0015	-.0042	.1560
19	CCV_1	4.900	4.912	.0294	4.847	4.829	9.496
20	CCB_1	.0112	.0002	-.0012	.0002	.0053	.0492

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.904	.0101	5.012	4.856
2	ICB	.0019	.0007	-.0005	.0012
3	ICSA	-.0022	.0114	-.0004	-.0011
4	ICSAB	.4504	.0115	.9534	-.0009
5	S95T003713_L	.0129	.0045	.5472	.0179
6	S95T003713	.0038	.0014	.3698	.0041
7	S95T003713_D	.0027	.0010	.3703	.0026
8	S95T003713_A	1.256	.0035	1.681	1.239
9	CCV	4.939	.0096	5.018	4.899
~~10~~	~~CCB~~ 11-30-95	.0010	.0002	-.0006	.0006
~~11~~	~~CCB~~	.0003	.0004	-.0006	.0004
12	CCB	-.0000	.0004	-.0010	.0006
13	S95T003378_L	.0736	.0208	-.8156	.0685
14	S95T003378	.0344	.0084	-.8015	.0313
15	S95T003378_D	.0380	.0101	-.8115	.0135
16	S95T003378_A	10.57	.0250	10.01	10.41
17	ICSA	-.0004	.0118	-.0001	-.0001

WHC-SD-WM-DP-164, REV. 1

#	Sample Name	V	Y	Zn	Zr
18	ICSAB	.4576	.0116	.9550	-.0005
19	CCV_1	4.944	.0099	5.019	4.898
20	CCB_1	.0022	.0008	-.0007	.0009

11-30-95

LABCORE Data Entry Template for Worklist# 4023

Analyst: JK Sato **Instrument:** ICP01 _____ **Book#** ~~[illegible]~~ 50 B482
1-31-96

Method: LA-505-151/161 Rev/Mod J3

Worklist Comment: ICP(DIRECT) BY-110 and BY-104

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	S95T003574	0	D	@ICP-D01	LIQUID	95000171	BY-110
	Analytes Requested:	AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01						
6	DUP	S95T003574	0	D	@ICP-D01	LIQUID		
7	SPK	S95T003574	0	D	@ICP-D01	LIQUID		
8	SAMPLE	S95T003588	0	D	@ICP-D01	LIQUID	95000171	BY-110
	Analytes Requested:	AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01						
9	DUP	S95T003588	0	D	@ICP-D01	LIQUID		
10	SPK	S95T003588	0	D	@ICP-D01	LIQUID		
11	CCV				@ICP-QC	QC		
12	CCB				@ICP-QC	QC		

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4023

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	SAMPLE	S95T003761	0	D	@ICP-D01	LIQUID	95000200	BY104 ROTARY

Analytes Requested: AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01

S	Type	Sample#	R	A	Test	Matrix
14	DUP	S95T003761	0	D	@ICP-D01	LIQUID
15	SPK	S95T003761	0	D	@ICP-D01	LIQUID
16	SAMPLE	S95T003775	0	D	@ICP-D01	LIQUID

Group# 95000200 Project BY104 ROTARY

Analytes Requested: AG-D-01 , AL-D-01 , AS-D-01 , B-D-01 , BA-D-01 , BE-D-01 , BI-D-01 , CA-D-01 , CD-D-01 , CE-D-01 , CO-D-01 , CR-D-01 , CU-D-01 , FE-D-01 , K-D-01 , LA-D-01 , LI-D-01 , MG-D-01 , MN-D-01 , MO-D-01 , NA-D-01 , ND-D-01 , NI-D-01 , P-D-01 , PB-D-01 , S-D-01 , SB-D-01 , SE-D-01 , SI-D-01 , SM-D-01 , SR-D-01 , TI-D-01 , TL-D-01 , U-D-01 , V-D-01 , ZN-D-01 , ZR-D-01

S	Type	Sample#	R	A	Test	Matrix
17	DUP	S95T003775	0	D	@ICP-D01	LIQUID
18	SPK	S95T003775	0	D	@ICP-D01	LIQUID
19	ICSA				@ICP-QC	QC
20	ICSAB				@ICP-QC	QC
21	CCV				@ICP-QC	QC
22	CCB				@ICP-QC	QC

Final page for worklist # 4023

Jerrid L. Fitz 01-31-96
Analyst Signature Date

Reviewed by:
Sam M. Parry 2/1/96
Analyst Signature Date

57003574 , .025-30 , DF 1201
57003574_D , .025-30 1201
57003574_Q .025-30 1201 .025 ml sample + 6 ml 5575 + 24 ml HNO3

Data Entry Comments: (over)

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

595T003588	Direct	DF 1	
595T003588_D	Direct	1	
595T003588_a	Direct	1.25	3.2 ml sample + 0.8 ml SSTS
595T003761	.025-30	DF 1201	
595T003761_D	.025-30	1201	
595T003761_a	.025-30	1201	.025 ml sample + 6 ml SSTS + 24 ml HNO_3
595T003775	.025-30	DF 1201	
595T003775_D	.025-30	1201	
595T003775_a	.025-30	1201	.025 ml sample + 6 ml SSTS + 24 ml HNO_3

FIC. 76013LB

Identity 1: ICV Identity 2: Quality Control 1:56 PM January 31, 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	4.913	4.913	4.994	4.838	4.935	5.219	4.937	4.859
S.D.	0.018	0.019	0.006	0.014	0.017	0.012	0.014	0.008
% R.S.D.	0.360	0.384	0.120	0.300	0.346	0.225	0.286	0.168

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.204	5.079	4.905	5.058	4.830	5.176	4.933	9.634
S.D.	0.010	0.009	0.026	0.035	0.013	0.015	0.022	0.029
% R.S.D.	0.187	0.178	0.529	0.682	0.273	0.292	0.436	0.302

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.017	4.871	4.888	5.065	5.059	5.024	5.107	4.827
S.D.	0.027	0.013	0.018	0.011	0.013	0.011	0.011	0.009
% R.S.D.	0.531	0.272	0.369	0.210	0.263	0.226	0.216	0.189

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.160	5.060	5.009	5.110	4.929	5.086	5.014	4.959
S.D.	0.015	0.046	0.009	0.046	0.014	0.010	0.018	0.021
% R.S.D.	0.288	0.915	0.172	0.894	0.291	0.197	0.366	0.418

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.101	4.696	5.092	5.125	4.850
S.D.	0.006	0.039	0.008	0.014	0.011
% R.S.D.	0.112	0.823	0.163	0.282	0.224

JK [signature] LMCS ✓ [signature]
01-31-96

BY-110 595T003574
595T003588

BY-104 595T003761
595T003775

Worklist # 4023

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 681 TO 696.

Identity 1: ICB Identity 2: Quality Control 2:00 PM January 31, 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	-0.003	-0.011	0.000	-0.001	-0.000
S.D.	0.001	0.000	0.003	0.002	0.002	0.001	0.000	0.000
% R.S.D.	38.190	62.450	126.426	72.230	17.295	13502.361	31.733	52.680

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	0.000	-0.006	-0.003	0.000	-0.002	-0.003	-0.083
S.D.	0.000	0.001	0.000	0.001	0.000	0.001	0.006	0.044
% R.S.D.	308.426	226.938	0.365	49.180	0.000	40.558	193.941	53.168

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.028	0.010	-0.000	0.005	-0.002	0.000	0.004	-0.011
S.D.	0.010	0.010	0.000	0.002	0.003	0.000	0.002	0.003
% R.S.D.	37.245	97.360	64.060	48.113	161.052	346.408	59.978	28.641

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.008	-0.002	-0.027	-0.000	-0.001	0.001	-0.017
S.D.	0.001	0.011	0.001	0.006	0.000	0.000	0.000	0.011
% R.S.D.	58.926	126.173	45.104	24.288	57.594	21.685	25.151	62.981

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	0.040	-0.003	0.000	-0.073
S.D.	0.000	0.029	0.000	0.000	0.020
% R.S.D.	5.661	72.316	11.913	117.591	26.730

Identity 1: ICSA Identity 2: Quality Control 2:03 PM January 31, 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	0.005	0.002	-0.019	0.001	197.781	0.005	0.003	0.000
S.D.	0.001	0.000	0.012	0.003	1.335	0.002	0.001	0.000
% R.S.D.	29.403	3.608	63.778	231.266	0.675	52.464	20.117	87.741

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.008	0.008	-0.004	97.478	103.250	0.004	0.021	-0.111
S.D.	0.001	0.003	0.001	0.385	0.510	0.001	0.006	0.054
% R.S.D.	9.730	31.787	16.969	0.395	0.494	29.000	29.834	48.738

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.028	0.003	0.004	0.036	-0.012	101.819	0.015	186.199
S.D.	0.011	0.012	0.000	0.008	0.006	0.316	0.007	1.152
% R.S.D.	40.534	396.614	5.841	23.136	51.961	0.310	49.774	0.619

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.004	0.003	0.007	-0.001	0.002	0.016	0.074
S.D.	0.000	0.011	0.001	0.013	0.000	0.001	0.001	0.017
% R.S.D.	11.549	296.437	24.204	180.874	74.479	29.161	4.679	23.592

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.051	0.003	0.003	0.026
S.D.	0.000	0.006	0.000	0.000	0.032
% R.S.D.	44.943	11.106	14.547	3.462	126.271

Identity 1: ICSAB Identity 2: Quality Control 2:06 PM January 31, 1996

Task name : OPTIMA

Sample Weight : 1.0000 Solution Volume : 1.00

On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.001	0.002	-0.036	-0.005	199.171	0.503	0.487	0.911
S.D.	0.001	0.000	0.006	0.002	0.076	0.000	0.002	0.009
% R.S.D.	103.456	7.782	16.170	36.241	0.038	0.005	0.347	1.030

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.018	0.984	-0.003	97.393	103.036	0.505	0.006	-0.096
S.D.	0.003	0.003	0.002	0.167	0.115	0.003	0.014	0.068
% R.S.D.	0.270	0.270	78.085	0.172	0.111	0.612	236.948	71.143

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.021	0.004	0.491	0.028	0.012	102.511	0.013	187.451
S.D.	0.018	0.013	0.001	0.004	0.006	0.505	0.002	1.651
% R.S.D.	89.202	344.388	0.143	15.025	44.506	0.493	18.222	0.881

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.005	1.026	1.018	-0.000	0.999	0.017	0.140
S.D.	0.000	0.007	0.002	0.010	0.000	0.003	0.001	0.017
% R.S.D.	26.046	126.038	0.201	0.988	74.824	0.282	4.249	11.951

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.503	0.013	0.493	0.494	-0.000
S.D.	0.002	0.015	0.001	0.001	0.022
% R.S.D.	0.381	112.204	0.278	0.151	6236.993

Identity 1: CCV Identity 2: Quality Control 2:37 PM January 31, 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	4.881	4.873	4.921	4.817	4.954	5.174	4.918	4.885
S.D.	0.029	0.037	0.013	0.016	0.029	0.018	0.035	0.008
% R.S.D.	0.601	0.760	0.270	0.324	0.580	0.353	0.715	0.162

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.193	5.058	4.884	5.038	4.800	5.129	4.964	9.514
S.D.	0.016	0.029	0.026	0.027	0.037	0.020	0.051	0.060
% R.S.D.	0.305	0.581	0.541	0.526	0.771	0.386	1.027	0.626

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.994	4.825	4.851	5.036	5.077	4.995	5.064	4.874
S.D.	0.035	0.031	0.040	0.076	0.041	0.023	0.015	0.006
% R.S.D.	0.699	0.639	0.817	1.514	0.803	0.468	0.301	0.125

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.115	4.983	5.005	5.075	4.890	5.051	5.016	5.088
S.D.	0.018	0.032	0.021	0.041	0.033	0.027	0.031	0.026
% R.S.D.	0.357	0.641	0.414	0.808	0.675	0.525	0.617	0.506

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.073	4.638	5.062	5.090	4.849
S.D.	0.028	0.044	0.031	0.033	0.001
% R.S.D.	0.543	0.951	0.603	0.642	0.017

Identity 1: CCB Identity 2: Quality Control 2:40 PM January 31, 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	0.000	0.004	-0.001	-0.001	0.001	0.000	0.000
S.D.	0.002	0.000	0.005	0.003	0.003	0.001	0.000	0.000
% R.S.D.	2688.181	53.294	123.868	225.101	313.359	173.684	150.578	89.783

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.001	-0.002	-0.001	0.001	-0.006	-0.001	0.015	0.035
S.D.	0.000	0.001	0.000	0.001	0.000	0.001	0.004	0.054
% R.S.D.	27.086	41.711	3.218	57.529	0.593	66.393	26.169	154.818

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.006	0.011	0.000	-0.010	0.006	-0.000	0.005	0.009
S.D.	0.010	0.011	0.000	0.005	0.004	0.000	0.004	0.004
% R.S.D.	165.132	98.425	127.680	47.874	65.258	86.603	75.686	48.036

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.007	-0.010	0.001	0.010	0.000	-0.001	0.005	0.136
S.D.	0.000	0.006	0.001	0.015	0.000	0.000	0.001	0.025
% R.S.D.	3.652	64.508	115.480	150.994	229.633	20.134	12.187	18.385

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	0.008	-0.001	0.000	-0.018
S.D.	0.000	0.011	0.001	0.000	0.026
% R.S.D.	345.563	140.500	101.557	172.510	145.593

Identity 1: S95T003761 Identity 2: .025-30 ml 2:43 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1201.00
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	0.446	0.239	-0.872	97.221	68613.715	-2.939	-0.144	-0.869
S.D.	0.250	0.038	17.405	2.040	296.446	1.720	0.190	0.237
% R.S.D.	56.065	15.746	1996.669	2.098	0.432	58.529	132.093	27.282

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.472	6.550	-5.739	1.385	-2.650	4409.879	-7.312	-59.098
S.D.	0.664	2.603	5.015	2.698	0.041	13.235	4.193	6.953
% R.S.D.	45.108	39.739	87.376	194.791	1.533	0.300	57.350	11.765

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-22.313	-8.332	-0.455	382.616	299.954	-0.287	-3.303	238265.484
S.D.	1.702	1.085	0.072	13.554	4.210	0.099	3.599	1001.271
% R.S.D.	7.628	13.022	15.746	3.542	1.404	34.641	108.968	0.420

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	90.240	-77.382	-0.710	94.122	-0.439	0.582	28.066	9523.968
S.D.	0.841	14.476	0.101	11.308	0.237	1.013	1.500	52.714
% R.S.D.	0.932	18.707	14.167	12.014	53.926	173.886	5.344	0.553

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.188	50.219	-3.646	1.756	-32.114
S.D.	0.295	10.939	0.347	0.128	7.498
% R.S.D.	157.416	21.782	9.527	7.306	23.347

Identity 1: S95T003761_D Identity 2: .025-30 ml 2:47 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1201.00
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	-4.845	0.217	-20.201	89.887	70158.601	-0.931	-0.484	-0.588
S.D.	1.304	0.100	10.104	0.812	346.684	0.007	0.406	0.294
% R.S.D.	26.921	45.826	50.016	0.903	0.494	0.732	83.793	49.973

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.519	3.455	-3.439	7.627	-1.876	4472.992	-6.336	-233.212
S.D.	0.237	1.121	2.198	0.811	0.107	16.693	4.457	53.688
% R.S.D.	15.583	32.458	63.894	10.632	5.728	0.373	70.353	23.021

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-33.705	-45.885	-0.599	383.769	307.656	-0.517	-4.224	246634.742
S.D.	10.583	7.937	0.186	11.533	1.718	0.000	4.459	2837.477
% R.S.D.	31.399	17.297	31.034	3.005	0.558	0.000	105.572	1.150

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	87.903	-62.644	-1.552	73.199	-2.705	-0.592	27.387	9807.972
S.D.	1.392	24.483	0.886	1.631	0.515	0.144	1.547	144.175
% R.S.D.	1.584	39.083	57.043	2.228	19.030	24.366	5.648	1.470

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.069	-1.549	-3.881	1.731	-56.525
S.D.	0.165	9.074	1.274	0.133	20.773
% R.S.D.	237.737	585.911	32.834	7.712	36.750

Identity 1: S95T003761_A Identity 2: .025sam+6sst5+24hno3 2:50 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1201.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	1154.259	1202.366	1220.920	1286.938	71982.700	1237.680	1175.113	1151.979
S.D.	3.774	5.996	13.206	1.657	430.942	2.983	6.146	6.484
% R.S.D.	0.327	0.499	1.082	0.129	0.599	0.241	0.523	0.563

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1231.701	1240.491	1197.278	1243.604	1162.956	5834.885	1244.367	2149.151
S.D.	2.203	2.533	3.277	10.653	6.046	16.137	5.991	43.211
% R.S.D.	0.179	0.204	0.274	0.857	0.520	0.277	0.481	2.011

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1221.008	1149.780	1195.151	1567.171	1519.775	1207.995	1233.623	244835.909
S.D.	10.856	6.103	6.724	23.123	10.988	2.791	4.934	1041.767
% R.S.D.	0.889	0.531	0.563	1.475	0.723	0.231	0.400	0.425

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	1311.613	1168.591	784.033	1368.428	1176.031	1232.369	1219.330	11122.533
S.D.	6.609	21.347	11.832	15.875	4.034	4.045	6.920	28.869
% R.S.D.	0.504	1.827	1.509	1.160	0.343	0.328	0.568	0.260

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1247.925	1147.481	1218.643	1240.392	1164.947
S.D.	3.251	43.280	2.791	6.504	30.490
% R.S.D.	0.260	3.772	0.229	0.524	2.617

Identity 1: S95T003775 Identity 2: .025-30 ml 2:55 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1201.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-0.621	0.326	-1.320	102.862	74795.224	7.986	0.019	0.075
S.D.	0.534	0.065	4.979	0.631	359.544	0.006	0.098	0.205
% R.S.D.	85.972	20.000	377.055	0.613	0.481	0.079	531.222	273.349

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.929	7.881	-1.960	-3.875	-0.047	3859.217	2.662	-119.660
S.D.	0.210	1.509	1.636	3.157	0.041	3.445	6.691	49.372
% R.S.D.	22.615	19.149	83.460	81.467	86.603	0.089	251.350	41.260

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	11.285	10.419	0.114	446.764	333.733	0.115	-1.461	253889.254
S.D.	7.843	7.990	0.270	5.157	4.267	0.099	3.368	1961.180
% R.S.D.	69.505	76.686	237.758	1.154	1.279	86.602	230.541	0.772

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	96.366	-97.648	1.801	115.489	-1.487	-0.086	31.027	10486.324
S.D.	0.573	26.182	1.060	5.050	0.366	0.724	1.930	127.967
% R.S.D.	0.595	26.813	58.832	4.373	24.589	842.602	6.220	1.220

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.183	-24.616	-2.040	2.876	29.575
S.D.	0.290	25.623	0.080	0.125	15.073
% R.S.D.	158.854	104.091	3.946	4.351	50.967

Identity 1: S95T003775_D Identity 2: .025-30 ml 2:58 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1201.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	2.301	-0.152	3.744	111.049	74533.375	-4.938	-2.269	-1.318
S.D.	0.494	0.100	6.519	2.041	266.935	3.437	0.057	0.078
% R.S.D.	21.481	65.465	174.136	1.838	0.358	69.607	2.491	5.884

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.577	7.655	0.484	-1.607	-1.243	3819.843	-9.037	17.939
S.D.	0.541	1.239	1.430	0.550	0.162	16.463	11.939	37.258
% R.S.D.	93.772	16.186	295.211	34.208	13.072	0.431	132.121	207.690

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-48.849	10.470	-0.961	456.407	337.759	-0.230	-2.327	253467.372
S.D.	7.279	4.697	0.147	4.858	3.661	0.099	5.639	1671.805
% R.S.D.	14.901	44.868	15.245	1.064	1.084	43.301	242.343	0.660

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	94.621	-98.829	-3.162	86.375	0.462	-1.585	28.262	10295.758
S.D.	2.342	6.452	0.541	2.814	0.216	0.629	0.655	119.311
% R.S.D.	2.475	6.528	17.103	3.257	46.825	39.695	2.316	1.159

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.296	-39.378	-5.623	1.861	-11.816
S.D.	0.619	18.337	1.233	0.221	14.199
% R.S.D.	208.868	46.566	21.924	11.880	120.167

Identity 1: S95T003775_A Identity 2: .025sam+6sst5+24hno3 3:02 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1201.00
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	1157.751	1211.964	1200.673	1293.955	70950.384	1224.749	1187.673	1168.061
S.D.	0.907	3.454	12.655	0.793	401.144	3.442	3.790	7.450
% R.S.D.	0.078	0.285	1.054	0.061	0.565	0.281	0.319	0.638

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1206.874	1233.335	1213.538	1228.632	1170.677	4771.792	1243.730	2315.703
S.D.	2.786	3.705	2.965	12.431	1.822	9.306	7.874	36.644
% R.S.D.	0.231	0.300	0.244	1.012	0.156	0.195	0.633	1.582

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1209.800	1223.877	1209.135	1589.613	1492.899	1193.757	1233.936	241421.999
S.D.	7.170	4.165	3.413	12.837	19.212	2.205	9.128	1294.109
% R.S.D.	0.593	0.340	0.282	0.808	1.287	0.185	0.740	0.536

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	1301.523	1173.962	721.772	1346.318	1178.750	1228.872	1215.040	10821.937
S.D.	4.683	25.796	14.779	28.574	2.265	2.880	4.631	47.842
% R.S.D.	0.360	2.197	2.048	2.122	0.192	0.234	0.381	0.442

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1237.366	1127.601	1212.239	1241.338	1191.831
S.D.	3.290	13.473	0.439	1.854	23.440
% R.S.D.	0.266	1.195	0.036	0.149	1.967

Identity 1: ICSA Identity 2: Quality Control 3:06 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. I

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.006	0.002	-0.016	0.000	203.232	0.003	0.003	-0.000
S.D.	0.001	0.000	0.009	0.002	0.553	0.004	0.000	0.000
% R.S.D.	8.947	1.431	53.946	625.727	0.272	123.535	1.617	93.459

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.008	0.005	-0.001	98.646	103.652	0.000	0.009	-0.110
S.D.	0.000	0.000	0.002	0.056	0.183	0.001	0.008	0.006
% R.S.D.	3.558	7.545	164.438	0.057	0.176	408.470	93.677	5.251

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.014	0.015	0.004	0.034	-0.015	101.842	0.009	186.078
S.D.	0.002	0.001	0.000	0.002	0.002	0.171	0.003	2.550
% R.S.D.	17.534	4.819	1.076	6.798	16.117	0.168	30.257	1.371

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.006	-0.023	0.013	0.019	-0.000	0.002	0.016	0.148
S.D.	0.002	0.010	0.002	0.003	0.000	0.001	0.001	0.012
% R.S.D.	36.374	44.106	12.658	13.164	28.575	33.439	8.531	8.118

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.004	0.001	0.003	-0.006
S.D.	0.000	0.020	0.000	0.000	0.002
% R.S.D.	18.556	551.633	72.102	6.683	32.041

Identity 1: ICSAB Identity 2: Quality Control 3:09 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.003	0.002	-0.044	-0.003	203.356	0.503	0.485	0.904
S.D.	0.001	0.000	0.008	0.006	0.820	0.002	0.002	0.003
% R.S.D.	42.184	2.703	19.073	237.711	0.403	0.492	0.377	0.361

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.014	0.985	-0.002	98.132	103.102	0.505	0.003	-0.080
S.D.	0.001	0.002	0.001	0.181	0.394	0.005	0.006	0.053
% R.S.D.	0.106	0.167	84.614	0.185	0.383	0.925	215.708	66.618

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.006	0.008	0.489	0.034	0.014	101.976	0.013	186.073
S.D.	0.010	0.008	0.002	0.008	0.004	0.166	0.006	0.589
% R.S.D.	162.193	96.236	0.502	22.851	25.034	0.163	46.374	0.317

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.012	1.029	1.002	-0.000	0.997	0.017	0.188
S.D.	0.001	0.022	0.002	0.004	0.000	0.003	0.001	0.011
% R.S.D.	84.525	187.294	0.191	0.369	286.328	0.289	3.488	5.795

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.504	0.047	0.494	0.493	-0.014
S.D.	0.001	0.013	0.001	0.002	0.019
% R.S.D.	0.187	26.650	0.217	0.459	135.082

Identity 1: CCV Identity 2: Quality Control 3:12 PM January 31, 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	4.911	4.904	4.958	4.798	5.054	5.130	4.972	4.901
S.D.	0.005	0.004	0.018	0.004	0.005	0.008	0.006	0.016
% R.S.D.	0.106	0.080	0.359	0.083	0.093	0.155	0.122	0.332

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.156	5.057	4.970	5.085	4.856	5.123	5.140	9.660
S.D.	0.007	0.009	0.002	0.013	0.002	0.007	0.015	0.036
% R.S.D.	0.132	0.178	0.036	0.247	0.046	0.138	0.290	0.370

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.961	4.916	4.898	5.003	4.989	4.963	5.054	4.885
S.D.	0.004	0.001	0.004	0.029	0.015	0.004	0.034	0.015
% R.S.D.	0.072	0.012	0.085	0.571	0.299	0.074	0.674	0.308

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.073	5.014	4.996	5.099	4.905	5.049	5.078	5.115
S.D.	0.004	0.025	0.005	0.024	0.005	0.008	0.009	0.017
% R.S.D.	0.081	0.495	0.107	0.464	0.097	0.163	0.185	0.326

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.086	4.683	5.079	5.119	4.825
S.D.	0.006	0.029	0.004	0.005	0.014
% R.S.D.	0.126	0.622	0.070	0.105	0.296

Identity 1: CCB Identity 2: Quality Control 3:15 PM January 31, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.002	-0.000	0.008	0.005	-0.017	-0.003	-0.001	-0.000
S.D.	0.001	0.000	0.006	0.002	0.003	0.000	0.000	0.000
% R.S.D.	39.644	130.931	73.605	32.548	19.504	0.236	23.699	83.273

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.002	0.004	0.002	0.002	-0.005	-0.002	-0.006	0.115
S.D.	0.000	0.001	0.001	0.001	0.000	0.001	0.011	0.061
% R.S.D.	17.635	31.803	66.062	64.811	1.087	31.264	181.015	53.017

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.018	0.017	-0.000	0.003	0.002	0.000	0.005	0.005
S.D.	0.010	0.012	0.000	0.002	0.002	0.000	0.003	0.006
% R.S.D.	54.660	66.544	84.171	54.583	110.648	34.641	55.059	108.236

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.006	0.007	0.002	0.007	0.001	-0.001	0.002	0.042
S.D.	0.001	0.012	0.001	0.008	0.000	0.000	0.001	0.020
% R.S.D.	13.549	160.821	46.426	117.881	42.216	46.129	21.156	48.435

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	0.006	-0.004	-0.000	-0.020
S.D.	0.000	0.018	0.001	0.000	0.011
% R.S.D.	57.373	280.349	13.726	113.210	56.081

JK Lito
01-31-96

File # 951227A.DM

LABCORE Data Entry Template for Worklist# 4387

Analyst: B. GOECKE **Instrument:** ICP01 **Book#** 49848

Method: LA-505-151/~~161~~ Rev/Mod D-3 BC 12-21-95 WHC-SD-WM-DP-164, REV. 1

Worklist Comment: ICP BY-104 (FUSION)

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-F01	SOLID		
6	SAMPLE	S95T003530	0	Z	@ICP-F01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 , U-F-01			
7	DUP	S95T003530	0	Z	@ICP-F01	SOLID		
8	SPK	S95T003530	0	Z	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T003649	0	Z	@ICP-F01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 , U-F-01			
12	DUP	S95T003649	0	Z	@ICP-F01	SOLID		
13	SPK	S95T003649	0	Z	@ICP-F01	SOLID		
14	ICSA				@ICP-QC	QC		
15	ICSAB				@ICP-QC	QC		
16	CCV				@ICP-QC	QC		

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4387

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
17	CCB				@ICP-QC	QC		WHC-SD-WM-DP-164, REV. 1

Final page for worklist # 4387

Analyst Signature: [signature] Date: 12-27-95

Reviewed by: Analyst Signature: [signature] Date: 01/03/96

		D.F.
PREPBLANK	.250-L-10-L	1
595700 3530-L	.250-L-10-L-2-L-5-L	205
595700 3530	.250-L-10-L	41
595700 3530-D	.250-L-10-L	41
595700 3530-A	.250-L-2-L-5-L	41
595700 3649-L	.250-L-10-L-2-L-5-L	205
595700 3649	.250-L-10-L	41
595700 3649-D	.250-L-10-L	41
595700 3649-A	.250-L-2-L-5-L	41

Data Entry Comments:

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

Identity 1: ICV Identity 2: Quality Control 10:11 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	5.059	4.930	4.996	4.954	4.874	4.955	5.057	4.951
S.D.	0.005	0.005	0.027	0.006	0.007	0.004	0.002	0.027
% R.S.D.	0.097	0.095	0.545	0.118	0.148	0.071	0.035	0.546

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.098	5.046	5.066	5.233	4.992	5.076	5.391	9.839
S.D.	0.005	0.005	0.003	0.025	0.006	0.010	0.022	0.042
% R.S.D.	0.101	0.092	0.063	0.486	0.117	0.192	0.413	0.426

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.852	5.066	4.946	5.058	4.913	4.718	5.060	4.889
S.D.	0.011	0.004	0.004	0.078	0.006	0.002	0.013	0.032
% R.S.D.	0.231	0.078	0.079	1.545	0.124	0.043	0.256	0.655

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.009	5.360	4.979	5.118	4.916	5.072	5.196	5.012
S.D.	0.011	0.039	0.004	0.031	0.002	0.010	0.004	0.022
% R.S.D.	0.216	0.726	0.084	0.611	0.049	0.205	0.083	0.445

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.063	4.843	5.107	5.210	4.883
S.D.	0.009	0.013	0.005	0.006	0.009
% R.S.D.	0.180	0.278	0.094	0.116	0.182

12-27-95
B4-104
59.700 3532, 3699
Fusion
.250 mL-10 mL
File # 951227A.DAT

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 699 TO 717.

Identity 1: ICB Identity 2: Quality Control 10:14 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.000	-0.000	0.039	0.006	-0.016	0.002	-0.002	-0.000
S.D.	0.001	0.000	0.005	0.003	0.007	0.000	0.001	0.000
% R.S.D.	697.664	624.500	12.408	46.663	41.122	0.400	28.560	624.763

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.004	0.001	-0.001	0.000	-0.003	-0.003	-0.022
S.D.	0.000	0.001	0.003	0.001	0.000	0.000	0.005	0.063
% R.S.D.	39.588	34.884	386.002	119.668	276.855	11.802	159.501	290.677

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.020	0.000	-0.000	-0.001	-0.004	-0.000	-0.005	-0.009
S.D.	0.014	0.010	0.000	0.007	0.003	0.000	0.005	0.005
% R.S.D.	73.521	10433.798	70.685	932.659	58.999	21511697.756	118.203	58.082

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	-0.014	-0.001	-0.033	0.001	0.000	0.005	-0.028
S.D.	0.001	0.014	0.001	0.008	0.001	0.001	0.001	0.023
% R.S.D.	768.864	96.476	101.031	24.968	68.315	529.147	12.265	81.117

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	0.041	-0.003	-0.000	0.033
S.D.	0.000	0.009	0.002	0.000	0.027
% R.S.D.	86.112	21.058	62.191	7268.043	82.171

Identity 1: ICSA Identity 2: Quality Control 10:17 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.010	0.002	-0.010	0.042	197.861	0.004	0.002	0.000
S.D.	0.001	0.000	0.006	0.001	0.133	0.002	0.000	0.000
% R.S.D.	13.204	4.166	66.205	2.650	0.067	43.368	20.058	95.727

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.007	0.008	0.003	100.777	102.277	-0.002	-0.045	0.014
S.D.	0.000	0.002	0.001	0.329	0.196	0.003	0.005	0.050
% R.S.D.	2.902	27.754	42.154	0.327	0.192	171.119	10.187	346.687

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.009	0.038	0.004	0.056	0.054	106.549	0.062	186.232
S.D.	0.011	0.011	0.000	0.016	0.020	0.390	0.003	1.385
% R.S.D.	113.339	28.752	6.148	29.085	37.257	0.366	4.471	0.744

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	0.044	0.001	-0.001	0.001	0.003	0.016	-0.027
S.D.	0.001	0.014	0.001	0.018	0.000	0.001	0.001	0.013
% R.S.D.	51.513	31.167	99.742	1991.238	27.589	19.334	4.061	49.461

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	0.014	-0.001	0.003	0.007
S.D.	0.000	0.035	0.001	0.000	0.021
% R.S.D.	8.219	248.285	126.306	11.370	321.650

Identity 1: ICSAB Identity 2: Quality Control 10:19 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.007	0.002	-0.032	0.040	198.618	0.488	0.506	0.930
S.D.	0.001	0.000	0.006	0.002	0.593	0.003	0.000	0.005
% R.S.D.	14.315	3.093	17.807	5.417	0.299	0.715	0.083	0.555

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.991	0.985	0.004	100.443	102.507	0.497	-0.055	0.049
S.D.	0.003	0.003	0.002	0.234	0.373	0.005	0.004	0.027
% R.S.D.	0.266	0.294	55.532	0.233	0.364	0.910	7.466	53.627

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.005	0.049	0.506	0.035	0.037	106.469	0.047	187.593
S.D.	0.012	0.003	0.001	0.005	0.009	0.712	0.003	0.682
% R.S.D.	221.276	6.805	0.267	15.710	25.651	0.669	7.440	0.364

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	0.068	1.021	0.995	0.001	1.003	0.015	-0.045
S.D.	0.002	0.031	0.003	0.018	0.000	0.000	0.001	0.004
% R.S.D.	1438.705	45.693	0.259	1.840	30.999	0.045	5.068	9.706

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.506	0.032	0.498	0.505	0.018
S.D.	0.001	0.026	0.001	0.002	0.008
% R.S.D.	0.171	81.806	0.214	0.373	44.595

Identity 1: prepblkarl Identity 2: .250ml-10ml 10:25 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.274	0.001	0.016	-0.014	-0.003	0.009	-0.001	0.001
S.D.	0.000	0.000	0.011	0.001	0.001	0.002	0.000	0.000
% R.S.D.	0.070	10.825	65.024	4.993	52.929	19.224	13.873	26.956

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	0.002	-0.004	0.006	0.007	-0.001	0.015	0.015
S.D.	0.000	0.003	0.001	0.002	0.000	0.001	0.005	0.018
% R.S.D.	101.462	182.196	27.299	25.405	1.366	174.924	30.586	118.021

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.032	-0.020	0.001	0.002	-0.005	0.001	-0.000	0.108
S.D.	0.009	0.004	0.000	0.001	0.003	0.000	0.003	0.002
% R.S.D.	29.294	20.626	16.777	57.779	54.219	14.434	770.101	1.875

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.002	-0.012	0.002	-0.017	0.000	0.001	0.002	287.529
S.D.	0.001	0.007	0.000	0.005	0.000	0.001	0.000	0.928
% R.S.D.	71.372	57.605	13.083	29.027	140.110	78.057	16.421	0.323

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	0.043	0.002	0.000	0.015
S.D.	0.000	0.013	0.000	0.000	0.013
% R.S.D.	2125.668	30.551	25.433	166.900	83.583

Identity 1: S95T003530_L Identity 2: .250ml-10ml-2ml-8ml 10:33 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	8.923	3.411	-0.026	2.896	101.960	1.039	-0.523	0.031
S.D.	0.200	0.025	2.341	0.680	1.274	0.001	0.069	0.060
% R.S.D.	2.245	0.721	8867.354	23.467	1.250	0.130	13.100	194.375

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.189	3.290	-0.404	16.467	3.357	36.612	0.967	1.373
S.D.	0.127	0.233	0.247	0.402	0.063	0.478	0.303	10.536
% R.S.D.	67.131	7.069	61.153	2.440	1.864	1.304	31.339	767.671

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-1.996	-2.635	0.044	20.364	28.758	0.314	-0.965	416.236
S.D.	2.778	1.582	0.055	1.056	0.376	0.000	0.667	3.139
% R.S.D.	139.188	60.051	125.208	5.187	1.307	0.000	69.062	0.754

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.030	2.486	-0.268	-4.636	0.292	0.184	-0.090	9919.806
S.D.	0.220	1.355	0.147	2.611	0.069	0.156	0.025	66.388
% R.S.D.	734.020	54.499	54.634	56.315	23.600	84.842	28.195	0.669

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.584	6.746	-0.554	0.027	0.227
S.D.	0.001	4.732	0.200	0.024	6.410
% R.S.D.	0.211	70.152	36.085	86.808	2822.561

Identity 1: S95T003530 Identity 2: .250ml-10ml 10:37 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	9.062	3.420	1.000	3.016	105.470	0.332	-0.006	0.021
S.D.	0.020	0.007	0.235	0.113	0.230	0.000	0.022	0.003
% R.S.D.	0.217	0.211	23.457	3.757	0.218	0.042	362.422	12.608

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.445	2.883	-0.042	16.714	3.179	37.358	0.174	9.168
S.D.	0.019	0.123	0.102	0.207	0.021	0.162	0.251	1.078
% R.S.D.	4.172	4.272	240.431	1.240	0.671	0.432	144.144	11.764

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.800	0.019	0.110	19.927	29.273	0.301	0.260	402.969
S.D.	0.199	0.168	0.004	0.713	0.358	0.004	0.073	1.301
% R.S.D.	24.916	876.527	3.441	3.579	1.222	1.246	28.049	0.323

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.007	3.185	0.136	1.072	0.252	0.270	0.015	9377.487
S.D.	0.024	0.500	0.014	0.367	0.015	0.026	0.024	30.650
% R.S.D.	345.188	15.708	9.924	34.273	5.995	9.556	160.908	0.327

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.701	1.821	0.036	0.015	0.855
S.D.	0.017	0.374	0.035	0.005	0.964
% R.S.D.	2.466	20.562	97.651	32.675	112.743

Identity 1: S95T003530_D Identity 2: .250ml-10ml 10:40 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	12.203	4.383	1.193	3.646	126.447	0.165	-0.010	0.009
S.D.	0.020	0.004	0.488	0.059	0.282	0.072	0.003	0.006
% R.S.D.	0.160	0.082	40.953	1.628	0.223	43.662	28.319	64.455

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.205	3.815	-0.023	22.482	3.599	44.187	0.117	13.953
S.D.	0.016	0.070	0.085	0.032	0.005	0.246	0.163	1.087
% R.S.D.	7.860	1.847	367.209	0.142	0.148	0.557	138.999	7.787

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.337	0.317	0.120	9.533	34.812	0.392	-0.109	459.268
S.D.	0.245	0.218	0.007	0.517	0.406	0.004	0.025	2.182
% R.S.D.	72.804	68.709	6.053	5.424	1.165	0.957	23.003	0.475

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.050	4.147	0.143	1.741	0.699	0.241	0.001	13251.729
S.D.	0.022	0.566	0.014	0.341	0.007	0.016	0.024	44.690
% R.S.D.	44.175	13.646	9.441	19.566	0.990	6.479	3359.038	0.337

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	1.158	0.855	0.033	0.031	0.296
S.D.	0.011	0.086	0.034	0.012	0.504
% R.S.D.	0.975	10.023	102.497	39.695	170.251

Identity 1: S95T003530_A Identity 2: .250ml-2ml-8ml 10:44 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	49.404	42.726	39.562	43.322	146.017	39.921	40.143	37.630
S.D.	0.068	0.046	0.839	0.080	0.241	0.072	0.012	0.154
% R.S.D.	0.137	0.107	2.122	0.184	0.165	0.180	0.029	0.410

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	40.558	42.862	40.212	57.993	41.717	78.128	42.680	85.083
S.D.	0.098	0.229	0.157	0.555	0.031	0.144	0.859	0.915
% R.S.D.	0.242	0.535	0.391	0.956	0.074	0.184	2.012	1.075

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	39.348	39.521	39.232	58.415	68.904	36.278	40.713	444.968
S.D.	0.323	0.274	0.043	1.553	0.673	0.051	0.286	1.700
% R.S.D.	0.820	0.694	0.109	2.659	0.977	0.140	0.702	0.382

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	39.846	45.528	33.499	42.711	39.224	40.341	40.353	9471.225
S.D.	0.096	0.773	0.125	0.107	0.018	0.092	0.127	32.623
% R.S.D.	0.242	1.699	0.373	0.250	0.046	0.229	0.314	0.344

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	40.755	38.922	40.774	40.682	40.501
S.D.	0.138	0.876	0.081	0.108	0.531
% R.S.D.	0.339	2.251	0.198	0.265	1.312

Identity 1: CCV Identity 2: Quality Control 10:47 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	5.054	4.891	5.002	4.933	4.880	5.004	4.983	4.842
S.D.	0.011	0.015	0.039	0.017	0.019	0.030	0.003	0.014
% R.S.D.	0.221	0.306	0.771	0.346	0.382	0.599	0.057	0.289

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.192	5.099	5.029	5.260	4.936	5.123	5.326	9.680
S.D.	0.022	0.011	0.011	0.015	0.010	0.025	0.029	0.010
% R.S.D.	0.422	0.223	0.215	0.285	0.202	0.484	0.543	0.100

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.846	4.982	4.879	5.031	4.941	4.783	5.076	4.837
S.D.	0.025	0.008	0.011	0.194	0.084	0.025	0.037	0.018
% R.S.D.	0.509	0.166	0.233	3.849	1.702	0.526	0.721	0.362

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.052	5.345	5.043	5.166	4.889	5.115	5.196	5.083
S.D.	0.031	0.052	0.010	0.020	0.020	0.020	0.009	0.024
% R.S.D.	0.622	0.976	0.207	0.382	0.411	0.397	0.168	0.463

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.094	4.809	5.139	5.193	4.909
S.D.	0.020	0.031	0.016	0.014	0.029
% R.S.D.	0.390	0.640	0.311	0.269	0.585

Identity 1: CCB Identity 2: Quality Control 10:51 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.002	0.000	0.011	0.004	-0.009	0.004	-0.002	-0.000
S.D.	0.001	0.000	0.006	0.001	0.006	0.002	0.000	0.000
% R.S.D.	79.845	86.603	56.301	32.110	63.149	43.231	9.650	132.298

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.005	0.000	0.000	0.000	-0.004	0.001	0.001
S.D.	0.000	0.002	0.002	0.000	0.000	0.001	0.009	0.036
% R.S.D.	18.418	48.937	363993.306	101.847	83.189	42.283	647.104	3299.304

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.002	-0.005	0.000	-0.008	-0.008	-0.000	-0.004	0.000
S.D.	0.010	0.005	0.000	0.002	0.000	0.000	0.006	0.001
% R.S.D.	480.115	100.054	332.916	19.922	5.523	21511697.756	135.438	112622.124

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.003	0.000	-0.006	0.001	0.001	0.004	0.017
S.D.	0.001	0.013	0.001	0.004	0.000	0.001	0.000	0.018
% R.S.D.	46.110	485.060	543522.814	75.791	22.711	69.373	7.089	103.486

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	0.021	-0.003	0.000	0.005
S.D.	0.000	0.029	0.000	0.000	0.015
% R.S.D.	56.578	143.283	14.028	179.708	276.873

Identity 1: S95T003649_L Identity 2: .250ml-10ml-2ml-8ml 10:57 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. I

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	9.200	0.827	0.472	0.399	47.527	1.871	-0.241	0.084
S.D.	0.197	0.012	1.489	0.291	0.521	0.720	0.018	0.038
% R.S.D.	2.145	1.429	315.718	73.060	1.097	38.452	7.648	45.625

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	2.549	1.671	-0.655	3.089	2.622	6.910	2.055	-9.613
S.D.	0.090	0.161	0.001	0.087	0.021	0.063	0.687	2.176
% R.S.D.	3.534	9.652	0.152	2.806	0.807	0.906	33.452	22.633

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	3.553	-4.431	0.082	6.102	19.248	0.065	0.578	619.669
S.D.	0.542	0.369	0.016	1.451	0.113	0.019	0.218	3.166
% R.S.D.	15.260	8.321	19.245	23.783	0.589	28.868	37.779	0.511

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.241	8.272	0.203	-3.154	0.025	0.170	0.228	11800.814
S.D.	0.261	2.134	0.032	0.321	0.043	0.185	0.159	34.488
% R.S.D.	108.484	25.794	15.974	10.169	174.866	108.737	69.853	0.292

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.018	11.426	0.012	0.026	10.066
S.D.	0.057	4.219	0.093	0.047	1.201
% R.S.D.	319.283	36.926	776.714	182.627	11.934

Identity 1: S95T003649 Identity 2: .250ml-10ml 11:00 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	9.697	0.791	0.289	0.336	48.499	0.207	-0.094	-0.005
S.D.	0.016	0.001	0.070	0.063	0.147	0.000	0.006	0.003
% R.S.D.	0.166	0.173	24.371	18.796	0.303	0.081	5.955	49.208

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.354	0.801	-0.209	2.326	1.131	6.938	-0.214	5.112
S.D.	0.024	0.107	0.075	0.085	0.005	0.060	0.092	1.309
% R.S.D.	6.741	13.319	35.805	3.654	0.436	0.859	43.045	25.613

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.591	0.332	0.012	6.819	21.304	0.063	0.334	601.455
S.D.	0.353	0.153	0.006	0.340	0.414	0.006	0.151	1.567
% R.S.D.	59.644	46.282	45.757	4.981	1.945	10.345	45.249	0.261

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.128	0.624	0.007	-0.112	0.056	0.054	-0.007	11208.718
S.D.	0.037	0.096	0.021	0.490	0.005	0.021	0.020	30.114
% R.S.D.	28.756	15.326	294.707	437.920	9.594	37.815	295.632	0.269

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.112	1.825	-0.059	0.001	0.863
S.D.	0.007	0.832	0.033	0.008	0.847
% R.S.D.	5.862	45.592	56.071	1234.609	98.211

Identity 1: S95T003649_D Identity 2: .250ml-10ml 11:04 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	11.246	0.706	0.362	0.040	44.052	0.457	-0.047	0.027
S.D.	0.032	0.003	0.109	0.096	0.274	0.125	0.012	0.004
% R.S.D.	0.281	0.387	30.005	238.567	0.623	27.314	26.203	14.823

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.084	0.624	0.018	2.373	0.735	6.351	-0.347	3.524
S.D.	0.005	0.043	0.097	0.040	0.003	0.068	0.135	0.906
% R.S.D.	6.386	6.843	534.707	1.692	0.362	1.065	38.882	25.714

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.934	-0.855	0.040	5.705	17.680	0.052	0.117	557.398
S.D.	0.109	0.176	0.002	0.606	0.226	0.004	0.168	5.781
% R.S.D.	11.701	20.626	4.204	10.629	1.281	7.217	143.927	1.037

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.044	-0.896	0.088	-0.070	0.038	0.075	0.002	10632.634
S.D.	0.044	0.259	0.007	0.048	0.007	0.027	0.014	75.417
% R.S.D.	99.434	28.911	8.379	68.221	17.508	36.283	697.122	0.709

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.097	-0.226	-0.009	0.011	0.990
S.D.	0.006	1.516	0.051	0.005	0.338
% R.S.D.	6.657	669.722	551.200	40.547	34.124

Identity 1: S95T003649_A Identity 2: .250ml-2ml-8ml 11:08 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	49.995	39.690	38.878	40.250	86.725	39.465	39.722	36.662
S.D.	0.052	0.164	0.496	0.197	0.336	0.124	0.168	0.450
% R.S.D.	0.104	0.413	1.277	0.489	0.388	0.315	0.424	1.229

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	40.759	40.773	40.191	43.811	39.579	47.684	43.570	79.000
S.D.	0.219	0.160	0.223	0.399	0.147	0.139	0.323	2.298
% R.S.D.	0.537	0.393	0.556	0.911	0.372	0.292	0.741	2.909

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	38.996	39.232	38.683	44.759	59.951	36.132	40.242	627.009
S.D.	0.659	0.296	0.185	1.124	0.517	0.136	0.140	7.961
% R.S.D.	1.690	0.755	0.477	2.511	0.863	0.377	0.349	1.270

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	39.722	42.106	33.163	40.381	38.595	40.258	40.240	11148.645
S.D.	0.133	1.161	0.050	0.111	0.120	0.103	0.055	111.520
% R.S.D.	0.334	2.758	0.151	0.274	0.311	0.257	0.136	1.000

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	40.435	41.612	40.901	40.509	40.212
S.D.	0.064	1.629	0.090	0.082	0.989
% R.S.D.	0.159	3.915	0.220	0.201	2.460

Identity 1: ICSA Identity 2: Quality Control 11:11 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.010	0.002	-0.024	0.041	197.667	-0.000	0.001	-0.000
S.D.	0.001	0.000	0.009	0.005	0.181	0.003	0.000	0.000
% R.S.D.	10.324	6.298	37.631	11.306	0.091	6787.091	39.050	454.266

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.006	0.009	0.008	102.323	102.247	-0.002	-0.046	0.096
S.D.	0.000	0.002	0.002	0.117	0.039	0.000	0.004	0.045
% R.S.D.	3.549	18.035	21.848	0.114	0.038	6.119	9.426	47.254

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.007	0.047	0.003	0.034	0.054	107.134	0.063	183.927
S.D.	0.012	0.008	0.000	0.019	0.010	0.157	0.006	0.672
% R.S.D.	169.381	17.641	6.770	54.861	17.994	0.147	9.253	0.366

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.003	-0.022	0.001	-0.015	0.002	0.001	0.016	0.057
S.D.	0.001	0.017	0.001	0.009	0.000	0.001	0.001	0.010
% R.S.D.	39.037	76.651	99.749	59.987	14.636	144.248	6.649	17.290

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.006	0.006	-0.003	0.002	0.032
S.D.	0.001	0.009	0.001	0.000	0.013
% R.S.D.	11.624	168.623	22.637	8.524	42.390

Identity 1: ICSAB Identity 2: Quality Control 11:14 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.009	0.002	-0.017	0.047	197.003	0.478	0.502	0.913
S.D.	0.001	0.000	0.001	0.002	0.390	0.005	0.001	0.002
% R.S.D.	5.876	1.634	7.514	5.014	0.198	0.970	0.299	0.195

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.986	0.980	0.004	101.148	101.806	0.496	-0.055	0.128
S.D.	0.003	0.006	0.001	0.142	0.248	0.004	0.004	0.018
% R.S.D.	0.257	0.562	15.646	0.140	0.244	0.847	7.738	14.429

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.016	0.032	0.500	0.028	0.042	105.808	0.068	185.056
S.D.	0.004	0.001	0.002	0.004	0.002	0.139	0.003	0.331
% R.S.D.	26.874	3.455	0.364	13.590	5.777	0.131	4.292	0.179

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.004	-0.008	1.017	0.972	0.002	0.998	0.015	0.008
S.D.	0.001	0.023	0.002	0.004	0.000	0.003	0.000	0.004
% R.S.D.	29.330	291.376	0.193	0.399	13.690	0.315	2.342	44.737

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.505	-0.027	0.494	0.502	0.004
S.D.	0.001	0.019	0.001	0.001	0.002
% R.S.D.	0.274	69.258	0.214	0.216	39.545

Identity 1: CCV Identity 2: Quality Control 11:17 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	5.045	4.891	4.975	4.867	4.854	4.917	5.011	4.856
S.D.	0.011	0.014	0.018	0.007	0.009	0.006	0.018	0.035
% R.S.D.	0.208	0.288	0.362	0.149	0.186	0.124	0.354	0.711

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.087	5.010	5.033	5.222	4.938	5.031	5.401	9.708
S.D.	0.003	0.007	0.008	0.017	0.011	0.008	0.004	0.028
% R.S.D.	0.056	0.135	0.158	0.319	0.223	0.154	0.069	0.284

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.817	5.022	4.896	4.988	4.827	4.688	5.029	4.855
S.D.	0.013	0.012	0.017	0.116	0.047	0.007	0.021	0.037
% R.S.D.	0.272	0.242	0.342	2.334	0.982	0.150	0.427	0.765

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.959	5.315	4.972	5.128	4.845	5.040	5.171	5.045
S.D.	0.017	0.054	0.001	0.031	0.010	0.006	0.013	0.035
% R.S.D.	0.352	1.015	0.027	0.597	0.216	0.129	0.257	0.684

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.026	4.819	5.095	5.180	4.858
S.D.	0.004	0.005	0.008	0.008	0.012
% R.S.D.	0.090	0.112	0.154	0.155	0.254

Identity 1: CCB Identity 2: Quality Control 11:21 AM December 27, 1995
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.002	0.000	0.011	0.000	-0.001	0.008	-0.001	0.001
S.D.	0.000	0.000	0.002	0.001	0.002	0.000	0.000	0.000
% R.S.D.	25.438	24.744	22.238	343.899	139.618	0.069	12.585	41.659

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.000	-0.004	0.005	0.000	0.003	0.007	0.003
S.D.	0.000	0.002	0.004	0.001	0.000	0.001	0.004	0.043
% R.S.D.	25.819	1236.825	82.292	31.956	60.984	37.139	49.643	1366.030

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.022	-0.003	0.000	-0.000	-0.011	0.001	-0.003	0.012
S.D.	0.010	0.006	0.000	0.019	0.002	0.000	0.004	0.003
% R.S.D.	43.950	211.000	47.179	810600.073	20.873	27.273	117.059	25.462

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.003	-0.021	0.001	0.011	0.001	0.002	0.007	0.108
S.D.	0.001	0.021	0.001	0.004	0.000	0.000	0.001	0.004
% R.S.D.	25.237	99.363	159.593	38.207	34.394	17.612	20.160	3.352

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	0.075	0.001	0.001	0.033
S.D.	0.000	0.007	0.000	0.000	0.024
% R.S.D.	172.795	9.445	45.017	25.334	74.682

SP 01/03/96

LABCORE Data Entry Template for Worklist# 4616

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 2-8-96 **Book#** 50684

Method: LA-505-~~151~~ 161 2-8-96 Rev/Mod B-0

Worklist Comment: ICP BY-104 (ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T003532	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:	AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
8	DUP	S95T003532	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003532	0	A	@ICP-A01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S95T003533	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:	AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4616

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	DUP	S95T003533	0	A	@ICP-A01	SOLID		
14	SAMPLE	S95T003666	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

15	DUP	S95T003666	0	A	@ICP-A01	SOLID		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		
18	SAMPLE	S95T003679	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

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	S95T003679	0	A	@ICP-A01	SOLID		
20	SAMPLE	S95T003680	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

21	DUP	S95T003680	0	A	@ICP-A01	SOLID		
22	CCV				@ICP-QC	QC		
23	CCB				@ICP-QC	QC		

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4616

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
24	SAMPLE	S95T003681	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

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

25	DUP	S95T003681	0	A	@ICP-A01	SOLID		
26	SAMPLE	S95T003682	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

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

27	DUP	S95T003682	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 # 4616

Reviewed by:

Analyst Signature — Date: 2-8-96

Analyst Signature — Date: 2/13/96

	D.F.
PREPSTD TJA	1
PREP BLK TJA	1
S95T003532-L	50
S95T003532	10
S95T003532-D	10
S95T003532-S	10
S95T003533-L	50
S95T003533	10
S95T003533-D	10

S95T003666-L	50
S95T003666	10
S95T003666-D	10
S95T003679-L	50
S95T003679	10
S95T003679-D	10
S95T003680-L	12.5
S95T003680	2.5
S95T003680-D	2.5

S95T003681-L	12.5
S95T003681	2.5
S95T003681-D	2.5
S95T003682-L	16.66
S95T003682	3.33
S95T003682-D	3.33

Data Entry Comments:

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

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960208D	ICP2	02/08/96	15:52	BJG	Q	CONC
2	ICB	960208D	ICP2	02/08/96	15:54	BJG	Q	CONC
3	ICSA	960208D	ICP2	02/08/96	15:59	BJG	Q	CONC
4	ICSAB	960208D	ICP2	02/08/96	16:02	BJG	Q	CONC
5	PREPSTDTJA	960208D	ICP2	02/08/96	16:06	BJG	S	CONC
6	PREPBLKTJA	960208D	ICP2	02/08/96	16:09	BJG	S	CONC
7	S95T003532_L	960208D	ICP2	02/08/96	16:12	BJG	S	CONC
8	S95T003532	960208D	ICP2	02/08/96	16:16	BJG	S	CONC
9	S95T003532_D	960208D	ICP2	02/08/96	16:19	BJG	S	CONC
10	S95T003532_S	960208D	ICP2	02/08/96	16:22	BJG	S	CONC
11	CCV	960208D	ICP2	02/08/96	16:28	BJG	Q	CONC
12	CCB	960208D	ICP2	02/08/96	16:31	BJG	Q	CONC
13	S95T003533_L	960208D	ICP2	02/08/96	16:36	BJG	S	CONC
14	S95T003533	960208D	ICP2	02/08/96	16:39	BJG	S	CONC
15	S95T003533_D	960208D	ICP2	02/08/96	16:42	BJG	S	CONC
16	S95T003666_L	960208D	ICP2	02/08/96	16:45	BJG	S	CONC
17	S95T003666	960208D	ICP2	02/08/96	16:49	BJG	S	CONC
18	S95T003666_D	960208D	ICP2	02/08/96	16:52	BJG	S	CONC
19	CCV	960208D	ICP2	02/08/96	16:55	BJG	Q	CONC
20	CCB	960208D	ICP2	02/08/96	16:58	BJG	Q	CONC
21	S95T003679_L	960208D	ICP2	02/08/96	17:02	BJG	S	CONC
22	S95T003679	960208D	ICP2	02/08/96	17:06	BJG	S	CONC
23	S95T003679_D	960208D	ICP2	02/08/96	17:09	BJG	S	CONC
24	S95T003680_L	960208D	ICP2	02/08/96	17:12	BJG	S	CONC
25	S95T003680	960208D	ICP2	02/08/96	17:16	BJG	S	CONC
26	S95T003680_D	960208D	ICP2	02/08/96	17:19	BJG	S	CONC
27	CCV	960208D	ICP2	02/08/96	17:23	BJG	Q	CONC
28	CCB	960208D	ICP2	02/08/96	17:26	BJG	Q	CONC
29	S95T003681_L	960208D	ICP2	02/08/96	17:29	BJG	S	CONC
30	S95T003681	960208D	ICP2	02/08/96	17:33	BJG	S	CONC
31	S95T003681_D	960208D	ICP2	02/08/96	17:36	BJG	S	CONC
32	S95T003682_L	960208D	ICP2	02/08/96	17:39	BJG	S	CONC
33	S95T003682	960208D	ICP2	02/08/96	17:43	BJG	S	CONC
34	S95T003682_D	960208D	ICP2	02/08/96	17:46	BJG	S	CONC
35	ICSA	960208D	ICP2	02/08/96	17:51	BJG	Q	CONC
36	ICSAB	960208D	ICP2	02/08/96	17:55	BJG	Q	CONC
37	CCV	960208D	ICP2	02/08/96	17:58	BJG	Q	CONC
38	CCB	960208D	ICP2	02/08/96	18:01	BJG	Q	CONC

BJGarch 2-8-96
64-104 Acid digest
S95T003532
3533
3666
3679
3680
3681
3682

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 721 TO 727.

WHC-SD-WM-DP-164, REV. 1

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	4.887	4.943	5.186	5.008	5.123	5.258
2	ICB	.0014	.0348	-.0001	.0040	.0000	.0009
3	ICSA	.0025	240.1	-.0426	.0094	.0024	.0009
4	ICSAB	.9711	239.5	-.0157	.0061	.5087	.4988
5	PREPSTDTJA	.9490	5.123	4.997	5.524	5.067	5.539
6	PREPBLKTJA	.0010	.1425	-.0060	.3680	.0004	.0007
7	S95T003532_L	.2591	76.30	-.1036	.7670	.1485	.0398
8	S95T003532_	.2274	73.49	-.0622	.6417	.1533	.0103
9	S95T003532_D	.2174	59.63	.0239	1.422	.1097	.0078
10	S95T003532_S	1.203	80.23	4.892	5.810	5.029	5.087
11	CCV	4.935	4.954	5.226	4.974	5.167	5.286
12	CCB	.0026	.0422	.0010	.0049	.0001	.0009
13	S95T003533_L	.2739	79.34	.1950	.3865	.0884	.0296
14	S95T003533_	.2338	76.40	-.0854	.3240	.0834	.0073
15	S95T003533_D	.2441	72.59	-.1405	.3731	.0692	.0085
16	S95T003666_L	.2728	224.6	-.2933	.7028	.0881	.0315
17	S95T003666_	.2215	221.0	-.2075	.6584	.0891	.0100
18	S95T003666_D	.2430	218.5	-.1115	.7395	.0873	.0088
19	CCV	4.966	5.006	5.279	5.034	5.238	5.358
20	CCB	.0021	.0270	-.0011	.0036	.0001	.0007
21	S95T003679_L	.2567	293.3	-.3725	.9051	.0828	.0296
22	S95T003679_	.2538	288.2	-.1369	.6127	.0832	.0096
23	S95T003679_D	.2672	295.1	-.2786	.2385	.0856	.0080
24	S95T003680_L	.0777	171.5	-.2393	.1522	1.679	.0093
25	S95T003680_	.0592	160.1	-.1263	.1434	1.588	.0047
26	S95T003680_D	.0573	158.8	-.1755	.1292	1.546	.0044
27	CCV	5.024	5.067	5.339	5.044	5.284	5.402
28	CCB	.0023	.0269	-.0001	.0036	-.0000	.0006
29	S95T003681	.0867	201.3	-.3191	.2269	3.119	.0088
30	S95T003681	.0740	192.0	-.2560	.1934	3.004	.0038
31	S95T003681_D	.0596	181.6	-.2399	.1238	2.759	.0035
32	S95T003682_L	.1728	482.4	-.3136	.2088	1.958	.0225
33	S95T003682_	.1451	456.5	-.3581	.1391	1.871	.0148
34	S95T003682_D	.1470	458.6	-.3224	.1409	1.875	.0148
35	ICSA	.0016	245.6	-.0244	.0060	.0027	.0006
36	ICSAB	.9854	243.0	-.0806	.0053	.5181	.5053
37	CCV	5.007	5.059	5.293	5.090	5.350	5.383
38	CCB	.0008	.0251	-.0012	.0031	.0001	.0008

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.031	4.925	4.945	5.195	4.982	5.018
2	ICB	.0005	-.0070	.0007	-.0123	-.0016	.0011
3	ICSA	-.0255	241.9	.0016	.0056	.0019	.0024
4	ICSAB	-.0168	246.5	.9558	.0038	.4719	.4821
5	PREPSTDTJA	4.834	4.816	4.733	5.164	4.813	4.841
6	PREPBLKTJA	-.0155	.1444	-.0001	-.0124	-.0020	.0022
7	S95T003532_L	3.290	2.464	.8980	-.5332	.1899	137.3
8	S95T003532_	3.804	3.127	.8309	-.0526	.1547	133.9
9	S95T003532_D	.2900	1.819	.6152	-.0568	.1267	97.53
10	S95T003532_S	5.419	6.709	5.656	4.921	4.993	142.7
11	CCV	5.084	5.057	5.009	5.239	5.039	5.084

WHC-SD-WM-DP-164, REV. 1

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
12	CCB	.0008	-.0061	.0008	-.0034	.0012	.0014
13	S95T003533_L	.3580	2.823	.1790	-.1851	.1715	46.07
14	S95T003533	.4324	3.189	.1387	.0067	.0920	44.86
15	S95T003533_D	.4922	2.206	.1397	.0221	.1125	42.30
16	S95T003666_L	.9859	3.214	.2150	-.3870	.1200	32.35
17	S95T003666	.0695	3.484	.1517	-.0331	.1280	31.57
18	S95T003666_D	.2752	3.306	.1646	.0036	.1306	31.36
19	CCV	5.060	5.046	5.040	5.313	5.065	5.114
20	CCB	.0027	-.0058	.0017	-.0046	-.0002	.0001
21	S95T003679_L	.6942	3.399	.1148	-.4710	.0169	28.95
22	S95T003679	.5773	3.194	.0995	-.0659	.0998	28.43
23	S95T003679_D	1.021	2.904	.1078	-.0213	.1100	31.13
24	S95T003680_L	10.20	40.86	.0718	-.0076	.1174	27.48
25	S95T003680	9.276	37.34	.0740	.0604	.1221	25.13
26	S95T003680_D	9.008	37.24	.0733	.0908	.1163	24.60
27	CCV	5.095	5.099	5.080	5.366	5.112	5.161
28	CCB	-.0184	-.0065	.0004	-.0075	.0001	.0003
29	S95T003681	16.20	72.82	.0442	-.0881	.1913	6.509
30	S95T003681	14.99	67.22	.0408	-.0191	.1955	6.014
31	S95T003681_D	13.63	62.22	.0319	-.0451	.1869	5.913
32	S95T003682_L	11.52	44.51	.0295	-.1466	.1141	7.374
33	S95T003682	10.55	40.80	.0304	-.0857	.1080	6.740
34	S95T003682_D	10.62	41.21	.0299	-.0641	.1088	6.811
35	ICSA	-.0182	251.8	.0016	.0078	.0005	.0023
36	ICSAB	-.0166	249.2	.9616	-.0029	.4732	.4877
37	CCV	5.108	5.064	5.031	5.420	5.055	5.120
38	CCB	.0267	-.0097	.0008	-.0124	-.0002	.0001

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.229	-.0067	5.085	5.052	5.134	5.135
2	ICB	.0014	-.0028	-.0004	.2172	-.0017	-.0020
3	ICSA	-.0090	-.0465	94.75	.3741	-.0061	.0011
4	ICSAB	.5035	-.0500	95.60	.2849	-.0061	1.012
5	PREPSTDTJA	5.051	-.0081	4.889	4.951	5.123	5.086
6	PREPBLKTJA	.0039	-.0038	.0215	-.0619	-.0018	-.0023
7	S95T003532_L	.1261	-.1263	3.660	20.80	.6606	-.0852
8	S95T003532	.0843	-.0303	3.631	16.30	.7019	-.0194
9	S95T003532_D	.0529	-.0217	2.248	12.76	-.0040	-.0057
10	S95T003532_S	4.931	-.0300	8.005	21.81	5.001	4.756
11	CCV	5.237	-.0068	5.145	4.825	5.182	5.098
12	CCB	.0024	-.0023	.0001	.0521	-.0002	-.0011
13	S95T003533_L	.1131	-.1026	8.485	16.86	-.0144	-.0513
14	S95T003533	.0441	-.0281	8.322	12.99	.0276	-.0128
15	S95T003533_D	.0240	-.0274	7.294	13.41	.0229	-.0105
16	S95T003666_L	.1050	-.1168	9.383	41.84	-.0449	-.0685
17	S95T003666	.0395	-.0303	9.289	34.65	.0283	-.0208
18	S95T003666_D	.0420	-.0255	9.197	34.41	.0343	-.0083
19	CCV	5.322	-.0073	5.191	4.906	5.257	5.201
20	CCB	.0012	-.0026	-.0003	.2321	-.0003	-.0015
21	S95T003679_L	.0946	-.1387	7.973	49.84	.0200	-.0627
22	S95T003679	.0482	-.0345	7.888	39.79	.0341	-.0197
23	S95T003679_D	.0472	-.0361	8.516	42.53	.0321	-.0242

WHC-SD-WM-DP-164, REV. 1

#	Sample Name	Cu	Eu	Fe	K	La	Li
24	S95T003680_L	.1057	-.0652	175.6	18.75	.4134	-.0157
25	S95T003680	.0856	-.0280	159.7	15.51	.4009	.0027
26	S95T003680_D	.0523	-.0265	155.6	15.71	.3939	.0033
27	CCV	5.374	-.0071	5.227	4.799	5.305	5.260
28	CCB	.0024	-.0029	-.0007	.3017	-.0018	-.0016
29	S95T003681	.1053	-.0782	268.0	18.55	.5968	-.0082
30	S95T003681	.0725	-.0490	246.9	14.97	.5978	.0077
31	S95T003681_D	.0816	-.0479	224.7	14.22	.5576	.0065
32	S95T003682_L	.3858	-.0734	143.6	35.40	.4241	-.0006
33	S95T003682	.3513	-.0441	132.3	29.52	.4288	.0091
34	S95T003682_D	.3520	-.0424	133.1	28.83	.4271	.0102
35	ICSA	-.0092	-.0601	97.85	.2798	-.0053	.0009
36	ICSAB	.5130	-.0549	97.15	.2784	-.0065	1.036
37	CCV	5.412	-.0079	5.219	4.795	5.358	5.338
38	CCB	.0022	-.0033	.0000	.0620	-.0015	-.0023

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.950	4.898	4.995	4.996	5.202	4.979
2	ICB	.0029	-.0004	-.0004	-.0181	.0000	.0020
3	ICSA	245.2	-.0070	-.0153	200.1	.0066	-.0003
4	ICSAB	246.7	.4526	-.0129	201.4	.0062	.9342
5	PREPSTDTJA	4.808	4.735	4.868	5.780	5.031	4.830
6	PREPBLKTJA	.0083	-.0001	-.0020	.7261	-.0030	.0051
7	S95T003532_L	.4293	.9474	-.0025	2983.	.0318	.6670
8	S95T003532	.2465	.9451	.0922	2915.	-.0038	1.015
9	S95T003532_D	.2014	.1061	.0600	2794.	.0224	.6914
10	S95T003532_S	4.939	4.753	4.875	2947.	4.894	5.919
11	CCV	4.953	4.936	5.065	4.981	5.254	5.025
12	CCB	.0046	-.0003	.0033	-.0185	-.0011	-.0032
13	S95T003533_L	.8562	.3680	.0360	2699.	.0473	2.227
14	S95T003533	.3142	.3732	.0784	2627.	.0573	2.346
15	S95T003533_D	.2399	.3467	.1221	2748.	.0488	2.061
16	S95T003666_L	.6139	.4778	.2394	2601.	.0102	2.512
17	S95T003666	.3060	.4863	.3155	2570.	.0534	2.669
18	S95T003666_D	.2761	.4829	.2767	2828.	.0577	2.716
19	CCV	5.028	4.965	5.108	5.066	5.346	5.049
20	CCB	.0002	-.0004	-.0027	-.0203	-.0027	-.0042
21	S95T003679_L	.2309	.3236	.3179	2681.	-.1102	1.951
22	S95T003679	.2263	.3427	.3468	2637.	.0631	2.305
23	S95T003679_D	.2360	.3879	.3558	2809.	.0643	2.432
24	S95T003680_L	5.240	2.664	.0897	790.8	.8409	51.30
25	S95T003680	4.723	2.465	.0999	741.4	.7668	46.49
26	S95T003680_D	4.632	2.424	.0975	725.4	.7611	46.05
27	CCV	5.069	5.020	5.137	5.120	5.391	5.115
28	CCB	.0066	-.0006	.0003	-.0238	.0014	-.0064
29	S95T003681	8.202	3.583	.0453	783.2	1.243	69.95
30	S95T003681	7.511	3.353	.0577	754.4	1.128	64.06
31	S95T003681_D	6.835	3.126	.0750	690.7	1.065	59.91
32	S95T003682_L	4.395	1.905	.2173	1415.	.7774	57.40
33	S95T003682	4.047	1.767	.1939	1344.	.7471	52.05
34	S95T003682_D	4.086	1.781	.2004	1343.	.7433	52.27
35	ICSA	251.3	-.0071	-.0176	204.9	.0064	-.0143

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
36	ICSAB	250.3	.4571	-.0104	205.9	.0074	.9337
37	CCV	5.052	4.991	5.119	5.190	5.464	5.089
38	CCB	.0044	-.0005	.0003	-.0287	-.0012	.0012

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.030	4.911	4.903	4.761	5.039	4.727
2	ICB	.0034	-.0115	.0035	-.0036	.0999	-.0062
3	ICSA	.0244	.0290	-.0201	-.0075	.0367	-.0079
4	ICSAB	-.0048	1.017	-.0258	.0018	.0377	.0105
5	PREPSTDTJA	4.895	4.664	4.724	4.577	4.929	8.477
6	PREPBLKTJA	.0203	-.0102	.0635	-.0008	.1028	.0478
7	S95T003532_L	122.3	.5353	48.62	-.4981	4.497	5.818
8	S95T003532_	123.1	.7463	48.01	-.1245	.7819	6.115
9	S95T003532_D	211.3	.3519	36.58	.0932	.9207	13.01
10	S95T003532_S	155.6	5.493	54.42	4.539	5.798	16.38
11	CCV	5.015	5.015	4.952	4.829	5.040	4.755
12	CCB	-.0037	.0101	-.0053	.0001	Q.1014	-.0056
13	S95T003533_L	28.80	.5395	77.00	-.3462	5.358	3.224
14	S95T003533_	29.28	.4082	76.21	-.0299	1.056	3.381
15	S95T003533_D	32.21	.4912	70.27	-.0309	1.031	4.096
16	S95T003666_L	22.04	.1565	98.22	-.1751	4.661	2.643
17	S95T003666_	20.78	.7382	96.40	-.0427	1.006	2.873
18	S95T003666_D	43.67	1.036	94.60	-.0285	1.053	3.834
19	CCV	5.008	5.043	4.962	4.867	5.074	4.784
20	CCB	.0088	-.0097	-.0024	-.0039	Q.1038	-.0072
21	S95T003679_L	14.38	.4626	106.3	-.1773	4.823	2.006
22	S95T003679_	14.18	.7218	105.9	-.0448	1.021	2.400
23	S95T003679_D	15.37	.7574	112.0	-.1380	1.025	1.690
24	S95T003680_L	46.30	5.654	32.06	-.1129	1.129	9.268
25	S95T003680_	44.91	5.326	29.73	-.0249	.2561	8.808
26	S95T003680_D	39.57	5.207	31.01	-.0077	.1863	10.29
27	CCV	5.062	5.079	5.021	4.913	5.168	4.863
28	CCB	-.0070	-.0037	-.0003	-.0048	Q.1082	-.0055
29	S95T003681	74.56	6.773	23.97	-.1297	1.190	13.69
30	S95T003681	71.44	6.364	22.41	-.0158	.1569	13.05
31	S95T003681_D	67.67	5.860	18.02	-.0389	.2001	10.71
32	S95T003682_L	67.44	5.680	4.580	-.0767	1.931	14.50
33	S95T003682_	63.06	5.237	4.206	-.0473	.3063	13.63
34	S95T003682_D	64.75	5.319	4.304	.0095	.2750	13.64
35	ICSA	.0169	.0326	-.0341	-.0001	.0723	-.0039
36	ICSAB	.0193	1.031	-.0135	-.0069	.0668	.0030
37	CCV	5.074	5.038	4.965	4.897	5.143	4.803
38	CCB	.0018	-.0096	.0040	-.0114	Q.1268	-.0110

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.001	5.080	.0299	4.936	4.851	9.814
2	ICB	-.0330	-.0003	.0145	.0006	.0047	-.1206
3	ICSA	-.0318	-.0025	.0074	.0012	.0268	.0182
4	ICSAB	-.0278	-.0024	.0134	.0013	.0212	.0148
5	PREPSTDTJA	4.987	5.067	.0351	4.876	4.734	9.797

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
6	PREPBLKTJA	-.0539	-.0004	.0135	.0001	-.0014	-.1962
7	S95T003532_L	-1.719	1.326	.5018	.0398	1.153	-4.208
8	S95T003532	-.4102	1.341	.2084	.0379	.1182	1.012
9	S95T003532_D	-.2487	.9019	.1470	.0329	-.1029	.7083
10	S95T003532_S	4.577	6.240	.2294	4.760	4.505	11.15
11	CCV	5.039	5.126	.0283	4.978	4.855	9.866
12	CCB	-.0267	-.0003	.0156	.0001	.0208	-.1073
13	S95T003533_L	-1.178	3.443	.8010	.0264	1.538	1.226
14	S95T003533	-.2723	3.407	.2325	.0236	.1098	4.657
15	S95T003533_D	-.3220	2.790	.2612	.0291	.2147	3.944
16	S95T003666_L	-1.393	3.554	.4839	-.0011	.4397	2.157
17	S95T003666	-.3627	3.556	.2752	.0152	.2040	6.161
18	S95T003666_D	-.2850	3.467	.2336	.0279	.3538	6.219
19	CCV	5.125	5.198	.0329	5.036	4.944	10.03
20	CCB	-.0312	-.0003	.0146	.0001	.0026	-.1230
21	S95T003679_L	-1.681	3.624	.7723	.0133	.1420	.3635
22	S95T003679	-.3841	3.605	.2341	.0154	.1392	5.400
23	S95T003679_D	-.4295	3.631	.2124	.0202	.2828	5.669
24	S95T003680_L	-.5000	73.60	.1024	.2692	.1444	106.5
25	S95T003680	-.0479	70.61	-.0298	.2541	.0270	102.7
26	S95T003680_D	-.0322	68.63	.0134	.2518	-.0090	101.5
27	CCV	5.164	5.239	.0280	5.071	5.026	10.09
28	CCB	-.0334	-.0004	.0088	.0001	.0254	-.1452
29	S95T003681	-.3574	149.3	.1511	.5054	-.0311	204.4
30	S95T003681	-.0153	150.4	-.1359	.4747	-.0901	199.9
31	S95T003681_D	-.0134	142.8	-.1416	.4245	-.0559	184.9
32	S95T003682_L	-.3920	105.2	.1242	.2650	.6343	152.2
33	S95T003682	-.0780	102.7	-.0352	.2552	.0715	147.4
34	S95T003682_D	-.0572	103.0	-.0037	.2587	-.0811	147.5
35	ICSA	-.0266	-.0024	.0097	.0015	.0496	-.0012
36	ICSAB	-.0326	-.0024	.0069	.0010	-.0076	.0005
37	CCV	5.217	5.319	.0185	5.085	4.983	10.20
38	CCB	-.0433	-.0003	.0148	.0001	.0031	-.1790

#	Sample Name	V	Y	Zn	Zr
1	ICV	4.976	.0045	5.051	4.906
2	ICB	-.0060	-.0012	-.0006	-.0053
3	ICSA	-.0063	.0059	-.0058	-.0075
4	ICSAB	.4694	.0060	.9825	-.0064
5	PREPSTDTJA	4.800	.0026	4.733	4.847
6	PREPBLKTJA	-.0080	-.0021	.0014	-.0055
7	S95T003532_L	-.1106	-.0688	.5752	-.1421
8	S95T003532	.1197	-.0130	.6106	.0272
9	S95T003532_D	.3681	-.0058	.4474	.0321
10	S95T003532_S	4.915	-.0000	5.467	4.784
11	CCV	5.034	.0049	5.107	4.960
12	CCB	-.0043	-.0009	-.0002	-.0032
13	S95T003533_L	-.1506	-.0358	.2055	-.1719
14	S95T003533	-.0109	-.0067	.1814	.0429
15	S95T003533_D	-.0056	-.0072	.1731	.0343
16	S95T003666_L	-.1905	-.0440	.2196	-.1486
17	S95T003666	-.0354	-.0089	.2058	.0673

#	Sample Name	V	Y	Zn	Zr
18	S95T003666_D	.0148	-.0050	.2512	.0960
19	CCV	5.081	.0046	5.128	5.015
20	CCB	-.0052	-.0011	.0003	-.0046
21	S95T003679_L	-.3035	-.0629	.2370	-.1681
22	S95T003679	-.0626	-.0109	.2001	.0419
23	S95T003679_D	-.0612	-.0118	.1954	.0433
24	S95T003680_L	-.0853	.0429	1.258	.1387
25	S95T003680	-.0101	.0557	1.162	.1919
26	S95T003680_D	-.0110	.0564	1.147	.1571
27	CCV	5.130	.0047	5.184	5.059
28	CCB	-.0063	-.0014	.0009	-.0049
29	S95T003681	-.0718	.0533	1.249	.2671
30	S95T003681	-.0179	.0634	1.172	.2921
31	S95T003681_D	-.0175	.0578	1.088	.2564
32	S95T003682_L	-.0226	.0254	1.497	.2149
33	S95T003682	.0150	.0316	1.382	.2324
34	S95T003682_D	.0197	.0329	1.392	.2298
35	ICSA	-.0049	.0064	-.0067	-.0054
36	ICSAB	.4754	.0060	.9945	-.0063
37	CCV	5.120	.0043	5.131	5.079
38	CCB	-.0072	-.0018	.0004	-.0053

2/13/96

FILE # 0960209C.TXT

LABCORE Data Entry Template for Worklist# 4620

Analyst: B. GORCHE **Instrument:** ~~ICP01~~ ICP02 **Book#** SOB4X4

Method: LA-505-~~151~~ 161/161 Rev/Mod B-0

WHC-SD-WM-DP-164, REV. 1

Worklist Comment: ICP BY-104 (ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T003673	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:	AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
8	DUP	S95T003673	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003673	0	A	@ICP-A01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S95T003674	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:	AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4620

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	DUP	S95T003674	0	A	@ICP-A01	SOLID		
14	SAMPLE	S95T003675	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

15	DUP	S95T003675	0	A	@ICP-A01	SOLID		
16	SAMPLE	S95T003676	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

17	DUP	S95T003676	0	A	@ICP-A01	SOLID		
18	CCV				@ICP-QC	QC		
19	CCB				@ICP-QC	QC		
20	SAMPLE	S95T003677	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

21	DUP	S95T003677	0	A	@ICP-A01	SOLID		
22	SAMPLE	S95T003678	0	A	@ICP-A01	SOLID	95000180	BY104 ROTARY

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 ,

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4620

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
					MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01			
23	DUP	S95T003678	0	A	@ICP-A01	SOLID		
24	ICSA				@ICP-QC	QC		
25	ICSAB				@ICP-QC	QC		
26	CCV				@ICP-QC	QC		
27	CCB				@ICP-QC	QC		

Final page for worklist # 4620

Analyst Signature	Date	Analyst Signature	Date
	2-9-96	Reviewed by: Saul M. Perez	2/13/96

	DF
PREP STD TJA	1
PREP BLK TJA	1
S95T003673-C	12.5
S95T003673	2.5
S95T003673-D	2.5
S95T003673-S	2.5
S95T003674-C	12.5
S95T003674	2.5
S95T003674-D	2.5
S95T003675-C	12.5
S95T003675	2.5
S95T003675-D	2.5
S95T003676-C	12.5
S95T003676	2.5
S95T003676-D	2.5
S95T003677-C	12.5
S95T003677	2.5
S95T003677-D	2.5
S95T003678-C	12.5
S95T003678	2.5
S95T003678-D	2.5

Data Entry Comments:

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

Analysis Report Summary Fri 02-09-96 03:09:12 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960209C	ICP2	02/09/96	13:00	BJG	Q	CONC
2	ICB	960209C	ICP2	02/09/96	13:03	BJG	Q	CONC
3	ICSA	960209C	ICP2	02/09/96	13:06	BJG	Q	CONC
4	ICSAB	960209C	ICP2	02/09/96	13:09	BJG	Q	CONC
5	PREPSTDTJA	960209C	ICP2	02/09/96	13:13	BJG	S	CONC
6	PREPBLKTJA	960209C	ICP2	02/09/96	13:16	BJG	S	CONC
7	S95T003673_L	960209C	ICP2	02/09/96	13:21	BJG	S	CONC
8	S95T003673	960209C	ICP2	02/09/96	13:24	BJG	S	CONC
9	S95T003673_D	960209C	ICP2	02/09/96	13:27	BJG	S	CONC
10	S95T003673_S	960209C	ICP2	02/09/96	13:30	BJG	S	CONC
11	CCV	960209C	ICP2	02/09/96	13:38	BJG	Q	CONC
12	CCB	960209C	ICP2	02/09/96	13:41	BJG	Q	CONC
13	S95T003674_L	960209C	ICP2	02/09/96	13:45	BJG	S	CONC
14	S95T003674	960209C	ICP2	02/09/96	13:48	BJG	S	CONC
15	S95T003674_D	960209C	ICP2	02/09/96	13:51	BJG	S	CONC
16	S95T003675_L	960209C	ICP2	02/09/96	13:55	BJG	S	CONC
17	S95T003675	960209C	ICP2	02/09/96	13:58	BJG	S	CONC
18	S95T003675_D	960209C	ICP2	02/09/96	14:02	BJG	S	CONC
19	S95T003676_L	960209C	ICP2	02/09/96	14:05	BJG	S	CONC
20	S95T003676	960209C	ICP2	02/09/96	14:08	BJG	S	CONC
21	S95T003676_D	960209C	ICP2	02/09/96	14:11	BJG	S	CONC
22	CCV	960209C	ICP2	02/09/96	14:30	BJG	Q	CONC
23	CCB	960209C	ICP2	02/09/96	14:33	BJG	Q	CONC
24	S95T003677_L	960209C	ICP2	02/09/96	14:36	BJG	S	CONC
25	S95T003677	960209C	ICP2	02/09/96	14:38	BJG	S	CONC
26	S95T003677_D	960209C	ICP2	02/09/96	14:42	BJG	S	CONC
27	S95T003678_L	960209C	ICP2	02/09/96	14:45	BJG	S	CONC
28	S95T003678	960209C	ICP2	02/09/96	14:48	BJG	S	CONC
29	S95T003678_D	960209C	ICP2	02/09/96	14:51	BJG	S	CONC
30	ICSA	960209C	ICP2	02/09/96	14:53	BJG	Q	CONC
31	ICSAB	960209C	ICP2	02/09/96	14:57	BJG	Q	CONC
32	CCV	960209C	ICP2	02/09/96	15:01	BJG	Q	CONC
33	CCB	960209C	ICP2	02/09/96	15:04	BJG	Q	CONC

BJG 2-9-96
B4-104 Acid Digest
S95T003673-78

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 730 TO 735.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.069	4.915	5.253	5.005	5.136	5.239
2	ICB	.0003	-.0129	-.0131	.0066	.0000	-.0002
3	ICSA	.0012	239.8	-.0285	.0082	.0027	-.0000
4	ICSAB	.9941	237.4	-.0287	.0038	.4986	.4914
5	PREPSTDTJA	.9197	4.879	4.831	5.623	4.813	5.620
6	PREPBLKTJA	-.0006	.0047	-.0037	.0124	.0002	-.0002
7	S95T003673_L	.1046	124.1	-.1846	.0848	.0323	-.0026
8	S95T003673_	.0992	117.4	-.1094	.0745	.0295	.0016
9	S95T003673_D	.0976	119.2	-.1086	.0723	.0295	.0015
10	S95T003673_S	.9573	107.7	4.451	4.268	4.481	4.884
11	CCV	5.180	4.993	5.331	5.048	5.276	5.303
12	CCB	.0009	-.0063	-.0037	.0066	.0001	-.0001
13	S95T003674_L	.1241	136.0	-.3315	.1065	.0267	-.0001
14	S95T003674_	.1037	129.0	-.1441	.0841	.0252	.0015
15	S95T003674_D	.1007	135.0	-.1262	.1118	.0252	.0016
16	S95T003675_L	.0871	99.95	-.0775	.0512	.0252	.0014
17	S95T003675_	.0847	93.57	-.0859	.0732	.0261	.0012
18	S95T003675_D	.0942	100.9	-.1245	.0744	.0282	.0013
19	S95T003676_L	.1034	117.0	-.2072	.1904	.0453	.0008
20	S95T003676_	.1000	109.7	-.0861	.1127	.0419	.0012
21	S95T003676_D	.0906	101.6	-.0566	.0737	.0351	.0011
22	CCV	4.908	4.825	5.085	4.894	4.893	5.072
23	CCB	.0012	-.0072	-.0159	.0009	.0000	-.0001
24	S95T003677_L	.1398	131.1	-.1180	.1106	.0564	-.0003
25	S95T003677_	.1142	124.3	-.1350	.1094	.0530	.0017
26	S95T003677_D	.1129	124.0	-.1322	.1386	.0554	.0017
27	S95T003678_L	.0964	116.0	-.0667	.0233	.0366	.0008
28	S95T003678_	.0960	109.1	-.1134	.0404	.0336	.0016
29	S95T003678_D	.0928	109.7	-.1025	.0621	.0364	.0015
30	ICSA	.0004	236.9	-.0545	.0042	.0025	.0001
31	ICSAB	.9641	233.2	-.0307	.0022	.4769	.4753
32	CCV	4.923	4.802	5.069	4.865	4.855	5.057
33	CCB	.0010	-.0017	-.0065	-.0009	.0000	-.0000

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.251	5.247	5.181	5.256	5.214	5.263
2	ICB	.0123	-.0017	-.0001	.0001	-.0012	.0004
3	ICSA	.0371	256.8	.0009	.0197	.0014	.0017
4	ICSAB	.0353	258.7	.9851	.0246	.4845	.5017
5	PREPSTDTJA	4.696	5.066	4.720	4.940	4.807	4.849
6	PREPBLKTJA	-.0015	.1073	-.0010	.0022	.0001	.0034
7	S95T003673_L	.4755	2.597	.0603	.0834	.0204	22.65
8	S95T003673_	.1313	2.443	.0564	.0180	.0448	21.28
9	S95T003673_D	.1962	1.867	.0549	.0259	.0466	21.79
10	S95T003673_S	4.521	6.810	4.459	4.626	4.497	19.08
11	CCV	5.273	5.461	5.278	5.374	5.326	5.380
12	CCB	.0173	-.0016	.0003	.0057	.0005	.0014
13	S95T003674_L	.2761	1.255	.0552	.0529	.0372	19.07
14	S95T003674_	.1938	1.221	.0488	.0146	.0344	17.91
15	S95T003674_D	.1383	1.236	.0486	.0236	.0426	19.85
16	S95T003675_L	-.1328	2.561	.0402	-.0630	.0598	16.81

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
17	S95T003675	.2158	2.446	.0435	.0194	.0343	15.58
18	S95T003675_D	.2178	2.135	.0521	.0078	.0362	17.39
19	S95T003676_L	.4766	2.525	.0596	.0841	.0648	20.61
20	S95T003676	.2628	2.398	.0695	.0278	.0562	19.23
21	S95T003676_D	.2481	1.772	.0542	.0204	.0461	17.07
22	CCV	4.991	4.945	4.942	5.051	4.947	4.987
23	CCB	.0103	-.0001	-.0011	-.0034	.0002	-.0006
24	S95T003677_L	.5893	3.277	.0880	.1393	.0804	20.75
25	S95T003677	.4153	3.109	.0752	-.0109	.0650	19.47
26	S95T003677_D	.4505	2.398	.0766	-.0034	.0707	20.00
27	S95T003678_L	.7434	2.346	.0407	-.1110	.0622	13.70
28	S95T003678	.3234	2.200	.0493	.0057	.0523	12.81
29	S95T003678_D	.3013	1.714	.0482	.0048	.0545	15.21
30	ICSA	.0016	246.4	-.0001	.0181	.0022	.0018
31	ICSAB	.0179	246.0	.9450	.0120	.4669	.4793
32	CCV	4.987	5.021	4.954	5.026	4.961	5.006
33	CCB	-.0022	-.0003	-.0005	-.0011	.0002	-.0004

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.145	-.0033	5.227	4.970	5.157	4.968
2	ICB	-.0000	.0011	.0001	.0436	.0003	.0018
3	ICSA	-.0125	-.0571	97.19	.2124	-.0040	.0040
4	ICSAB	.4826	-.0583	97.31	.2667	-.0037	.9797
5	PREPSTDTJA	4.718	-.0044	4.795	4.923	4.862	4.705
6	PREPBLKTJA	.0003	-.0020	.1068	.0498	.0004	-.0020
7	S95T003673_L	.0024	.0227	3.354	22.58	.0327	.0226
8	S95T003673	.0133	.0018	3.188	19.11	.0145	.0019
9	S95T003673_D	.0248	.0003	3.184	19.99	.0138	.0024
10	S95T003673_S	4.330	-.0030	6.814	21.50	4.566	4.304
11	CCV	5.215	-.0027	5.344	4.975	5.265	5.013
12	CCB	.0002	.0014	.0002	.0374	.0015	.0014
13	S95T003674_L	.0182	.0143	2.474	22.31	.0309	.0141
14	S95T003674	.0121	.0005	2.352	20.99	.0142	.0016
15	S95T003674_D	.0116	.0013	2.537	22.18	.0148	.0024
16	S95T003675_L	.0134	.0019	2.915	17.02	.0084	.0070
17	S95T003675	.0141	-.0012	2.736	15.31	.0117	-.0012
18	S95T003675_D	.0250	-.0001	2.989	16.54	.0124	.0004
19	S95T003676_L	.0167	.0196	4.542	17.46	.0278	.0225
20	S95T003676	.0142	.0028	4.273	17.71	.0194	.0044
21	S95T003676_D	.0165	.0047	3.673	16.31	.0169	.0061
22	CCV	5.022	-.0018	4.984	4.892	4.966	5.006
23	CCB	.0005	-.0004	-.0001	-.0811	.0003	-.0005
24	S95T003677_L	.0157	-.0054	5.943	19.79	.0378	-.0002
25	S95T003677	.0188	-.0020	5.602	19.61	.0224	-.0025
26	S95T003677_D	.0248	-.0025	5.754	19.15	.0217	-.0017
27	S95T003678_L	.0049	.0006	3.543	14.73	.0188	-.0001
28	S95T003678	.0148	-.0021	3.330	16.95	.0156	-.0039
29	S95T003678_D	.0252	-.0027	3.728	16.78	.0150	-.0033
30	ICSA	-.0116	-.0259	93.95	-.0294	-.0043	.0037
31	ICSAB	.4706	-.0234	93.27	.1731	-.0054	.9817
32	CCV	4.995	-.0004	4.975	5.055	4.944	4.963
33	CCB	.0005	.0003	.0004	-.1246	-.0000	.0003

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.909	5.117	5.204	5.036	5.249	5.209
2	ICB	-.0033	.0008	.0016	.0122	.0023	-.0056
3	ICSA	243.4	-.0056	-.0102	198.8	.0089	-.0079
4	ICSAB	243.3	.4682	-.0118	198.8	.0079	.9488
5	PREPSTDTJA	4.552	4.703	4.848	6.077	4.791	4.803
6	PREPBLKTJA	.0104	.0008	.0013	.0593	.0012	-.0068
7	S95T003673_L	.0934	.1793	.1797	1213.	.0308	.9775
8	S95T003673	.1162	.1624	.1765	1137.	.0310	.9219
9	S95T003673_D	.1446	.1634	.1773	1124.	.0388	.9092
10	S95T003673_S	4.308	4.417	4.640	1102.	4.492	5.194
11	CCV	4.965	5.214	5.307	5.069	5.350	5.310
12	CCB	.0098	.0010	.0016	.0144	.0034	-.0103
13	S95T003674_L	.1570	.1271	.2174	1293.	.0564	.7638
14	S95T003674	.1113	.1131	.1950	1215.	.0216	.7128
15	S95T003674_D	.1034	.1260	.1975	1172.	.0225	.7343
16	S95T003675_L	.1700	.1448	.1622	1022.	.0010	.8125
17	S95T003675	.1587	.1299	.1467	951.8	.0163	.7822
18	S95T003675_D	.1268	.1461	.1527	1107.	.0312	.8470
19	S95T003676_L	.1902	.2033	.1803	1157.	.0556	1.370
20	S95T003676	.1395	.1822	.1603	1072.	.0378	1.223
21	S95T003676_D	.1155	.1584	.1582	1013.	.0251	1.043
22	CCV	4.826	4.869	4.931	4.931	5.023	4.937
23	CCB	.0041	-.0002	-.0010	-.0060	-.0002	-.0032
24	S95T003677_L	.2991	.2321	.1760	1285.	.0316	1.689
25	S95T003677	.2105	.2211	.1632	1206.	.0393	1.549
26	S95T003677_D	.1759	.2272	.1667	1192.	.0404	1.543
27	S95T003678_L	.0251	.1507	.1929	1125.	-.0427	1.009
28	S95T003678	.1140	.1414	.1525	1053.	.0300	.9590
29	S95T003678_D	.1209	.1684	.1486	1041.	.0272	1.023
30	ICSA	242.3	-.0068	-.0102	195.8	.0066	-.0075
31	ICSAB	240.0	.4477	-.0159	195.5	.0083	.9089
32	CCV	4.815	4.853	4.927	4.906	4.992	4.934
33	CCB	.0022	.0001	.0003	.0009	-.0004	-.0035

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.168	5.236	4.888	4.842	5.020	4.981
2	ICB	.0062	.0124	-.0085	-.0019	.0381	.0120
3	ICSA	.0146	.0494	-.0232	-.0068	.0032	.0148
4	ICSAB	.0284	1.094	-.0260	.0015	.0070	.0219
5	PREPSTDTJA	4.826	4.691	4.539	4.469	4.788	11.45
6	PREPBLKTJA	.0058	.0229	.1359	-.0040	.0664	.0773
7	S95T003673_L	5.478	.4268	33.94	.0448	.6393	.9804
8	S95T003673	5.220	.4368	31.82	.0071	.1820	.8302
9	S95T003673_D	5.110	.4153	30.30	.0091	.1685	.8400
10	S95T003673_S	9.080	4.792	32.02	4.208	4.458	5.120
11	CCV	5.222	5.347	4.949	4.952	5.061	5.062
12	CCB	-.0155	.0141	-.0051	.0000	.0547	.0152
13	S95T003674_L	5.228	.3818	33.17	-.0338	.6742	.7891
14	S95T003674	5.044	.4061	31.21	.0261	.1567	.6432
15	S95T003674_D	5.144	.4195	31.71	.0123	.1612	.7232
16	S95T003675_L	4.490	.4480	29.93	-.0269	.5434	.8920

#	Sample Name	P	Pb	S	Sb	Se	Si
17	S95T003675	4.349	.3099	27.99	.0143	.1574	.7860
18	S95T003675_D	4.701	.3337	32.12	-.0034	.1833	.8281
19	S95T003676_L	5.709	.6158	38.37	.0699	1.022	1.383
20	S95T003676_	5.294	.5287	36.12	.0175	.1782	1.203
21	S95T003676_D	4.790	.4126	34.39	.0307	.2231	.9723
22	CCV	5.040	4.964	4.846	4.706	4.867	4.828
23	CCB	.0017	-.0082	.0114	-.0013	-.0057	.0028
24	S95T003677_L	6.759	.5295	46.86	-.0105	-.1672	1.221
25	S95T003677_	6.276	.4777	44.28	-.0127	.0218	1.171
26	S95T003677_D	6.196	.4868	44.27	-.0059	.0144	1.236
27	S95T003678_L	9.607	.5345	42.64	.0184	.0059	.7609
28	S95T003678_	9.212	.3770	39.28	-.0092	.0196	.7085
29	S95T003678_D	10.22	.3654	42.39	-.0311	.0272	.8912
30	ICSA	-.0090	.0597	-.0194	-.0087	-.0306	.0100
31	ICSAB	.0114	1.042	-.0271	.0030	-.0206	.0140
32	CCV	5.019	5.006	4.826	4.693	4.843	4.839
33	CCB	-.0074	.0028	.0101	-.0104	-.0011	.0009

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	4.979	5.059	.0283	4.958	4.998	9.756
2	ICB	.0175	.0002	-.0060	-.0003	-.0028	.0687
3	ICSA	.0200	-.0024	.0154	.0017	-.0762	.1922
4	ICSAB	.0198	-.0025	.0203	.0017	-.0241	.1725
5	PREPSTDTJA	4.683	4.783	.0355	4.666	4.629	9.213
6	PREPBLKTJA	-.0334	.0000	.0028	.0008	.0084	-.1176
7	S95T003673_L	.3148	1.182	-.0195	.0139	-.1650	3.613
8	S95T003673_	.0153	1.131	.0310	.0118	.0032	2.471
9	S95T003673_D	.0002	1.123	.0288	.0124	.0560	2.402
10	S95T003673_S	4.370	5.467	.0635	4.325	4.274	10.64
11	CCV	5.080	5.165	.0370	5.056	5.080	9.960
12	CCB	.0179	.0002	-.0043	.0002	-.0232	.0774
13	S95T003674_L	.1955	.9879	.0330	.0050	-.3720	3.144
14	S95T003674_	.0055	.9444	.0265	.0076	-.0187	2.207
15	S95T003674_D	.0114	.9399	.0338	.0107	-.0495	2.178
16	S95T003675_L	.0018	1.086	.0422	.0020	-.1375	2.460
17	S95T003675_	-.0257	1.029	.0375	.0090	-.0167	1.990
18	S95T003675_D	-.0070	1.137	.0289	.0106	-.0274	2.319
19	S95T003676_L	.2396	1.792	-.0183	.0164	.0160	4.678
20	S95T003676_	.0514	1.690	.0504	.0107	-.0130	3.652
21	S95T003676_D	.0688	1.426	.0281	.0092	-.0273	2.952
22	CCV	4.850	4.878	.0672	4.778	4.713	9.340
23	CCB	-.0113	-.0000	.0010	-.0002	-.0010	-.0318
24	S95T003677_L	-.1321	2.299	.0792	.0242	.0543	4.280
25	S95T003677_	-.0398	2.210	.0683	.0167	.0515	4.395
26	S95T003677_D	-.0470	2.335	.0692	.0160	.0429	4.452
27	S95T003678_L	-.0130	1.485	-.0170	-.0016	-.0358	2.948
28	S95T003678_	-.0423	1.421	.0572	.0093	-.0105	2.734
29	S95T003678_D	-.0549	1.539	.0482	.0098	-.0261	2.814
30	ICSA	.0137	-.0022	.0214	.0007	-.0267	.1879
31	ICSAB	.0107	-.0022	.0200	.0021	-.0271	.1920
32	CCV	4.814	4.861	.0615	4.767	4.744	9.283
33	CCB	.0000	.0001	-.0015	.0000	.0133	-.0002

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.121	.0068	5.104	5.028
2	ICB	.0044	.0010	-.0003	.0022
3	ICSA	.0035	.0084	-.0017	-.0024
4	ICSAB	.4855	.0084	.9842	-.0021
5	PREPSTDTJA	4.701	.0042	4.554	4.730
6	PREPBLKTJA	-.0017	-.0014	.0039	-.0040
7	S95T003673_L	.0744	.0181	.1411	.0998
8	S95T003673	.0156	.0033	.1270	.0438
9	S95T003673_D	.0143	.0027	.1101	.0422
10	S95T003673_S	4.372	.0067	4.417	4.451
11	CCV	5.225	.0072	5.206	5.133
12	CCB	.0055	.0008	.0018	.0027
13	S95T003674_L	.0612	.0134	.1843	.0785
14	S95T003674	.0120	.0026	.1045	.0427
15	S95T003674_D	.0134	.0028	.0971	.0422
16	S95T003675_L	.0367	.0048	.1149	.0430
17	S95T003675	.0095	.0011	.1044	.0332
18	S95T003675_D	.0117	.0020	.1107	.0406
19	S95T003676_L	.0816	.0176	.1163	.0985
20	S95T003676	.0230	.0049	.1267	.0660
21	S95T003676_D	.0245	.0060	.0943	.0578
22	CCV	4.870	.0062	4.876	4.807
23	CCB	-.0015	-.0004	-.0023	-.0020
24	S95T003677_L	-.0160	.0011	.1089	.0390
25	S95T003677	.0009	.0022	.1207	.0598
26	S95T003677_D	.0008	.0022	.1171	.0597
27	S95T003678_L	.0024	.0017	.1215	.0228
28	S95T003678	.0031	.0008	.0940	.0325
29	S95T003678_D	.0077	.0006	.0955	.0364
30	ICSA	-.0005	.0082	-.0027	-.0041
31	ICSAB	.4608	.0081	.9489	-.0047
32	CCV	4.876	.0066	4.906	4.798
33	CCB	-.0003	.0001	-.0010	.0001

WHC-SD-WM-DP-164, REV. 1

2/13/96

FILE # 0960212-B.TXT

LABCORE Data Entry Template for Worklist# 4621

Analyst: B. Goecke **Instrument:** ~~ICP01~~ ICP02 2-12-96 **Book#** 5084-18B

Method: LA-505-~~151~~ 161 2-12-96/161 Rev/Mod B-0

WHC-SD-WM-DP-164, REV. 1

Worklist Comment: ICP BY-104 (ACID DIGEST)

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
1	ICV				@ICP-QC	QC		
2	ICB				@ICP-QC	QC		
3	ICSA				@ICP-QC	QC		
4	ICSAB				@ICP-QC	QC		
5	PREPSTDTJA				@ICP-A01	SOLID		
6	PREPBLKTJA				@ICP-A01	SOLID		
7	SAMPLE	S95T003791	0	A	@ICP-A01	SOLID	95000200	BY104 ROTARY
	Analytes Requested:	AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						
8	DUP	S95T003791	0	A	@ICP-A01	SOLID		
9	SPK-PREDIG	S95T003791	0	A	@ICP-A01	SOLID		
10	CCV				@ICP-QC	QC		
11	CCB				@ICP-QC	QC		
12	SAMPLE	S95T003792	0	A	@ICP-A01	SOLID	95000200	BY104 ROTARY
	Analytes Requested:	AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01						

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4621

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
13	DUP	S95T003792	0	A	@ICP-A01	SOLID		
14	SAMPLE	S95T003793	0	A	@ICP-A01	SOLID	95000200	BY104 ROTARY

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

15	DUP	S95T003793	0	A	@ICP-A01	SOLID		
16	CCV				@ICP-QC	QC		
17	CCB				@ICP-QC	QC		
18	SAMPLE	S95T003794	0	A	@ICP-A01	SOLID	95000200	BY104 ROTARY

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	S95T003794	0	A	@ICP-A01	SOLID		
20	SAMPLE	S95T003795	0	A	@ICP-A01	SOLID	95000200	BY104 ROTARY

Analytes Requested: AG-A-01 , AL-A-01 , AS-A-01 , B-A-01 , BA-A-01 , BE-A-01 , BI-A-01 , CA-A-01 , CD-A-01 , CE-A-01 , CO-A-01 , CR-A-01 , CU-A-01 , FE-A-01 , K-A-01 , LA-A-01 , LI-A-01 , MG-A-01 , MN-A-01 , MO-A-01 , NA-A-01 , ND-A-01 , NI-A-01 , P-A-01 , PB-A-01 , S-A-01 , SB-A-01 , SE-A-01 , SI-A-01 , SM-A-01 , SR-A-01 , TI-A-01 , TL-A-01 , U-A-01 , V-A-01 , ZN-A-01 , ZR-A-01

21	DUP	S95T003795	0	A	@ICP-A01	SOLID		
22	ICSA				@ICP-QC	QC		
23	ICSAB				@ICP-QC	QC		

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4621

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
24	CCV				@ICP-QC	QC		
25	CCB				@ICP-QC	QC		

Final page for worklist # 4621

Reviewed by:

Analyst Signature — Date 2-12-96

Analyst Signature — Date 2/13/96

	Dil.
PREPSTDTTA	1
PREP BLK TTA	1
SSRTW03791-C	12.5
SSRTW03791	2.5
SSRTW03791-D	2.5
SSRTW03791-S	2.5
SSRTW03792-C	12.5
SSRTW03792	2.5
SSRTW03792-D	2.5
SSRTW03793-C	12.5
SSRTW03793	2.5
SSRTW03793-D	2.5
SSRTW03794-C	12.5
SSRTW03794	2.5
SSRTW03794-D	2.5
SSRTW03795-C	12.5
SSRTW03795	2.5
SSRTW03795-D	2.5

Data Entry Comments:

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

Analysis Report Summary Mon 02-12-96 03:28:28 PM page 1

#	Sample Name	File	Method	Date	Time	OpID	Type	Mode
1	ICV	960212B	ICP2	02/12/96	13:18	BJG	Q	CONC
2	ICB	960212B	ICP2	02/12/96	13:21	BJG	Q	CONC
3	ICSA	960212B	ICP2	02/12/96	13:24	BJG	Q	CONC
4	ICSAB	960212B	ICP2	02/12/96	13:27	BJG	Q	CONC
5	PREPSTDTJA	960212B	ICP2	02/12/96	13:31	BJG	S	CONC
6	PREPBLKTJA	960212B	ICP2	02/12/96	13:35	BJG	S	CONC
7	S95T003791_L	960212B	ICP2	02/12/96	13:39	BJG	S	CONC
8	S95T003791	960212B	ICP2	02/12/96	13:42	BJG	S	CONC
9	S95T003791_D	960212B	ICP2	02/12/96	13:45	BJG	S	CONC
10	S95T003791_S	960212B	ICP2	02/12/96	13:49	BJG	S	CONC
11	CCV	960212B	ICP2	02/12/96	13:52	BJG	Q	CONC
12	CCB	960212B	ICP2	02/12/96	13:56	BJG	Q	CONC
13	S95T003792_L	960212B	ICP2	02/12/96	14:07	BJG	S	CONC
14	S95T003792	960212B	ICP2	02/12/96	14:11	BJG	S	CONC
15	S95T003792_D	960212B	ICP2	02/12/96	14:15	BJG	S	CONC
16	S95T003793_L	960212B	ICP2	02/12/96	14:18	BJG	S	CONC
17	S95T003793	960212B	ICP2	02/12/96	14:23	BJG	S	CONC
18	S95T003793_D	960212B	ICP2	02/12/96	14:27	BJG	S	CONC
19	CCV	960212B	ICP2	02/12/96	14:31	BJG	Q	CONC
20	CCB	960212B	ICP2	02/12/96	14:34	BJG	Q	CONC
21	S95T003794_L	960212B	ICP2	02/12/96	14:37	BJG	S	CONC
22	S95T003794	960212B	ICP2	02/12/96	14:40	BJG	S	CONC
23	S95T003794_D	960212B	ICP2	02/12/96	14:43	BJG	S	CONC
24	S95T003795_L	960212B	ICP2	02/12/96	14:47	BJG	S	CONC
25	S95T003795	960212B	ICP2	02/12/96	14:51	BJG	S	CONC
26	S95T003795_D	960212B	ICP2	02/12/96	14:55	BJG	S	CONC
27	ICSA	960212B	ICP2	02/12/96	15:11	BJG	Q	CONC
28	ICSAB	960212B	ICP2	02/12/96	15:15	BJG	Q	CONC
29	CCV	960212B	ICP2	02/12/96	15:22	BJG	Q	CONC
30	CCB	960212B	ICP2	02/12/96	15:24	BJG	Q	CONC

WHC-SD-WM-DP-164, REV. 1

BJG 2-12-96
BY104 Acid Digest
S95T003791-95

SIGNATURE ABOVE REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 739 TO 744.

#	Sample Name	Ag	Al	As	B	Ba	Be
1	ICV	5.029	4.956	5.203	5.072	5.010	5.271
2	ICB	.0016	.0186	-.0076	.0004	.0000	.0004
3	ICSA	.0029	242.1	-.0236	.0030	.0025	.0007
4	ICSAB	.9878	239.6	-.0008	.0048	.4937	.4965
5	PREPSTDTJA	.9168	4.872	4.803	5.200	4.709	5.392
6	PREPBLKTJA	.0019	.1405	-.0106	.5807	.0005	.0004
7	S95T003791_L	.0705	123.3	-.2887	.0348	.0237	.0063
8	S95T003791_	.0785	119.8	-.0215	.0382	.0248	.0022
9	S95T003791_D	.0774	116.9	-.0797	.0304	.0258	.0025
10	S95T003791_S	.9855	132.4	4.681	4.545	4.524	4.772
11	CCV	5.051	4.960	5.262	5.076	5.035	5.272
12	CCB	.0014	.0117	-.0074	-.0009	.0000	.0004
13	S95T003792_L	.0938	148.0	-.2480	.3901	.1128	.0055
14	S95T003792_	.0958	145.8	-.1449	.4481	.1129	.0033
15	S95T003792_D	.0959	143.3	-.1017	.5551	.1139	.0033
16	S95T003793_L	.1133	129.1	.0390	.1442	.4804	.0057
17	S95T003793_	.0882	126.3	-.1226	.1324	.4724	.0031
18	S95T003793_D	.0872	145.3	-.0967	.2124	.5668	.0033
19	CCV	5.051	4.952	5.257	5.033	5.054	5.294
20	CCB	.0023	.0147	-.0009	-.0009	.0002	.0005
21	S95T003794_L	.1054	91.12	-.2650	.2029	.0335	.0048
22	S95T003794_	.0956	89.04	-.0503	.1995	.0338	.0020
23	S95T003794_D	.0962	97.41	-.0982	.0297	.0381	.0023
24	S95T003795_L	.1129	116.7	-.1742	.4722	.0591	.0066
25	S95T003795_	.1110	113.9	-.0682	.4822	.0564	.0027
26	S95T003795_D	.0978	111.8	-.1069	.0560	.0516	.0028
27	ICSA	.0013	242.4	-.0359	.0003	.0026	.0005
28	ICSAB	.9860	238.8	-.0337	-.0014	.4884	.4959
29	CCV	5.065	4.969	5.274	5.066	5.063	5.323
30	CCB	.0011	.0099	.0007	.0018	.0002	.0004

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
1	ICV	5.119	5.086	5.095	5.200	5.099	5.144
2	ICB	-.0309	.0031	-.0008	.0103	-.0000	.0004
3	ICSA	-.0007	249.0	-.0002	.0183	.0014	.0028
4	ICSAB	-.0197	251.1	.9732	.0184	.4785	.4904
5	PREPSTDTJA	4.600	4.838	4.656	4.902	4.733	4.759
6	PREPBLKTJA	-.0119	.0867	-.0002	.0121	.0010	.0037
7	S95T003791_L	-.1263	1.050	.0373	-.0342	.0339	10.97
8	S95T003791_	.0562	1.063	.0568	.0221	.0219	10.64
9	S95T003791_D	.0879	1.076	.0558	.0561	.0314	9.948
10	S95T003791_S	4.752	5.881	4.665	4.718	4.643	16.31
11	CCV	5.139	5.211	5.125	5.208	5.127	5.173
12	CCB	-.0172	-.0003	-.0010	.0027	-.0007	-.0004
13	S95T003792_L	.0532	3.040	.3065	.0897	.1302	53.23
14	S95T003792_	.4180	2.979	.3047	.0531	.1205	51.97
15	S95T003792_D	.4400	2.961	.3047	.0401	.1204	49.68
16	S95T003793_L	2.226	13.00	.0974	.2561	.0993	17.48
17	S95T003793_	2.298	12.51	.0930	.0224	.0681	16.97
18	S95T003793_D	2.757	14.59	.1153	-.0011	.0813	19.11
19	CCV	5.167	5.244	5.164	5.203	5.159	5.200

#	Sample Name	Bi	Ca	Cd	Ce	Co	Cr
20	CCB	-.0052	.0006	-.0015	.0056	.0013	.0006
21	S95T003794_L	-.0909	1.270	.0149	.0862	.0547	4.599
22	S95T003794_	.2186	1.247	.0162	.0414	.0363	4.488
23	S95T003794_D	.2036	1.284	.0161	.0426	.0378	4.267
24	S95T003795_L	.2836	1.916	.0243	.1268	.0546	6.598
25	S95T003795_	.3772	1.897	.0245	.0156	.0572	6.441
26	S95T003795_D	.3290	1.550	.0205	.0072	.0478	4.918
27	ICSA	-.0093	243.9	-.0008	.0220	.0016	.0017
28	ICSAB	.0307	252.9	.9720	.0229	.4788	.4916
29	CCV	5.177	5.287	5.176	5.214	5.168	5.216
30	CCB	-.0024	.0012	-.0000	.0020	.0011	.0002

#	Sample Name	Cu	Eu	Fe	K	La	Li
1	ICV	5.141	-.0041	5.142	5.097	5.106	5.140
2	ICB	-.0005	-.0010	.0011	.0701	.0009	-.0007
3	ICSA	-.0120	-.0366	96.16	.1689	-.0054	.0019
4	ICSAB	.4871	-.0372	96.09	-.0317	-.0060	1.015
5	PREPSTDTJA	4.717	-.0050	4.733	4.772	4.832	4.842
6	PREPBLKTJA	.0076	-.0020	.0324	-.0812	.0007	-.0020
7	S95T003791_L	.0103	-.0084	2.940	9.892	-.0091	-.0136
8	S95T003791_	.0245	-.0017	2.875	10.97	.0121	-.0004
9	S95T003791_D	.0193	-.0014	2.948	10.19	.0163	.0002
10	S95T003791_S	4.484	-.0036	8.799	16.99	4.661	4.529
11	CCV	5.136	-.0037	5.173	5.243	5.107	5.115
12	CCB	-.0009	-.0005	.0006	.2039	.0005	-.0005
13	S95T003792_L	.0346	-.0077	9.152	15.75	.0397	-.0094
14	S95T003792_	.0451	-.0032	8.968	16.41	.0419	-.0010
15	S95T003792_D	.0606	-.0035	8.149	16.04	.0443	-.0016
16	S95T003793_L	.0374	-.0058	43.18	17.35	.1307	.0044
17	S95T003793_	.0291	-.0050	41.82	15.45	.1096	.0017
18	S95T003793_D	.0186	-.0066	49.61	17.52	.1387	.0026
19	CCV	5.130	-.0034	5.201	4.989	5.130	5.065
20	CCB	.0002	-.0004	.0008	.0319	.0003	-.0002
21	S95T003794_L	.0146	-.0014	3.733	11.55	.0114	.0014
22	S95T003794_	.0171	-.0002	3.591	10.01	.0138	.0014
23	S95T003794_D	.0046	-.0001	3.896	10.47	.0137	.0008
24	S95T003795_L	.0278	-.0066	6.115	14.29	.0172	-.0092
25	S95T003795_	.0296	-.0008	5.947	12.17	.0182	.0013
26	S95T003795_D	.0055	-.0021	5.166	12.07	.0151	-.0002
27	ICSA	-.0118	-.0387	96.16	.1669	-.0046	.0024
28	ICSAB	.4835	-.0436	96.18	.0174	-.0046	1.010
29	CCV	5.152	-.0033	5.228	5.040	5.139	5.092
30	CCB	.0002	-.0002	.0005	-.0968	.0005	.0001

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
1	ICV	4.945	5.010	5.085	5.037	5.142	5.073
2	ICB	.0061	-.0001	-.0004	-.0080	.0007	-.0111
3	ICSA	246.5	-.0067	-.0102	201.1	.0075	-.0101
4	ICSAB	246.1	.4610	-.0097	200.9	.0050	.9339
5	PREPSTDTJA	4.584	4.646	4.734	5.504	4.699	4.687

#	Sample Name	Mg	Mn	Mo	Na	Nd	Ni
6	PREPBLKTJA	.0154	.0001	.0028	.7622	-.0023	-.0066
7	S95T003791_L	.0195	.0942	.0959	886.7	-.0051	.4858
8	S95T003791	.0803	.0914	.0976	851.5	.0134	.5725
9	S95T003791_D	.1134	.0902	.0964	821.0	.0274	.5828
10	S95T003791_S	4.530	4.558	4.708	862.5	4.513	5.265
11	CCV	4.946	5.036	5.113	5.019	5.137	5.086
12	CCB	-.0013	.0001	.0000	-.0076	-.0019	-.0055
13	S95T003792_L	.1517	.3359	.1736	815.0	.0322	2.430
14	S95T003792	.2457	.3277	.1516	798.4	.0603	2.416
15	S95T003792_D	.2568	.2992	.1401	762.4	.0641	2.398
16	S95T003793_L	1.514	.6391	.1613	1066.	.2550	11.64
17	S95T003793	1.380	.6213	.1273	1039.	.1961	11.15
18	S95T003793_D	1.627	.7329	.1455	963.1	.2455	13.21
19	CCV	4.951	5.055	5.130	4.988	5.140	5.126
20	CCB	-.0001	.0003	.0007	-.0045	-.0004	-.0044
21	S95T003794_L	.1266	.2223	.0674	1086.	.0002	.9242
22	S95T003794	.1479	.2154	.0723	1050.	.0232	.9349
23	S95T003794_D	.1231	.2280	.0786	996.7	.0295	1.072
24	S95T003795_L	.2752	.3278	.1073	1178.	.0375	1.483
25	S95T003795	.1966	.3203	.0887	1132.	.0437	1.611
26	S95T003795_D	.1623	.2687	.0927	1021.	.0308	1.388
27	ICSA	247.9	-.0070	-.0095	194.5	.0082	-.0155
28	ICSAB	246.2	.4600	-.0115	199.7	.0072	.9367
29	CCV	4.950	5.063	5.148	5.018	5.164	5.158
30	CCB	.0004	.0004	.0020	-.0031	.0002	-.0138

#	Sample Name	P	Pb	S	Sb	Se	Si
1	ICV	5.150	5.096	4.969	4.826	5.016	4.854
2	ICB	-.0009	-.0014	-.0088	-.0028	-.0179	-.0042
3	ICSA	.0001	.0468	-.0303	-.0040	-.0211	-.0023
4	ICSAB	.0348	1.049	-.0297	.0115	-.0357	.0025
5	PREPSTDTJA	4.728	4.596	4.561	4.405	4.722	8.532
6	PREPBLKTJA	.0228	.0142	.0757	.0075	.0013	.1635
7	S95T003791_L	15.93	.2205	13.18	.0643	-.1167	.4763
8	S95T003791	15.41	.3354	12.77	-.0014	.0117	.5152
9	S95T003791_D	16.04	.3760	11.36	.0366	-.0079	.5149
10	S95T003791_S	18.78	5.058	17.86	4.395	4.554	4.787
11	CCV	5.197	5.145	4.998	4.853	4.991	4.887
12	CCB	-.0110	.0035	-.0142	-.0020	-.0099	-.0021
13	S95T003792_L	40.19	.9212	44.61	.0051	-.0564	1.144
14	S95T003792	39.38	.9907	43.75	.0334	.0310	1.166
15	S95T003792_D	28.87	.9572	42.91	.0320	.0122	1.586
16	S95T003793_L	20.13	1.986	26.80	.0948	-.0398	2.789
17	S95T003793	19.69	1.745	26.05	.0321	.0199	2.757
18	S95T003793_D	19.60	2.054	25.89	.0235	.0326	3.205
19	CCV	5.195	5.172	4.959	4.867	5.028	4.881
20	CCB	-.0106	.0073	-.0035	.0090	.0137	.0006
21	S95T003794_L	7.508	.3001	12.93	.0788	.0374	.8627
22	S95T003794	7.226	.2917	12.80	-.0041	.0845	.8679
23	S95T003794_D	8.749	.2880	12.85	.0131	-.0129	1.016
24	S95T003795_L	3.634	.5603	18.66	.0088	.0224	1.075
25	S95T003795	3.746	.4231	18.45	-.0025	.0515	1.101

#	Sample Name	P	Pb	S	Sb	Se	Si
26	S95T003795_D	3.132	.3968	16.08	.0020	.0288	1.111
27	ICSA	.0047	.0410	-.0336	-.0002	-.0083	.0034
28	ICSAB	.0030	1.050	-.0437	-.0029	-.0157	.0076
29	CCV	5.219	5.179	4.995	4.884	5.062	4.891
30	CCB	-.0115	-.0014	-.0162	.0130	.0133	.0009

#	Sample Name	Sm	Sr	Th	Ti	Tl	U
1	ICV	5.001	5.020	.0475	4.952	5.009	9.633
2	ICB	-.0107	-.0008	.0049	.0008	-.0031	-.0396
3	ICSA	-.0055	-.0029	.0312	.0025	-.0192	.1609
4	ICSAB	-.0089	-.0028	.0215	.0020	.0224	.1313
5	PREPSTDTJA	4.715	4.745	.0480	4.652	4.540	9.059
6	PREPBLKTJA	-.0361	.0001	.0105	.0013	.0073	-.1087
7	S95T003791_L	-.1097	.8355	.0293	.0023	-.1397	1.400
8	S95T003791_	-.0246	.8173	.0359	.0072	.0151	1.642
9	S95T003791_D	-.0106	.8635	.0450	.0091	-.0153	1.774
10	S95T003791_S	4.506	5.488	.0855	4.481	4.444	10.69
11	CCV	5.005	5.016	.0508	4.952	5.009	9.647
12	CCB	-.0065	-.0006	.0003	.0002	.0089	-.0242
13	S95T003792_L	-.0610	3.597	.1225	.0364	.1444	7.360
14	S95T003792_	-.0208	3.568	.1055	.0340	-.0015	7.314
15	S95T003792_D	-.0343	3.692	.1165	.0340	.0251	7.274
16	S95T003793_L	.0736	23.44	.1752	.0960	.1420	29.27
17	S95T003793_	.0166	23.25	.0940	.0817	.0134	28.80
18	S95T003793_D	.0314	27.94	.1508	.0968	-.0390	34.63
19	CCV	5.009	5.031	.0476	4.973	5.004	9.660
20	CCB	.0004	.0001	.0038	.0003	.0169	-.0083
21	S95T003794_L	.0159	1.482	.0350	.0051	.1365	2.222
22	S95T003794_	.0073	1.463	.0426	.0077	.0437	2.109
23	S95T003794_D	.0126	1.643	.0416	.0076	-.0075	2.342
24	S95T003795_L	-.0548	2.636	.0808	.0138	.1140	3.386
25	S95T003795_	.0043	2.593	.0614	.0119	-.0105	3.479
26	S95T003795_D	-.0205	2.371	.0546	.0090	.0421	3.087
27	ICSA	.0062	-.0026	.0202	.0020	-.0138	.1891
28	ICSAB	.0006	-.0031	.0182	.0020	.0120	.1628
29	CCV	5.025	5.069	.0462	4.976	5.034	9.678
30	CCB	-.0014	.0001	.0046	.0000	.0127	.0036

#	Sample Name	V	Y	Zn	Zr
1	ICV	5.024	.0056	5.015	4.956
2	ICB	-.0027	-.0005	-.0003	-.0021
3	ICSA	-.0028	.0068	.0033	-.0070
4	ICSAB	.4723	.0069	.9763	-.0064
5	PREPSTDTJA	4.626	.0034	4.482	4.659
6	PREPBLKTJA	-.0052	-.0014	.0106	-.0031
7	S95T003791_L	-.0171	-.0045	.0983	.0227
8	S95T003791_	.0003	-.0001	.0901	.0343
9	S95T003791_D	.0028	.0008	.0877	.0387
10	S95T003791_S	4.479	.0058	4.595	4.560
11	CCV	5.040	.0059	5.044	4.960

#	Sample Name	V	Y	Zn	Zr
12	CCB	-.0012	-.0005	.0007	-.0018
13	S95T003792_L	.0371	.0008	.2717	.1460
14	S95T003792	.0501	.0053	.2487	.1499
15	S95T003792_D	.0278	.0049	.2592	.1474
16	S95T003793_L	.0177	.0130	.3098	.1018
17	S95T003793	.0172	.0132	.3010	.1052
18	S95T003793_D	.0122	.0159	.3452	.1205
19	CCV	5.060	.0059	5.056	4.991
20	CCB	-.0007	-.0001	.0001	.0001
21	S95T003794_L	.0019	.0010	.1065	.0123
22	S95T003794	.0053	.0026	.1071	.0118
23	S95T003794_D	.0071	.0025	.0836	.0134
24	S95T003795_L	-.0170	.0005	.1576	.0074
25	S95T003795	.0009	.0034	.1167	.0194
26	S95T003795_D	-.0023	.0020	.1087	.0133
27	ICSA	-.0006	.0070	.0011	-.0047
28	ICSAB	.4720	.0073	.9788	-.0044
29	CCV	5.081	.0060	5.074	5.001
30	CCB	-.0006	-.0002	.0005	-.0007

WHC-SD-WM-DP-164, REV. 1

SP

2/13/96

File: 9602088

LABCORE Data Entry Template for Worklist# 4635

Analyst: JKSolo **Instrument:** ICP01 _____ **Book#** 50848a

Method: LA-505-151/161 Rev/Mod J3

Worklist Comment: ICP BY-104 (FUSION) WHC-SD-WM-DP-164, REV. 1

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-F01	SOLID		
6	SAMPLE	S95T003531	0	F	@ICP-F01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 , U-F-01			
7	DUP	S95T003531	0	F	@ICP-F01	SOLID		
8	SPK	S95T003531	0	F	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
~~11~~	~~PREPBLKARL~~	JK 02-08-96			@ICP-F01	SOLID		
12	SAMPLE	S95T003700	0	F	@ICP-F01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 , U-F-01			
13	DUP	S95T003700	0	F	@ICP-F01	SOLID		
14	SPK	S95T003700	0	F	@ICP-F01	SOLID		
15	SAMPLE	S95T003701	0	F	@ICP-F01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:				AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 ,			

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4635

S	Type	Sample#	R	A	Test U-F-01	Matrix	Group#	Project
16	DUP	S95T003701	0	F	@ICP-F01	SOLID		
17	SPK	S95T003701	0	F	@ICP-F01	SOLID		
18	ICSA				@ICP-QC	QC		
19	ICSAB				@ICP-QC	QC		
20	CCV				@ICP-QC	QC		
21	CCB				@ICP-QC	QC		

Final page for worklist # 4635

K Lot 02-08-96
Analyst Signature Date

Reviewed by:
Saul M. Parry 2/13/96
Analyst Signature Date

Prep blk Gr2, 25-10 ml
S95T003531_L, 25-10-2-8 ml, JF 205
S95T003531, 25-10, 41
S95T003531_D, 25-10, 41
S95T003531_G, 25-10, 41, 25 ml sample + 2 ml SSTS + 8 ml HNO_3
S95T003700_L, 25-10-2-8, JF 205
S95T003700, 25-10, 41
S95T003700_D, 25-10, 41
S95T003700_G, 25-10, 41, 25 ml sample + 2 ml SSTS + 8 ml HNO_3
S95T003701_L, 25-10-2-8, JF 205
S95T003701, 25-10, 41
S95T003701_D, 25-10, 41
S95T003701_G, 25-10, 41, 25 ml sample + 2 ml SSTS + 8 ml HNO_3

Data Entry Comments:

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

File: 960208B

Identity 1: ICV Identity 2: Quality Control 2:35 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.955	5.050	5.024	4.787	4.968	5.083	5.117	5.150
S.D.	0.008	0.013	0.035	0.005	0.006	0.009	0.021	0.044
% R.S.D.	0.160	0.265	0.697	0.100	0.118	0.186	0.413	0.848

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.026	5.004	5.017	5.044	5.064	5.040	5.064	9.728
S.D.	0.004	0.015	0.009	0.005	0.013	0.016	0.013	0.027
% R.S.D.	0.086	0.298	0.176	0.102	0.249	0.323	0.252	0.281

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.135	5.108	5.078	4.909	4.911	4.905	5.119	5.066
S.D.	0.010	0.011	0.017	0.202	0.108	0.011	0.039	0.041
% R.S.D.	0.188	0.220	0.335	4.108	2.196	0.224	0.759	0.807

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.084	5.039	4.919	4.979	4.965	5.022	5.049	4.990
S.D.	0.015	0.045	0.008	0.027	0.008	0.009	0.019	0.052
% R.S.D.	0.291	0.885	0.164	0.547	0.153	0.178	0.380	1.050

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.027	4.697	5.056	5.212	4.846
S.D.	0.008	0.033	0.012	0.013	0.011
% R.S.D.	0.163	0.696	0.236	0.242	0.222

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 747 TO 769.

JK

02-08-96

BY-104 595T003531
595T003700
595T003701

Worklist # 4635

Identity 1: ICB Identity 2: Quality Control 2:40 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-0.004	-0.000	0.007	-0.013	-0.017	-0.001	-0.001	-0.000
S.D.	0.002	0.000	0.011	0.003	0.005	0.003	0.001	0.000
% R.S.D.	53.143	900.000	153.597	25.394	30.987	308.004	65.820	228.144

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.001	-0.006	-0.002	-0.006	0.001	-0.002	0.005	-0.205
S.D.	0.000	0.003	0.001	0.001	0.000	0.000	0.008	0.088
% R.S.D.	18.762	46.628	34.925	14.652	14.783	13.393	181.671	43.152

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.022	0.041	-0.000	0.010	-0.005	0.000	-0.003	-0.001
S.D.	0.022	0.019	0.000	0.004	0.001	0.000	0.003	0.005
% R.S.D.	99.955	45.961	209.915	40.850	12.520	34.641	120.231	377.646

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.034	-0.001	-0.014	-0.002	0.000	0.001	-0.010
S.D.	0.001	0.012	0.001	0.011	0.000	0.000	0.001	0.013
% R.S.D.	76.822	35.073	141.073	81.558	20.572	118.031	64.820	128.467

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	0.004	-0.001	-0.000	0.066
S.D.	0.000	0.004	0.001	0.000	0.043
% R.S.D.	88.380	94.798	147.850	74.271	65.181

Identity 1: ICSA Identity 2: Quality Control 2:43 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.005	0.002	-0.013	0.007	199.415	-0.004	0.000	-0.000
S.D.	0.001	0.000	0.001	0.002	0.592	0.002	0.000	0.000
% R.S.D.	13.217	1.732	9.084	35.198	0.297	43.076	19.119	34.766

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.005	0.004	0.001	98.466	101.455	0.003	-0.009	-0.073
S.D.	0.000	0.001	0.004	0.202	0.306	0.002	0.008	0.024
% R.S.D.	2.247	20.353	454.713	0.205	0.301	77.154	94.379	32.370

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.018	0.063	0.003	0.038	-0.025	101.406	0.035	195.519
S.D.	0.004	0.005	0.000	0.015	0.011	0.741	0.009	0.998
% R.S.D.	21.912	7.903	4.852	38.469	42.750	0.731	25.284	0.511

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.061	0.002	-0.005	-0.001	0.002	0.013	-0.049
S.D.	0.001	0.017	0.000	0.011	0.000	0.001	0.001	0.005
% R.S.D.	66.636	28.418	16.626	214.642	32.772	32.909	8.335	10.660

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.004	-0.013	-0.000	0.003	0.021
S.D.	0.000	0.028	0.001	0.000	0.011
% R.S.D.	4.407	205.652	772.161	8.804	53.641

Identity 1: ICSAB Identity 2: Quality Control 2:45 PM February 8, 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	-0.026	0.000	200.138	0.486	0.515	0.969
S.D.	0.001	0.000	0.013	0.002	0.367	0.003	0.002	0.008
% R.S.D.	84.332	2.885	49.737	10888.047	0.184	0.648	0.362	0.876

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.990	0.978	-0.002	98.575	101.916	0.503	-0.002	-0.199
S.D.	0.003	0.008	0.003	0.135	0.119	0.004	0.002	0.043
% R.S.D.	0.306	0.825	144.914	0.137	0.117	0.789	77.110	21.660

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.000	0.025	0.520	0.009	-0.002	100.644	0.023	195.964
S.D.	0.012	0.009	0.002	0.006	0.017	0.387	0.003	1.613
% R.S.D.	60694.899	35.441	0.305	68.888	882.296	0.384	13.312	0.823

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.019	1.022	1.011	-0.002	1.000	0.014	-0.059
S.D.	0.001	0.027	0.001	0.020	0.001	0.001	0.000	0.016
% R.S.D.	62.629	143.153	0.074	1.966	38.927	0.139	3.149	27.214

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.506	0.023	0.499	0.508	0.022
S.D.	0.001	0.024	0.001	0.001	0.024
% R.S.D.	0.276	105.607	0.266	0.148	110.948

Identity 1: PREPBLK Identity 2: Quality Control 2:50 PM February 8, 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	0.332	0.000	0.021	-0.017	-0.018	0.001	-0.001	-0.000
S.D.	0.000	0.000	0.009	0.002	0.002	0.002	0.000	0.000
% R.S.D.	0.122	13.323	44.531	9.043	11.565	172.973	24.568	96.449

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.000	0.003	-0.004	0.000	0.001	-0.001	0.009	-0.017
S.D.	0.000	0.001	0.001	0.001	0.000	0.001	0.002	0.016
% R.S.D.	127.253	32.589	33.060	284.873	8.040	136.136	20.680	94.395

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.022	0.023	-0.000	-0.011	-0.000	0.002	0.011	0.189
S.D.	0.005	0.005	0.000	0.009	0.003	0.000	0.008	0.003
% R.S.D.	23.767	21.491	63.099	82.530	619.253	7.873	73.911	1.660

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.030	-0.001	-0.004	-0.000	0.001	0.001	504.054
S.D.	0.001	0.003	0.001	0.002	0.000	0.001	0.001	0.843
% R.S.D.	39.033	10.661	124.865	58.949	46.279	173.327	83.824	0.167

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	0.018	-0.000	-0.000	0.006
S.D.	0.000	0.019	0.000	0.000	0.014
% R.S.D.	86.195	107.201	623.774	85.011	235.428

Identity 1: S95T003531_L Identity 2: .25-10-2-8 ml 2:53 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
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	2.232	0.109	-0.326	1.511	2.007	-0.372	-0.177	-0.081
S.D.	0.101	0.007	1.568	0.817	1.364	0.324	0.141	0.041
% R.S.D.	4.518	6.415	480.548	54.106	67.963	86.870	79.864	50.913

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.086	-0.171	0.854	0.502	0.103	9.524	2.711	-12.076
S.D.	0.164	0.166	0.147	0.759	0.027	0.236	0.203	8.679
% R.S.D.	190.477	97.407	17.270	151.383	26.087	2.477	7.503	71.870

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-4.678	2.378	-0.053	16.545	-0.681	0.434	0.900	260.662
S.D.	2.033	1.511	0.041	2.816	0.606	0.038	1.521	1.592
% R.S.D.	43.467	63.532	76.014	17.023	89.031	8.660	168.996	0.611

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.521	-10.647	-0.338	-4.467	-0.288	-0.109	-0.296	18958.357
S.D.	0.199	3.033	0.116	1.969	0.107	0.123	0.191	161.677
% R.S.D.	38.193	28.488	34.140	44.078	37.025	112.694	64.558	0.853

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.020	11.157	-0.877	-0.083	-2.199
S.D.	0.031	2.981	0.194	0.025	3.099
% R.S.D.	156.385	26.720	22.098	29.535	140.885

Identity 1: S95T003531 Identity 2: .25-10 ml 2:56 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	2.458	0.177	0.143	-0.594	4.164	-0.073	0.071	0.046
S.D.	0.059	0.009	0.412	0.230	0.351	0.171	0.043	0.027
% R.S.D.	2.411	4.811	289.037	38.666	8.427	232.587	60.504	58.930

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.024	0.018	-0.177	0.144	0.353	10.610	0.987	-9.914
S.D.	0.016	0.148	0.062	0.165	0.006	0.011	0.270	5.097
% R.S.D.	64.421	830.650	35.039	114.510	1.577	0.107	27.304	51.410

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	1.847	0.122	0.063	17.615	1.000	0.083	0.165	249.310
S.D.	1.259	1.015	0.024	0.177	0.101	0.008	0.119	3.791
% R.S.D.	68.185	828.703	38.326	1.003	10.079	9.116	72.350	1.520

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.035	-1.688	0.090	-0.063	-0.093	0.071	0.002	17778.293
S.D.	0.043	0.818	0.079	0.388	0.047	0.043	0.061	233.109
% R.S.D.	122.707	48.471	87.685	620.279	50.196	60.185	2841.451	1.311

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.019	0.162	0.150	0.009	1.687
S.D.	0.016	1.675	0.066	0.010	2.573
% R.S.D.	84.619	1033.671	44.129	109.111	152.539

Identity 1: S95T003531_D Identity 2: .25-10 ml 2:59 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	2.668	0.126	0.355	0.185	3.553	-0.224	-0.051	-0.036
S.D.	0.055	0.007	0.539	0.248	0.116	0.065	0.028	0.014
% R.S.D.	2.077	5.875	151.758	134.114	3.256	28.961	54.630	38.480

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.004	0.086	-0.088	0.202	0.120	9.224	-0.048	-3.528
S.D.	0.020	0.090	0.060	0.064	0.002	0.074	0.267	2.874
% R.S.D.	504.917	104.653	68.228	31.797	1.283	0.803	559.364	81.459

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-2.081	0.983	-0.008	18.338	1.208	0.074	-0.197	225.822
S.D.	0.677	0.557	0.012	1.368	0.297	0.004	0.291	2.670
% R.S.D.	32.528	56.644	137.270	7.463	24.630	5.094	147.589	1.182

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.024	-1.223	-0.133	-0.674	-0.041	0.046	-0.009	16410.808
S.D.	0.022	0.469	0.040	0.205	0.036	0.048	0.043	172.084
% R.S.D.	90.565	38.364	30.219	30.361	88.945	102.963	459.606	1.049

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.008	-1.142	-0.043	-0.012	-3.052
S.D.	0.013	0.755	0.023	0.000	1.238
% R.S.D.	166.813	66.066	52.266	3.189	40.556

Identity 1: S95T003531_A Identity 2: .25sam+2sst5+8hno3 3:02 PM February 8, 1996

Task name : OPTIMA

WHC-SD-WM-DP-164, REV. 1

Sample Weight : 1.0000 Solution Volume : 41.00

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	43.834	41.238	41.127	39.152	43.907	40.052	42.033	39.716
S.D.	0.036	0.134	0.936	0.070	0.112	0.233	0.183	0.380
% R.S.D.	0.083	0.324	2.276	0.179	0.254	0.583	0.436	0.956

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	39.998	40.233	41.201	40.747	41.520	51.230	42.972	71.208
S.D.	0.073	0.145	0.158	0.340	0.129	0.165	0.209	1.820
% R.S.D.	0.183	0.361	0.384	0.836	0.311	0.322	0.486	2.555

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	40.176	41.955	41.240	55.707	40.328	38.628	41.378	295.096
S.D.	0.603	0.292	0.151	0.824	0.557	0.049	0.509	2.655
% R.S.D.	1.501	0.697	0.367	1.479	1.381	0.128	1.229	0.900

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	40.225	37.564	32.015	40.611	40.024	40.328	40.355	18315.199
S.D.	0.141	0.880	0.030	0.586	0.071	0.108	0.009	155.183
% R.S.D.	0.351	2.344	0.093	1.443	0.177	0.267	0.022	0.847

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	40.625	40.952	41.048	41.071	41.337
S.D.	0.023	0.368	0.054	0.080	1.061
% R.S.D.	0.056	0.900	0.131	0.195	2.566

Identity 1: CCV Identity 2: Quality Control 3:06 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.951	5.000	5.018	4.759	4.925	5.013	5.106	5.121
S.D.	0.008	0.009	0.018	0.006	0.007	0.010	0.012	0.039
% R.S.D.	0.165	0.181	0.358	0.118	0.135	0.192	0.239	0.757

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.037	4.996	5.040	5.094	5.060	5.028	5.213	9.676
S.D.	0.002	0.014	0.012	0.009	0.008	0.013	0.006	0.014
% R.S.D.	0.038	0.278	0.232	0.172	0.166	0.252	0.118	0.150

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.050	5.099	5.032	4.948	4.891	4.875	5.106	5.072
S.D.	0.008	0.011	0.010	0.071	0.029	0.009	0.006	0.037
% R.S.D.	0.151	0.224	0.208	1.428	0.601	0.181	0.114	0.725

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.017	4.896	4.956	5.021	4.914	5.011	5.116	5.232
S.D.	0.011	0.009	0.005	0.045	0.009	0.004	0.013	0.031
% R.S.D.	0.219	0.191	0.107	0.900	0.183	0.074	0.259	0.589

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.036	4.787	5.058	5.185	4.913
S.D.	0.010	0.024	0.008	0.011	0.008
% R.S.D.	0.205	0.505	0.163	0.209	0.167

Identity 1: CCB Identity 2: Quality Control 3:10 PM February 8, 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	-0.000	0.008	-0.008	-0.026	-0.003	-0.001	-0.001
S.D.	0.000	0.000	0.004	0.000	0.002	0.002	0.000	0.000
% R.S.D.	9.796	42.857	50.294	2.420	8.546	58.126	47.052	29.567

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.000	-0.004	-0.003	-0.004	0.002	-0.000	-0.011	-0.156
S.D.	0.000	0.002	0.001	0.001	0.000	0.001	0.004	0.009
% R.S.D.	113.034	46.385	42.362	30.376	8.911	1739.202	32.897	5.842

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.038	0.023	-0.001	-0.015	-0.001	-0.000	0.006	-0.002
S.D.	0.003	0.001	0.000	0.006	0.003	0.000	0.003	0.001
% R.S.D.	7.141	6.094	7.901	41.890	334.314	0.000	50.146	57.746

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.018	-0.000	-0.015	-0.002	-0.001	0.001	-0.033
S.D.	0.001	0.008	0.000	0.007	0.000	0.000	0.000	0.007
% R.S.D.	210.744	44.910	104.871	48.071	7.090	20.318	21.704	20.929

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	-0.001	-0.002	0.000	0.035
S.D.	0.000	0.018	0.000	0.000	0.013
% R.S.D.	1601.043	3476.431	15.448	63.499	37.989

Identity 1: S95T003700_L Identity 2: .25-10-2-8 ml 3:47 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
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	8.634	0.129	0.986	-1.021	2.561	-0.555	0.080	0.117
S.D.	0.187	0.032	1.213	0.379	1.085	0.856	0.083	0.090
% R.S.D.	2.163	24.804	123.079	37.099	42.364	154.214	103.606	76.830

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.040	-0.031	-0.108	-0.983	0.655	10.098	2.404	-47.672
S.D.	0.076	0.407	0.302	0.443	0.008	0.451	1.991	11.980
% R.S.D.	187.899	1313.919	278.518	45.120	1.178	4.468	82.795	25.129

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.981	-0.578	0.055	3.739	3.080	0.391	2.402	261.502
S.D.	3.138	2.146	0.063	1.579	0.335	0.000	1.339	2.799
% R.S.D.	319.862	370.898	113.479	42.228	10.871	0.000	55.741	1.071

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.035	-1.361	0.201	-0.519	-0.443	0.030	-0.397	16645.959
S.D.	0.161	1.046	0.183	0.876	0.067	0.047	0.156	189.621
% R.S.D.	461.492	76.854	91.258	168.837	15.133	155.501	39.352	1.139

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.023	-5.027	0.133	0.021	4.472
S.D.	0.031	3.748	0.264	0.040	5.251
% R.S.D.	131.173	74.551	198.181	195.695	117.409

Identity 1: S95T003700 Identity 2: .25-10 ml 3:50 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	9.865	0.101	0.569	-0.331	4.975	-0.261	-0.037	-0.032
S.D.	0.020	0.002	0.161	0.196	0.158	0.000	0.014	0.012
% R.S.D.	0.202	2.400	28.294	59.249	3.179	0.050	36.338	38.480

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.017	0.162	-0.105	0.104	0.587	10.814	-0.133	-4.247
S.D.	0.025	0.046	0.052	0.020	0.006	0.056	0.078	1.025
% R.S.D.	147.988	28.457	49.030	19.250	0.949	0.517	58.303	24.130

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-1.729	1.091	-0.002	1.882	3.817	0.085	0.060	250.599
S.D.	0.246	0.172	0.003	0.541	0.402	0.000	0.067	0.270
% R.S.D.	14.237	15.781	144.338	28.760	10.533	0.000	113.015	0.108

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.118	-0.515	-0.074	-0.890	-0.040	0.053	0.048	15547.764
S.D.	0.056	0.148	0.019	0.385	0.020	0.025	0.041	8.481
% R.S.D.	47.558	28.701	25.381	43.273	49.114	46.781	86.438	0.055

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.004	0.882	0.021	-0.001	0.982
S.D.	0.006	0.119	0.024	0.009	0.414
% R.S.D.	174.205	13.467	115.763	1013.008	42.115

Identity 1: S95T003700_D Identity 2: .25-10 ml 3:53 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	8.428	0.140	-0.062	0.083	6.472	-0.187	-0.025	-0.007
S.D.	0.024	0.000	0.045	0.036	0.169	0.065	0.007	0.007
% R.S.D.	0.291	0.000	71.629	43.757	2.607	34.612	29.006	99.063

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.009	0.067	-0.052	0.288	0.269	13.046	0.285	-0.146
S.D.	0.010	0.050	0.052	0.079	0.003	0.097	0.141	1.059
% R.S.D.	109.201	74.303	100.522	27.587	0.993	0.745	49.485	723.480

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.819	1.758	0.008	3.387	4.474	0.083	0.037	298.163
S.D.	0.242	0.274	0.004	0.359	0.190	0.004	0.234	2.187
% R.S.D.	29.578	15.572	54.085	10.590	4.253	4.558	639.819	0.733

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.065	-2.372	-0.035	-0.099	-0.026	0.019	-0.029	12869.220
S.D.	0.045	0.175	0.004	0.635	0.004	0.027	0.015	63.619
% R.S.D.	69.824	7.389	11.180	640.845	15.120	144.947	51.754	0.494

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.014	0.999	-0.010	-0.020	0.181
S.D.	0.013	0.411	0.016	0.008	0.390
% R.S.D.	88.705	41.157	152.232	42.276	215.685

Identity 1: S95T003700_A Identity 2: .25sam+2sst5+8hno3 3:56 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	50.688	41.355	40.840	39.451	45.590	40.425	42.156	40.064
S.D.	0.023	0.035	0.547	0.081	0.237	0.065	0.002	0.216
% R.S.D.	0.046	0.085	1.340	0.205	0.520	0.160	0.005	0.539

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	39.985	40.248	41.152	41.530	41.703	51.053	42.816	77.568
S.D.	0.064	0.229	0.181	0.506	0.025	0.146	0.409	0.407
% R.S.D.	0.159	0.568	0.440	1.218	0.060	0.285	0.954	0.525

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	41.132	40.772	41.392	42.288	43.428	38.650	41.587	297.058
S.D.	0.201	0.094	0.018	1.335	0.387	0.037	0.242	1.892
% R.S.D.	0.488	0.231	0.044	3.158	0.890	0.095	0.582	0.637

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	40.354	38.085	30.687	40.757	40.062	40.216	40.568	15950.972
S.D.	0.183	1.058	0.198	0.182	0.059	0.093	0.034	80.210
% R.S.D.	0.452	2.778	0.645	0.447	0.147	0.232	0.083	0.503

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	40.632	40.927	41.157	41.278	41.905
S.D.	0.086	0.326	0.061	0.101	0.376
% R.S.D.	0.211	0.796	0.147	0.245	0.898

Identity 1: S95T003701_L Identity 2: .25-10-2-8 ml 3:59 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
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	13.153	0.275	3.926	0.054	2.380	0.190	-0.018	-0.036
S.D.	0.060	0.024	2.810	1.085	1.591	0.325	0.127	0.023
% R.S.D.	0.458	8.824	71.559	2014.808	66.859	170.552	691.263	64.937

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.040	-0.443	-0.442	-0.418	-0.161	3.975	1.436	-25.674
S.D.	0.106	0.671	0.598	0.394	0.008	0.413	0.914	7.095
% R.S.D.	262.520	151.353	135.381	94.364	4.811	10.400	63.635	27.634

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-1.171	11.818	0.013	-0.312	6.296	0.423	-1.192	260.663
S.D.	2.344	1.393	0.034	1.286	0.330	0.000	1.007	1.058
% R.S.D.	200.141	11.784	257.143	412.359	5.240	0.000	84.463	0.406

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.460	-11.702	0.464	-2.138	-0.329	0.124	-0.005	12480.781
S.D.	0.172	2.882	0.199	2.930	0.115	0.124	0.151	65.525
% R.S.D.	37.527	24.632	42.913	137.080	34.968	99.906	3348.433	0.525

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.022	16.407	0.441	0.010	-3.837
S.D.	0.064	3.389	0.138	0.023	5.163
% R.S.D.	295.731	20.655	31.208	231.345	134.548

Identity 1: S95T003701 Identity 2: .25-10 ml 4:02 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	13.970	0.269	0.422	-0.032	5.040	-0.187	-0.030	-0.016
S.D.	0.078	0.007	0.598	0.351	0.498	0.065	0.045	0.009
% R.S.D.	0.560	2.601	141.714	1103.134	9.889	34.586	150.516	53.542

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.059	0.181	0.085	0.715	0.275	3.845	0.087	-2.532
S.D.	0.032	0.084	0.029	0.099	0.003	0.079	0.343	1.809
% R.S.D.	55.086	46.247	34.434	13.772	0.974	2.050	395.888	71.449

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.908	0.984	0.004	1.695	6.260	0.080	-0.207	257.524
S.D.	0.542	0.517	0.012	0.211	0.398	0.008	0.168	3.639
% R.S.D.	59.765	52.508	311.769	12.427	6.351	9.363	81.371	1.413

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.136	-1.333	0.015	-0.968	-0.059	-0.041	-0.040	12148.181
S.D.	0.038	0.552	0.054	0.462	0.047	0.043	0.033	147.472
% R.S.D.	28.219	41.431	359.567	47.758	80.124	105.242	81.716	1.214

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.015	2.133	0.025	-0.014	-0.712
S.D.	0.006	0.645	0.085	0.013	1.349
% R.S.D.	42.207	30.236	345.370	90.249	189.371

Identity 1: S95T003701_D Identity 2: .25-10 ml 4:05 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	14.065	0.339	0.152	-0.536	8.402	0.001	-0.000	0.012
S.D.	0.114	0.002	0.064	0.104	0.155	0.065	0.008	0.010
% R.S.D.	0.809	0.716	42.113	19.389	1.846	7828.985	4817.530	83.309

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.014	0.175	-0.072	0.622	0.683	5.061	0.042	-6.106
S.D.	0.003	0.096	0.029	0.037	0.002	0.014	0.204	1.306
% R.S.D.	21.023	54.770	40.874	5.957	0.226	0.280	485.946	21.383

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.476	0.799	0.013	1.804	7.804	0.089	0.365	325.297
S.D.	0.341	0.220	0.006	0.263	0.118	0.004	0.099	1.534
% R.S.D.	71.656	27.529	44.118	14.603	1.514	4.225	27.142	0.472

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.053	-0.219	0.058	-0.450	-0.086	0.018	-0.045	13795.072
S.D.	0.036	0.167	0.040	0.548	0.014	0.033	0.049	50.340
% R.S.D.	68.329	76.406	68.964	121.718	16.445	178.667	108.516	0.365

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.037	0.271	0.092	-0.006	1.588
S.D.	0.006	0.906	0.015	0.013	0.647
% R.S.D.	16.895	334.683	15.796	196.114	40.730

Identity 1: S95T003701_A Identity 2: .25sam+2sst5+8hno3 4:08 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	54.834	41.322	41.406	39.727	46.141	40.575	41.779	39.692
S.D.	0.173	0.146	0.654	0.081	0.240	0.449	0.259	0.576
% R.S.D.	0.315	0.353	1.580	0.203	0.520	1.105	0.620	1.451

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	40.565	40.641	41.221	42.044	41.416	44.739	43.101	77.005
S.D.	0.130	0.194	0.195	0.443	0.112	0.134	0.194	3.054
% R.S.D.	0.320	0.478	0.472	1.054	0.271	0.298	0.450	3.966

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	40.990	42.414	41.088	43.268	46.434	39.147	41.208	294.986
S.D.	0.666	0.469	0.194	2.680	1.269	0.137	0.483	3.693
% R.S.D.	1.626	1.105	0.473	6.195	2.734	0.349	1.172	1.252

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	40.476	39.688	30.944	40.975	40.087	40.477	40.763	12089.220
S.D.	0.246	0.052	0.174	0.942	0.036	0.403	0.273	133.965
% R.S.D.	0.607	0.130	0.561	2.299	0.091	0.996	0.670	1.108

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	40.973	38.380	41.475	41.338	39.816
S.D.	0.183	0.718	0.150	0.054	1.198
% R.S.D.	0.448	1.870	0.363	0.131	3.008

Identity 1: ICSA Identity 2: Quality Control 4:13 PM February 8, 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	-0.008	0.007	197.431	-0.001	0.001	0.000
S.D.	0.000	0.000	0.004	0.001	0.128	0.002	0.000	0.000
% R.S.D.	6.570	1.786	46.442	14.728	0.065	170.959	20.741	277.699

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.004	0.005	0.000	99.333	101.570	-0.000	-0.012	-0.201
S.D.	0.000	0.001	0.003	0.060	0.076	0.001	0.004	0.010
% R.S.D.	5.657	17.809	2900.487	0.060	0.075	1368.353	31.783	4.931

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.011	0.037	0.003	0.022	-0.020	100.308	0.028	193.227
S.D.	0.002	0.002	0.000	0.018	0.007	0.216	0.003	0.484
% R.S.D.	16.854	6.102	0.977	81.676	32.900	0.215	10.023	0.250

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.001	-0.023	0.002	0.001	-0.001	0.003	0.012	0.014
S.D.	0.001	0.021	0.000	0.004	0.000	0.001	0.001	0.006
% R.S.D.	173.847	92.636	8.266	581.679	33.688	18.881	7.021	41.945

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.004	0.019	0.001	0.003	0.038
S.D.	0.000	0.025	0.001	0.000	0.009
% R.S.D.	5.429	127.462	77.154	7.431	24.758

Identity 1: ICSAB Identity 2: Quality Control 4:15 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.001	0.002	-0.017	0.004	197.877	0.492	0.506	0.946
S.D.	0.001	0.000	0.009	0.005	0.455	0.002	0.001	0.000
% R.S.D.	55.927	3.608	51.902	114.321	0.230	0.322	0.173	0.032

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	1.000	0.982	-0.002	99.512	101.906	0.504	-0.002	-0.124
S.D.	0.001	0.006	0.001	0.181	0.166	0.003	0.006	0.023
% R.S.D.	0.110	0.562	36.773	0.182	0.163	0.682	313.874	18.663

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.022	0.032	0.512	0.004	0.005	101.729	0.031	192.147
S.D.	0.006	0.006	0.001	0.003	0.012	0.216	0.002	0.151
% R.S.D.	27.424	19.537	0.183	70.490	241.724	0.212	6.300	0.078

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.004	-0.039	1.027	1.013	-0.001	1.005	0.014	0.097
S.D.	0.002	0.010	0.000	0.014	0.000	0.001	0.000	0.014
% R.S.D.	47.414	26.415	0.047	1.351	40.182	0.116	2.635	14.568

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.508	0.027	0.500	0.505	0.014
S.D.	0.001	0.017	0.001	0.001	0.004
% R.S.D.	0.245	63.662	0.148	0.197	30.915

Identity 1: CCV Identity 2: Quality Control 4:21 PM February 8, 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	5.006	5.082	5.055	4.772	4.960	5.044	5.164	5.138
S.D.	0.016	0.029	0.029	0.011	0.022	0.018	0.048	0.105
% R.S.D.	0.319	0.562	0.582	0.231	0.437	0.361	0.930	2.035

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.014	5.014	5.098	5.118	5.112	5.025	5.274	9.770
S.D.	0.013	0.013	0.018	0.012	0.027	0.031	0.026	0.016
% R.S.D.	0.268	0.261	0.351	0.244	0.526	0.623	0.500	0.161

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.094	5.181	5.116	4.914	4.916	4.892	5.123	5.081
S.D.	0.010	0.026	0.038	0.483	0.171	0.023	0.025	0.092
% R.S.D.	0.203	0.501	0.741	9.834	3.471	0.480	0.479	1.817

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.042	4.985	4.935	4.980	4.966	5.039	5.114	5.114
S.D.	0.014	0.026	0.013	0.025	0.013	0.021	0.011	0.072
% R.S.D.	0.281	0.520	0.257	0.507	0.260	0.407	0.216	1.408

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.047	4.755	5.083	5.238	4.894
S.D.	0.021	0.031	0.013	0.014	0.045
% R.S.D.	0.410	0.662	0.252	0.271	0.921

Identity 1: CCB Identity 2: Quality Control 4:26 PM February 8, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, 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	-0.007	-0.018	-0.001	-0.000	0.000
S.D.	0.001	0.000	0.013	0.001	0.006	0.000	0.000	0.000
% R.S.D.	30.276	43.301	85.740	10.987	31.695	0.344	89.691	15.743

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.000	-0.000	-0.001	-0.004	0.004	-0.003	0.027	-0.112
S.D.	0.000	0.002	0.001	0.000	0.000	0.001	0.005	0.024
% R.S.D.	75.879	1027.297	96.261	11.537	1.734	25.598	18.434	21.558

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.001	0.034	0.000	-0.028	-0.006	0.000	0.003	0.012
S.D.	0.008	0.003	0.000	0.006	0.005	0.000	0.003	0.004
% R.S.D.	643.656	9.589	67.639	20.249	89.463	50.000	109.181	30.564

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.000	-0.006	0.001	-0.009	-0.001	0.000	0.002	0.056
S.D.	0.000	0.009	0.000	0.005	0.000	0.000	0.001	0.010
% R.S.D.	50.907	152.323	31.478	50.310	24.253	58.307	25.992	17.671

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	0.038	0.001	0.000	0.006
S.D.	0.000	0.014	0.001	0.000	0.014
% R.S.D.	192.025	36.911	41.780	216.542	219.571

02-08-96

File: 960307B

LABCORE Data Entry Template for Worklist# 4645

Analyst: JK Soto **Instrument:** ICP01 _____ **Book#** 50B48a

Method: LA-505-151/161 Rev/Mod D-3

Worklist Comment: ICP BY-104 (FUSION)

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-F01	SOLID		
6	SAMPLE	S95T003650	0	Z	@ICP-F01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:	AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 , U-F-01						
7	DUP	S95T003650	0	Z	@ICP-F01	SOLID		
8	SPK	S95T003650	0	Z	@ICP-F01	SOLID		
9	CCV				@ICP-QC	QC		
10	CCB				@ICP-QC	QC		
11	SAMPLE	S95T003651	0	Z	@ICP-F01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:	AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 , U-F-01						
12	DUP	S95T003651	0	Z	@ICP-F01	SOLID		
13	SPK	S95T003651	0	Z	@ICP-F01	SOLID		
~~14~~	~~PREPBLKARL~~ JK 2-7-96				@ICP-F01	SOLID		
15	SAMPLE	S95T003652	0	Z	@ICP-F01	SOLID	95000180	BY104 ROTARY
	Analytes Requested:	AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 ,						

Data Entry Comments:

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

LABCORE Data Entry Template for Worklist# 4645

S	Type	Sample#	R	A	Test	Matrix	Group#	Project
					U-F-01			
16	DUP	S95T003652	0	Z	@ICP-F01	SOLID		
17	SPK	S95T003652	0	Z	@ICP-F01	SOLID		
18	CCV				@ICP-QC	QC		
19	CCB				@ICP-QC	QC		
20	SAMPLE	S95T003653	0	Z	@ICP-F01	SOLID	95000180	BY104 ROTARY
		Analytes Requested:			AL-F-01 , BI-F-01 , CA-F-01 , CR-F-01 , FE-F-01 , LI-F-01 , MN-F-01 , NA-F-01 , NI-F-01 , P-F-01 , SI-F-01 , U-F-01			
21	DUP	S95T003653	0	Z	@ICP-F01	SOLID		
22	SPK	S95T003653	0	Z	@ICP-F01	SOLID		
23	ICSA				@ICP-QC	QC		
24	ICSAB				@ICP-QC	QC		
25	CCV				@ICP-QC	QC		
26	CCB				@ICP-QC	QC		

Final page for worklist # 4645

JK [illegible] 02-07-96
Analyst Signature **Date**

Reviewed by: Saul M. Perry 2/8/96
Analyst Signature **Date**

reprikert, direct

S95T003650_L, .25-10-2-8, DF 205
S95T003650 .25-10 41
S95T003650_D .25-10 41
S95T003650_Q .25-10 41 .25 ml sample + 2 ml SSTS + 8 ml HNO3
S95T003651_L, .25-10-2-8, DF 205
S95T003651 .25-10 41
S95T003651_D .25-10 41
S95T003651_Q .25-10 41 .25 ml sample + 2 ml SSTS + 8 ml HNO3

~~Prepbikert direct~~ 2-7-96
S95T003652_L, .25-10-2-8, DF 205
S95T003652 .25-10 41
S95T003652_D .25-10 41
S95T003652_Q .25-10 41 .25 ml sample + 2 ml ~~HNO3~~ SSTS + 8 ml HNO3
2-7-96
S95T003653_L, .25-10-2-8, DF 205
S95T003653 .25-10 41
S95T003653_D .25-10 41
S95T003653_Q .25-10 41 .25 ml sample + 2 ml SSTS + 8 ml HNO3

Data Entry Comments:

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

File: 960207B

Identity 1: ICV Identity 2: Quality Control 12:09 PM February 7, 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	4.970	4.989	4.976	4.814	4.996	5.135	5.079	5.087
S.D.	0.007	0.019	0.028	0.010	0.020	0.009	0.031	0.069
% R.S.D.	0.146	0.384	0.567	0.215	0.391	0.183	0.615	1.366

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.107	5.008	5.029	5.065	5.027	5.075	5.184	9.434
S.D.	0.007	0.011	0.014	0.008	0.014	0.017	0.006	0.005
% R.S.D.	0.133	0.217	0.277	0.151	0.276	0.330	0.111	0.054

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.108	4.983	4.991	5.454	5.157	4.888	5.105	5.043
S.D.	0.015	0.015	0.024	0.058	0.014	0.010	0.013	0.059
% R.S.D.	0.302	0.307	0.485	1.059	0.273	0.213	0.263	1.166

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.097	4.815	4.919	5.052	4.935	5.018	5.135	5.037
S.D.	0.001	0.020	0.006	0.037	0.007	0.007	0.009	0.044
% R.S.D.	0.019	0.414	0.119	0.726	0.145	0.149	0.167	0.865

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.012	4.706	5.095	5.157	4.877
S.D.	0.019	0.015	0.007	0.011	0.027
% R.S.D.	0.371	0.324	0.138	0.214	0.559

SIGNATURE BELOW REPRESENTS CHEMICAL TECHNOLOGIST/CHEMIST THAT COMPLETED/VERIFIED THE CALIBRATION/ANALYSIS ON PAGES 772 TO 800.

JK [illegible]
02-07-96
BY-104 5957003650
5957003651
5957003652
5957003653
Worklist # 4645

Identity 1: ICB Identity 2: Quality Control 12:13 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.002	0.000	-0.019	0.007	0.009	-0.005	-0.001	0.000
S.D.	0.001	0.000	0.011	0.002	0.004	0.001	0.000	0.000
% R.S.D.	33.240	114.564	59.380	24.020	44.968	28.726	6.449	360.633

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	-0.001	0.003	0.001	0.000	0.001	0.004	0.094
S.D.	0.000	0.001	0.001	0.002	0.000	0.001	0.004	0.047
% R.S.D.	66.230	92.316	20.957	154.601	23.094	143.508	112.756	49.730

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.004	0.011	0.000	-0.013	-0.005	0.000	-0.000	0.003
S.D.	0.007	0.008	0.000	0.007	0.001	0.000	0.004	0.004
% R.S.D.	157.016	76.025	739.932	56.670	13.984	173.205	2431.629	124.918

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.002	-0.010	0.001	0.006	0.000	0.001	-0.001	-0.092
S.D.	0.000	0.010	0.001	0.002	0.000	0.000	0.001	0.010
% R.S.D.	18.828	98.467	98.816	37.490	68.887	77.482	51.570	11.179

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	-0.071	-0.002	0.000	-0.036
S.D.	0.000	0.003	0.001	0.000	0.016
% R.S.D.	1.573	4.090	43.116	26.999	43.759

Identity 1: ICSA Identity 2: Quality Control 12:16 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.007	0.002	-0.028	0.009	197.761	-0.006	0.008	0.000
S.D.	0.001	0.000	0.011	0.005	0.626	0.004	0.001	0.000
% R.S.D.	13.999	6.623	37.420	51.187	0.317	63.725	12.433	221.127

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.004	0.005	0.006	98.290	101.906	0.006	0.030	0.028
S.D.	0.001	0.001	0.002	0.248	0.215	0.002	0.011	0.046
% R.S.D.	18.536	17.167	30.663	0.253	0.211	24.121	38.802	166.499

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.010	0.009	0.003	0.019	-0.036	102.183	0.004	193.484
S.D.	0.011	0.010	0.000	0.022	0.005	0.299	0.003	1.602
% R.S.D.	110.109	107.886	6.345	115.769	12.503	0.293	87.356	0.828

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.033	0.004	-0.004	0.000	0.005	0.011	-0.164
S.D.	0.001	0.007	0.000	0.013	0.001	0.001	0.000	0.008
% R.S.D.	115.445	21.911	9.816	367.820	5125.107	13.275	2.819	4.901

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.004	-0.067	-0.001	0.003	-0.052
S.D.	0.000	0.019	0.001	0.000	0.019
% R.S.D.	7.652	28.101	120.925	4.043	37.509

Identity 1: ICSAB Identity 2: Quality Control 12:19 PM February 7, 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	-0.048	0.007	197.363	0.493	0.512	0.956
S.D.	0.002	0.000	0.008	0.001	1.007	0.002	0.003	0.009
% R.S.D.	497.829	3.787	16.926	15.742	0.510	0.304	0.536	0.970

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.998	0.976	0.002	98.802	101.812	0.506	0.038	-0.040
S.D.	0.003	0.002	0.002	0.103	0.248	0.003	0.012	0.068
% R.S.D.	0.278	0.184	100.032	0.104	0.244	0.540	30.294	168.822

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.025	-0.010	0.512	0.003	-0.023	101.702	0.006	194.300
S.D.	0.009	0.011	0.002	0.010	0.006	0.297	0.008	1.757
% R.S.D.	37.575	118.719	0.476	285.969	26.262	0.292	134.896	0.904

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	-0.017	1.014	1.011	-0.001	0.996	0.011	-0.134
S.D.	0.001	0.009	0.001	0.010	0.000	0.002	0.001	0.017
% R.S.D.	81.250	54.432	0.066	0.950	32.639	0.187	7.069	12.949

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.499	-0.040	0.499	0.502	-0.073
S.D.	0.001	0.023	0.002	0.001	0.025
% R.S.D.	0.209	56.747	0.324	0.170	34.620

Identity 1: PREPBLK Identity 2: Quality Control 12:23 PM February 7, 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	7.973	0.012	0.002	0.032	0.029	-0.002	0.004	0.003
S.D.	0.031	0.000	0.015	0.006	0.008	0.001	0.000	0.000
% R.S.D.	0.385	0.826	669.881	18.903	27.519	81.151	8.741	13.735

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.002	0.011	0.004	0.094	0.065	0.012	0.016	0.819
S.D.	0.001	0.002	0.001	0.002	0.001	0.001	0.012	0.081
% R.S.D.	32.608	20.013	20.288	2.082	0.775	7.289	76.213	9.898

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.048	-0.011	0.011	-0.008	0.030	0.005	-0.006	10.961
S.D.	0.016	0.013	0.000	0.011	0.004	0.000	0.001	1.554
% R.S.D.	33.265	128.165	2.417	140.253	12.911	8.930	22.156	14.181

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	-0.017	0.001	0.043	-0.004	0.003	0.002	0.010	-2.931
S.D.	0.001	0.004	0.001	0.008	0.001	0.000	0.001	0.000
% R.S.D.	6.685	284.769	1.467	211.888	16.254	22.088	7.413	0.000

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.001	0.007	0.062	0.001	-0.066
S.D.	0.000	0.014	0.001	0.000	0.034
% R.S.D.	24.085	187.309	1.458	8.071	51.151

Identity 1: S95T003650_L Identity 2: .25-10-2-8 ml 12:26 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
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	3.717	0.611	-1.048	3.192	50.898	-0.534	-0.049	-0.009
S.D.	0.500	0.035	1.183	0.413	1.351	0.617	0.146	0.060
% R.S.D.	13.445	5.764	112.868	12.948	2.655	115.529	295.851	685.669

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.131	0.271	0.430	1.576	0.948	4.484	-2.155	5.036
S.D.	0.076	0.154	0.300	0.216	0.027	0.074	1.327	16.373
% R.S.D.	58.177	57.044	69.820	13.694	2.852	1.651	61.546	325.130

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-1.110	5.462	0.038	5.729	15.418	0.505	-0.732	568.052
S.D.	4.169	3.389	0.066	1.583	0.494	0.030	0.430	7.929
% R.S.D.	375.702	62.047	173.205	27.630	3.207	6.000	58.739	1.396

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.296	3.773	0.165	0.944	0.271	0.313	-0.421	14986.443
S.D.	0.209	2.433	0.289	2.366	0.136	0.135	0.135	307.014
% R.S.D.	70.831	64.491	174.751	250.493	50.352	43.008	32.024	2.049

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.069	-13.419	-0.236	0.092	-10.258
S.D.	0.028	1.817	0.085	0.037	7.178
% R.S.D.	41.344	13.538	35.972	40.677	69.979

Identity 1: S95T003650 Identity 2: .25-10 ml 12:30 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	3.172	0.602	-0.915	-0.072	50.228	-0.106	-0.005	-0.010
S.D.	0.062	0.005	0.132	0.150	0.077	0.163	0.035	0.013
% R.S.D.	1.947	0.884	14.413	209.222	0.153	153.576	772.955	123.941

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.027	0.430	-0.122	1.722	1.245	4.126	0.060	-5.445
S.D.	0.019	0.042	0.107	0.081	0.007	0.089	0.100	2.145
% R.S.D.	69.924	9.779	87.930	4.708	0.525	2.158	166.261	39.393

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.706	-0.853	0.017	7.516	16.165	0.119	0.288	501.857
S.D.	0.358	0.431	0.013	0.377	0.088	0.006	0.158	7.774
% R.S.D.	50.787	50.551	78.622	5.020	0.546	5.085	54.960	1.549

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.087	-0.357	0.045	0.715	0.210	0.059	-0.186	13881.164
S.D.	0.015	0.589	0.035	0.335	0.007	0.021	0.016	169.213
% R.S.D.	16.953	164.790	79.319	46.880	3.309	35.029	8.624	1.219

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.094	-0.573	-0.039	0.015	0.002
S.D.	0.022	0.858	0.015	0.005	1.024
% R.S.D.	23.000	149.814	38.363	32.292	61685.783

Identity 1: S95T003650_D Identity 2: .25-10 ml 12:33 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	12.445	0.582	0.198	0.269	45.887	0.070	0.088	0.058
S.D.	0.163	0.008	0.294	0.306	0.220	0.213	0.046	0.025
% R.S.D.	1.310	1.392	148.305	113.798	0.478	302.088	52.339	41.988

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.047	0.389	0.157	1.825	1.045	3.962	0.977	5.445
S.D.	0.019	0.075	0.091	0.152	0.006	0.047	0.352	4.127
% R.S.D.	41.000	19.179	57.894	8.321	0.574	1.182	36.071	75.794

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	2.494	-1.200	0.074	4.781	16.186	0.095	0.184	500.625
S.D.	0.876	0.710	0.018	0.177	0.189	0.006	0.071	15.577
% R.S.D.	35.111	59.205	24.566	3.712	1.166	6.383	38.791	3.112

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.117	2.021	0.262	0.136	0.163	0.140	-0.091	13178.561
S.D.	0.075	0.424	0.060	0.182	0.048	0.014	0.038	340.176
% R.S.D.	63.856	20.957	22.836	133.760	29.309	9.815	41.249	2.581

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.089	-3.486	0.218	0.019	1.551
S.D.	0.010	0.382	0.068	0.001	1.899
% R.S.D.	11.198	10.955	31.103	2.821	122.492

Identity 1: S95T003650_A Identity 2: .25sam+2sst5+8hno3 12:36 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	43.540	40.752	39.668	40.191	91.587	41.083	40.774	38.402
S.D.	0.261	0.240	0.202	0.347	0.183	0.326	0.260	0.522
% R.S.D.	0.600	0.589	0.509	0.863	0.199	0.793	0.639	1.360

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	40.933	40.547	40.729	42.732	41.452	45.326	42.265	72.352
S.D.	0.213	0.175	0.207	0.250	0.242	0.141	0.906	1.885
% R.S.D.	0.519	0.432	0.509	0.584	0.583	0.312	2.144	2.606

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	40.046	38.843	39.940	52.399	58.007	38.725	40.968	538.947
S.D.	0.503	0.110	0.262	1.542	0.299	0.164	0.496	6.373
% R.S.D.	1.255	0.283	0.657	2.943	0.515	0.423	1.210	1.183

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	40.802	37.830	33.341	41.532	39.954	40.223	40.541	13880.511
S.D.	0.121	0.119	0.076	0.877	0.191	0.228	0.222	149.657
% R.S.D.	0.297	0.313	0.227	2.112	0.479	0.568	0.548	1.078

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	40.486	35.391	41.185	40.654	37.569
S.D.	0.220	0.951	0.220	0.159	1.038
% R.S.D.	0.545	2.686	0.534	0.392	2.762

Identity 1: CCV Identity 2: Quality Control 12:41 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	4.993	4.997	4.969	4.799	4.928	5.095	5.094	4.957
S.D.	0.013	0.026	0.035	0.011	0.021	0.012	0.029	0.049
% R.S.D.	0.270	0.524	0.708	0.220	0.426	0.230	0.574	0.983

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.074	5.019	5.118	5.155	5.074	5.072	5.388	9.615
S.D.	0.004	0.005	0.018	0.009	0.020	0.008	0.023	0.021
% R.S.D.	0.074	0.101	0.360	0.184	0.400	0.149	0.431	0.218

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	5.059	5.046	5.008	5.146	4.948	4.868	5.074	4.958
S.D.	0.018	0.020	0.029	0.057	0.054	0.008	0.025	0.039
% R.S.D.	0.357	0.389	0.586	1.099	1.081	0.163	0.486	0.790

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	5.052	4.791	4.906	5.034	4.939	5.036	5.180	5.413
S.D.	0.018	0.047	0.002	0.031	0.016	0.002	0.022	0.050
% R.S.D.	0.361	0.978	0.034	0.609	0.329	0.039	0.433	0.932

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.039	4.746	5.116	5.180	4.852
S.D.	0.004	0.015	0.008	0.020	0.010
% R.S.D.	0.077	0.320	0.164	0.388	0.204

Identity 1: CCB Identity 2: Quality Control 12:45 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	-0.004	0.000	-0.015	-0.002	0.018	0.002	0.001	0.001
S.D.	0.005	0.000	0.014	0.010	0.015	0.004	0.002	0.001
% R.S.D.	132.507	103.253	90.369	567.129	87.234	256.248	132.056	98.405

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.000	-0.002	-0.000	-0.001	0.000	0.004	0.023	-0.111
S.D.	0.000	0.003	0.001	0.002	0.000	0.003	0.020	0.198
% R.S.D.	86.559	142.411	173.696	210.662	16.496	67.416	87.185	179.065

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.034	-0.028	0.001	-0.025	-0.006	0.000	0.001	0.068
S.D.	0.046	0.036	0.001	0.013	0.003	0.000	0.007	0.012
% R.S.D.	136.121	132.217	129.153	50.940	56.829	115.470	480.235	18.319

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.014	0.004	0.009	-0.001	0.002	-0.002	0.274
S.D.	0.002	0.009	0.004	0.014	0.002	0.001	0.001	0.037
% R.S.D.	126.256	63.125	99.044	161.772	136.624	46.021	71.158	13.328

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.000	-0.057	0.001	0.000	-0.052
S.D.	0.000	0.014	0.003	0.000	0.076
% R.S.D.	72.233	24.938	462.612	5.906	147.369

Identity 1: S95T003651_L Identity 2: .25-10-2-8 ml 12:48 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
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	2.847	0.699	1.292	2.049	42.196	0.182	0.037	0.116
S.D.	0.135	0.012	1.287	0.783	2.061	0.308	0.073	0.022
% R.S.D.	4.738	1.648	99.622	38.196	4.885	169.604	197.896	19.255

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.004	-0.191	0.157	1.918	1.243	3.886	-0.387	-30.297
S.D.	0.008	0.371	0.392	0.153	0.013	0.203	1.275	5.363
% R.S.D.	229.273	194.551	249.374	7.970	1.045	5.231	329.653	17.701

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	2.515	-5.748	0.098	-2.786	13.890	0.374	0.684	524.520
S.D.	1.732	1.004	0.038	0.712	1.227	0.017	0.595	3.616
% R.S.D.	68.866	17.473	38.889	25.550	8.831	4.681	87.005	0.689

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.304	-0.734	0.140	4.166	0.540	0.476	-0.436	13981.786
S.D.	0.212	2.356	0.100	2.282	0.113	0.202	0.171	106.624
% R.S.D.	69.867	320.856	71.193	54.767	20.941	42.411	39.160	0.763

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.108	-16.605	-0.341	0.035	-2.627
S.D.	0.080	8.179	0.274	0.023	3.617
% R.S.D.	74.105	49.258	80.356	66.364	137.708

Identity 1: S95T003651 Identity 2: .25-10 ml 12:52 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	3.864	0.696	0.128	0.963	43.327	0.035	0.060	0.041
S.D.	0.086	0.005	0.228	0.157	0.218	0.123	0.014	0.023
% R.S.D.	2.217	0.689	178.721	16.317	0.503	347.974	23.809	55.655

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.058	0.564	0.206	1.551	1.215	3.535	0.643	2.203
S.D.	0.002	0.031	0.090	0.050	0.003	0.047	0.358	2.513
% R.S.D.	2.898	5.500	43.407	3.233	0.214	1.321	55.781	114.090

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	2.095	0.271	0.065	2.502	15.766	0.127	0.217	489.213
S.D.	0.706	0.395	0.012	0.197	0.462	0.003	0.217	6.100
% R.S.D.	33.689	145.783	18.930	7.875	2.933	2.749	99.834	1.247

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.158	0.844	0.167	0.915	0.843	0.119	0.013	12961.574
S.D.	0.003	0.163	0.044	0.366	0.025	0.046	0.030	109.840
% R.S.D.	1.803	19.345	26.064	40.046	2.981	38.541	221.660	0.847

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.097	-0.479	0.122	0.024	0.577
S.D.	0.006	0.276	0.057	0.005	1.266
% R.S.D.	6.159	57.583	46.683	19.982	219.529

Identity 1: S95T003651_D Identity 2: .25-10 ml 12:55 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	7.539	0.786	-0.161	1.172	46.461	-0.320	-0.050	-0.029
S.D.	0.155	0.011	0.634	0.356	0.161	0.061	0.060	0.037
% R.S.D.	2.055	1.354	393.968	30.354	0.347	19.072	120.004	127.001

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.002	0.560	0.069	1.861	1.299	3.638	-0.915	-0.010
S.D.	0.020	0.215	0.110	0.091	0.008	0.131	0.551	7.781
% R.S.D.	1262.008	38.356	160.773	4.864	0.643	3.609	60.209	80111.603

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-1.210	-0.032	0.004	1.357	17.377	0.107	-0.270	532.477
S.D.	1.878	1.438	0.033	0.263	0.143	0.000	0.176	13.628
% R.S.D.	155.235	4470.556	919.946	19.367	0.823	0.000	64.921	2.559

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.044	0.115	-0.008	0.044	0.101	0.065	-0.146	10142.183
S.D.	0.079	0.636	0.122	0.211	0.069	0.005	0.033	202.009
% R.S.D.	178.016	552.622	1483.774	483.523	68.726	8.068	22.853	1.992

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.090	-2.844	-0.115	0.002	-5.007
S.D.	0.010	1.110	0.084	0.008	3.838
% R.S.D.	10.858	39.039	73.120	315.328	76.656

Identity 1: S95T003651_A Identity 2: .25sam+2sst5+8hno3 12:58 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	44.379	41.280	40.036	40.625	84.253	40.656	41.579	38.857
S.D.	0.138	0.151	0.782	0.072	0.211	0.222	0.135	0.144
% R.S.D.	0.311	0.366	1.953	0.177	0.251	0.546	0.325	0.369

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	40.351	40.484	41.568	42.856	42.290	44.465	44.215	74.996
S.D.	0.066	0.097	0.118	0.303	0.144	0.230	0.155	1.377
% R.S.D.	0.163	0.239	0.284	0.707	0.341	0.517	0.351	1.837

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	41.562	40.375	40.583	43.821	56.032	38.288	40.502	551.484
S.D.	0.242	0.166	0.158	0.207	0.816	0.085	0.464	2.140
% R.S.D.	0.583	0.410	0.389	0.472	1.456	0.222	1.145	0.388

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	40.341	37.936	32.579	40.803	40.699	40.187	40.967	13579.364
S.D.	0.241	0.242	0.077	0.665	0.118	0.015	0.161	54.678
% R.S.D.	0.598	0.639	0.237	1.630	0.290	0.038	0.393	0.403

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	40.447	36.624	41.239	40.898	38.913
S.D.	0.095	0.968	0.119	0.147	0.485
% R.S.D.	0.234	2.643	0.289	0.360	1.248

Identity 1: S95T003652_L Identity 2: .25-10-2-8 ml 1:02 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
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	5.215	0.403	-2.931	1.508	45.817	-0.178	0.005	0.009
S.D.	0.616	0.052	1.851	0.921	1.165	0.532	0.159	0.142
% R.S.D.	11.805	12.884	63.177	61.122	2.543	298.982	3023.747	1667.859

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.081	0.558	0.684	1.625	1.104	4.656	-2.709	0.847
S.D.	0.030	0.320	0.403	0.149	0.015	0.477	1.006	24.489
% R.S.D.	37.358	57.293	58.879	9.195	1.358	10.245	37.151	2892.034

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.788	-4.271	0.020	-0.761	15.487	0.323	0.025	536.307
S.D.	6.354	4.508	0.123	1.381	0.540	0.030	0.487	15.954
% R.S.D.	806.579	105.547	613.687	181.397	3.488	9.375	1961.676	2.975

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.296	1.786	0.062	-2.106	0.189	0.387	-0.520	14882.065
S.D.	0.156	0.563	0.421	1.057	0.181	0.052	0.238	485.380
% R.S.D.	52.897	31.510	680.155	50.176	95.812	13.336	45.683	3.262

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.034	-6.297	-0.446	0.078	-11.804
S.D.	0.051	4.366	0.321	0.020	13.602
% R.S.D.	150.700	69.327	71.854	25.518	115.238

Identity 1: S95T003652 Identity 2: .25-10 ml 1:05 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	5.532	0.410	0.197	0.375	46.667	-0.036	0.021	0.008
S.D.	0.038	0.002	0.170	0.173	0.159	0.000	0.020	0.007
% R.S.D.	0.685	0.563	86.350	46.074	0.340	0.475	91.489	89.134

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.000	0.378	0.035	1.197	1.008	4.723	-0.298	1.018
S.D.	0.008	0.071	0.078	0.138	0.005	0.048	0.125	1.316
% R.S.D.	3501.123	18.869	223.900	11.540	0.537	1.019	41.848	129.221

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.064	0.608	0.020	2.164	15.521	0.107	-0.034	507.884
S.D.	0.352	0.278	0.005	0.107	0.336	0.006	0.181	2.310
% R.S.D.	549.825	45.733	27.454	4.938	2.165	5.660	525.409	0.455

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.069	-0.273	0.060	-0.083	0.147	0.074	-0.104	13862.229
S.D.	0.040	0.262	0.018	0.247	0.026	0.005	0.024	85.789
% R.S.D.	58.015	96.177	30.067	297.562	17.663	7.030	23.374	0.619

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.059	-4.136	-0.061	0.024	1.556
S.D.	0.010	0.775	0.038	0.005	0.958
% R.S.D.	17.759	18.728	63.053	19.503	61.532

Identity 1: S95T003652_D Identity 2: .25-10 ml 1:07 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	5.946	0.445	0.178	0.379	49.375	-0.071	0.016	-0.008
S.D.	0.095	0.005	0.349	0.151	0.089	0.062	0.033	0.016
% R.S.D.	1.598	1.079	196.276	39.902	0.180	86.717	207.779	205.858

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.020	0.334	0.120	1.159	1.141	5.049	-0.049	0.738
S.D.	0.006	0.032	0.079	0.092	0.007	0.127	0.612	2.693
% R.S.D.	30.133	9.542	65.585	7.949	0.573	2.511	1253.790	364.692

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.183	0.011	0.024	1.228	14.810	0.091	0.268	514.688
S.D.	0.728	0.568	0.014	0.297	0.211	0.007	0.023	4.744
% R.S.D.	397.725	5281.874	58.805	24.158	1.423	7.698	8.528	0.922

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.117	0.822	0.068	-0.193	0.643	0.074	-0.166	13491.195
S.D.	0.009	0.228	0.054	0.170	0.016	0.014	0.048	103.612
% R.S.D.	7.302	27.692	79.639	88.071	2.531	18.366	28.857	0.768

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.069	-1.839	-0.100	-0.008	-3.824
S.D.	0.000	0.375	0.031	0.005	1.375
% R.S.D.	0.455	20.395	31.254	61.405	35.953

Identity 1: S95T003652_A Identity 2: .25sam+2sst5+8hno3 1:10 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	45.667	40.623	39.919	39.938	87.642	40.479	41.217	38.655
S.D.	0.121	0.091	0.330	0.116	0.151	0.107	0.105	0.277
% R.S.D.	0.264	0.225	0.827	0.290	0.173	0.263	0.254	0.717

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	39.981	40.073	40.850	41.594	41.606	45.142	43.556	74.715
S.D.	0.064	0.237	0.079	0.133	0.115	0.222	0.328	0.800
% R.S.D.	0.160	0.591	0.193	0.319	0.276	0.492	0.753	1.071

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	40.760	40.055	40.189	42.826	54.994	38.003	40.646	560.137
S.D.	0.502	0.313	0.120	0.802	0.365	0.058	0.378	3.872
% R.S.D.	1.233	0.783	0.298	1.874	0.664	0.152	0.930	0.691

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	40.059	38.482	32.458	41.154	39.635	39.859	40.538	14168.544
S.D.	0.242	0.664	0.163	0.188	0.063	0.083	0.103	82.900
% R.S.D.	0.605	1.726	0.504	0.456	0.158	0.208	0.255	0.585

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	40.129	36.396	40.934	40.550	37.731
S.D.	0.064	0.377	0.098	0.049	0.660
% R.S.D.	0.160	1.035	0.239	0.121	1.749

Identity 1: CCV Identity 2: Quality Control 1:14 PM February 7, 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	4.912	4.876	4.900	4.756	4.817	5.075	4.967	4.812
S.D.	0.044	0.077	0.055	0.029	0.056	0.009	0.101	0.183
% R.S.D.	0.895	1.569	1.132	0.609	1.171	0.177	2.025	3.812

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	5.077	4.983	5.039	5.099	4.972	5.042	5.314	9.427
S.D.	0.013	0.021	0.048	0.018	0.065	0.010	0.078	0.046
% R.S.D.	0.247	0.421	0.955	0.349	1.315	0.200	1.459	0.488

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	4.892	4.911	4.873	5.171	4.951	4.838	5.012	4.813
S.D.	0.055	0.068	0.088	0.082	0.085	0.012	0.049	0.160
% R.S.D.	1.116	1.388	1.807	1.580	1.715	0.243	0.970	3.321

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	4.987	4.668	4.896	5.033	4.849	4.985	5.129	5.291
S.D.	0.027	0.090	0.017	0.004	0.046	0.014	0.065	0.124
% R.S.D.	0.535	1.934	0.339	0.075	0.939	0.285	1.277	2.341

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	5.010	4.645	5.061	5.094	4.680
S.D.	0.012	0.066	0.017	0.054	0.038
% R.S.D.	0.241	1.427	0.330	1.059	0.814

Identity 1: CCB Identity 2: Quality Control 1:18 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 1.00
On-Peak Integrations : 3 Off-Peak Integrations : 1

WHC-SD-WM-DP-164, REV. 1

	Zr (ppm)	Sr (ppm)	Bi (ppm)	Si (ppm)	Al (ppm)	Co (ppm)	Cu (ppm)	Li (ppm)
Mean	0.002	0.000	-0.021	0.009	0.008	-0.004	0.000	-0.000
S.D.	0.001	0.000	0.009	0.001	0.004	0.002	0.000	0.000
% R.S.D.	78.065	396.863	40.592	15.876	49.352	34.616	123.621	1950.680

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.001	0.003	0.005	-0.001	0.000	0.000	0.005	0.073
S.D.	0.001	0.002	0.001	0.001	0.000	0.001	0.009	0.080
% R.S.D.	79.381	70.620	13.751	112.690	0.000	987.414	195.313	108.511

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.003	0.015	0.000	-0.003	-0.003	0.000	-0.001	0.047
S.D.	0.015	0.014	0.000	0.014	0.005	0.000	0.002	0.003
% R.S.D.	545.713	97.313	215.693	391.096	156.844	150.000	242.087	6.364

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.001	0.025	0.002	0.009	0.001	0.002	0.000	0.204
S.D.	0.001	0.012	0.001	0.008	0.000	0.001	0.001	0.021
% R.S.D.	107.152	49.420	53.527	81.236	32.123	26.881	280.829	10.112

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.000	-0.037	-0.002	0.000	-0.100
S.D.	0.000	0.015	0.001	0.000	0.029
% R.S.D.	399.283	40.800	36.160	36.029	29.330

Identity 1: S95T003653_L Identity 2: .25-10-2-8 ml 1:22 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 205.00
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	14.342	0.887	0.691	2.360	48.711	-0.889	0.253	0.150
S.D.	0.190	0.007	0.872	0.579	1.357	0.307	0.060	0.039
% R.S.D.	1.323	0.750	126.199	24.524	2.786	34.591	23.821	26.200

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	-0.213	0.026	0.513	1.895	2.239	8.338	-0.382	-0.237
S.D.	0.036	0.737	0.003	0.291	0.015	0.641	1.315	5.601
% R.S.D.	17.018	2801.371	0.515	15.369	0.670	7.692	343.854	2362.733

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	6.115	4.974	0.173	-4.680	15.163	0.384	-0.571	562.693
S.D.	1.799	1.308	0.039	0.612	1.375	0.000	0.466	2.237
% R.S.D.	29.421	26.288	22.845	13.077	9.068	0.000	81.609	0.398

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.189	5.309	0.576	0.703	0.235	0.253	-0.665	16006.282
S.D.	0.065	1.188	0.048	1.087	0.047	0.137	0.250	93.167
% R.S.D.	34.436	22.376	8.290	154.546	20.100	53.978	37.557	0.582

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	-0.019	-8.194	-0.402	0.026	-5.358
S.D.	0.001	2.831	0.210	0.022	3.568
% R.S.D.	3.432	34.547	52.255	85.854	66.600

Identity 1: S95T003653 Identity 2: .25-10 ml 1:25 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	14.768	0.839	0.045	0.888	48.250	0.036	0.049	0.031
S.D.	0.027	0.001	0.390	0.114	0.309	0.062	0.011	0.003
% R.S.D.	0.186	0.159	871.612	12.827	0.640	172.618	22.640	8.358

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.042	0.493	-0.085	2.054	1.849	8.891	0.435	-0.045
S.D.	0.020	0.066	0.029	0.022	0.005	0.022	0.218	1.437
% R.S.D.	47.657	13.318	34.197	1.089	0.281	0.249	50.117	3178.026

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	0.776	-0.432	0.052	1.556	16.782	0.141	0.238	534.270
S.D.	0.405	0.333	0.009	0.609	0.268	0.009	0.120	2.575
% R.S.D.	52.243	77.136	16.536	39.132	1.595	6.547	50.436	0.482

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.056	-0.434	0.152	0.132	0.335	0.095	-0.082	15107.725
S.D.	0.003	0.052	0.029	0.337	0.018	0.026	0.018	47.107
% R.S.D.	5.064	11.957	19.277	255.085	5.290	27.243	21.724	0.312

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.107	-2.557	0.078	0.013	0.853
S.D.	0.006	1.070	0.019	0.009	0.890
% R.S.D.	5.572	41.836	23.824	71.991	104.376

Identity 1: S95T003653_D Identity 2: .25-10 ml 1:28 PM February 7, 1996
Task name : OPTIMA
Sample Weight : 1.0000 Solution Volume : 41.00
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	3.222	0.810	0.143	-0.036	41.020	0.036	0.002	-0.005
S.D.	0.021	0.003	0.185	0.069	0.071	0.062	0.004	0.007
% R.S.D.	0.640	0.329	129.557	191.142	0.172	172.187	159.224	130.468

	Zn (ppm)	Ni (ppm)	La (ppm)	Fe (ppm)	Ca (ppm)	Cr (ppm)	Nd (ppm)	U (ppm)
Mean	0.035	0.516	-0.137	1.857	1.279	7.392	0.419	-1.459
S.D.	0.013	0.064	0.059	0.126	0.004	0.054	0.204	0.585
% R.S.D.	37.619	12.436	43.256	6.761	0.310	0.734	48.715	40.087

	Ce (ppm)	Sm (ppm)	Ba (ppm)	P (ppm)	S (ppm)	Mg (ppm)	As (ppm)	Na (ppm)
Mean	-0.016	0.411	0.033	0.820	17.420	0.109	-0.194	533.467
S.D.	0.160	0.214	0.001	0.396	0.085	0.003	0.086	2.490
% R.S.D.	1033.260	52.143	3.807	48.266	0.486	3.208	44.306	0.467

	Mo (ppm)	Se (ppm)	Ag (ppm)	Pb (ppm)	Ti (ppm)	Cd (ppm)	B (ppm)	K (ppm)
Mean	0.112	-0.541	0.010	0.194	0.044	0.053	-0.060	12315.499
S.D.	0.010	0.347	0.023	0.142	0.008	0.024	0.031	19.201
% R.S.D.	8.801	64.098	231.965	72.860	17.942	44.555	52.123	0.156

	Mn (ppm)	Sb (ppm)	V (ppm)	Be (ppm)	Tl (ppm)
Mean	0.097	-0.309	-0.074	0.015	-1.558
S.D.	0.006	0.683	0.006	0.004	0.371
% R.S.D.	6.206	221.136	7.791	29.224	23.829