

June 3, 2011

Analytical Report for Service Request No: K1103574

Melissa Kleven
Exponent
15375 Southeast 30th Place, Suite 250
Bellevue, WA 98007

RE: Heglur Kronquist/0907194.000.0901

Dear Melissa:

Enclosed are the results of the samples submitted to our laboratory on April 26, 2011. For your reference, these analyses have been assigned our service request number K1103574.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current NELAP standards, where applicable, and except as noted in the laboratory case narrative provided. For a specific list of NELAP-accredited analytes, refer to the certifications section at www.caslab.com. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. (CAS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report.

Please call if you have any questions. My extension is 3281. You may also contact me via Email at MShelton@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc.

Mike Shelton
Project Chemist

MS/jw

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Acronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Inorganic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.
- H In accordance with the 2007 EPA Methods Update Rule published in the Federal Register, the holding time for this test is immediately following sample collection. The samples were analyzed as soon as possible after receipt by the laboratory.

Metals Data Qualifiers

- # The control limit criteria is not applicable. See case narrative.
- J The result is an estimated value that was detected outside the quantitation range.
- E The percent difference for the serial dilution was greater than 10%, indicating a possible matrix interference in the sample.
- M The duplicate injection precision was not met.
- N The Matrix Spike sample recovery is not within control limits. See case narrative.
- S The reported value was determined by the Method of Standard Additions (MSA).
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- W The post-digestion spike for furnace AA analysis is out of control limits, while sample absorbance is less than 50% of spike absorbance.
- i The MRL/MDL or LOQ/LOD is elevated due to a matrix interference.
- X See case narrative.
- + The correlation coefficient for the MSA is less than 0.995.
- Q See case narrative. One or more quality control criteria was outside the limits.

Organic Data Qualifiers

- * The result is an outlier. See case narrative.
- # The control limit criteria is not applicable. See case narrative.
- A A tentatively identified compound, a suspected aldol-condensation product.
- B The analyte was found in the associated method blank at a level that is significant relative to the sample result as defined by the DOD or NELAC standards.
- C The analyte was qualitatively confirmed using GC/MS techniques, pattern recognition, or by comparing to historical data.
- D The reported result is from a dilution.
- E The result is an estimate amount because the value exceeded the instrument calibration range.
- J The result is an estimated value that was detected outside the quantitation range.
- N The result is presumptive. The analyte was tentatively identified, but a confirmation analysis was not performed.
- P The GC or HPLC confirmation criteria was exceeded. The relative percent difference is greater than 40% between the two analytical results.
- U The analyte was analyzed for, but was not detected ("Non-detect") at or above the MRL/MDL.
DOD-QSM 4.1 definition: Analyte was not detected and is reported as less than the LOD or as defined by the project. The detection limit is adjusted for dilution.
- i The MRL/MDL or LOQ/LOD is elevated due to a chromatographic interference.
- X See case narrative.
- Q See case narrative. One or more quality control criteria was outside the limits.

Additional Petroleum Hydrocarbon Specific Qualifiers

- F The chromatographic fingerprint of the sample matches the elution pattern of the calibration standard.
- L The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of lighter molecular weight constituents than the calibration standard.
- H The chromatographic fingerprint of the sample resembles a petroleum product, but the elution pattern indicates the presence of a greater amount of heavier molecular weight constituents than the calibration standard.
- O The chromatographic fingerprint of the sample resembles an oil, but does not match the calibration standard.
- Y The chromatographic fingerprint of the sample resembles a petroleum product eluting in approximately the correct carbon range, but the elution pattern does not match the calibration standard.
- Z The chromatographic fingerprint does not resemble a petroleum product.

Columbia Analytical Services, Inc.
Kelso, WA
State Certifications, Accreditations, and Licenses

Agency	Number
Alaska DEC UST	UST-040
Arizona DHS	AZ0339
Arkansas - DEQ	88-0637
California DHS	2286
Florida DOH	E87412
Hawaii DOH	-
Idaho DHW	-
Indiana DOH	C-WA-01
Louisiana DEQ	3016
Louisiana DHH	LA050010
Maine DHS	WA0035
Michigan DEQ	9949
Minnesota DOH	053-999-368
Montana DPHHS	CERT0047
Nevada DEP	WA35
New Jersey DEP	WA005
New Mexico ED	-
North Carolina DWQ	605
Oklahoma DEQ	9801
Oregon - DEQ	WA100010
South Carolina DHEC	61002
Washington DOE	C1203
Wisconsin DNR	998386840
Wyoming (EPA Region 8)	-



Case Narrative

COLUMBIA ANALYTICAL SERVICES, INC.

Client: Exponent
Project: Heglar Kronquist
Sample Matrix: Water

Service Request No.: K1103574
Date Received: 4/26-27/2011

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of Columbia Analytical Services, Inc. (CAS). This report contains analytical results for samples designated for Tier III deliverables including summary forms for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Nine water samples were received for analysis at Columbia Analytical Services on 4/26-27/2011. The samples were received in good condition and consistent with the accompanying chain of custody form. The samples were stored in a refrigerator at 4°C upon receipt at the laboratory.

General Chemistry Parameters

Total Dissolved Solids by SM 2540 C:

Sample confirmation weights did not confirm within 0.0005g with the second weight. The samples in question confirmed within 0.001g. For sample results higher than 100 mg/L this problem would not represent a significant potential source of error. The sample was past its recommended holding time so re-analysis was not performed. Quality assurance data (LCS, Duplicates) were within acceptance criteria.

Dissolved Nitrite as Nitrogen by SM 4500-NO2 B:

Samples MW-6 and MW-7 were analyzed past the recommended holding time by method EPA353.2. Nitrate analyzed by method 300.0 (analyzed within the required holding time) confirmed the results reported by method EPA 353.2. The data was flagged to indicate the holding time violation.

Total Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Calcium, Potassium and Sodium for sample MW-1 were not applicable. The analyzed concentration in the sample was significantly higher than the added spike concentration, preventing accurate evaluation of the spike recovery.

No other anomalies associated with the analysis of these samples were observed.

Approved by Mike Pella Date 6/6/11

Chain of Custody

PROJECT NUMBER	PROJECT MANAGER	COMPANY ADDRESS	CITY/STATE/ZIP	E-MAIL ADDRESS	PHONE #	FAX #	SAMPLER'S SIGNATURE	SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS		REMARKS
													625	624	
0907194.660.0901	Melissa Kleven	15375 SE 30th Pl #250	Belleuve, WA 98007	mkleven@exponent.com	425-519-8794	425-519-8799	[Signature]	MW-3	4/26/11	1237	6	L	5		run
								MW-4	4/26/11	1008	7	L	5		NB3
								EB-042511	4/25/11	2006	8	L	5		and
								EB-042611	4/24/11	1255	9	L	5		NB2

REPORT REQUIREMENTS

- I. Routine Report: Method Blank, Surrogate, as required
- II. Report Dup., MS, MSD as required
- III. Data Validation Report (includes all raw data)
- IV. CLP Deliverable Report
- V. EDD

INVOICE INFORMATION

P.O. # _____
 Bill To: same
as
above

TURNAROUND REQUIREMENTS

- 24 hr. _____ 48 hr. _____
- 5 Day _____
- Standard (10-15 working days)
- Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg
 Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Sample Shipment contains USDA regulated soil samples (check box if applicable)

- 500 mL w/ H2SO4, 1L unpreserved, and 500 mL w/ HNO3 are field-filtered

RELINQUISHED BY:

[Signature]
 Per Wheeler
 Printed Name
 Date/Time: 4-26-11/1705
 Firm: Exponent

RECEIVED BY:

[Signature]
 Printed Name
 Date/Time: 4/27/11
 Firm: AS

RELINQUISHED BY:

[Signature]
 Printed Name
 Date/Time: 10/10
 Firm: _____

RECEIVED BY:

[Signature]
 Printed Name
 Date/Time: _____
 Firm: _____

CHAIN OF CUSTODY

PROJECT NAME: Hejar - Kronquist
 PROJECT NUMBER: 109057194.000-8901
 PROJECT MANAGER: Melissa Kieven
 COMPANY/ADDRESS: 15375 SE 30th Pl # 250
 CITY/STATE/ZIP: Bellevue, WA 98007
 EMAIL ADDRESS: mkieven@exponent.com
 PHONE: (206) 519-8774 FAX: (206) 519-8799
 SAMPLER'S SIGNATURE: [Signature]

SAMPLE ID.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
MW-1	4/25/11	1745	L	S	<input type="checkbox"/> Semivolatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/>	run
MW-2		1419	L	S	<input type="checkbox"/> Volatile Organics 624 <input type="checkbox"/> 8260 <input type="checkbox"/> 8021 <input type="checkbox"/> BTEX <input type="checkbox"/>	NO3 and
MW-5		1233	L	S	<input type="checkbox"/> Hydrocarbons (*see below) Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Oil <input type="checkbox"/>	NO2
MW-6		1036	L	S	<input type="checkbox"/> Fuel Fingerprint (FIQ) <input type="checkbox"/> NW-HCID Screen	within
MW-7		909	L	S	<input type="checkbox"/> Oil & Grease/TRPH 1664 HEM <input type="checkbox"/> 1664 SGT <input type="checkbox"/>	48-hr
					<input type="checkbox"/> PCB's Aroclors <input type="checkbox"/> Congeners <input type="checkbox"/>	hold
					<input type="checkbox"/> Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A <input type="checkbox"/>	time
					<input type="checkbox"/> Chlorophenolics - 8151M Tri <input type="checkbox"/> Tetra <input type="checkbox"/> PCP <input type="checkbox"/>	
					<input type="checkbox"/> PAHS 8310 <input type="checkbox"/> SIM <input type="checkbox"/>	
					<input type="checkbox"/> Metals, Total or Dissolved (See list below)	
					<input type="checkbox"/> Cyanide <input type="checkbox"/> Hex-Chrom <input type="checkbox"/>	
					<input type="checkbox"/> pH, Cond, Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	
					<input type="checkbox"/> NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	
					<input type="checkbox"/> TOX 9020 <input type="checkbox"/> AOX 1650 <input type="checkbox"/> 506 <input type="checkbox"/>	
					<input type="checkbox"/> bicarbonate alkalinity	

REPORT REQUIREMENTS
 I. Routine Report: Method Blank, Surrogate, as required
 II. Report Dup.: MS, MSD as required
 III. Data Validation Report (includes all raw data)
 IV. CLP Deliverable Report
 V. EDD

INVOICE INFORMATION
 P.O. #: same
 Bill To: AS
above

TURNAROUND REQUIREMENTS
 24 hr. _____ 48 hr. _____
 Standard (10-15 working days)
 Provide FAX Results _____

RELINQUISHED BY: Signature: [Signature] Date/Time: 4-25-11/188
 Printed Name: Keri Whetter Firm: Exponent

RECEIVED BY: Signature: [Signature] Date/Time: 4/26/11 0920
 Printed Name: STOPLINS Firm: _____

RELINQUISHED BY: Signature: _____ Date/Time: _____
 Printed Name: _____ Firm: _____

RECEIVED BY: Signature: _____ Date/Time: _____
 Printed Name: _____ Firm: _____

Sample Shipment contains USDA regulated soil samples (check box if applicable)

SPECIAL INSTRUCTIONS/COMMENTS:
- 500 mL w/ H2SO4, 1L unpressed, and 500 mL w/ HNO3 are field-filtered

**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC Mike

Client / Project: Heglar Kronquist Service Request K11 3574
 Received: 4/26/11 Opened: 4/26/11 By: SA Unloaded: 4/26/11 By: SA

1. Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
 2. Samples were received in: (circle) Cooler Box Envelope Other NA
 3. Were custody seals on coolers? NA Y N If yes, how many and where? one, front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID	NA	Tracking Number	NA	Filed
<u>4.0</u>	<u>5.7</u>	<u>301</u>			<u>8484 6000 9171</u>		

7. Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other
 8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
 9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
 10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
 11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
 12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
 13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
 14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
 15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Out of	Head-	Broke	pH	Reagent	Volume	Reagent Lot	Initials	Time
	Bottle Type	Temp	space				added	Number		

SHORT HOLD TIME

Notes, Discrepancies, & Resolutions: _____

**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC MS

Client / Project: EXponent Service Request K11 035474
 Received: 4-27-11 Opened: 4-27-11 By: BT Unloaded: 4-27-11 By: BT

Samples were received via? Mail Fed Ex UPS DHL PDX Courier Hand Delivered
 Samples were received in: (circle) Cooler Box Envelope Other NA
 Were custody seals on coolers? NA Y N If yes, how many and where? 1 front
 If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID <input checked="" type="checkbox"/> NA	Tracking Number	NA	Filed
<u>0.6</u>	<u>1.0</u>	<u>295</u>				<input checked="" type="checkbox"/> X
<u>3.4</u>	<u>1.0</u>	<u>304</u>				<input checked="" type="checkbox"/> X

Packing material used. Inserts Baggies Bubble Wrap Gel Packs Wet Ice Sleeves Other

Were custody papers properly filled out (ink, signed, etc.)? NA Y N

Did all bottles arrive in good condition (unbroken)? Indicate in the table below. NA Y N

- 0. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
- 1. Did all sample labels and tags agree with custody papers? Indicate major discrepancies in the table on page 2. NA Y N
- 2. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
- 3. Were the pH-preserved bottles (see SMO GEN SOP) received at the appropriate pH? Indicate in the table below. NA Y N
- 4. Were VOA vials received without headspace? Indicate in the table below. NA Y N
- 5. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count	Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: _____

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25-26/2011
Date Received: 4/26-27/2011

Dissolved Chloride

Prep Method: NONE
 Analysis Method: 300.0
 Test Notes:

Units: mg/L (ppm)
 Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-1	K1103574-001	10	2	50	4/26/2011	425	
MW-2	K1103574-002	2.0	0.3	10	4/26/2011	83.5	
MW-5	K1103574-003	1.0	0.15	5	4/26/2011	18.9	
MW-6	K1103574-004	1.0	0.15	5	4/26/2011	19.3	
MW-7	K1103574-005	2.0	0.3	10	4/26/2011	17.7	
MW-3	K1103574-006	40	6	200	4/28/2011	741	
MW-4	K1103574-007	40	6	200	4/28/2011	943	
EB-042511	K1103574-008	0.40	0.06	2	4/27/2011	0.34	J
EB-042611	K1103574-009	0.40	0.06	2	4/27/2011	0.33	J
Method Blank	K1103574-MB	0.20	0.03	1	4/26/2011	ND	
Method Blank	K1103574-MB	0.20	0.03	1	4/27/2011	ND	
Method Blank	K1103574-MB	0.20	0.03	1	4/28/2011	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Duplicate Summary
Inorganic Parameters

Sample Name: Batch QC
Lab Code: K1103574-010DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Dissolved Chloride	NONE	300.0	2.0	60.5	61.0	60.8	< 1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Matrix Spike/Duplicate Matrix Spike Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
Lab Code: K1103574-010MS, K1103574-010DMS Basis: NA
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Percent Recovery										Result Notes
				Spike Level		Sample Result	Spike Result		CAS		Relative Percent Difference			
				MS	DMS		MS	DMS	MS	DMS		Limits		
Dissolved Chloride	NONE	300.0	2.0	20.0	20.0	60.5	81.9	82.6	107	110	80-120	<1		

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/28/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Chloride	NONE	300.0	5.00	4.59	92	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Chloride	NONE	300.0	5.00	4.65	93	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/27/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Chloride	NONE	300.0	5.00	4.66	93	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/26/2011

Dissolved Chloride
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	4.73	95
CCV 2 Result	5.00	4.68	94
CCV 3 Result	5.00	4.68	94
CCV 4 Result	5.00	4.71	94
CCV 5 Result	5.00	4.68	94
CCV 6 Result	5.00	5.13	103

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.20	ND
CCB 2 Result	0.20	ND
CCB 3 Result	0.20	ND
CCB 4 Result	0.20	ND
CCB 5 Result	0.20	ND
CCB 6 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/27/2011

Dissolved Chloride
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	4.71	94
CCV 2 Result	5.00	4.75	95
CCV 3 Result	5.00	4.76	95
CCV 4 Result	5.00	4.75	95
CCV 5 Result	5.00	4.81	96

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.20	ND
CCB 2 Result	0.20	ND
CCB 3 Result	0.20	ND
CCB 4 Result	0.20	ND
CCB 5 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/28/2011

Dissolved Chloride
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	4.74	95
CCV 2 Result	5.00	4.55	91
CCV 3 Result	5.00	4.68	94
CCV 4 Result	5.00	4.72	94
CCV 5 Result	5.00	4.69	94
CCV 6 Result	5.00	4.67	93

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.20	ND
CCB 2 Result	0.20	ND
CCB 3 Result	0.20	ND
CCB 4 Result	0.20	ND
CCB 5 Result	0.20	ND
CCB 6 Result	0.20	0.05 J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25-26/2011
Date Received: 4/26-27/2011

Dissolved Fluoride

Prep Method: NONE
 Analysis Method: 300.0
 Test Notes:

Units: mg/L (ppm)
 Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-1	K1103574-001	0.40	0.006	2	4/26/2011	0.29	
MW-2	K1103574-002	0.40	0.006	2	4/26/2011	0.26	
MW-5	K1103574-003	0.40	0.006	2	4/26/2011	0.49	
MW-6	K1103574-004	0.40	0.006	2	4/26/2011	0.33	
MW-7	K1103574-005	0.40	0.006	2	4/26/2011	0.33	
MW-3	K1103574-006	0.40	0.006	2	4/27/2011	0.18	
MW-4	K1103574-007	0.40	0.006	2	4/27/2011	0.17	
EB-042511	K1103574-008	0.40	0.006	2	4/27/2011	ND	
EB-042611	K1103574-009	0.40	0.006	2	4/27/2011	ND	
Method Blank	K1103574-MB	0.20	0.003	1	4/26/2011	ND	
Method Blank	K1103574-MB	0.20	0.003	1	4/27/2011	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Duplicate Summary
 Inorganic Parameters

Sample Name: Batch QC
Lab Code: K1103588-001DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Dissolved Fluoride	NONE	300.0	0.40	0.21 J	0.21 J	0.21	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Matrix Spike/Duplicate Matrix Spike Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
Lab Code: K1103588-001MS, K1103588-001DMS Basis: NA
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Percent Recovery										Result Notes
				Spike Level		Sample Result	Spike Result		CAS		Relative Percent Difference			
				MS	DMS		MS	DMS	MS	DMS		Limits		
Dissolved Fluoride	NONE	300.0	0.40	4.00	4.00	0.21	4.35	4.44	104	106	80-120	2		

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Laboratory Control Sample Summary
Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Fluoride	NONE	300.0	11.0	11.0	100	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/27/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Fluoride	NONE	300.0	11.0	11.0	100	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/26/2011

Dissolved Fluoride
EPA Method 330.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	5.20	104
CCV 2 Result	5.00	5.21	104
CCV 3 Result	5.00	5.22	104
CCV 4 Result	5.00	5.23	105
CCV 5 Result	5.00	5.21	104
CCV 6 Result	5.00	5.09	102

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.20	ND
CCB 2 Result	0.20	ND
CCB 3 Result	0.20	ND
CCB 4 Result	0.20	ND
CCB 5 Result	0.20	ND
CCB 6 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/27/2011

Dissolved Fluoride
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	5.17	103
CCV 2 Result	5.00	5.20	104
CCV 3 Result	5.00	5.22	104
CCV 4 Result	5.00	5.27	105
CCV 5 Result	5.00	5.20	104

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.20	ND
CCB 2 Result	0.20	ND
CCB 3 Result	0.20	ND
CCB 4 Result	0.20	ND
CCB 5 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/2011
Date Received: 4/26/2011

Dissolved Nitrate as Nitrogen

Prep Method: Calculation Units: mg/L (ppm)
 Analysis Method: 353.2/SM 4500-NO2 B Basis: NA
 Test Notes:

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-1	K1103574-001	0.050	0.009	1	4/27,5/6/2011	31.5	
MW-2	K1103574-002	0.050	0.009	1	4/27,5/6/2011	8.13	
MW-5	K1103574-003	0.050	0.009	1	4/27,5/6/2011	13.2	
MW-6	K1103574-004	0.050	0.009	1	4/27,5/6/2011	7.62	
MW-7	K1103574-005	0.050	0.009	1	4/27,5/6/2011	7.65	
MW-3	K1103574-006	0.050	0.009	1	4/27,5/6/2011	31.1	
MW-4	K1103574-007	0.050	0.009	1	4/27,5/6/2011	76.3	
EB-042511	K1103574-008	0.050	0.009	1	4/27,5/6/2011	0.022	J
EB-042611	K1103574-009	0.050	0.009	1	4/27,5/6/2011	0.061	J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25-26/2011
Date Received: 4/26-27/2011

Dissolved Nitrate+Nitrite as Nitrogen

Prep Method: NONE
 Analysis Method: 353.2
 Test Notes:

Units: mg/L (ppm)
 Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-1	K1103574-001	0.50	0.09	10	5/6/2011 10:02	31.5	
MW-2	K1103574-002	0.50	0.09	10	5/6/2011 10:02	8.13	
MW-5	K1103574-003	0.50	0.09	10	5/6/2011 10:02	13.2	
MW-6	K1103574-004	0.50	0.09	10	5/6/2011 10:02	7.62	
MW-7	K1103574-005	0.50	0.09	10	5/6/2011 10:02	7.65	
MW-3	K1103574-006	1.3	0.2	25	5/6/2011 10:02	31.1	
MW-4	K1103574-007	1.3	0.2	25	5/6/2011 10:02	76.3	
EB-042511	K1103574-008	0.050	0.009	1	5/6/2011 10:02	0.024	J
EB-042611	K1103574-009	0.050	0.009	1	5/6/2011 10:02	0.063	
Method Blank	K1103574-MB	0.050	0.009	1	5/6/2011 10:02	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/2011
Date Received: 4/26/2011
Date Extracted: NA
Date Analyzed: 5/6/2011

Duplicate Summary
Inorganic Parameters

Sample Name: MW-1
Lab Code: K1103574-001DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Dissolved Nitrate+Nitrite as Nitrogen	NONE	353.2	0.050	31.5	31.5	31.5	< 1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar Kronquist/0907194.000.0901
 Sample Matrix: Water

Service Request: K1103574
 Date Collected: 4/25/2011
 Date Received: 4/26/2011
 Date Extracted: NA
 Date Analyzed: 5/6/2011

Matrix Spike/Duplicate Matrix Spike Summary
 Inorganic Parameters

Sample Name: MW-1 Units: mg/L (ppm)
 Lab Code: K1103574-001MS, K1103574-001DMS Basis: NA
 Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Percent Recovery				Result Notes
				MS	DMS		MS	DMS	CAS		Relative		
							MS	DMS	Acceptance	Percent Difference			
Dissolved Nitrate+Nitrite as Nitrogen	NONE	353.2	0.50	50.0	50.0	31.5	80.7	80.0	98	97	86-117	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/6/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Nitrate+Nitrite as Nitrogen	NONE	353.2	17.7	16.7	94	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 5/6/2011

Dissolved Nitrate+Nitrite as Nitrogen
EPA Method 353.2
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	2.00	1.97	98
CCV 2 Result	2.00	1.97	98
CCV 3 Result	2.00	1.97	98
CCV 4 Result	2.00	1.95	97
CCV 5 Result	2.00	1.95	97
CCV 6 Result	2.00	1.94	97

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.050	ND
CCB 2 Result	0.050	ND
CCB 3 Result	0.050	0.015 J
CCB 4 Result	0.050	ND
CCB 5 Result	0.050	0.014 J
CCB 6 Result	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25-26/2011
Date Received: 4/26-27/2011

Dissolved Nitrite as Nitrogen

Prep Method: NONE Units: mg/L (ppm)
 Analysis Method: SM 4500-NO2 B Basis: NA
 Test Notes:

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-1	K1103574-001	0.010	0.002	1	4/27/2011 12:30	0.002	J
MW-2	K1103574-002	0.010	0.002	1	4/27/2011 12:30	0.007	J
MW-5	K1103574-003	0.010	0.002	1	4/27/2011 12:30	0.002	J
MW-6	K1103574-004	0.010	0.002	1	4/27/2011 12:30	0.002	J*
MW-7	K1103574-005	0.010	0.002	1	4/27/2011 12:30	0.002	J*
MW-3	K1103574-006	0.010	0.002	1	4/27/2011 12:30	0.002	J
MW-4	K1103574-007	0.010	0.002	1	4/27/2011 12:30	0.007	J
EB-042511	K1103574-008	0.010	0.002	1	4/27/2011 12:30	0.002	J
EB-042611	K1103574-009	0.010	0.002	1	4/27/2011 12:30	0.002	J
Method Blank	K1103574-MB	0.010	0.002	1	4/27/2011 12:30	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/2011
Date Received: 4/26/2011
Date Extracted: NA
Date Analyzed: 4/27/2011

Duplicate Summary
 Inorganic Parameters

Sample Name: MW-1
Lab Code: K1103574-001DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Dissolved Nitrite as Nitrogen	NONE	SM 4500-NO2 B	0.050	ND	ND	ND	-	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/2011
Date Received: 4/26/2011
Date Extracted: NA
Date Analyzed: 4/27/2011

Matrix Spike/Duplicate Matrix Spike Summary
 Inorganic Parameters

Sample Name: MW-1 Units: mg/L (ppm)
Lab Code: K1103574-001MS, K1103574-001DMS Basis: NA
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Percent Recovery								Relative Percent Difference	Result Notes
				Spike Level		Sample Result	Spike Result		CAS Acceptance		Limits		
				MS	DMS		MS	DMS	MS	DMS			
Dissolved Nitrite as Nitrogen	NONE	SM 4500-NO2 B	0.050	0.100	0.100	ND	0.099	0.100	99	100	90-110	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 5/6/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Nitrite as Nitrogen	NONE	SM 4500-NO2 F	0.50	0.54	108	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 5/6/2011

Dissolved Nitrite as Nitrogen
SM 4500-NO2 B
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	0.100	0.104	104
CCV 2 Result	0.100	0.093	93
CCV 3 Result	0.100	0.095	95

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.010	0.002 J
CCB 2 Result	0.010	0.002 J
CCB 3 Result	0.010	0.002 J

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25-26/2011
Date Received: 4/26-27/2011

Dissolved Sulfate

Prep Method: NONE
 Analysis Method: 300.0
 Test Notes:

Units: mg/L (ppm)
 Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-1	K1103574-001	1.0	0.2	5	4/26/2011	35.1	
MW-2	K1103574-002	2.0	0.3	10	4/26/2011	35.0	
MW-5	K1103574-003	1.0	0.2	5	4/26/2011	45.1	
MW-6	K1103574-004	1.0	0.2	5	4/26/2011	38.8	
MW-7	K1103574-005	2.0	0.3	10	4/26/2011	36.1	
MW-3	K1103574-006	4.0	0.6	20	4/28/2011	26.8	
MW-4	K1103574-007	4.0	0.6	20	4/28/2011	40.8	
EB-042511	K1103574-008	0.40	0.06	2	4/27/2011	0.07	J
EB-042611	K1103574-009	0.40	0.06	2	4/27/2011	ND	
Method Blank	K1103574-MB	0.20	0.03	1	4/26/2011	ND	
Method Blank	K1103574-MB	0.20	0.03	1	4/27/2011	ND	
Method Blank	K1103574-MB	0.20	0.03	1	4/28/2011	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Duplicate Summary
Inorganic Parameters

Sample Name: Batch QC
Lab Code: K1103600-010DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Dissolved Sulfate	NONE	300.0	0.40	14.0	14.0	14.0	< 1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Matrix Spike/Duplicate Matrix Spike Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
Lab Code: K1103600-010MS, K1103600-010DMS Basis: NA
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Percent Recovery				Result Notes
				MS	DMS		MS	DMS	CAS		Relative		
							MS	DMS	MS	DMS	Acceptance Limits	Percent Difference	
Dissolved Sulfate	NONE	300.0	0.40	20.0	20.0	14.0	30.5	30.8	82	84	880-120	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
 Lab Code: K1103574-LCS
 Test Notes:

Units: mg/L (ppm)
 Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Sulfate	NONE	300.0	5.00	4.63	93	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/27/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Sulfate	NONE	300.0	5.00	4.58	92	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/28/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Sulfate	NONE	300.0	5.00	4.55	91	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/26/2011

Dissolved Sulfate
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	4.69	94
CCV 2 Result	5.00	4.70	94
CCV 3 Result	5.00	4.66	93
CCV 4 Result	5.00	4.65	93
CCV 5 Result	5.00	4.66	93
CCV 6 Result	5.00	4.64	93

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.20	0.01 J
CCB 2 Result	0.20	ND
CCB 3 Result	0.20	ND
CCB 4 Result	0.20	ND
CCB 5 Result	0.20	ND
CCB 6 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/27/2011

Dissolved Sulfate
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	4.71	95
CCV 2 Result	5.00	4.73	94
CCV 3 Result	5.00	4.72	95
CCV 4 Result	5.00	4.73	94
CCV 5 Result	5.00	4.70	94

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.20	ND
CCB 2 Result	0.20	0.01 J
CCB 3 Result	0.20	ND
CCB 4 Result	0.20	ND
CCB 5 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/28/2011

Dissolved Sulfate
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	4.72	94
CCV 2 Result	5.00	4.59	92
CCV 3 Result	5.00	4.68	94
CCV 4 Result	5.00	4.71	94
CCV 5 Result	5.00	4.66	93
CCV 6 Result	5.00	4.66	93

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.20	ND
CCB 2 Result	0.20	0.02 J
CCB 3 Result	0.20	ND
CCB 4 Result	0.20	ND
CCB 5 Result	0.20	ND
CCB 6 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/11 - 4/26/11
Date Received: 4/26/11 - 4/27/11

Analysis Method: 350.1

Units: mg/L
Basis: NA

Ammonia as Nitrogen, Dissolved

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
MW-1	K1103574-001	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
MW-2	K1103574-002	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
MW-5	K1103574-003	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
MW-6	K1103574-004	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
MW-7	K1103574-005	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
MW-3	K1103574-006	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
MW-4	K1103574-007	4.80		0.050	0.020	1	NA	5/5/11 15:00	
EB-042511	K1103574-008	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
EB-042611	K1103574-009	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
Method Blank	K1103574-MB1	ND	U	0.050	0.020	1	NA	5/5/11 15:00	
Method Blank	K1103574-MB2	ND	U	0.050	0.020	1	NA	5/5/11 15:00	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/11
Date Received: 4/26/11
Date Analyzed: 5/ 5/11

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: MW-1
Lab Code: K1103574-001

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-1DUP Duplicate Sample K1103574-001DUP5		RPD	RPD Limit
					Result	Average		
Ammonia as Nitrogen, Dissolved	350.1	0.050	0.020	ND U	ND U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/11
Date Received: 4/26/11
Date Analyzed: 5/ 5/11

**Matrix Spike Summary
 General Chemistry Parameters**

Sample Name: MW-1
Lab Code: K1103574-001

Units: mg/L
Basis: NA

Analytical Method: 350.1

Analyte Name	Sample Result	MW-1MS Matrix Spike K1103574-001MS1			MW-1DMS Duplicate Matrix Spike K1103574-001DMS1			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ammonia as Nitrogen, Dissolved	ND	2.04	2.00	102	2.06	2.00	103	90 - 110	<1	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Analyzed: 5/ 5/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
K1103574-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, Dissolved	350.1	13.5	13.9	97	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Analyzed: 5/ 5/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
K1103574-LCS2

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Ammonia as Nitrogen, Dissolved	350.1	13.5	13.9	97	90 - 110

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574

**Continuing Calibration Verification (CCV) Summary
 Ammonia as Nitrogen, Dissolved**

Analytical Method: 350.1

Units: mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	244974	KQ1104065-21	5/5/11 15:00	2.00	2.00	100	90 - 110
CCV2	244974	KQ1104065-22	5/5/11 15:00	2.00	2.00	100	90 - 110
CCV3	244974	KQ1104065-23	5/5/11 15:00	2.00	2.00	100	90 - 110
CCV4	244974	KQ1104065-24	5/5/11 15:00	2.00	1.99	100	90 - 110
CCV5	244974	KQ1104065-25	5/5/11 15:00	2.00	2.00	100	90 - 110
CCV6	244974	KQ1104065-26	5/5/11 15:00	2.00	1.99	100	90 - 110
CCV7	244974	KQ1104065-27	5/5/11 15:00	2.00	1.99	100	90 - 110

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574

Continuing Calibration Blank (CCB) Summary
Ammonia as Nitrogen, Dissolved

Analytical Method: 350.1

Units: mg/L

	Analysis Lot	Lab Code	Date Analyzed	MDL	MRL	Result	Q
CCB1	244974	KQ1104065-14	5/5/11 15:00	0.020	0.050	ND	U
CCB2	244974	KQ1104065-15	5/5/11 15:00	0.020	0.050	ND	U
CCB3	244974	KQ1104065-16	5/5/11 15:00	0.020	0.050	ND	U
CCB4	244974	KQ1104065-17	5/5/11 15:00	0.020	0.050	ND	U
CCB5	244974	KQ1104065-18	5/5/11 15:00	0.020	0.050	ND	U
CCB6	244974	KQ1104065-19	5/5/11 15:00	0.020	0.050	ND	U
CCB7	244974	KQ1104065-20	5/5/11 15:00	0.020	0.050	ND	U

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/11 - 4/26/11
Date Received: 4/26/11 - 4/27/11

Analysis Method: SM 2320 B

Units: mg/L
Basis: NA

Bicarbonate as CaCO3

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
MW-1	K1103574-001	146		9.0	3.0	1	NA	5/3/11 10:04	
MW-2	K1103574-002	258		9.0	3.0	1	NA	5/3/11 10:04	
MW-5	K1103574-003	301		9.0	3.0	1	NA	5/3/11 10:04	
MW-6	K1103574-004	223		9.0	3.0	1	NA	5/4/11 14:20	
MW-7	K1103574-005	224		9.0	3.0	1	NA	5/4/11 14:20	
MW-3	K1103574-006	169		9.0	3.0	1	NA	5/4/11 14:20	
MW-4	K1103574-007	194		9.0	3.0	1	NA	5/4/11 14:20	
EB-042511	K1103574-008	ND	U	2.0	1.0	1	NA	5/5/11 17:13	
EB-042611	K1103574-009	ND	U	2.0	1.0	1	NA	5/5/11 17:13	
Method Blank	K1103574-MB1	5.8	J	9.0	3.0	1	NA	5/3/11 10:04	
Method Blank	K1103574-MB2	6.0	J	9.0	3.0	1	NA	5/3/11 10:04	
Method Blank	K1103574-MB3	6.4	J	9.0	3.0	1	NA	5/4/11 14:20	
Method Blank	K1103574-MB4	6.2	J	9.0	3.0	1	NA	5/4/11 14:20	
Method Blank	K1103574-MB5	ND	U	2.0	1.0	1	NA	5/5/11 17:13	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/11
Date Received: 4/26/11
Date Analyzed: 5/ 3/11

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: MW-1
Lab Code: K1103574-001

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-1DUP Duplicate Sample K1103574-001DUP5		RPD	RPD Limit
					Result	Average		
Bicarbonate as CaCO3	SM 2320 B	9.0	3.0	146	154	150	5	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/11
Date Received: 4/26/11
Date Analyzed: 5/ 4/11

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: MW-7
Lab Code: K1103574-005

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-7DUP Duplicate Sample K1103574-005DUP6		RPD	RPD Limit
					Result	Average		
Bicarbonate as CaCO3	SM 2320 B	9.0	3.0	224	218	221	3	20

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 5/ 2/11

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: Batch QC
Lab Code: K1103561-004

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QC DUP Duplicate Sample		RPD	RPD Limit
					K1103561-004DUP1 Result	Average		
Solids, Total Dissolved	SM 2540 C	10	10	250	233	242	7	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 5/ 2/11

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: Batch QC **Units:** mg/L
Lab Code: K1103570-001 **Basis:** NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QCDUP Duplicate Sample		RPD	RPD Limit
					K1103570-001DUP4 Result	Average		
Solids, Total Dissolved	SM 2540 C	10	10	142	136	139	4	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar Kronquist/0907194.000.0901
 Sample Matrix: Water

Service Request: K1103574
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 5/ 2/11

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: Batch QC
 Lab Code: K1103592-003

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QCDUP Duplicate Sample		RPD	RPD Limit
					K1103592-003DUP7 Result	Average		
Solids, Total Dissolved	SM 2540 C	10	10	205	202	204	1	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/11 - 4/26/11
Date Received: 4/26/11 - 4/27/11

Analysis Method: SM 2540 C

Units: mg/L
Basis: NA

Solids, Total Dissolved

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
MW-1	K1103574-001	1190	X	14	14	1	NA	5/2/11 00:00	
MW-2	K1103574-002	552		10	10	1	NA	5/2/11 00:00	
MW-5	K1103574-003	488		10	10	1	NA	5/2/11 00:00	
MW-6	K1103574-004	412	X	10	10	1	NA	5/2/11 00:00	
MW-7	K1103574-005	430		10	10	1	NA	5/2/11 00:00	
MW-3	K1103574-006	1710	X	14	14	1	NA	5/2/11 00:00	
MW-4	K1103574-007	2210	X	20	20	1	NA	5/2/11 00:00	
EB-042511	K1103574-008	14.0	X	5.0	5.0	1	NA	5/2/11 00:00	
EB-042611	K1103574-009	15.5	X	5.0	5.0	1	NA	5/2/11 00:00	
Method Blank	K1103574-MB1	ND	U	5.0	5.0	1	NA	5/2/11 00:00	
Method Blank	K1103574-MB2	ND	U	5.0	5.0	1	NA	5/2/11 00:00	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 5/ 2/11

**Replicate Sample Summary
 General Chemistry Parameters**

Sample Name: Batch QC
Lab Code: K1103716-001

Units: mg/L
Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	Batch QCDUP Duplicate Sample K1103716-001DUP12		RPD	RPD Limit
					Result	Average		
Solids, Total Dissolved	SM 2540 C	10	10	1860	1940	1900	4	10

Results flagged with an asterisk (*) indicate values outside control criteria.

Results flagged with a pound (#) indicate the control criteria is not applicable.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Analyzed: 5/ 2/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
K1103574-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Solids, Total Dissolved	SM 2540 C	1670	1740	96	83 - 117

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Analyzed: 5/ 2/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

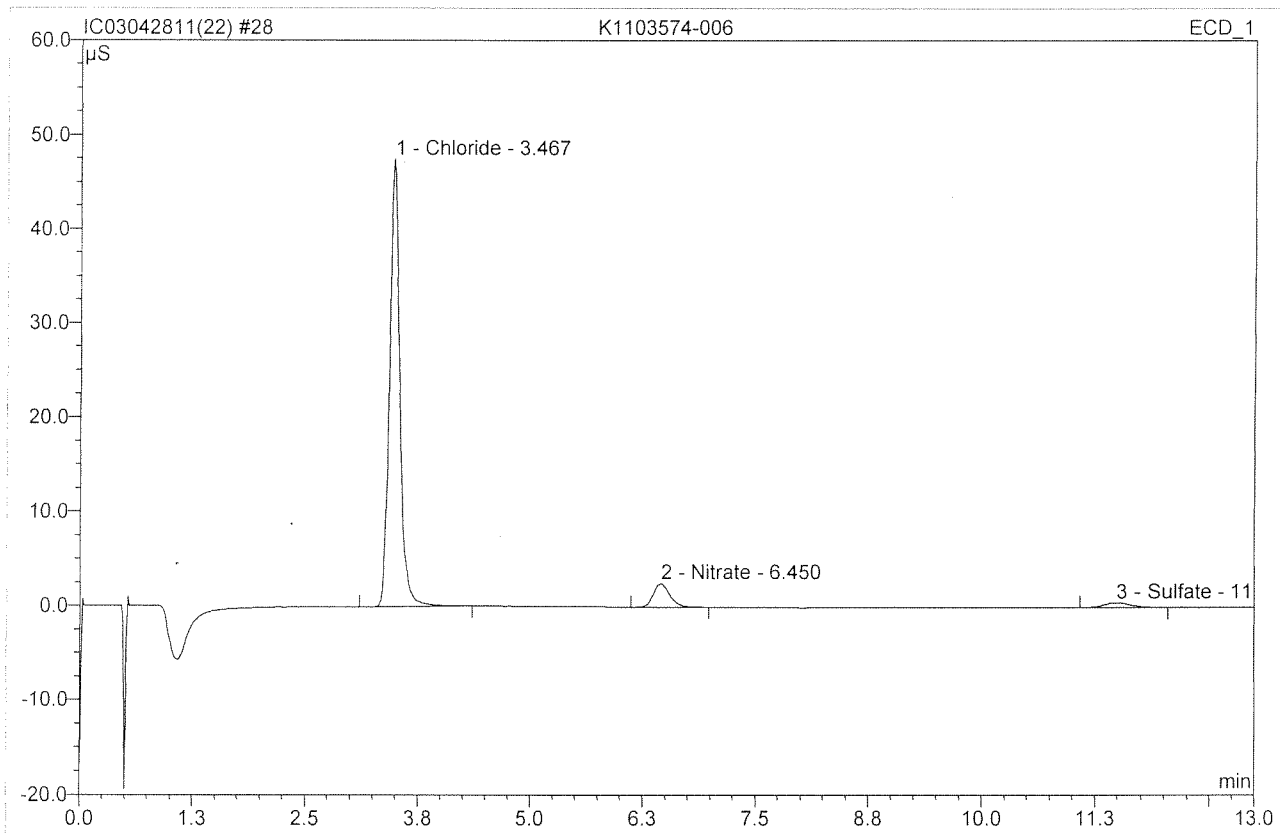
Lab Control Sample
K1103574-LCS2

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Solids, Total Dissolved	SM 2540 C	1730	1740	99	83 - 117

Results flagged with an asterisk (*) indicate values outside control criteria.

Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

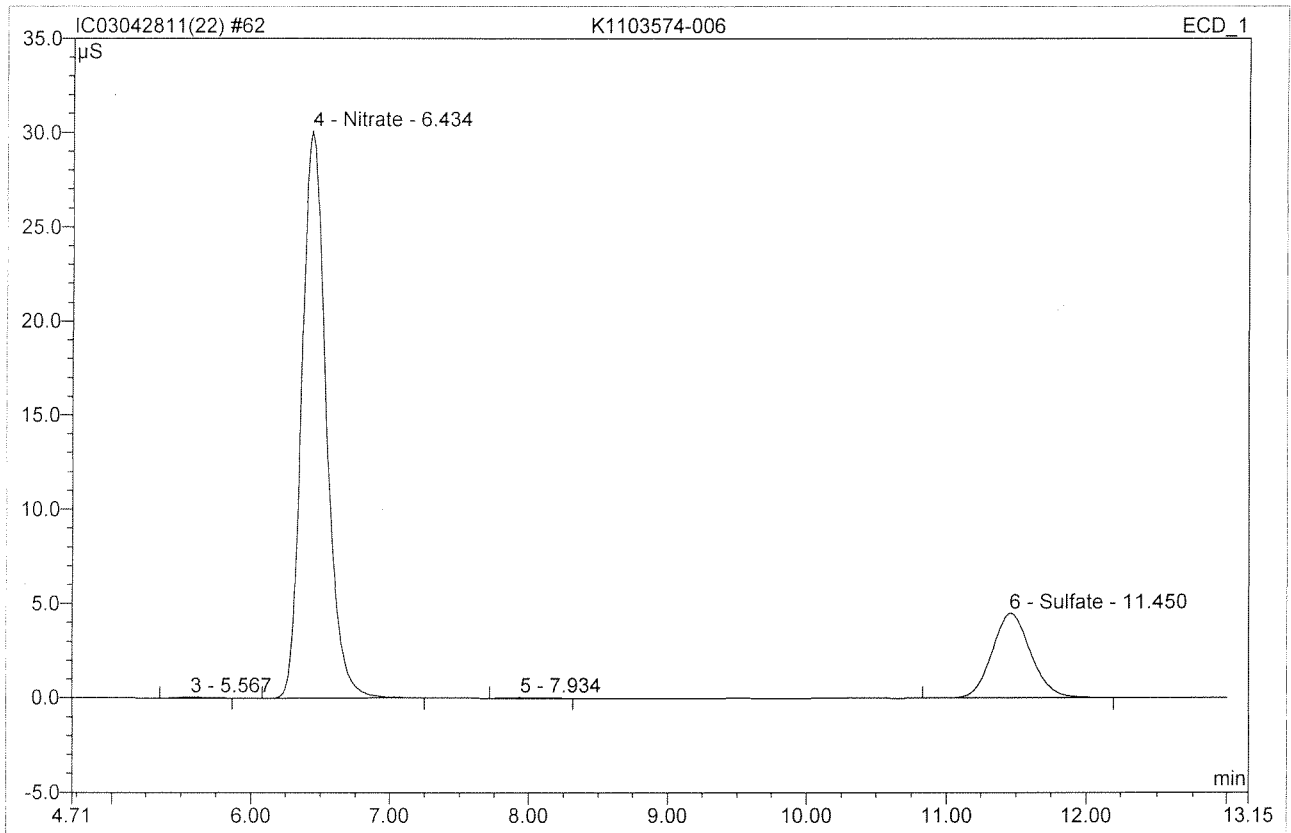
28 K1103574-006			
Sample Name:	K1103574-006	Injection Volume:	200.0
Vial Number:	30	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	4/28/2011 12:46	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.47	Chloride	47.414	6.269	89.88	741.464	BMB
2	6.45	Nitrate	2.501	0.527	7.56	25.427	BMB
3	11.48	Sulfate	0.521	0.179	2.57	33.364	BMB
Total:			50.436	6.975	100.00	800.255	

62 K1103574-006

Sample Name:	K1103574-006	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	4/28/2011 21:31	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	0.191	0.049	0.07	0.443	BMB
2	3.60	Chloride	344.557	66.654	89.76	788.364	BMB
3	5.57	n.a.	0.071	0.015	0.02	n.a.	BMB
4	6.43	Nitrate	30.088	6.093	8.21	29.398	BMB
5	7.93	n.a.	0.039	0.011	0.01	n.a.	BMB
6	11.45	Sulfate	4.480	1.439	1.94	26.816	BMB
Total:			379.427	74.261	100.00	845.022	

After Initials nb

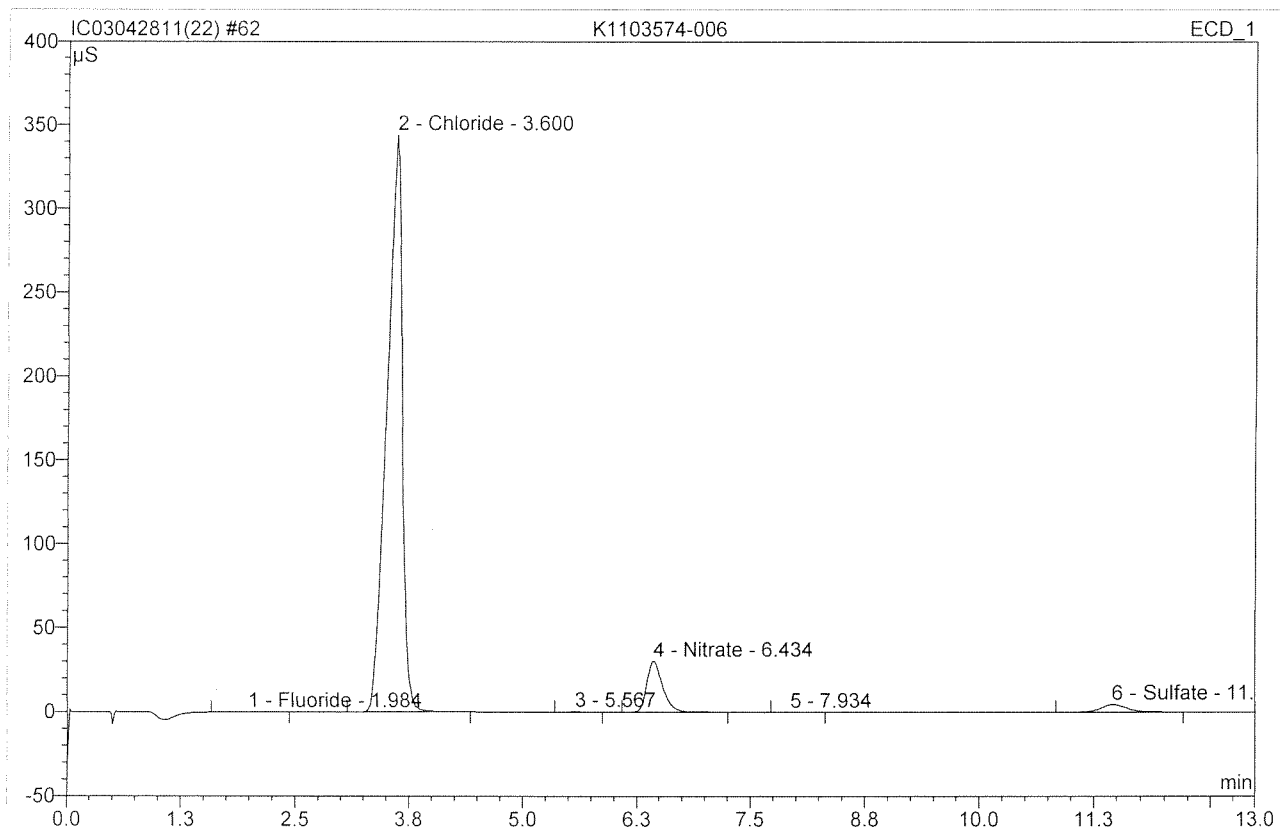
APR 29 2011

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default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other 20067

62 K1103574-006			
Sample Name:	K1103574-006	Injection Volume:	200.0
Vial Number:	64	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	4/28/2011 21:31	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

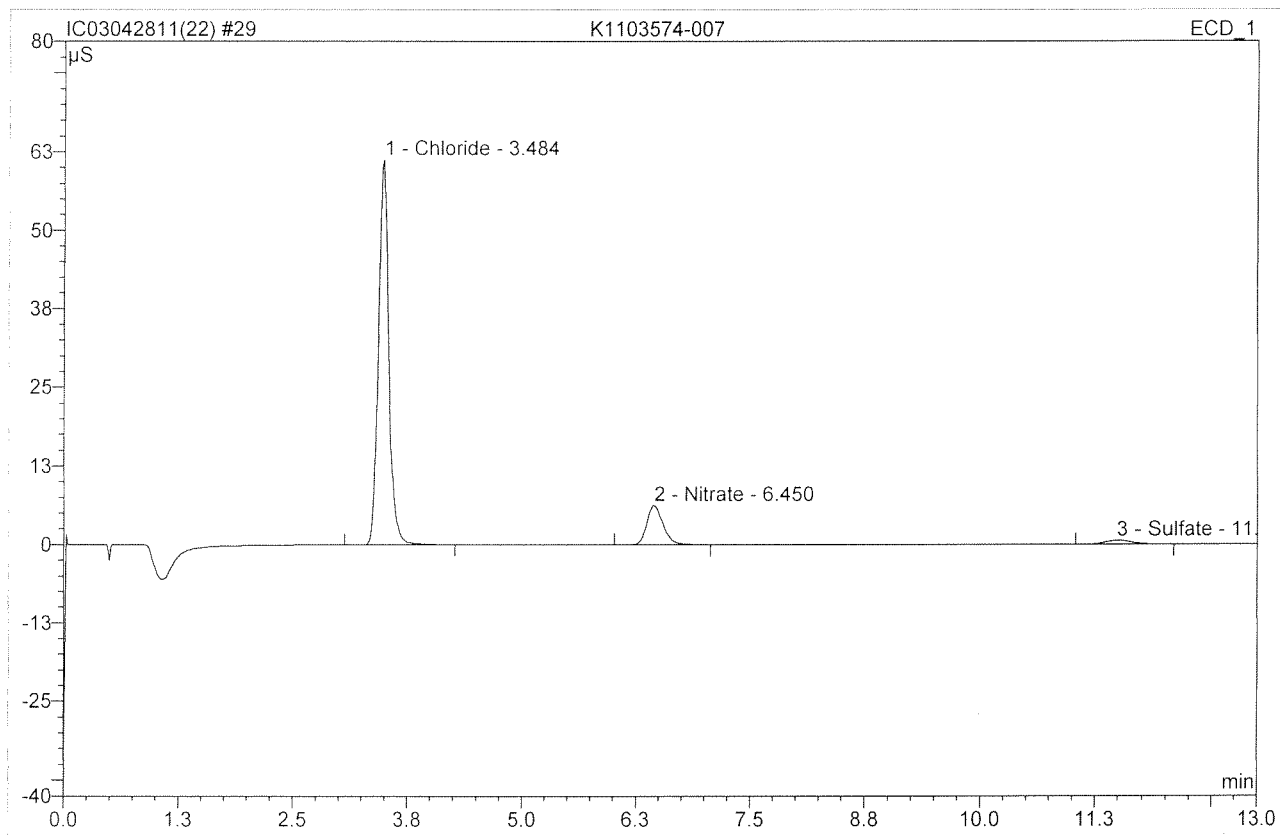


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	0.191	0.049	0.07	0.443	BMB
2	3.60	Chloride	344.557	66.654	89.76	788.364	BMB
3	5.57	n.a.	0.071	0.015	0.02	n.a.	BMB
4	6.43	Nitrate	30.088	6.093	8.21	29.398	BMB
5	7.93	n.a.	0.039	0.011	0.01	n.a.	BMB
6	11.45	Sulfate	4.480	1.439	1.94	26.816	BMB
Total:			379.427	74.261	100.00	845.022	

Before

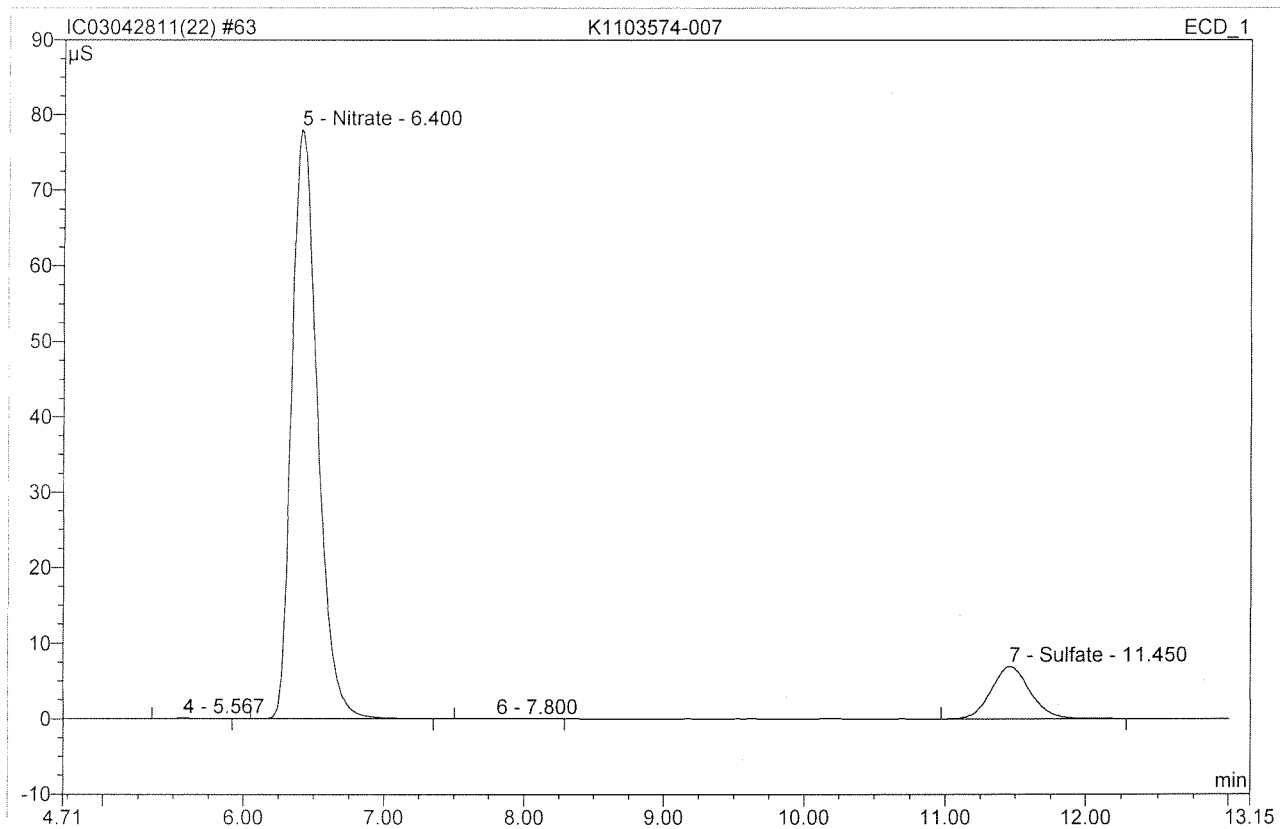
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29 K1103574-007			
Sample Name:	K1103574-007	Injection Volume:	200.0
Vial Number:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	4/28/2011 13:01	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.48	Chloride	61.250	7.977	84.14	943.492	BMB
2	6.45	Nitrate	6.289	1.291	13.62	62.291	BMB
3	11.48	Sulfate	0.639	0.212	2.24	39.557	BMB
Total:			68.178	9.480	100.00	1045.340	

63 K1103574-007			
Sample Name:	K1103574-007	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	4/28/2011 21:47	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



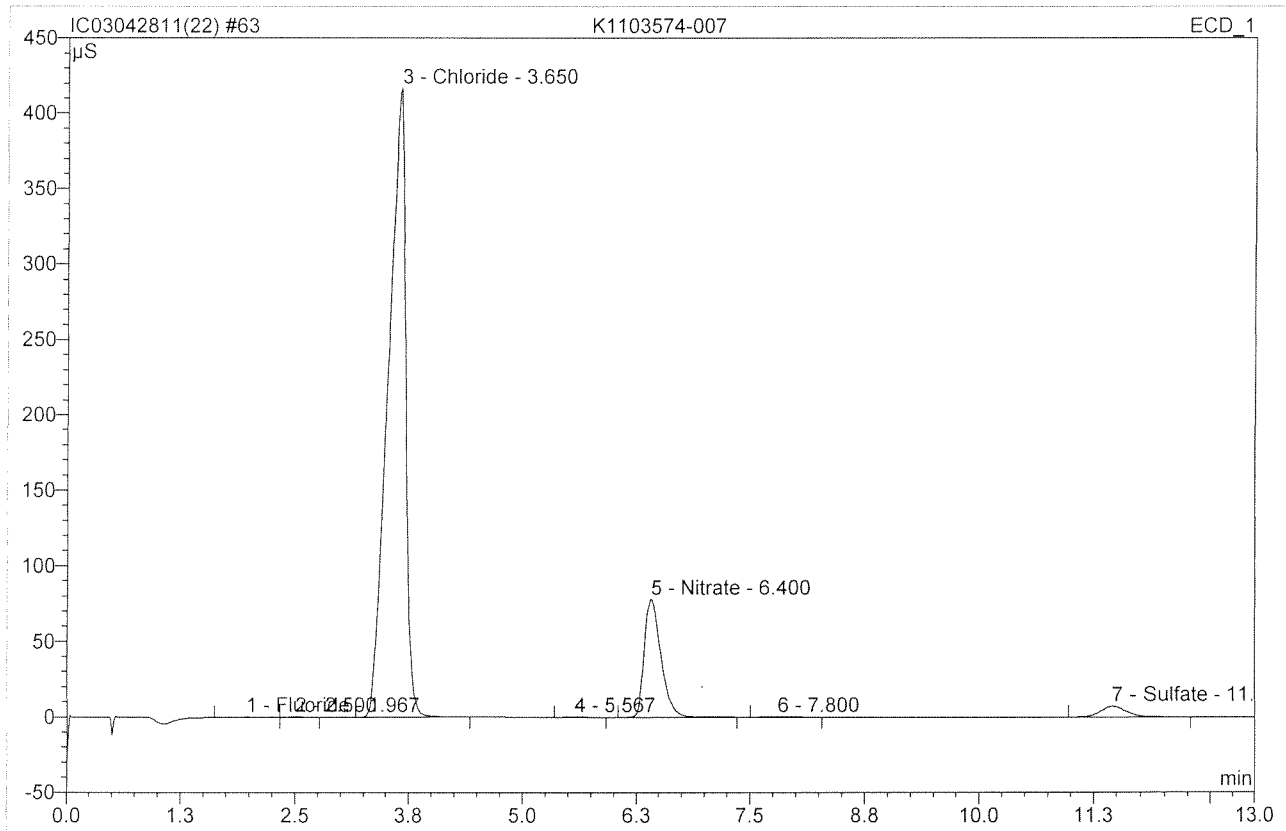
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride	0.208	0.047	0.04	0.430	BMB
2	2.50	n.a.	0.140	0.021	0.02	n.a.	bMB
3	3.65	Chloride	416.918	92.235	82.89	1090.935	BMB
4	5.57	n.a.	0.085	0.017	0.02	n.a.	BMB
5	6.40	Nitrate	78.036	16.735	15.04	80.741	BMB
6	7.80	n.a.	0.066	0.028	0.02	n.a.	BMB
7	11.45	Sulfate	6.916	2.193	1.97	40.844	BMB
Total:			502.368	111.275	100.00	1212.950	

After Initials nb

APR 29 2011

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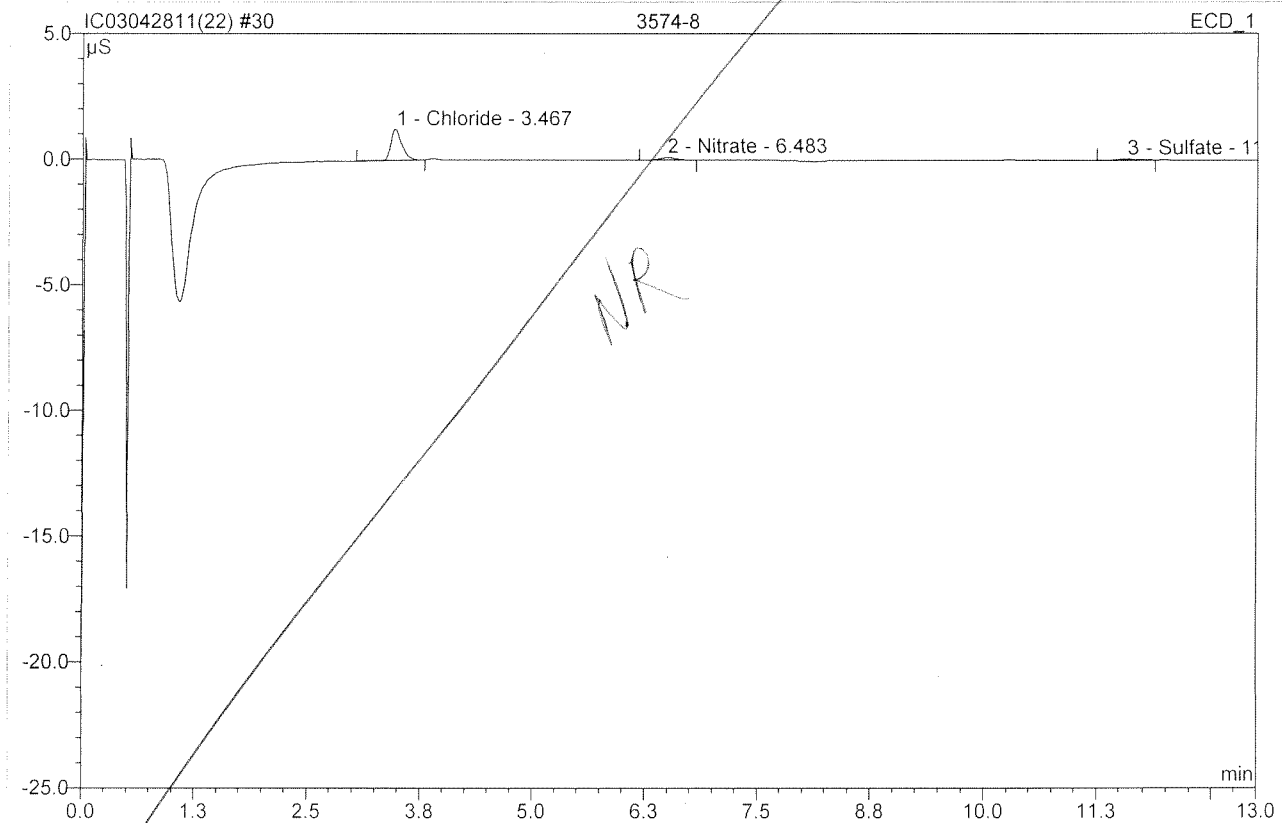
63 K1103574-007			
Sample Name:	K1103574-007	Injection Volume:	200.0
Vial Number:	65	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	20.0000
Recording Time:	4/28/2011 21:47	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride	0.208	0.047	0.04	0.430	BMB
2	2.50	n.a.	0.140	0.021	0.02	n.a.	bMB
3	3.65	Chloride	416.918	92.235	82.89	1090.935	BMB
4	5.57	n.a.	0.085	0.017	0.02	n.a.	BMB
5	6.40	Nitrate	78.036	16.735	15.04	80.741	BMB
6	7.80	n.a.	0.066	0.028	0.02	n.a.	BMB
7	11.45	Sulfate	6.916	2.193	1.97	40.844	BMB
Total:			502.368	111.275	100.00	1212.950	

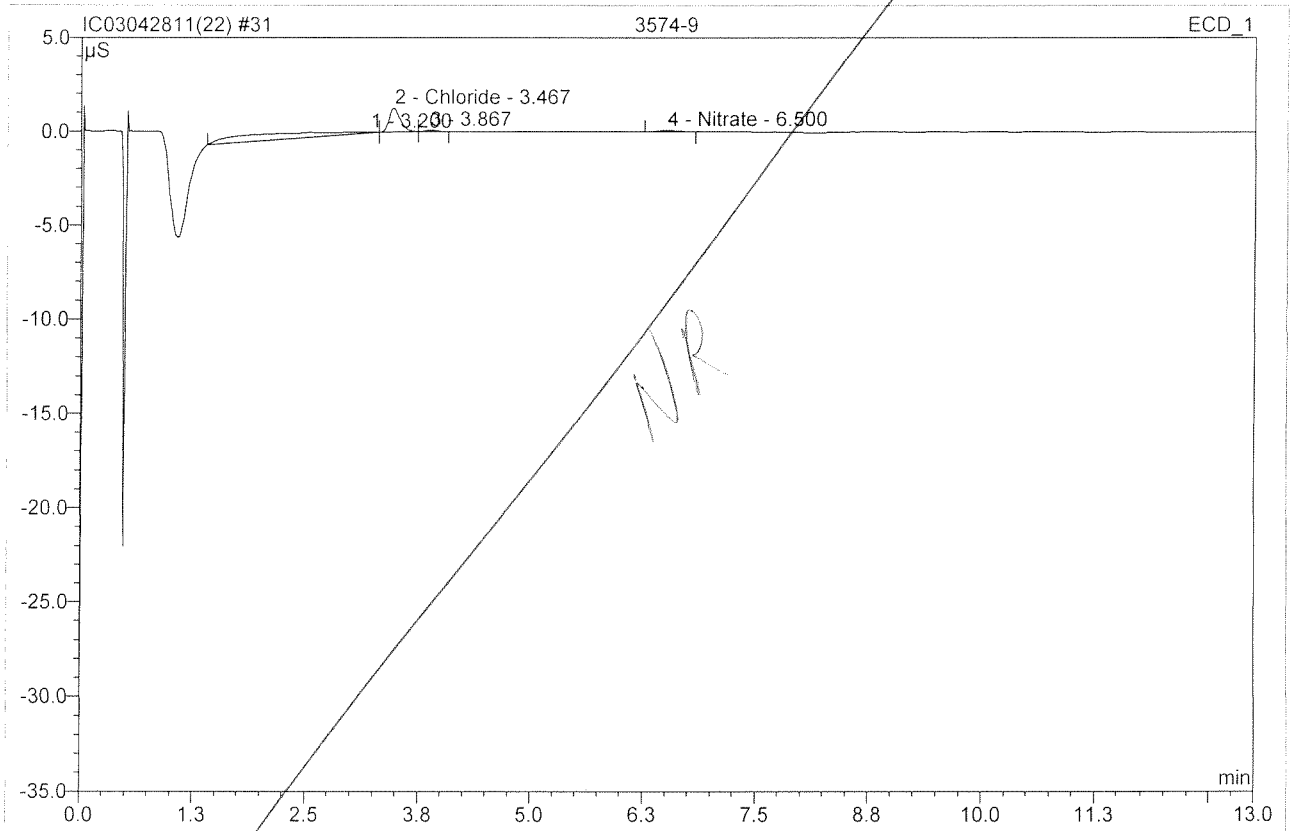
Before
APR 29 2011

30 3574-8			
CHK			
Sample Name:	3574-8	Injection Volume:	200.0
Vial Number:	32	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 13:17	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



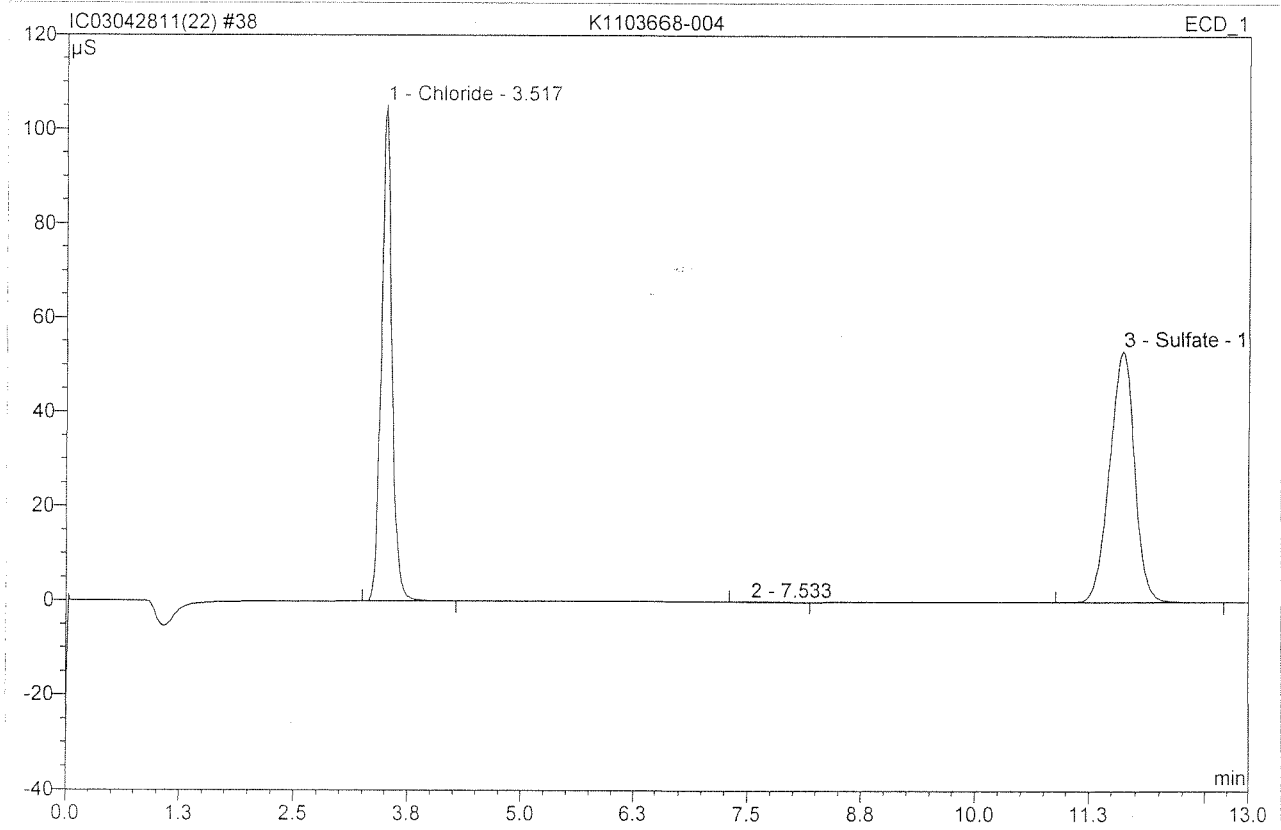
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.47	Chloride	1.213	0.168	81.58	0.199	BMB
2	6.48	Nitrate	0.110	0.026	12.47	0.012	BMB
3	11.57	Sulfate	0.038	0.012	5.94	0.023	BMB
Total:			1.361	0.206	100.00	0.234	

31 3574-9			
CHK			
Sample Name:	3574-9	Injection Volume:	200.0
Vial Number:	33	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 13:32	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



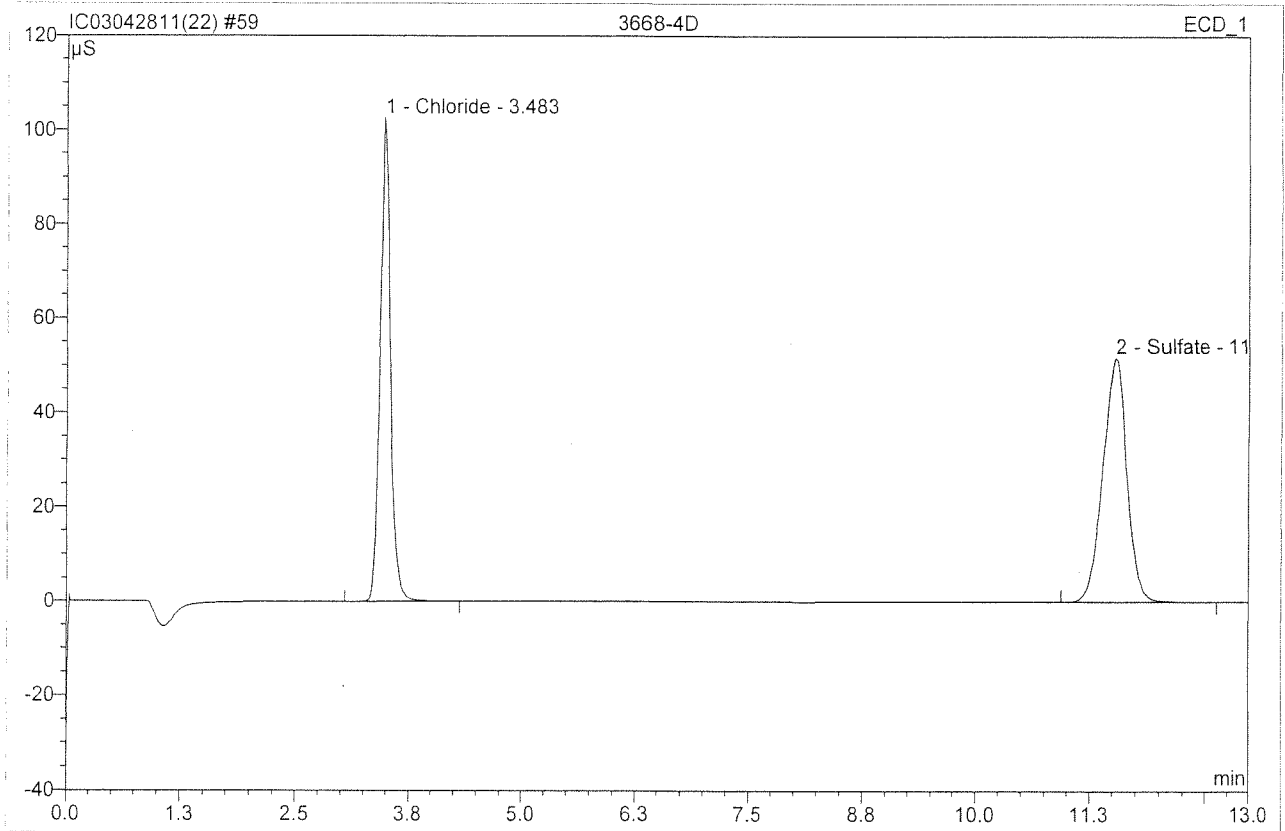
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	n.a.	0.036	0.419	66.64	n.a.	BMB
2	3.47	Chloride	1.263	0.179	28.48	0.212	bMb
3	3.87	n.a.	0.077	0.011	1.79	n.a.	bMB
4	6.50	Nitrate	0.090	0.019	3.10	0.009	BMB
Total:			1.466	0.628	100.00	0.221	

38 K1103668-004			
Sample Name:	K1103668-004	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	4/28/2011 15:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



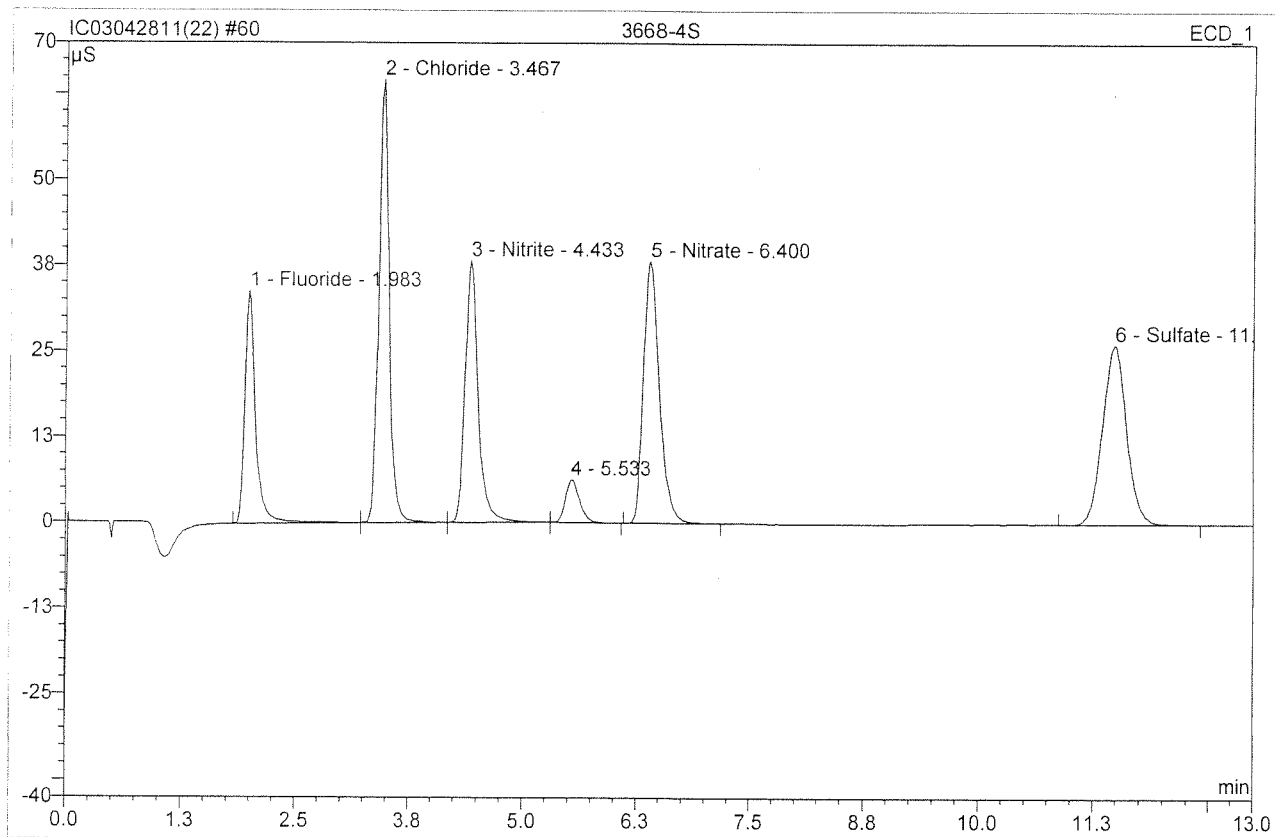
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.52	Chloride <i>> 16.50 RPD = 5</i>	105.174	14.154	46.31	1674.055	BMB
2	7.53	n.a.	0.028	0.019	0.06	n.a.	BMB
3	11.62	Sulfate	53.252	16.391	53.63	3053.377	BMB
Total:			158.453	30.563	100.00	4727.432	

59 3668-4D			
D			
Sample Name:	3668-4D	Injection Volume:	200.0
Vial Number:	61	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	4/28/2011 20:45	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.48	Chloride	102.536	13.737	46.37	1624.795	BMB
2	11.53	Sulfate	51.763	15.891	53.63	2960.282	BMB
Total:			154.299	29.628	100.00	4585.077	

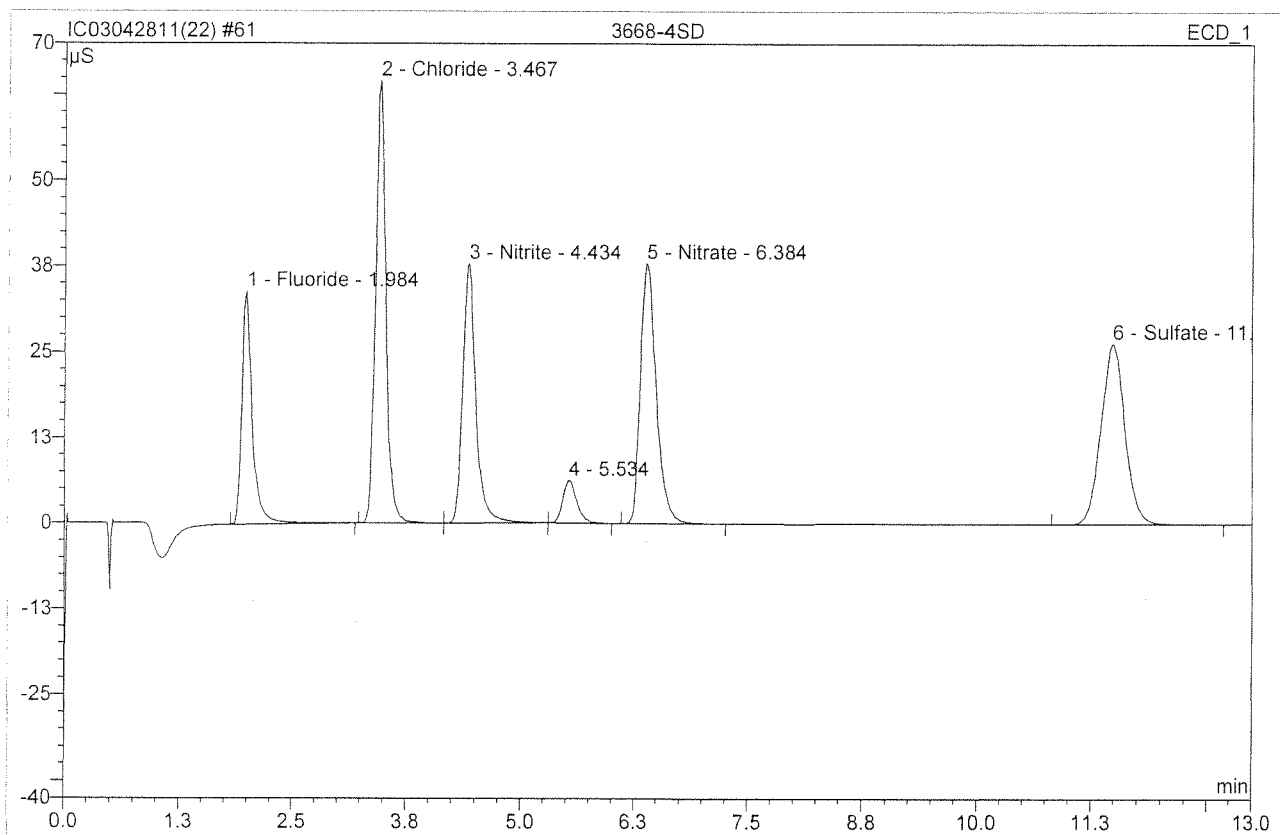
60 3668-4S			
MS			
Sample Name:	3668-4S	Injection Volume:	200.0
Vial Number:	62	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	500.0000
Recording Time:	4/28/2011 21:00	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	33.933	4.531	12.46	1035.163	BMB
2	3.47	Chloride <i>PEC-86</i>	64.588	8.562	23.55	2531.829	bMb
3	4.43	Nitrite	38.110	6.420	17.66	1024.812	bMb
4	5.53	n.a.	6.271	1.126	3.10	n.a.	bMB
5	6.40	Nitrate	38.115	7.686	21.14	927.060	BMB
6	11.48	Sulfate	26.223	8.029	22.09	3739.301	BMB
Total:			207.240	36.355	100.00	9258.165	

*spt 1/1
1,000*

61 3668-4SD			
MSD			
Sample Name:	3668-4SD	Injection Volume:	200.0
Vial Number:	63	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	500.0000
Recording Time:	4/28/2011 21:16	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

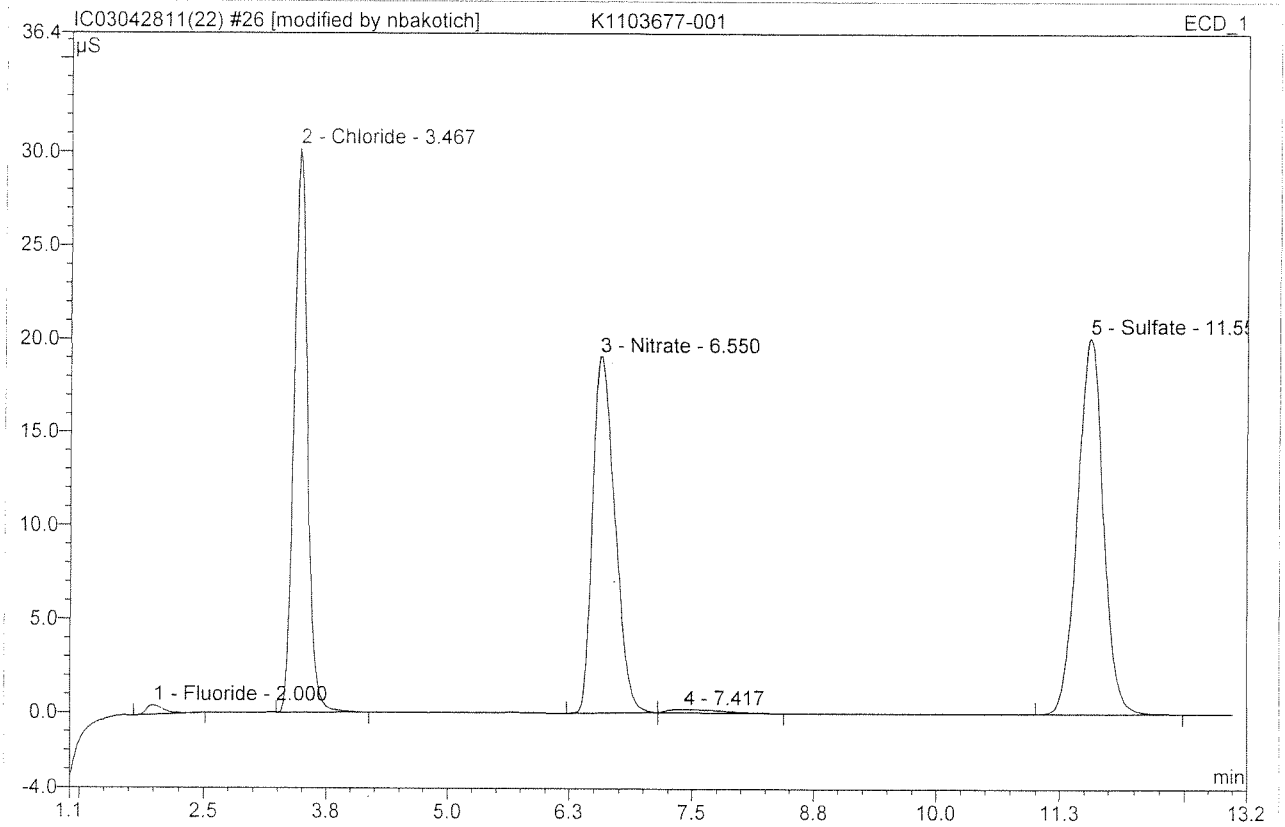


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.98	Fluoride	34.018	4.529	12.47	1034.641	BMB
2	3.47	Chloride <i>Rel=85</i>	64.552	8.548	23.53	2527.490	BMB
3	4.43	Nitrite	37.837	6.408	17.64	1022.758	bMb
4	5.53	n.a.	6.281	1.125	3.10	n.a.	bMB
5	6.38	Nitrate	37.952	7.657	21.08	923.571	BMB
6	11.48	Sulfate	26.344	8.057	22.18	3752.080	BMB
Total:			206.984	36.322	100.00	9260.540	

*SPT 1/1
1000*

26 K1103677-001

Sample Name:	K1103677-001	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 12:15	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	0.508	0.108	0.67	0.099	BMB*
2	3.47	Chloride	30.214	4.736	29.27	5.601	BMB
3	6.55	Nitrate	19.062	5.004	30.93	2.414	BMb
4	7.42	n.a.	0.186	0.120	0.74	n.a.	bMB
5	11.55	Sulfate	20.136	6.214	38.40	11.576	BMB
Total:			70.105	16.182	100.00	19.691	

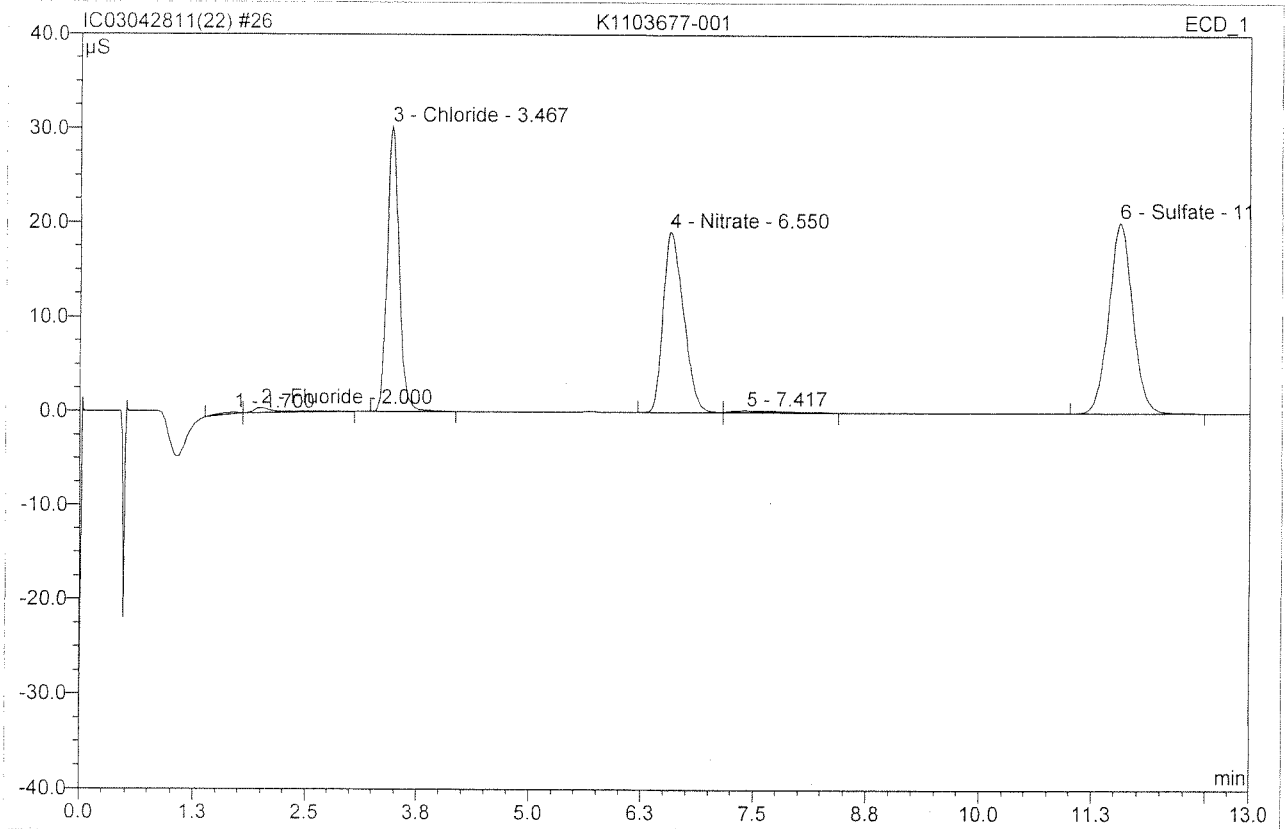
Br < 0.10 > 0.10 RPD
NO₂ < 0.10 ✓ ✓

After Initials ab

ccy/epa/n

APR 28 2011

26 K1103677-001			
Sample Name:	K1103677-001	Injection Volume:	200.0
Vial Number:	28	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 12:15	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	n.a.	0.135	0.050	0.31	n.a.	BMB
2	2.00	Fluoride	0.526	0.152	0.93	0.139	bMB
3	3.47	Chloride	30.214	4.736	29.10	5.601	BMB
4	6.55	Nitrate	19.062	5.004	30.75	2.414	BMB
5	7.42	n.a.	0.186	0.120	0.74	n.a.	bMB
6	11.55	Sulfate	20.136	6.214	38.18	11.576	BMB
Total:			70.259	16.276	100.00	19.730	

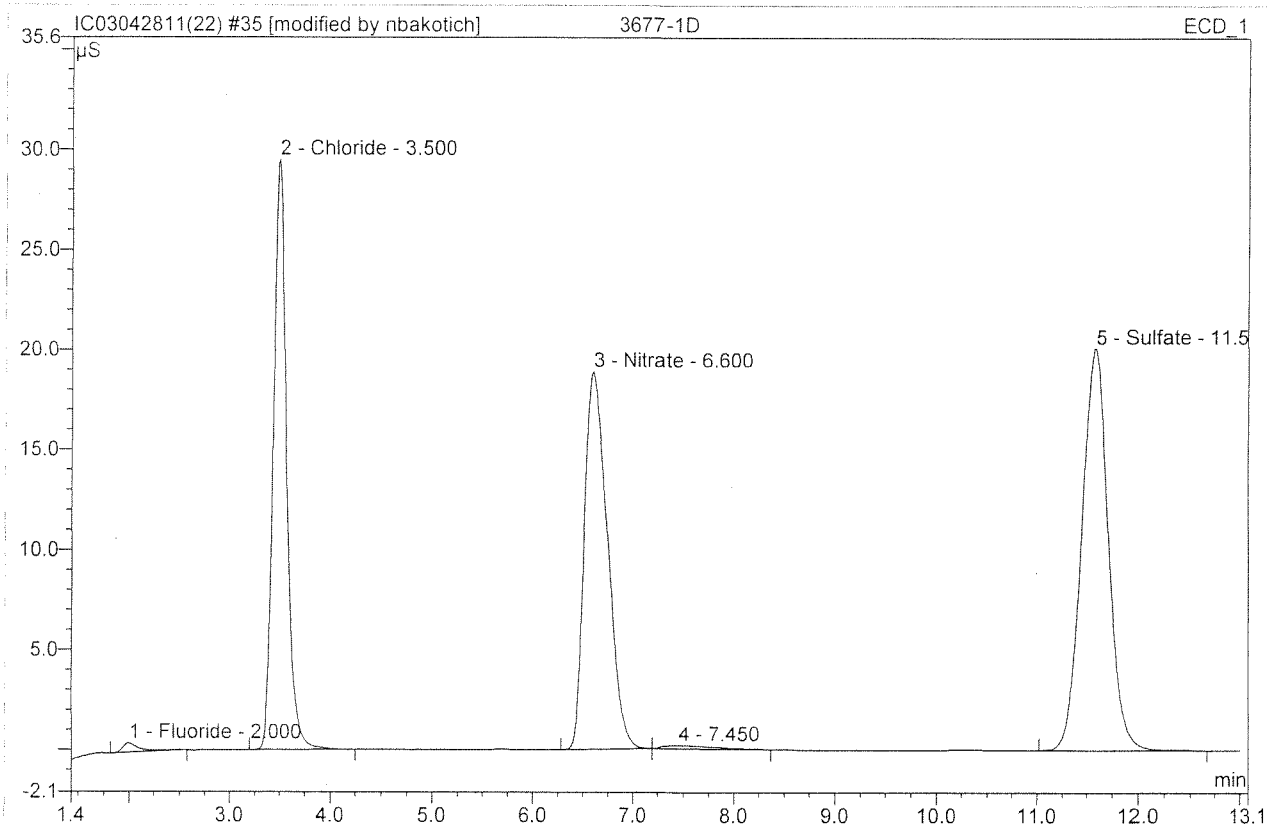
Before

APR 28 2011

35 3677-1D

D

Sample Name:	3677-1D	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 14:34	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	0.472	0.093	0.58	0.085	BMB*
2	3.50	Chloride	29.514	4.631	28.79	5.478	BMB*
3	6.60	Nitrate	18.870	5.027	31.24	2.425	BMB
4	7.45	n.a.	0.182	0.112	0.70	n.a.	bMB
5	11.58	Sulfate	20.095	6.225	38.69	11.596	BMB
Total:			69.134	16.088	100.00	19.584	

*NO₂ < 0.10
Br ↓*

After Initials

APR 28 2011

nbakotich

default/Integration

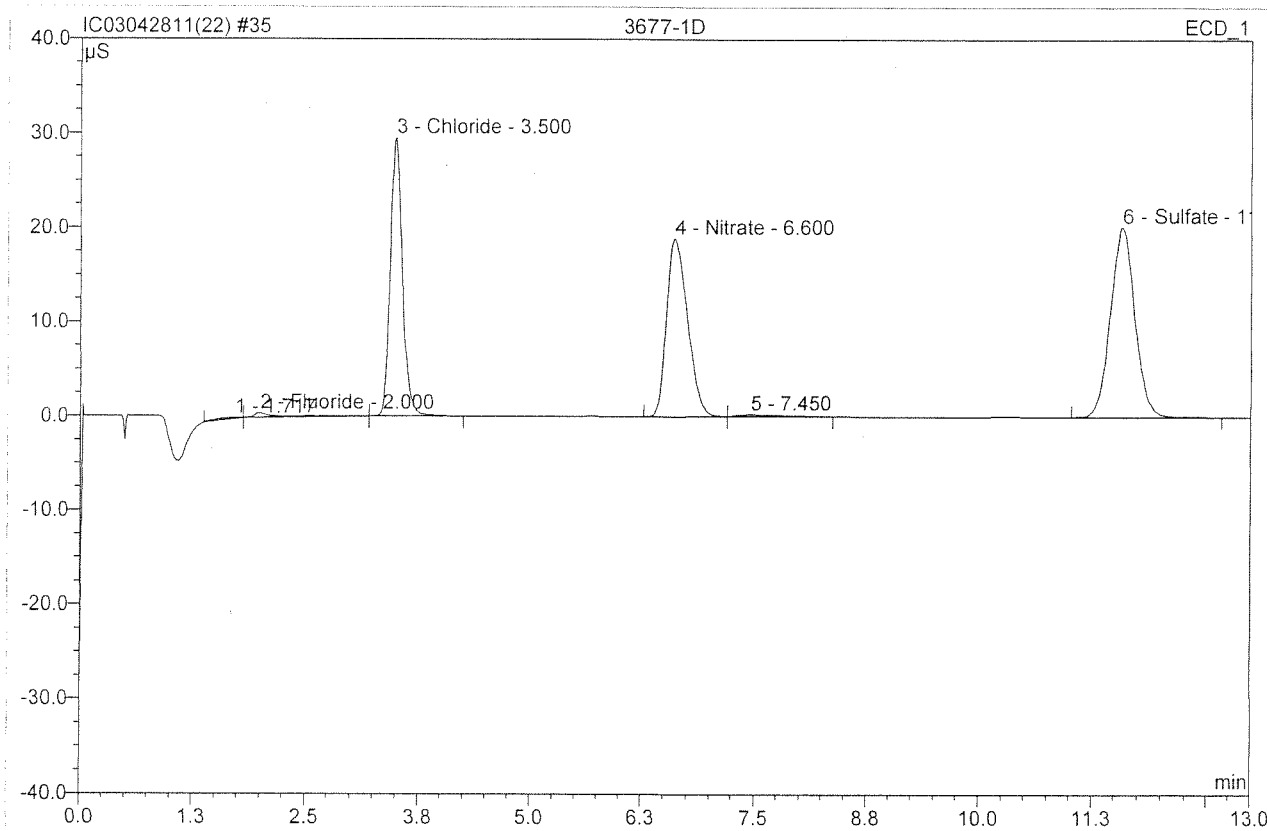
Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other

Chromleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

35 3677-1D

D

Sample Name:	3677-1D	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 14:34	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

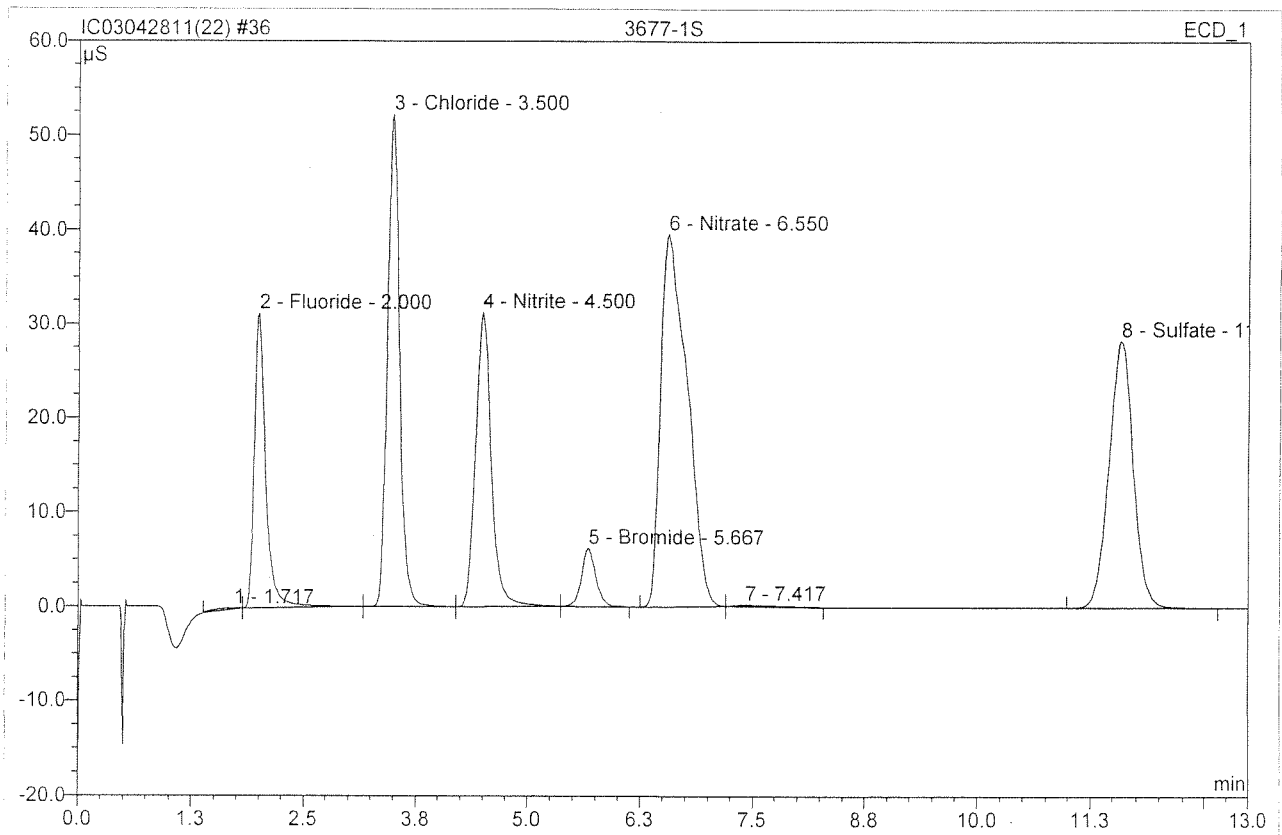


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.72	n.a.	0.137	0.054	0.33	n.a.	BMB
2	2.00	Fluoride	0.489	0.146	0.90	0.133	bMB
3	3.50	Chloride	29.514	4.631	28.60	5.478	bMB
4	6.60	Nitrate	18.870	5.027	31.04	2.425	BMB
5	7.45	n.a.	0.182	0.112	0.69	n.a.	bMB
6	11.58	Sulfate	20.095	6.225	38.44	11.596	BMB
Total:			69.288	16.195	100.00	19.633	

Before

APR 28 2011

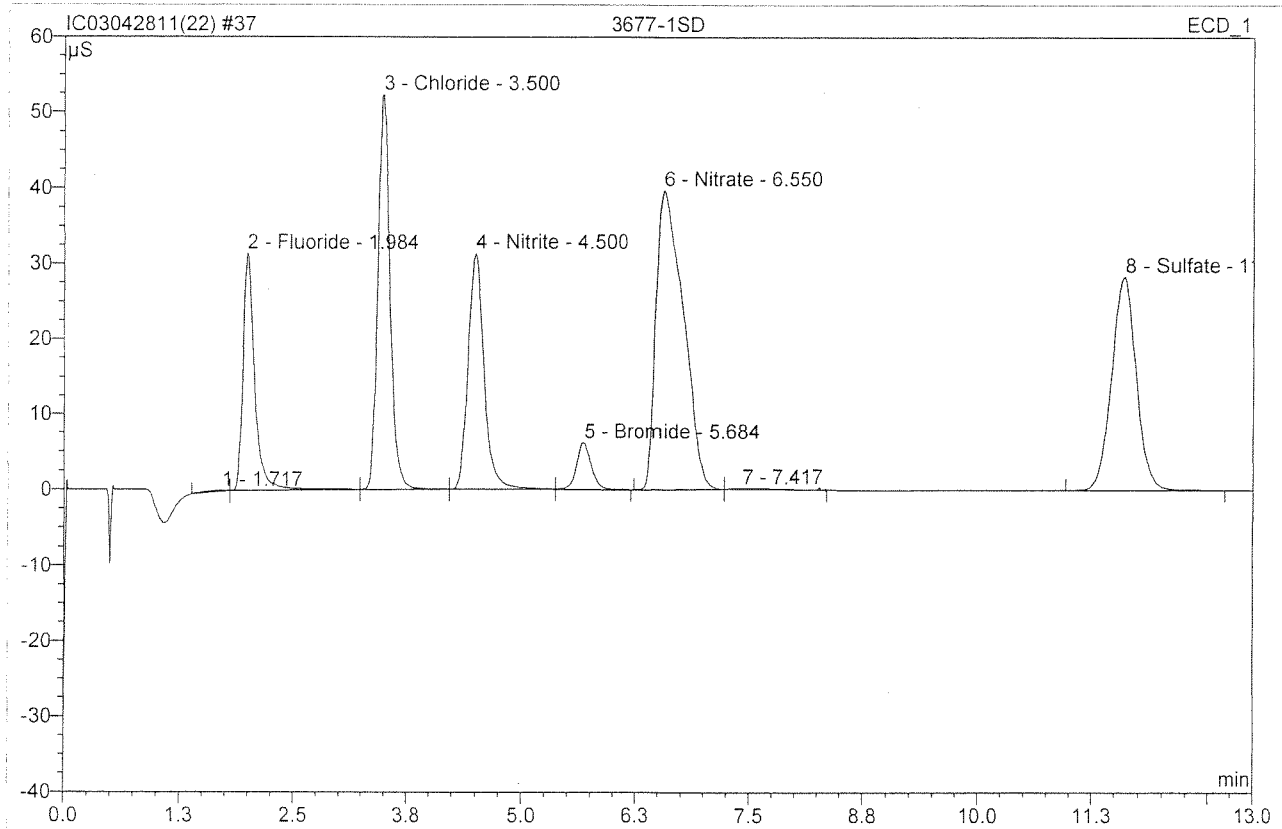
36 3677-1S			
MS			
Sample Name:	3677-1S	Injection Volume:	200.0
Vial Number:	38	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 14:49	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	n.a.	0.132	0.055	0.13	n.a.	BMB
2	2.00	Fluoride <i>RECIOS</i>	31.255	4.589	10.83	4.193	bMB
3	3.50	Chloride <i>RECIOS</i>	52.216	8.190	19.33	9.687	bMb
4	4.50	Nitrite <i>RECIOS</i>	31.167	6.331	14.94	4.042	bMb
5	5.67	Bromide <i>RECIOS</i>	6.146	1.125	2.66	3.806	bMB
6	6.55	Nitrate <i>RECIOS</i>	39.487	13.369	31.55	6.450	BMB
7	7.42	n.a.	0.140	0.081	0.19	n.a.	bMB
8	11.58	Sulfate <i>RECIOS</i>	28.277	8.632	20.37	16.081	BMB
Total:			188.819	42.372	100.00	44.259	

spk 4/28/11

37 3677-1SD			
MSD			
Sample Name:	3677-1SD	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 15:05	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	n.a.	0.112	0.048	0.11	n.a.	BMB
2	1.98	Fluoride <i>REC=106</i>	31.432	4.630	10.88	4.231	bMb
3	3.50	Chloride <i>REC=103</i>	52.280	8.216	19.31	9.718	bMb
4	4.50	Nitrite <i>REC=102</i>	31.362	6.388	15.02	4.079	bMb
5	5.68	Bromide <i>REC=96</i>	6.163	1.137	2.67	3.847	bMB
6	6.55	Nitrate <i>REC=101</i>	39.729	13.354	31.39	6.443	BMB
7	7.42	n.a.	0.143	0.085	0.20	n.a.	bMB
8	11.60	Sulfate <i>REC=105</i>	28.287	8.680	20.41	16.170	BMB
Total:			189.508	42.540	100.00	44.487	

Spk 1/1

Sequence # DC03047811(22)

Ion Chromatography Data Quality Report
Inorganics

Run # 2411087

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met?
 - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
 - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
 - c. Are results for Method Blanks all ND? yes/no/NA
 - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
 - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? 3574 filtered prior to analysis yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS

Fluoride	True Value = 11.0 ppm	CAS ID # = <u>AN1-34-K</u>	Expires: <u>9/3/11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0121-11-01</u>	Expires: <u>7/25/11</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN1-35-HH</u>	Expires: <u>4/28/11</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>6/9/11</u>
Nitrate	True Value = 15.2 ppm	CAS ID # = <u>AN1-34-F</u>	Expires: <u>7/24/11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0121-11-01</u>	Expires: <u>7/25/11</u>

CCV

	CAS ID # = <u>AN1-88-C</u>	Expires <u>4/28/11</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>4/28/11</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-34-H</u>	Expires: <u>5/7/11</u>
Nitrite	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>4/28/11</u>
Bromide	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-34-E</u>	Expires: <u>6/22/11</u>
Nitrate	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-34-L</u>	Expires: <u>10/18/11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-34-I</u>	Expires: <u>8/7/11</u>

Spike

2.0ppm X dilution factor	CAS ID# = <u>AN1-78-C</u>	Expires <u>4/28/11</u>
Fluoride	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>CCV</u>
Chloride	10K CAS ID # = <u>AN1-34-H</u>	Expires: <u>✓</u>
Nitrite	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>✓</u>
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>✓</u>
Nitrate	10K CAS ID # = <u>AN1-34-L</u>	Expires: <u>✓</u>
Sulfate	10K CAS ID # = <u>AN1-34-I</u>	Expires: <u>✓</u>

Analyst: nb Date: 4/28/11
 First Review: nb Date: 4/28/11
 Final Review: nb Date: 4/29/11

t:\wet\ic\dqs.xls

Analytical Results Summary

Instrument Name: K-IC-03 Analyst: NBAKOTICH Analysis Lot: 244087 Method/Testcode: 300.0/Chloride

h Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
103574-006	Chloride	N/A		Water	741.46 mg/L	5 mL	741 mg/L	200	6	40			4/28/11 12:46:00	N IV
103574-006	Sulfate	N/A		Water	26.82 mg/L	5 mL	26.8 mg/L	20	0.2	4.0			4/28/11 21:31:00	N IV
103574-007	Chloride	N/A		Water	943.49 mg/L	5 mL	943 mg/L	200	6	40			4/28/11 13:01:00	N IV
103574-007	Sulfate	N/A		Water	40.84 mg/L	5 mL	40.8 mg/L	20	0.2	4.0			4/28/11 21:47:00	N IV
103664-001	Nitrate as Nitrogen	N/A		Water	1.04 mg/L	5 mL	1.04 mg/L	2	0.008	0.10			4/28/11 09:23:00	N V
103664-002	Sulfate	N/A		Water	210.11 mg/L	5 mL	210 mg/L	50	0.5	5.0			4/28/11 22:02:00	N V
103664-002	Nitrate as Nitrogen	N/A		Water	1.04 mg/L	5 mL	1.04 mg/L	2	0.008	0.10			4/28/11 09:38:00	N V
103666-001	Chloride	N/A		Water	9.38 mg/L	5 mL	9.4 mg/L	2	0.06	2.0			4/28/11 11:28:00	N V
103666-001	Fluoride	N/A		Water	0.09 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			4/28/11 11:28:00	N V
103666-001	Sulfate	N/A		Water	93.21 mg/L	5 mL	93.2 mg/L	20	0.2	2.0			4/28/11 19:43:00	N V
103666-002	Nitrate as Nitrogen	N/A		Water	1.23 mg/L	5 mL	1.23 mg/L	2	0.008	0.10			4/28/11 11:44:00	N V
103668-001	Chloride	N/A		Water	8.90 mg/L	5 mL	8.90 mg/L	2	0.06	0.40			4/28/11 15:36:00	N II
103668-002	Chloride	N/A		Water	1125.54 mg/L	5 mL	1130 mg/L	200	6	40			4/28/11 15:51:00	N II
103668-003	Chloride	N/A		Water	1705.10 mg/L	5 mL	1710 mg/L	200	6	40			4/28/11 16:07:00	N II
103668-004	Chloride	N/A		Water	1674.06 mg/L	5 mL	1670 mg/L	200	6	40			4/28/11 15:20:00	N II
103668-005	Chloride	N/A		Water	11487.17 mg/L	5 mL	11500 mg/L	2000	60	400			4/28/11 16:22:00	N II
103668-006	Chloride	N/A		Water	1060.21 mg/L	5 mL	1060 mg/L	200	6	40			4/28/11 16:38:00	N II
103668-007	Chloride	N/A		Water	333.63 mg/L	5 mL	334 mg/L	50	2	10			4/28/11 17:39:00	N II
103668-008	Chloride	N/A		Water	9353.10 mg/L	5 mL	9350 mg/L	2000	60	400			4/28/11 17:55:00	N II
103668-009	Chloride	N/A		Water	3203.91 mg/L	5 mL	3200 mg/L	500	20	100			4/28/11 18:10:00	N II
103668-011	Chloride	N/A		Water	11418.74 mg/L	5 mL	11400 mg/L	2000	60	400			4/28/11 18:41:00	N II
103668-012	Chloride	N/A		Water	1462.08 mg/L	5 mL	1460 mg/L	500	20	100			4/28/11 18:57:00	N II
03668-013	Chloride	N/A		Water	1617.94 mg/L	5 mL	1620 mg/L	200	6	40			4/28/11 19:12:00	N II
03670-001	Nitrate as Nitrogen	N/A		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.008	0.10			4/28/11 11:59:00	N I
03672-001	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.008	0.10			4/28/11 12:30:00	N II
03677-001	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	2	0.008	0.20			4/28/11 12:15:00	N V
03677-001	Chloride	N/A		Water	5.60 mg/L	5 mL	5.60 mg/L	2	0.06	0.40			4/28/11 12:15:00	N V
03677-001	Fluoride	N/A		Water	0.10 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			4/28/11 12:15:00	N V
03677-001	Nitrate as Nitrogen	N/A		Water	2.41 mg/L	5 mL	2.41 mg/L	2	0.008	0.10			4/28/11 12:15:00	N V
03677-001	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			4/28/11 12:15:00	N V
03677-001	Sulfate	N/A		Water	11.58 mg/L	5 mL	11.6 mg/L	2	0.02	0.40			4/28/11 12:15:00	N V
1103816-01	Bromide	MS	K1103677-001	Water	3.81 mg/L	5 mL	3.81 mg/L	2	0.008	0.20	95		4/28/11 14:49:00	N V
1103816-01	Chloride	MS	K1103677-001	Water	9.69 mg/L	5 mL	9.69 mg/L	2	0.06	0.40	102		4/28/11 14:49:00	N V
1103816-01	Fluoride	MS	K1103677-001	Water	4.19 mg/L	5 mL	4.19 mg/L	2	0.006	0.40	105		4/28/11 14:49:00	N V
1103816-01	Nitrate as Nitrogen	MS	K1103677-001	Water	6.45 mg/L	5 mL	6.45 mg/L	2	0.008	0.10	101		4/28/11 14:49:00	N V

icates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-1C-03 **Analyst:** NBAKOTICH **Analysis Lot:** 241087 **Method/Testcode:** 300.0/N/O2

<u>ID Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC? Tier</u>
1103816-01	Nitrite as Nitrogen	MS	K1103677-001	Water	4.04 mg/L	5 mL	4.04 mg/L	2	0.004	0.10	101		4/28/11 14:49:00	N V
1103816-01	Sulfate	MS	K1103677-001	Water	16.08 mg/L	5 mL	16.1 mg/L	2	0.02	0.40	113		4/28/11 14:49:00	N V
1103816-02	Bromide	DMS	K1103677-001	Water	3.85 mg/L	5 mL	3.85 mg/L	2	0.008	0.20	96	1	4/28/11 15:05:00	N V
1103816-02	Chloride	DMS	K1103677-001	Water	9.72 mg/L	5 mL	9.72 mg/L	2	0.06	0.40	103	<1	4/28/11 15:05:00	N V
1103816-02	Fluoride	DMS	K1103677-001	Water	4.23 mg/L	5 mL	4.23 mg/L	2	0.006	0.40	106	<1	4/28/11 15:05:00	N V
1103816-02	Nitrate as Nitrogen	DMS	K1103677-001	Water	6.44 mg/L	5 mL	6.44 mg/L	2	0.008	0.10	101	<1	4/28/11 15:05:00	N V
1103816-02	Nitrite as Nitrogen	DMS	K1103677-001	Water	4.08 mg/L	5 mL	4.08 mg/L	2	0.004	0.10	102	<1	4/28/11 15:05:00	N V
1103816-02	Sulfate	DMS	K1103677-001	Water	16.17 mg/L	5 mL	16.2 mg/L	2	0.02	0.40	115	<1	4/28/11 15:05:00	N V
1103816-03	Bromide	DUP	K1103677-001	Water	0.00 mg/L	5 mL	0.20 mg/L	2	0.008	0.20		NC	4/28/11 14:34:00	N V
1103816-03	Chloride	DUP	K1103677-001	Water	5.48 mg/L	5 mL	5.48 mg/L	2	0.06	0.40		2	4/28/11 14:34:00	N V
1103816-03	Fluoride	DUP	K1103677-001	Water	0.08 mg/L	5 mL	0.08 mg/L	2	0.006	0.40		NC	4/28/11 14:34:00	N V
1103816-03	Nitrate as Nitrogen	DUP	K1103677-001	Water	2.43 mg/L	5 mL	2.43 mg/L	2	0.008	0.10		<1	4/28/11 14:34:00	N V
1103816-03	Nitrite as Nitrogen	DUP	K1103677-001	Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10		NC	4/28/11 14:34:00	N V
1103816-03	Sulfate	DUP	K1103677-001	Water	11.60 mg/L	5 mL	11.6 mg/L	2	0.02	0.40		<1	4/28/11 14:34:00	N V
1103816-04	Bromide	LCS		Water	3.66 mg/L	5 mL	3.66 mg/L	2	0.008	0.20	92		4/28/11 10:26:00	N V
1103816-04	Chloride	LCS		Water	4.59 mg/L	5 mL	4.59 mg/L	1	0.03	0.20	92		4/28/11 09:07:00	N V
1103816-04	Fluoride	LCS		Water	10.67 mg/L	5 mL	10.7 mg/L	2	0.006	0.40	97		4/28/11 10:26:00	N V
1103816-04	Nitrate as Nitrogen	LCS		Water	15.40 mg/L	5 mL	15.4 mg/L	5	0.02	0.25	101		4/28/11 08:52:00	N V
1103816-04	Nitrite as Nitrogen	LCS		Water	100.27 mg/L	5 mL	100 mg/L	25	0.05	1.3	100		4/28/11 08:21:00	N V
1103816-04	Sulfate	LCS		Water	4.55 mg/L	5 mL	4.55 mg/L	1	0.01	0.20	91		4/28/11 09:07:00	N V
1103816-05	Bromide	MB		Water	0.00 mg/L	5 mL	0.10 mg/L	1	0.004	0.10			4/28/11 08:37:00	N V
1103816-05	Chloride	MB		Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.03	0.20			4/28/11 08:37:00	N V
1103816-05	Fluoride	MB		Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.003	0.20			4/28/11 08:37:00	N V
1103816-05	Nitrate as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.004	0.050			4/28/11 08:37:00	N V
1103816-05	Nitrite as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.002	0.050			4/28/11 08:37:00	N V
1103816-05	Sulfate	MB		Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.01	0.20			4/28/11 08:37:00	N V
1103816-06	Chloride	MS	K1103668-004	Water	2531.83 mg/L	5 mL	2530 mg/L	500	20	100	86		4/28/11 21:00:00	N V
1103816-07	Chloride	DMS	K1103668-004	Water	2527.49 mg/L	5 mL	2530 mg/L	500	20	100	85	<1	4/28/11 21:16:00	N V
1103816-08	Chloride	DUP	K1103668-004	Water	1624.79 mg/L	5 mL	1620 mg/L	200	6	40	3		4/28/11 20:45:00	N V
1103816-09	Bromide	CCV		Water	2.36 mg/L	5 mL	2.36 mg/L	1					4/28/11 07:50:00	N V
1103816-09	Chloride	CCV		Water	4.74 mg/L	5 mL	4.74 mg/L	1					4/28/11 07:50:00	N V
1103816-09	Fluoride	CCV		Water	5.21 mg/L	5 mL	5.21 mg/L	1					4/28/11 07:50:00	N V
1103816-09	Nitrate as Nitrogen	CCV		Water	2.35 mg/L	5 mL	2.35 mg/L	1					4/28/11 07:50:00	N V
1103816-09	Nitrite as Nitrogen	CCV		Water	2.54 mg/L	5 mL	2.54 mg/L	1					4/28/11 07:50:00	N V
1103816-09	Sulfate	CCV		Water	4.72 mg/L	5 mL	4.72 mg/L	1					4/28/11 07:50:00	N V

Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03 **Analyst:** NBAKOTICH **Analysis Lot:** 244087 **Method/Testcode:** 300.0/Br

<u>ID Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC? Tier</u>
1103816-10	Bromide	CCV		Water	2.29 mg/L	5 mL	2.29 mg/L	1					4/28/11 10:57:00	N II
1103816-10	Chloride	CCV		Water	4.55 mg/L	5 mL	4.55 mg/L	1					4/28/11 10:57:00	N II
1103816-10	Fluoride	CCV		Water	5.08 mg/L	5 mL	5.08 mg/L	1					4/28/11 10:57:00	N II
1103816-10	Nitrate as Nitrogen	CCV		Water	2.27 mg/L	5 mL	2.27 mg/L	1					4/28/11 10:57:00	N II
1103816-10	Nitrite as Nitrogen	CCV		Water	2.49 mg/L	5 mL	2.49 mg/L	1					4/28/11 10:57:00	N II
1103816-10	Sulfate	CCV		Water	4.59 mg/L	5 mL	4.59 mg/L	1					4/28/11 10:57:00	N II
1103816-11	Bromide	CCV		Water	2.34 mg/L	5 mL	2.34 mg/L	1					4/28/11 14:03:00	N II
1103816-11	Chloride	CCV		Water	4.68 mg/L	5 mL	4.68 mg/L	1					4/28/11 14:03:00	N II
1103816-11	Fluoride	CCV		Water	5.21 mg/L	5 mL	5.21 mg/L	1					4/28/11 14:03:00	N II
1103816-11	Nitrate as Nitrogen	CCV		Water	2.32 mg/L	5 mL	2.32 mg/L	1					4/28/11 14:03:00	N II
1103816-11	Nitrite as Nitrogen	CCV		Water	2.53 mg/L	5 mL	2.53 mg/L	1					4/28/11 14:03:00	N II
1103816-11	Sulfate	CCV		Water	4.68 mg/L	5 mL	4.68 mg/L	1					4/28/11 14:03:00	N II
1103816-12	Bromide	CCV		Water	2.36 mg/L	5 mL	2.36 mg/L	1					4/28/11 17:08:00	N II
1103816-12	Chloride	CCV		Water	4.72 mg/L	5 mL	4.72 mg/L	1					4/28/11 17:08:00	N II
1103816-12	Fluoride	CCV		Water	5.21 mg/L	5 mL	5.21 mg/L	1					4/28/11 17:08:00	N II
1103816-12	Nitrate as Nitrogen	CCV		Water	2.34 mg/L	5 mL	2.34 mg/L	1					4/28/11 17:08:00	N II
1103816-12	Nitrite as Nitrogen	CCV		Water	2.54 mg/L	5 mL	2.54 mg/L	1					4/28/11 17:08:00	N II
1103816-12	Sulfate	CCV		Water	4.71 mg/L	5 mL	4.71 mg/L	1					4/28/11 17:08:00	N II
1103816-13	Bromide	CCV		Water	2.34 mg/L	5 mL	2.34 mg/L	1					4/28/11 20:14:00	N II
1103816-13	Chloride	CCV		Water	4.69 mg/L	5 mL	4.69 mg/L	1					4/28/11 20:14:00	N II
1103816-13	Fluoride	CCV		Water	5.23 mg/L	5 mL	5.23 mg/L	1					4/28/11 20:14:00	N II
1103816-13	Nitrate as Nitrogen	CCV		Water	2.31 mg/L	5 mL	2.31 mg/L	1					4/28/11 20:14:00	N II
1103816-13	Nitrite as Nitrogen	CCV		Water	2.53 mg/L	5 mL	2.53 mg/L	1					4/28/11 20:14:00	N II
1103816-13	Sulfate	CCV		Water	4.66 mg/L	5 mL	4.66 mg/L	1					4/28/11 20:14:00	N II
1103816-14	Bromide	CCV		Water	2.33 mg/L	5 mL	2.33 mg/L	1					4/28/11 23:20:00	N II
1103816-14	Chloride	CCV		Water	4.67 mg/L	5 mL	4.67 mg/L	1					4/28/11 23:20:00	N II
1103816-14	Fluoride	CCV		Water	5.19 mg/L	5 mL	5.19 mg/L	1					4/28/11 23:20:00	N II
1103816-14	Nitrate as Nitrogen	CCV		Water	2.33 mg/L	5 mL	2.33 mg/L	1					4/28/11 23:20:00	N II
1103816-14	Nitrite as Nitrogen	CCV		Water	2.51 mg/L	5 mL	2.51 mg/L	1					4/28/11 23:20:00	N II
1103816-14	Sulfate	CCV		Water	4.66 mg/L	5 mL	4.66 mg/L	1					4/28/11 23:20:00	N II
1103816-15	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L U	1	0.10	0.10			4/28/11 08:06:00	N II
1103816-15	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 08:06:00	N II
1103816-15	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 08:06:00	N II
1103816-15	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 08:06:00	N II

Heates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03 Analyst: NBAKOTICH Analysis Lot: 244087 Method/Testcode: 300.0/NO2

b Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
1103816-15	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 08:06:00	N II
1103816-15	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 08:06:00	N II
1103816-16	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L U	1	0.10	0.10			4/28/11 11:13:00	N II
1103816-16	Chloride	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 11:13:00	N II
1103816-16	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 11:13:00	N II
1103816-16	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 11:13:00	N II
1103816-16	Sulfate	CCB		Water	0.02 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 11:13:00	N II
1103816-17	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L U	1	0.10	0.10			4/28/11 14:18:00	N II
1103816-17	Chloride	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 14:18:00	N II
1103816-17	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 14:18:00	N II
1103816-17	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 14:18:00	N II
1103816-17	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 14:18:00	N II
1103816-17	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 14:18:00	N II
1103816-18	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L U	1	0.10	0.10			4/28/11 17:24:00	N II
1103816-18	Chloride	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 17:24:00	N II
1103816-18	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 17:24:00	N II
1103816-18	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 17:24:00	N II
1103816-18	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 17:24:00	N II
1103816-18	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 17:24:00	N II
1103816-19	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L U	1	0.10	0.10			4/28/11 20:29:00	N II
1103816-19	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 20:29:00	N II
1103816-19	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 20:29:00	N II
1103816-19	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 20:29:00	N II
1103816-19	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 20:29:00	N II
1103816-19	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 20:29:00	N II
1103816-20	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L U	1	0.10	0.10			4/28/11 23:35:00	N II
1103816-20	Chloride	CCB		Water	0.05 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 23:35:00	N II
1103816-20	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 23:35:00	N II
1103816-20	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 23:35:00	N II
1103816-20	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/28/11 23:35:00	N II
1103816-20	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/28/11 23:35:00	N II

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
3564-7					F			
					Cl			
					NO2			
					Br			
					NO3	2.5/5		✓
					SO4		0.1/5	
-2					F			
					Cl			
					NO2			
					Br			
					NO3	✓		✓
					SO4			
3574-6					F			
					Cl	11/10/07-2.5/5		
					NO2			
					Br			
					NO3			
					SO4	0.25/5		
-7					F			
					Cl	11/10/07-2.5/5		
					NO2			
					Br			
					NO3			
					SO4	0.25/5		
3666-1					F	2.5/5		✓
					Cl			✓
					NO2			
					Br			
					NO3			
					SO4		0.25/5	
-2					F			
					Cl			
					NO2			
					Br			
					NO3	✓		✓
					SO4			
3670-1					F			
					Cl			
					NO2			
					Br			
					NO3	✓		✓
					SO4			
3677-1		R			F			✓
					Cl			✓
					NO2			✓
					Br			✓
					NO3			✓
					SO4			✓
3678-1	11				F			
					Cl			
					NO2			
					Br			
					NO3	✓	0.25/5	✓ ✓
					SO4			
3688-1					F	11/10/07		
					Cl	11/10/07-2.5/5		
					NO2			
					Br			
					NO3			
					SO4			

Service Request	Hier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
3668-2					F			
					Cl	1/100 → 2.5/5		
					NO2			
					Br			
					NO3			
-3					SO4			
					F			
					Cl			
					NO2			
					Br			
-4					NO3			
					SO4			
					F			
					Cl	↓		
					NO2			
MS/MSD @ 2000					Br			
					NO3			
					SO4			
					F			
					Cl	1/100 → 0.25/5		
-5					NO2			
					Br			
					NO3			
					SO4			
					F			
-6					Cl	1/100 → 2.5/5		
					NO2			
					Br			
					NO3			
					SO4			
-7					F			
					Cl	0.1/5		
					NO2			
					Br			
					NO3			
-8					SO4			
					F			
					Cl	1/100 → 0.25/5		
					NO2			
					Br			
-9					NO3			
					SO4			
					F			
					Cl	1/100 → 1/5		
					NO2			
-10					Br			
					NO3			
					SO4			
					F			
					Cl	0.1/5		
-11					NO2			
					Br			
					NO3			
					SO4			
					F			
				Cl	1/100 → 0.25/5			

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
3668-12					F			
					Cl	1/100 → 1/15		
					NO2			
					Br			
					NO3			
-13					SO4			
					F			
					Cl	1/100 → 2.5/15		
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			

Title:

Datasource: ACQWET10_local
 Location: DX120A
 Timebase: DX120
 #Samples: 71











































Created: 4/28/2011 7:39:36 AM by ACQWET10
 Last Update: 4/28/2011 5:05:21 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lv2	Standard	2	200.0	epa300(22)	epa300	Finished	4/22/2011 2:16:41 PM
2	std3/lv3	Standard	1	200.0	epa300(22)	epa300	Finished	4/22/2011 2:33:08 PM
3	std4/lv4	Standard	2	200.0	epa300(22)	epa300	Finished	4/22/2011 2:49:36 PM
4	std5/lv5	Standard	3	200.0	epa300(22)	epa300	Finished	4/22/2011 3:05:03 PM
5	std6/lv6	Standard	4	200.0	epa300(22)	epa300	Finished	4/22/2011 3:20:31 PM
6	std7/lv7	Standard	5	200.0	epa300(22)	epa300	Finished	4/22/2011 3:35:59 PM
7	std8/lv8	Standard	6	200.0	epa300(22)	epa300	Finished	4/22/2011 3:51:26 PM
8	std1/lv1	Standard	7	200.0	epa300(22)	epa300	Finished	4/22/2011 4:06:54 PM
9	CCV1 AN11-88-C	Unknown	12	200.0	epa300(22)	epa300	Finished	4/28/2011 7:50:38 AM
10	CCB1	Unknown	13	200.0	epa300(22)	epa300	Finished	4/28/2011 8:06:06 AM
11	NO2 AN11-35-HH	Unknown	13	200.0	epa300(22)	epa300	Finished	4/28/2011 8:21:33 AM
12	MB	Unknown	14	200.0	epa300(22)	epa300	Finished	4/28/2011 8:37:01 AM
13	NO3	Unknown	14	200.0	epa300(22)	epa300	Finished	4/28/2011 8:52:29 AM
14	CLSO4	Unknown	15	200.0	epa300(22)	epa300	Finished	4/28/2011 9:07:56 AM
15	K1103664-001	Unknown	16	200.0	epa300(22)	epa300	Finished	4/28/2011 9:23:24 AM
16	K1103664-002	Unknown	17	200.0	epa300(22)	epa300	Finished	4/28/2011 9:38:51 AM
17	SA10	Unknown	18	200.0	epa300(22)	epa300	Finished	4/28/2011 9:56:00 AM
18	P09	Unknown	19	200.0	epa300(22)	epa300	Finished	4/28/2011 10:11:27 AM
19	FBR	Unknown	16	200.0	epa300(22)	epa300	Finished	4/28/2011 10:26:55 AM
20	SPKCHK AN11-78-C	Unknown	17	200.0	epa300(22)	epa300	Finished	4/28/2011 10:42:22 AM
21	CCV2	Unknown	18	200.0	epa300(22)	epa300	Finished	4/28/2011 10:57:50 AM
22	CCB2	Unknown	18	200.0	epa300(22)	epa300	Finished	4/28/2011 11:13:19 AM
23	K1103666-001	Unknown	19	200.0	epa300(22)	epa300	Finished	4/28/2011 11:28:47 AM
24	K1103666-002	Unknown	20	200.0	epa300(22)	epa300	Finished	4/28/2011 11:44:14 AM
25	K1103670-001	Unknown	27	200.0	epa300(22)	epa300	Finished	4/28/2011 11:59:42 AM
26	K1103677-001	Unknown	28	200.0	epa300(22)	epa300	Finished	4/28/2011 12:15:10 PM
27	K1103672-001	Unknown	29	200.0	epa300(22)	epa300	Finished	4/28/2011 12:30:38 PM
28	K1103574-006	Unknown	30	200.0	epa300(22)	epa300	Finished	4/28/2011 12:46:06 PM
29	K1103574-007	Unknown	31	200.0	epa300(22)	epa300	Finished	4/28/2011 1:01:34 PM
30	3574-8	Unknown	32	200.0	epa300(22)	epa300	Finished	4/28/2011 1:17:01 PM
31	3574-9	Unknown	33	200.0	epa300(22)	epa300	Finished	4/28/2011 1:32:29 PM
32	RB	Unknown	34	200.0	epa300(22)	epa300	Finished	4/28/2011 1:47:57 PM
33	CCV3	Unknown	35	200.0	epa300(22)	epa300	Finished	4/28/2011 2:03:25 PM
34	CCB3	Unknown	36	200.0	epa300(22)	epa300	Finished	4/28/2011 2:18:52 PM
35	3677-1D	Unknown	37	200.0	epa300(22)	epa300	Finished	4/28/2011 2:34:20 PM
36	3677-1S	Unknown	38	200.0	epa300(22)	epa300	Finished	4/28/2011 2:49:48 PM
37	3677-1SD	Unknown	39	200.0	epa300(22)	epa300	Finished	4/28/2011 3:05:15 PM
38	K1103668-004	Unknown	40	200.0	epa300(22)	epa300	Finished	4/28/2011 3:20:43 PM
39	K1103668-001	Unknown	41	200.0	epa300(22)	epa300	Finished	4/28/2011 3:36:11 PM
40	K1103668-002	Unknown	42	200.0	epa300(22)	epa300	Finished	4/28/2011 3:51:39 PM
41	K1103668-003	Unknown	43	200.0	epa300(22)	epa300	Finished	4/28/2011 4:07:06 PM
42	K1103668-005	Unknown	44	200.0	epa300(22)	epa300	Finished	4/28/2011 4:22:34 PM

Sequence: IC03042811(22)
Operator: nbakotich

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 71

Created: 4/28/2011 7:39:36 AM by ACQWET10
Last Update: 4/28/2011 5:05:21 PM by ACQWET10

No.	Name	Dil. Factor	Comment
1	 std2/lvl2	1.0000	
2	 std3/lvl3	1.0000	
3	 std4/lvl4	1.0000	
4	 std5/lvl5	1.0000	
5	 std6/lvl6	1.0000	
6	 std7/lvl7	1.0000	
7	 std8/lvl8	1.0000	
8	 std1/lvl1	1.0000	
9	 CCV1 AN11-88-C	1.0000	
10	 CCB1	1.0000	
11	 NO2 AN11-35-HH	25.0000	
12	 MB	1.0000	
13	 NO3	5.0000	
14	 CLSO4	1.0000	
15	 K1103664-001	2.0000	
16	 K1103664-002	2.0000	
17	 SA10	2.0000	
18	 P09	50.0000	
19	 FBR	2.0000	
20	 SPKCHK AN11-78-C	1.0000	
21	 CCV2	1.0000	
22	 CCB2	1.0000	
23	 K1103666-001	2.0000	
24	 K1103666-002	2.0000	
25	 K1103670-001	2.0000	
26	 K1103677-001	2.0000	
27	 K1103672-001	2.0000	
28	 K1103574-006	200.0000	
29	 K1103574-007	200.0000	
30	 3574-8	2.0000	CHK
31	 3574-9	2.0000	CHK
32	 RB	1.0000	
33	 CCV3	1.0000	CCV3
34	 CCB3	1.0000	CCB3
35	 3677-1D	2.0000	D
36	 3677-1S	2.0000	MS
37	 3677-1SD	2.0000	MSD
38	 K1103668-004	200.0000	
39	 K1103668-001	2.0000	
40	 K1103668-002	200.0000	
41	 K1103668-003	200.0000	
42	 K1103668-005	2000.0000	






























Sequence: IC03042811(22)
Operator: nbakotich

Page 3 of 4
Printed: 4/29/2011 10:47:33 AM

Title:

Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 71

Created: 4/28/2011 7:39:36 AM by ACQWET10
Last Update: 4/28/2011 5:05:21 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	 K1103668-006	Unknown	45	200.0	epa300(22)	epa300	Finished	4/28/2011 4:38:01 PM
44	 RB	Unknown	46	200.0	epa300(22)	epa300	Finished	4/28/2011 4:53:30 PM
45	 CCV4	Unknown	47	200.0	epa300(22)	epa300	Finished	4/28/2011 5:08:57 PM
46	 CCB4	Unknown	48	200.0	epa300(22)	epa300	Finished	4/28/2011 5:24:25 PM
47	 K1103668-007	Unknown	49	200.0	epa300(22)	epa300	Finished	4/28/2011 5:39:53 PM
48	 K1103668-008	Unknown	50	200.0	epa300(22)	epa300	Finished	4/28/2011 5:55:21 PM
49	 K1103668-009	Unknown	51	200.0	epa300(22)	epa300	Finished	4/28/2011 6:10:49 PM
50	 K1103668-010	Unknown	52	200.0	epa300(22)	epa300	Finished	4/28/2011 6:26:17 PM
51	 K1103668-011	Unknown	53	200.0	epa300(22)	epa300	Finished	4/28/2011 6:41:44 PM
52	 K1103668-012	Unknown	54	200.0	epa300(22)	epa300	Finished	4/28/2011 6:57:12 PM
53	 K1103668-013	Unknown	55	200.0	epa300(22)	epa300	Finished	4/28/2011 7:12:40 PM
54	 K1103672-001	Unknown	56	200.0	epa300(22)	epa300	Finished	4/28/2011 7:28:07 PM
55	 K1103666-001	Unknown	57	200.0	epa300(22)	epa300	Finished	4/28/2011 7:43:35 PM
56	 RB	Unknown	58	200.0	epa300(22)	epa300	Finished	4/28/2011 7:59:03 PM
57	 CCV5	Unknown	59	200.0	epa300(22)	epa300	Finished	4/28/2011 8:14:30 PM
58	 CCB5	Unknown	60	200.0	epa300(22)	epa300	Finished	4/28/2011 8:29:58 PM
59	 3668-4D	Unknown	61	200.0	epa300(22)	epa300	Finished	4/28/2011 8:45:26 PM
60	 3668-4S	Unknown	62	200.0	epa300(22)	epa300	Finished	4/28/2011 9:00:54 PM
61	 3668-4SD	Unknown	63	200.0	epa300(22)	epa300	Finished	4/28/2011 9:16:21 PM
62	 K1103574-006	Unknown	64	200.0	epa300(22)	epa300	Finished	4/28/2011 9:31:49 PM
63	 K1103574-007	Unknown	65	200.0	epa300(22)	epa300	Finished	4/28/2011 9:47:16 PM
64	 K1103664-001	Unknown	66	200.0	epa300(22)	epa300	Finished	4/28/2011 10:02:45 PM
65	 F NO2	Unknown	67	200.0	epa300(22)	epa300	Finished	4/28/2011 10:18:13 PM
66	 RB	Unknown	68	200.0	epa300(22)	epa300	Finished	4/28/2011 10:33:41 PM
67	 RB	Unknown	69	200.0	epa300(22)	epa300	Finished	4/28/2011 10:49:08 PM
68	 RB	Unknown	70	200.0	epa300(22)	epa300	Finished	4/28/2011 11:04:36 PM
69	 CCV6	Unknown	71	200.0	epa300(22)	epa300	Finished	4/28/2011 11:20:04 PM
70	 CCB6	Unknown	72	200.0	epa300(22)	epa300	Finished	4/28/2011 11:35:32 PM
71	 STOP	Unknown	73	200.0	shutdown 120	epa300	Finished	4/28/2011 11:51:00 PM

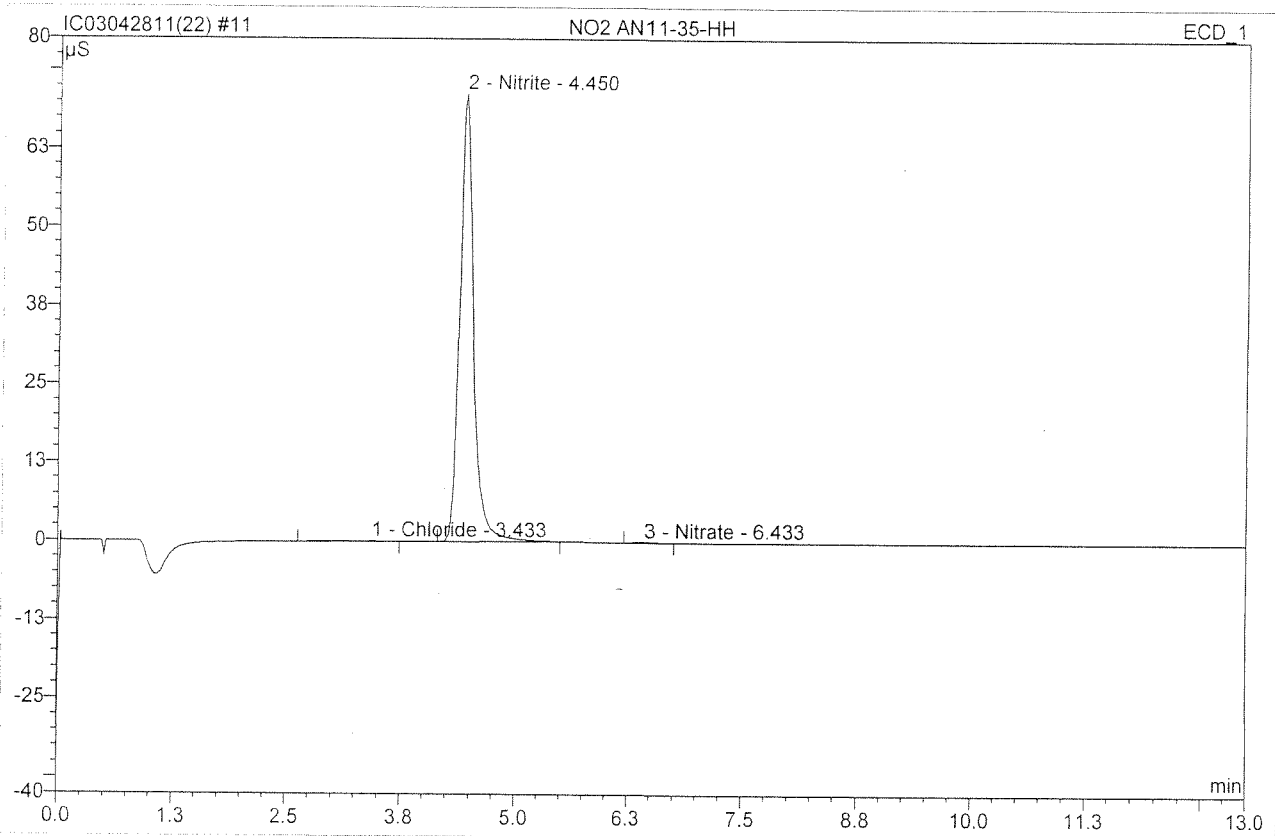
Sequence: IC03042811(22)
Operator: nbakotich

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 71

Created: 4/28/2011 7:39:36 AM by ACQWET10
Last Update: 4/28/2011 5:05:21 PM by ACQWET10

No.	Name	Dil. Factor	Comment
43	K1103668-006	200.0000	
44	RB	1.0000	
45	CCV4	1.0000	CCV4
46	CCB4	1.0000	CCB4
47	K1103668-007	50.0000	
48	K1103668-008	2000.0000	
49	K1103668-009	500.0000	
50	K1103668-010	50.0000	
51	K1103668-011	2000.0000	
52	K1103668-012	500.0000	
53	K1103668-013	200.0000	
54	K1103672-001	20.0000	
55	K1103666-001	20.0000	
56	RB	1.0000	
57	CCV5	1.0000	CCV5
58	CCB5	1.0000	CCB5
59	3668-4D	200.0000	D
60	3668-4S	500.0000	MS
61	3668-4SD	500.0000	MSD
62	K1103574-006	20.0000	
63	K1103574-007	20.0000	
64	K1103664-001	50.0000	
65	F NO2	1.0000	CHK
66	RB	1.0000	
67	RB	1.0000	
68	RB	1.0000	
69	CCV6	1.0000	CCV6
70	CCB6	1.0000	CCB6
71	STOP	1.0000	CCB6

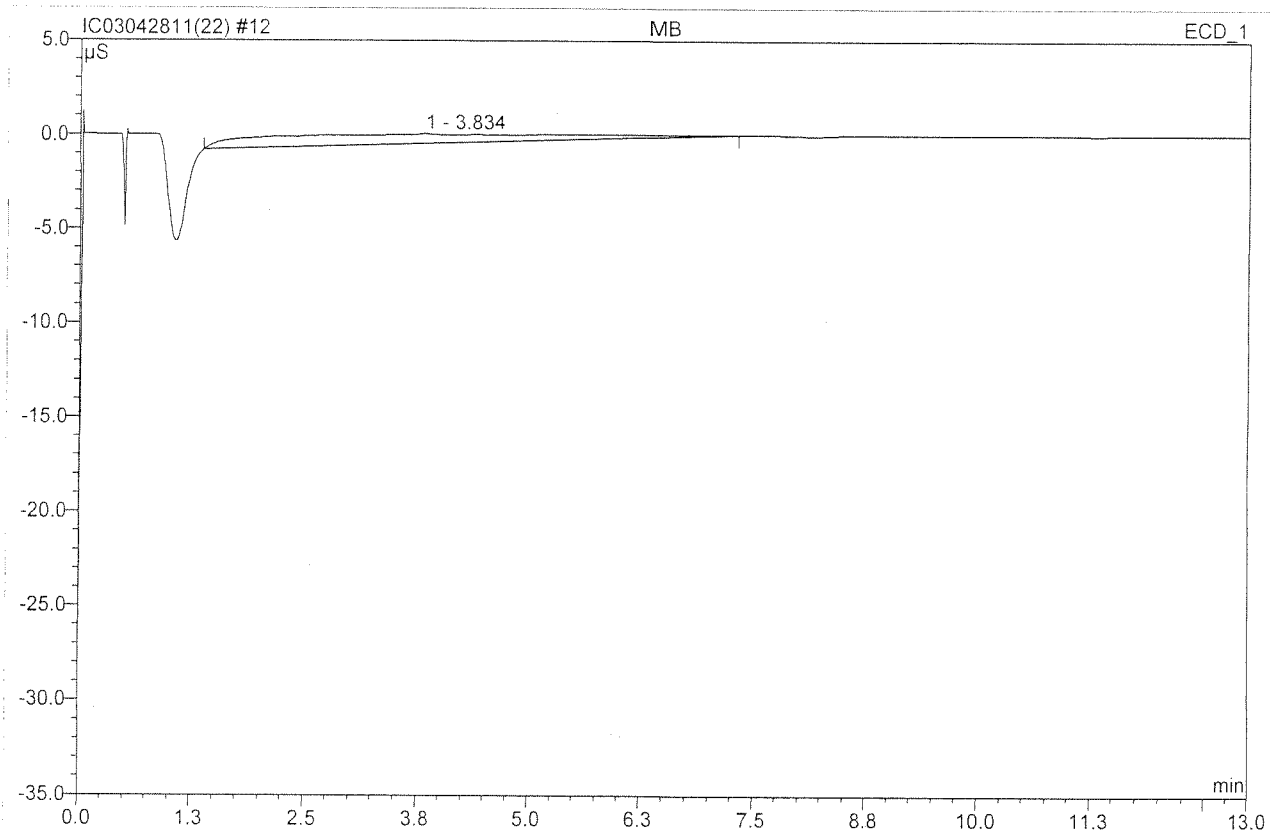
11 NO2 AN11-35-HH			
Sample Name:	NO2 AN11-35-HH	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	4/28/2011 8:21	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.43	Chloride	0.078	0.012	0.09	0.176	BMB
2	4.45	Nitrite	71.310	12.564	99.72	100.274	BMB
3	6.43	Nitrate	0.113	0.023	0.18	0.138	BMB
Total:			71.501	12.599	100.00	100.588	

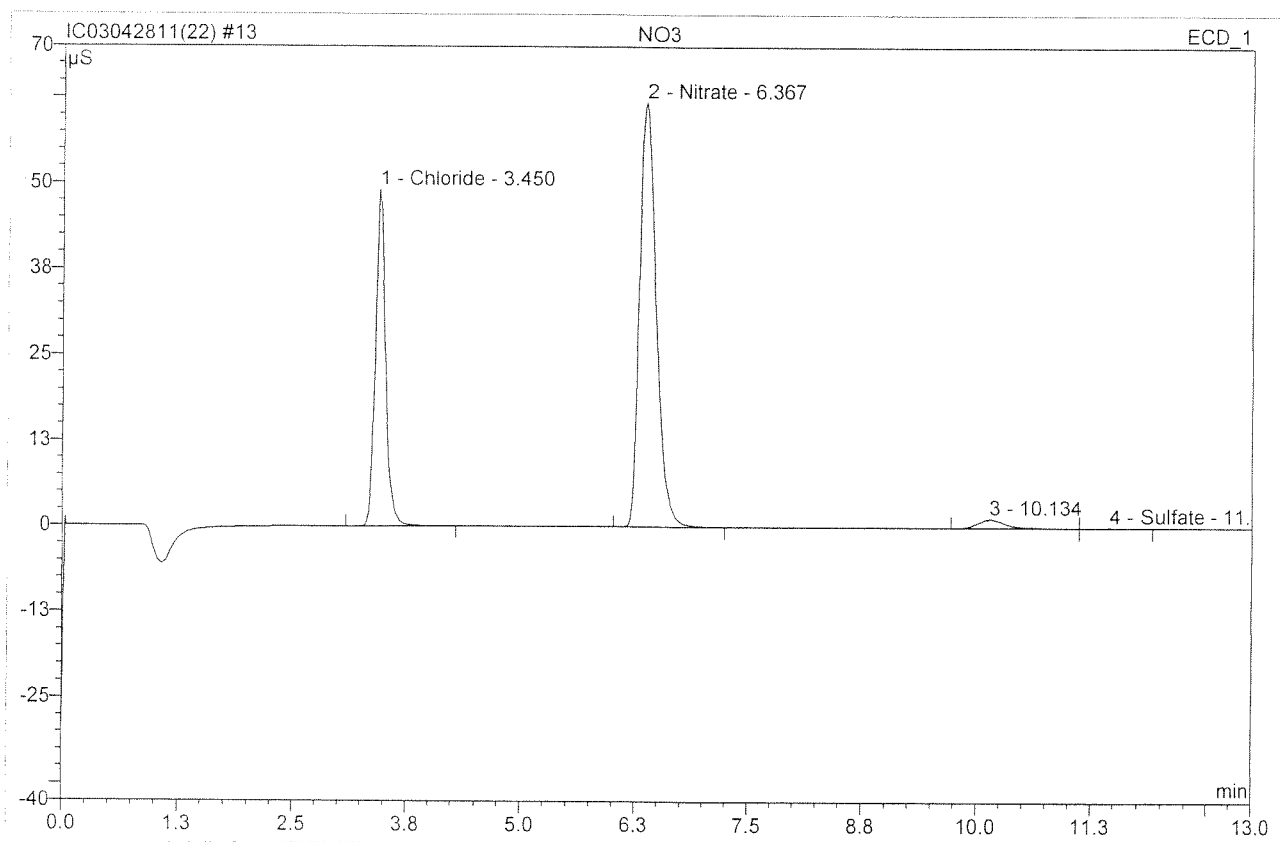
12 MB

Sample Name:	MB	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 8:37	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.83	n.a.	0.525	2.070	100.00	n.a.	BMB
Total:			0.525	2.070	100.00	0.000	

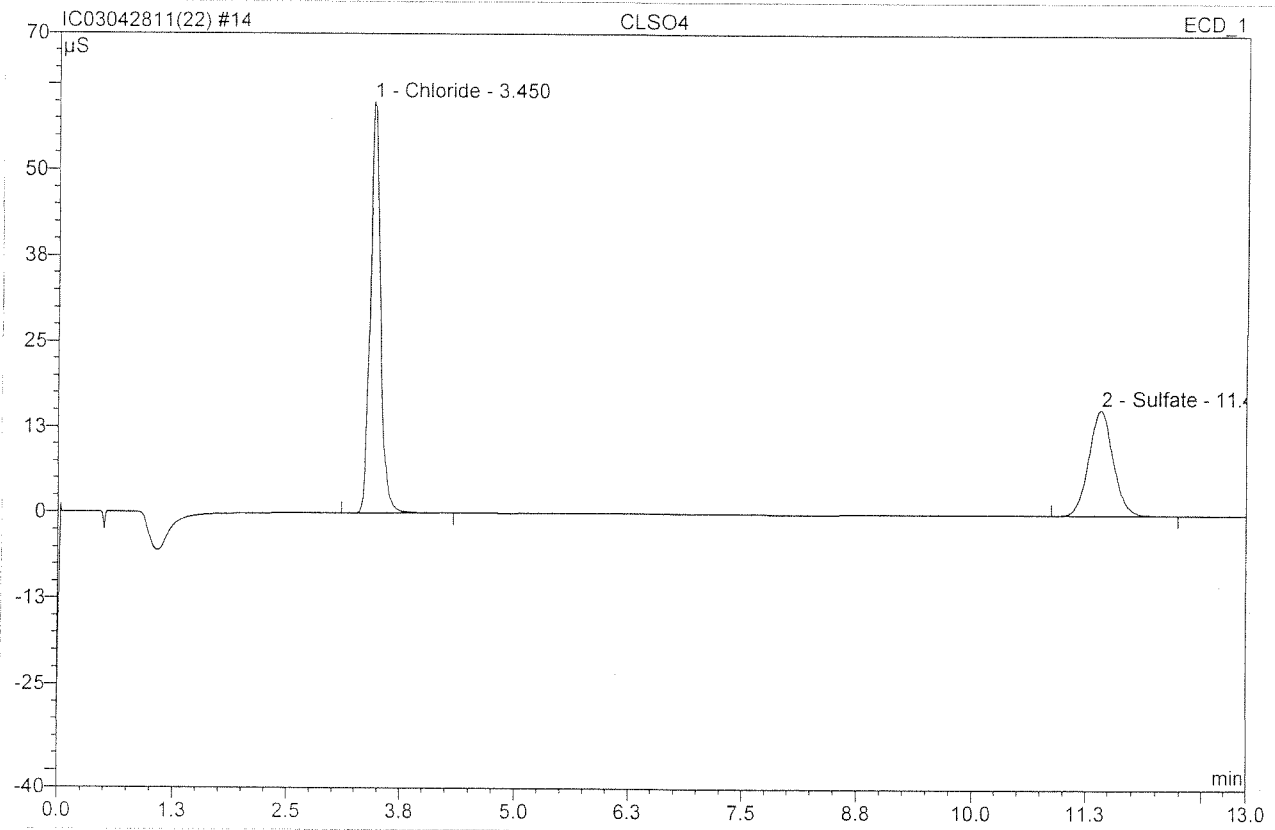
13 NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/28/2011 8:52	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	49.046	6.364	32.46	18.817	BMB
2	6.37	Nitrate	61.879	12.771	65.15	15.404	BMB
3	10.13	n.a.	1.291	0.452	2.31	n.a.	BMB
4	11.45	Sulfate	0.052	0.017	0.09	0.078	bMB
Total:			112.268	19.603	100.00	34.299	

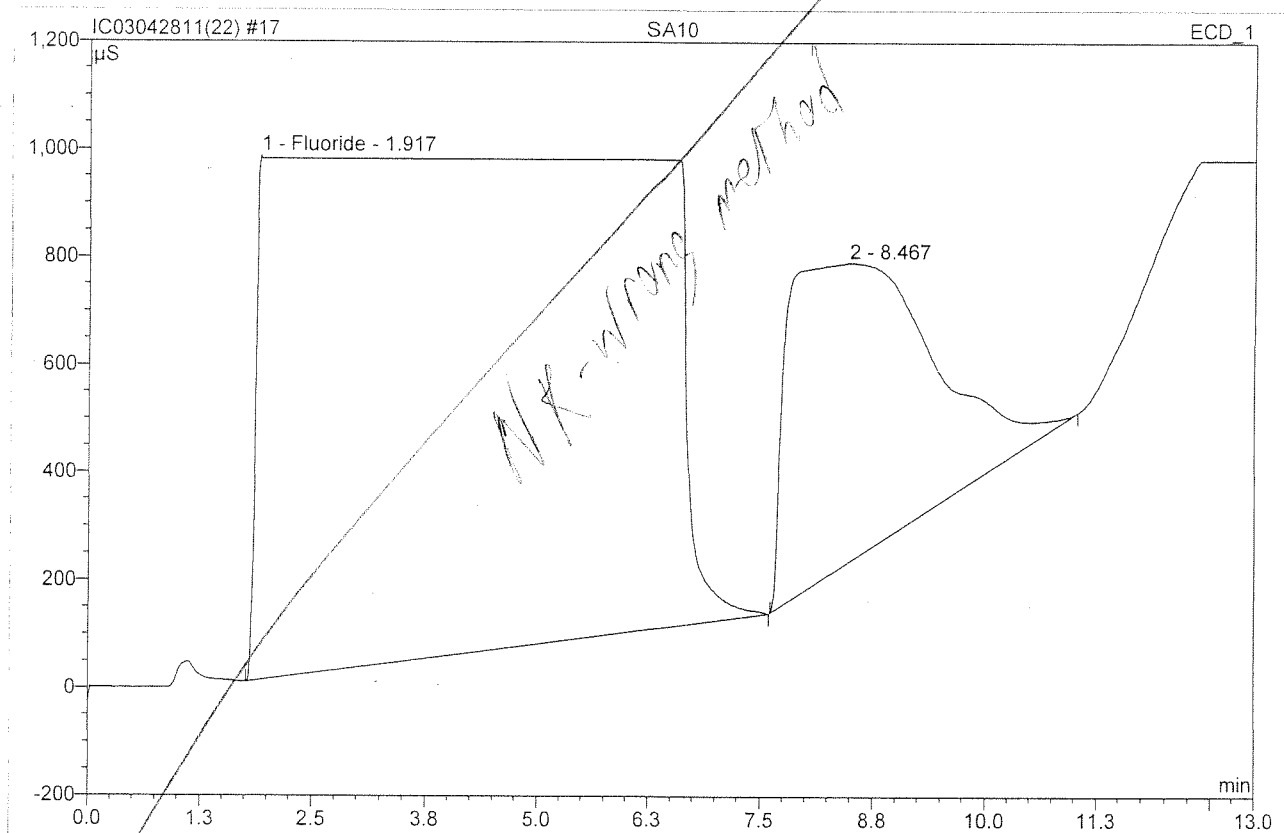
14 CLSO4

Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 9:07	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



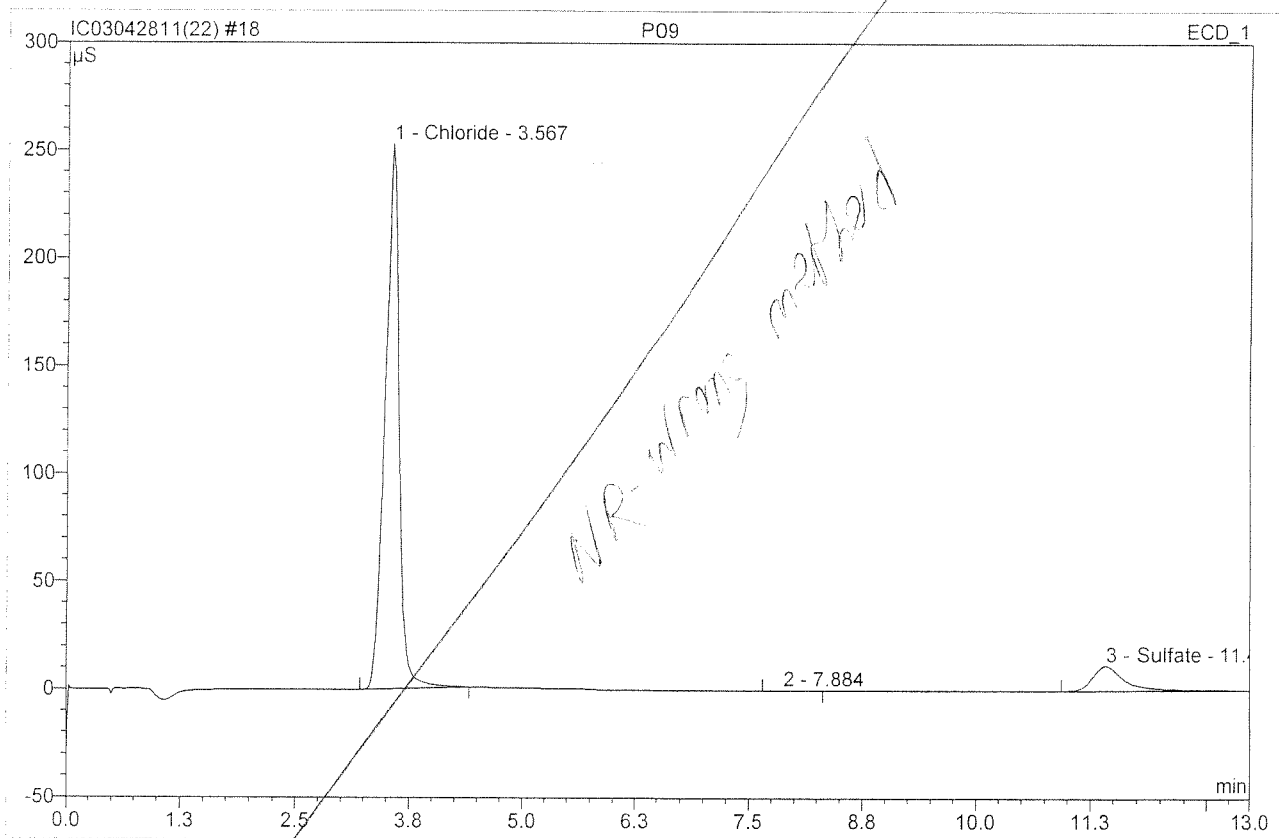
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	59.994	7.761	61.38	4.590	BMB
2	11.42	Sulfate	15.499	4.883	38.62	4.548	BMB
Total:			75.493	12.644	100.00	9.138	

17 SA10			
Sample Name:	SA10	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 9:56	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



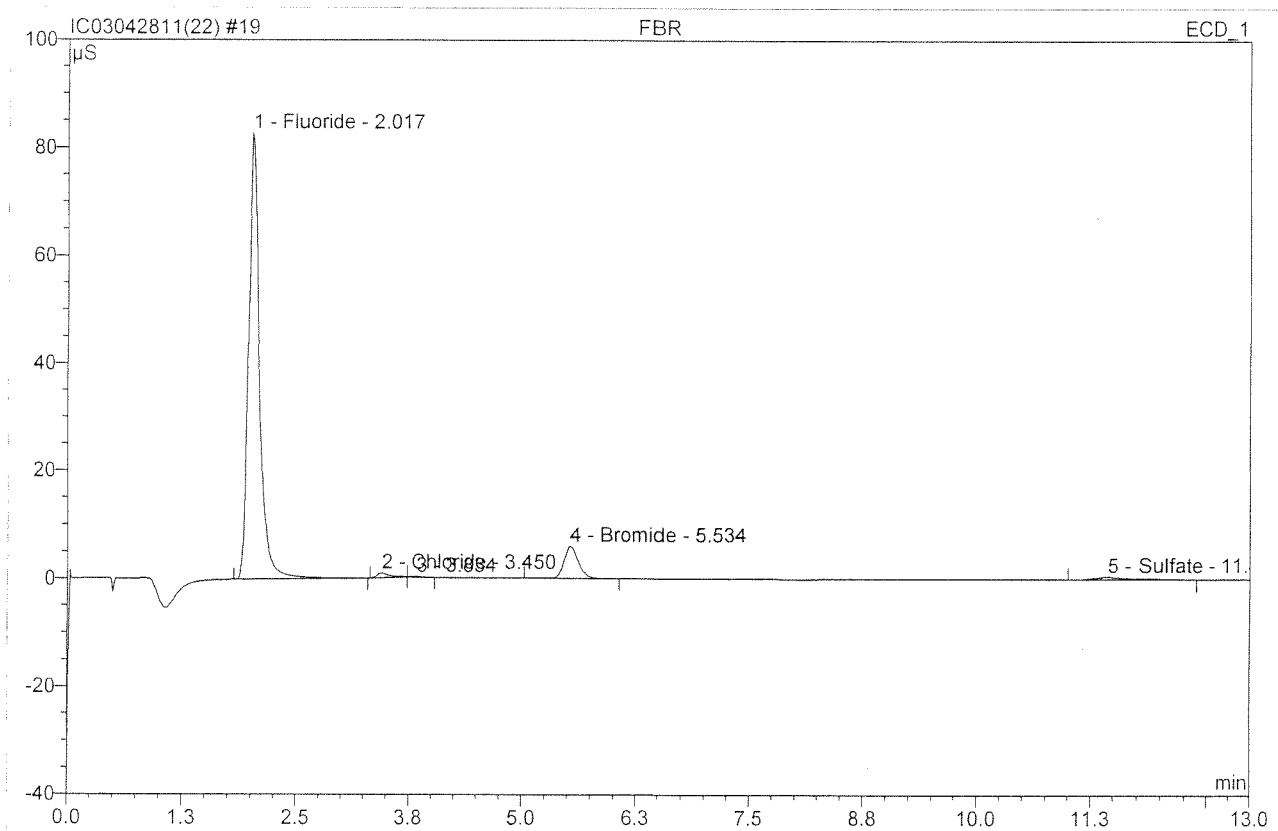
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.92	Fluoride	973.776	4438.964	81.22	4056.337	BMB
2	8.47	n.a.	556.536	1026.630	18.78	n.a.	BMB
Total:			1530.312	5465.594	100.00	4056.337	

18 P09			
Sample Name:	P09	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	50.0000
Recording Time:	4/28/2011 10:11	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.57	Chloride	252.543	44.332	90.41	1310.862	BMB
2	7.88	n.a.	0.037	0.012	0.02	n.a.	BMB
3	11.42	Sulfate	11.487	4.689	9.56	218.380	BMB
Total:			264.067	49.033	100.00	1529.242	

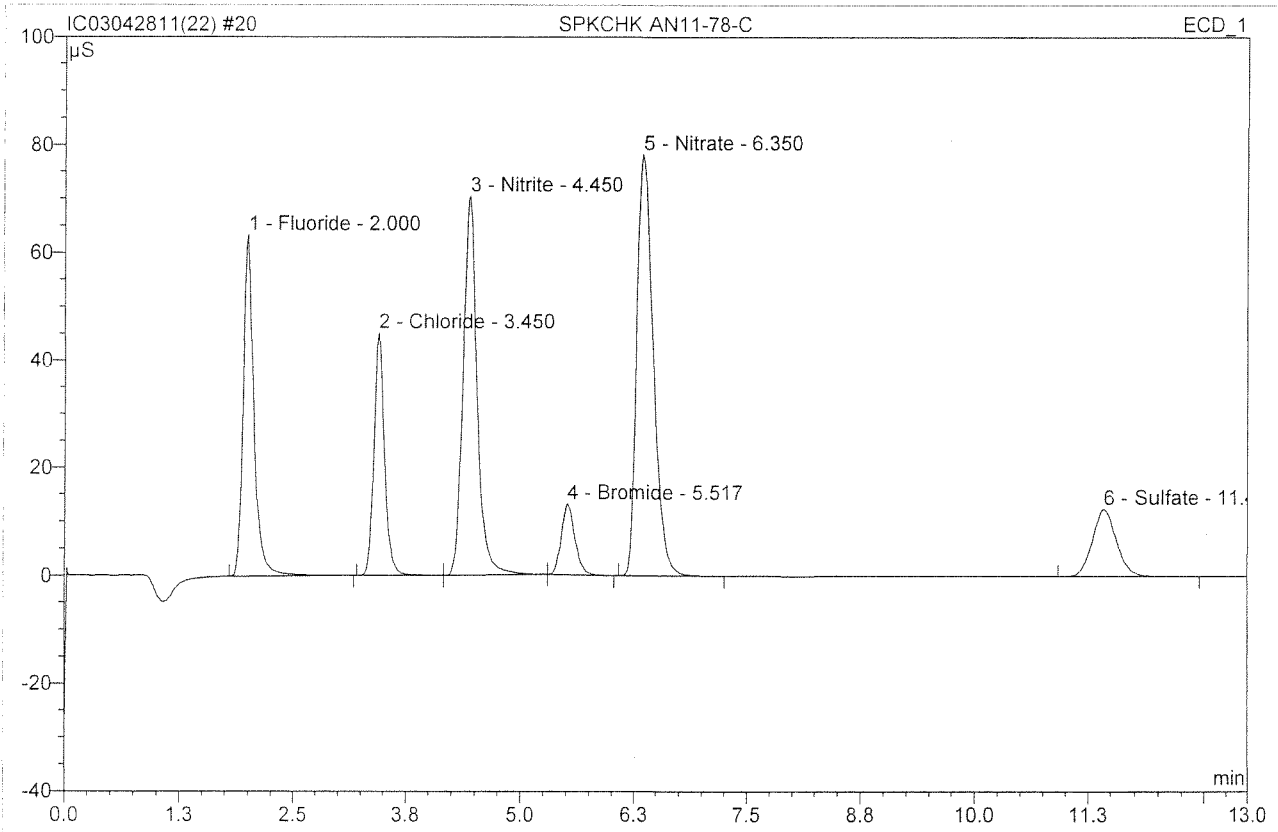
19 FBR			
Sample Name:	FBR	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/28/2011 10:26	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	82.722	11.679	89.13	10.672	BMB
2	3.45	Chloride	0.878	0.137	1.05	0.162	BMb
3	3.83	n.a.	0.076	0.010	0.08	n.a.	bMB
4	5.53	Bromide	5.929	1.083	8.26	3.663	BMB
5	11.43	Sulfate	0.465	0.194	1.48	0.362	BMB
Total:			90.071	13.104	100.00	14.859	

20 SPKCHK AN11-78-C

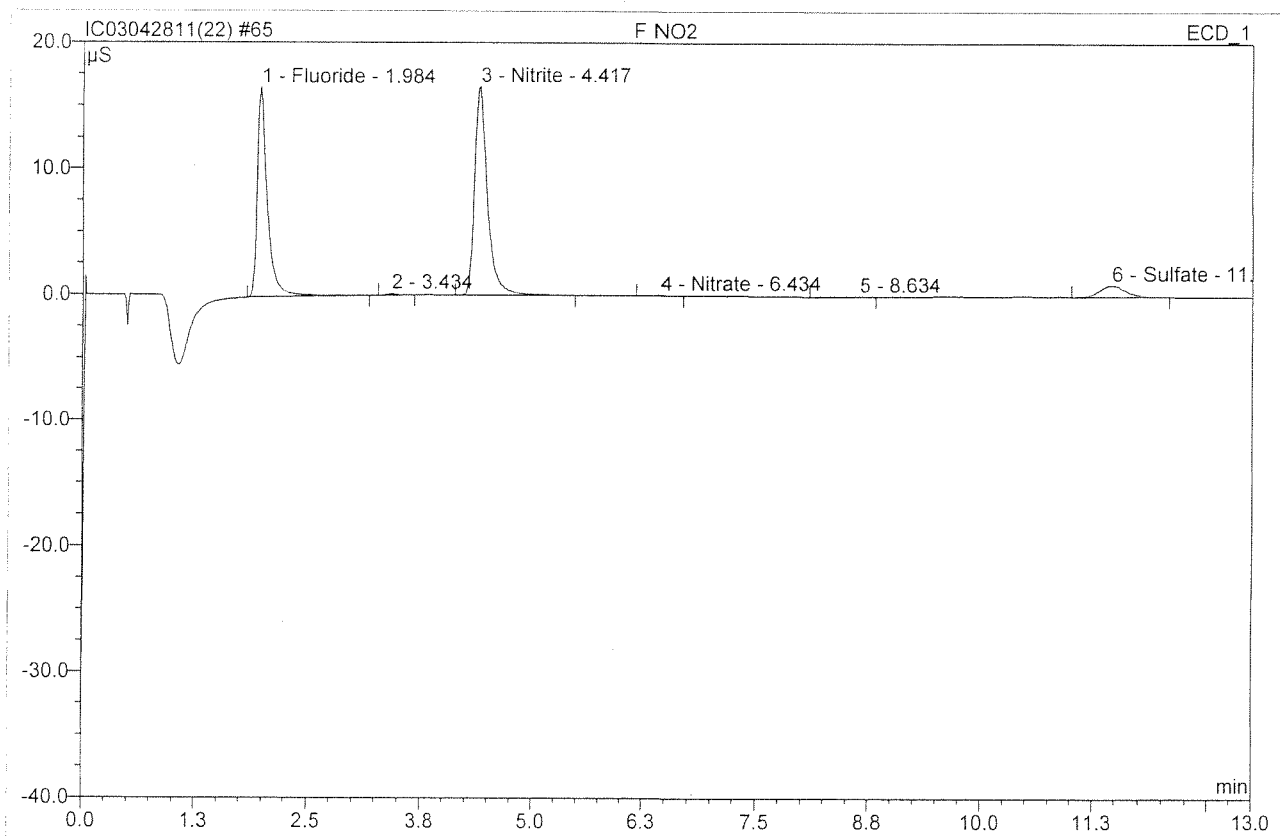
Sample Name:	SPKCHK AN11-78-C	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 10:42	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	63.408	8.883	17.80	4.059	BMB
2	3.45	Chloride	45.089	6.095	12.21	3.604	BMb
3	4.45	Nitrite	70.397	12.535	25.12	4.002	bMb
4	5.52	Bromide	13.164	2.286	4.58	3.867	bMB
5	6.35	Nitrate	78.226	16.222	32.51	3.913	BMB
6	11.42	Sulfate	12.439	3.880	7.77	3.614	BMB
Total:			282.724	49.901	100.00	23.058	

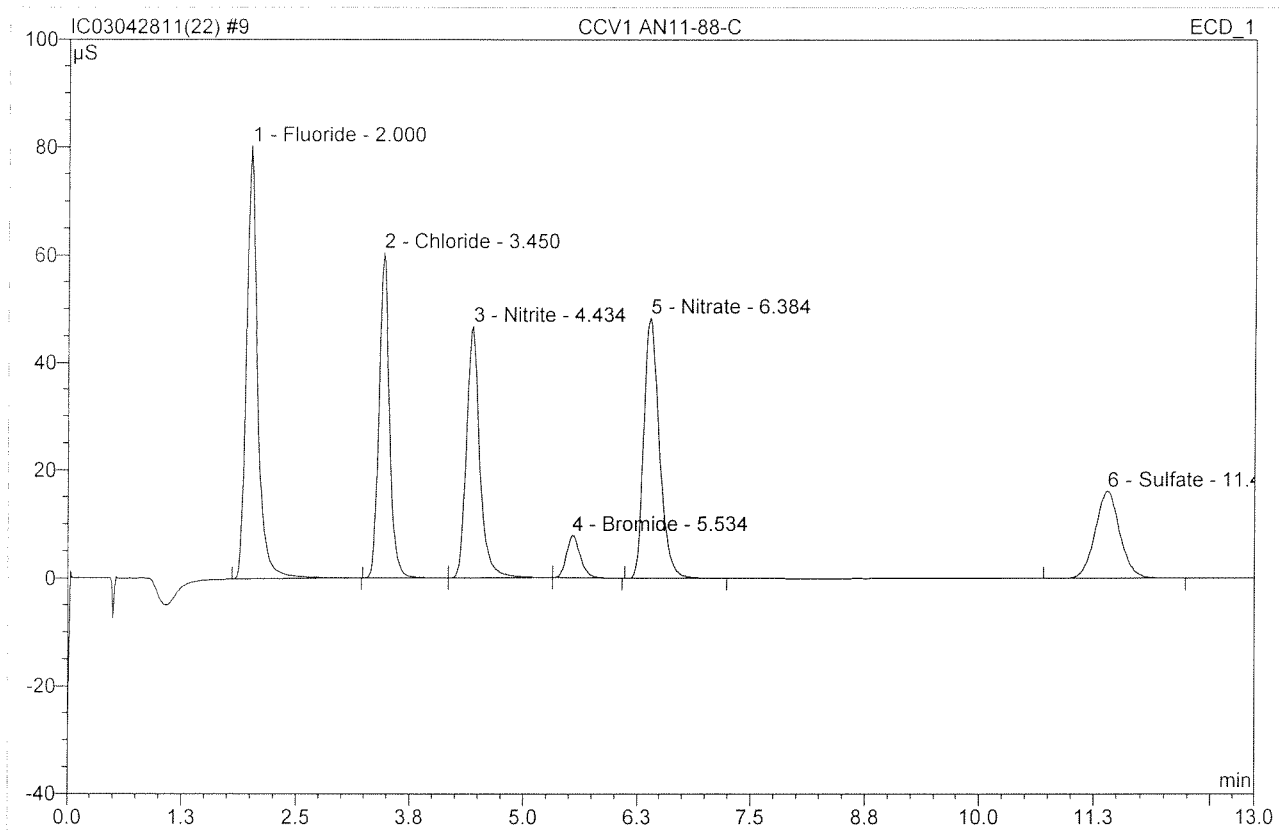
7/24.0

65 F NO2			
CHK			
Sample Name:	F NO2	Injection Volume:	200.0
Vial Number:	67	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 22:18	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



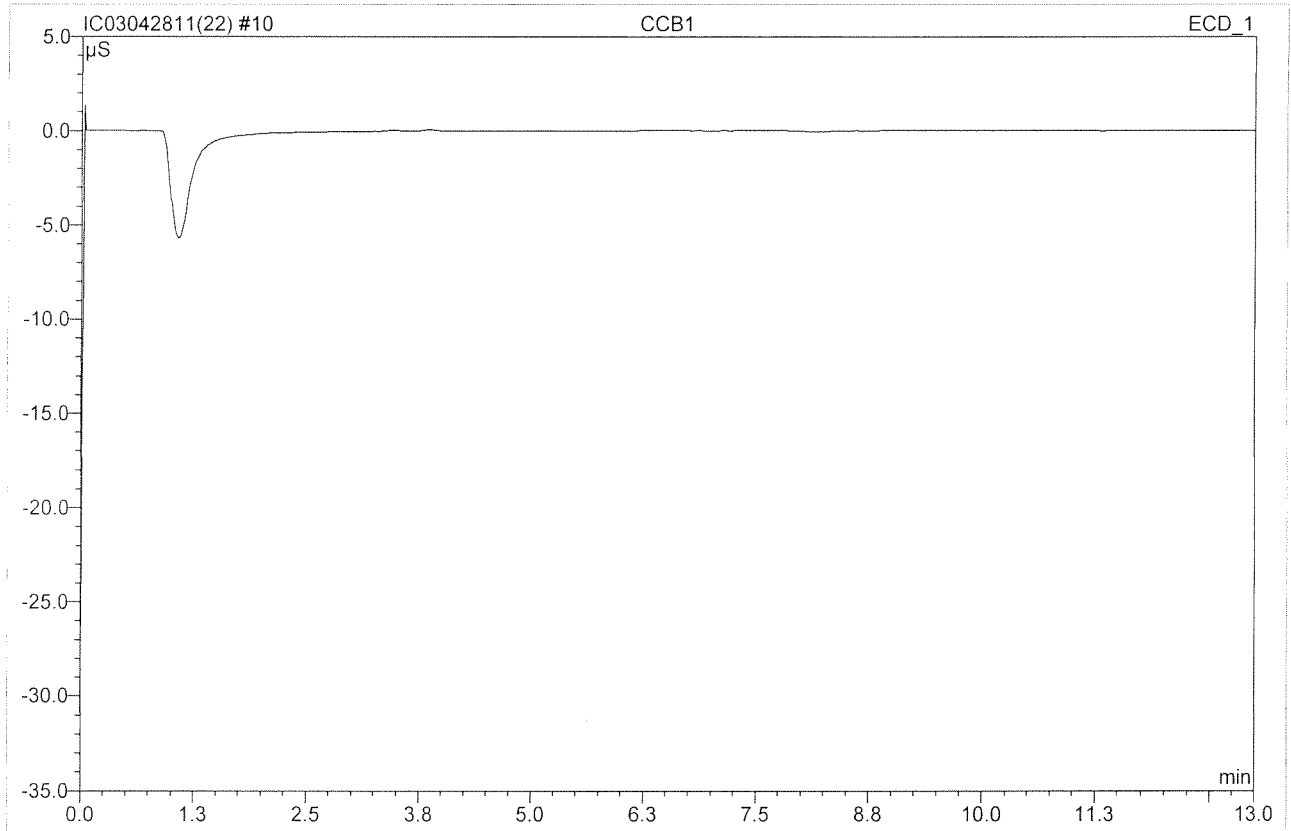
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	16.613	2.167	40.79	99 0.990	BMB
2	3.43	n.a.	0.120	0.016	0.31	n.a.	BMB
3	4.42	Nitrite	16.556	2.806	52.83	90 0.896	BMB
4	6.43	Nitrate	0.051	0.011	0.20	0.003	BMB
5	8.63	n.a.	0.019	0.012	0.22	n.a.	BMB
6	11.45	Sulfate	0.912	0.301	5.66	0.280	BMB
Total:			34.271	5.312	100.00	2.168	

9 CCV1 AN11-88-C			
Sample Name:	CCV1 AN11-88-C	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 7:50	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



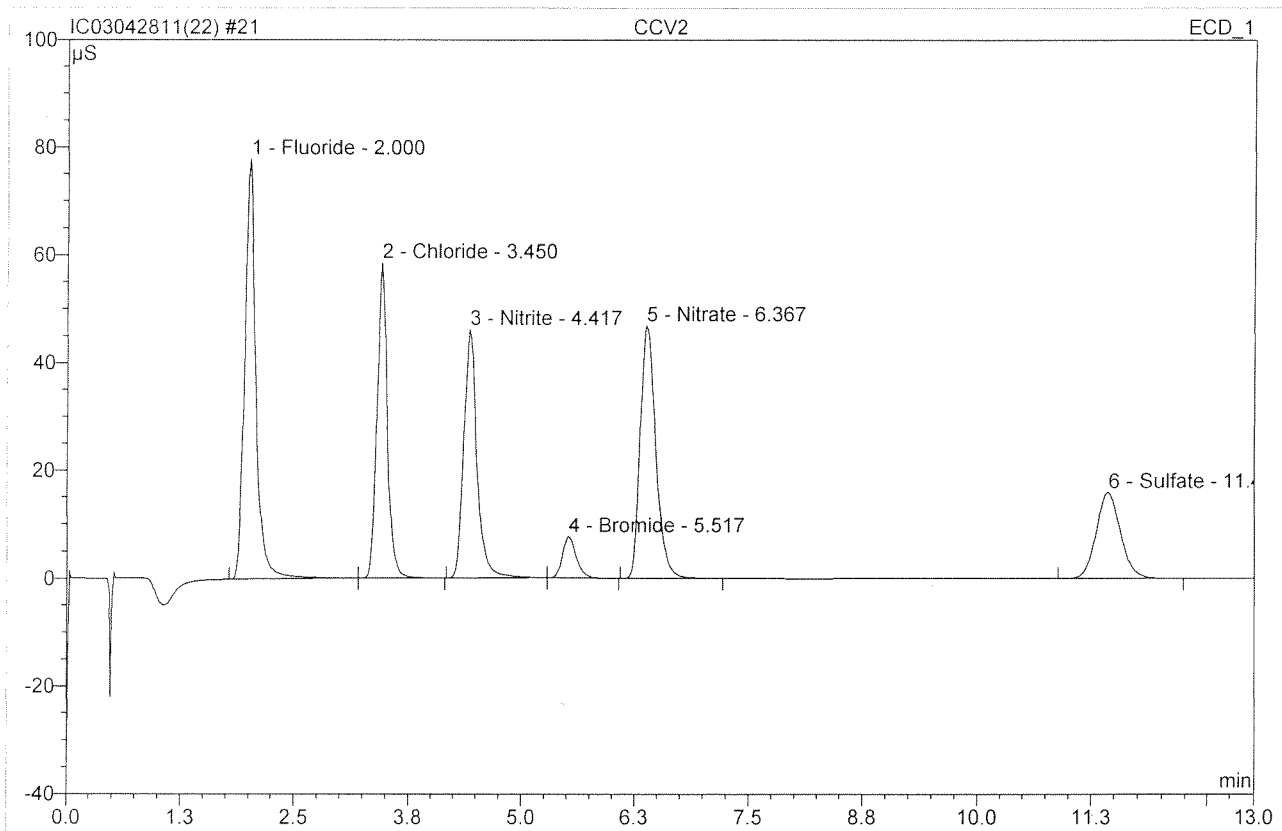
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	80.350	11.411	26.19	102/5.214	BMB
2	3.45	Chloride	60.370	8.010	18.39	95/4.737	BMB
3	4.43	Nitrite	46.713	7.955	18.26	102/2.539	bMb
4	5.53	Bromide	7.868	1.395	3.20	91/2.359	bMB
5	6.38	Nitrate	48.239	9.726	22.33	91/2.346	BMB
6	11.40	Sulfate	16.096	5.069	11.63	91/4.721	BMB
Total:			259.636	43.565	100.00	21.917	

10 CCB1			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 8:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



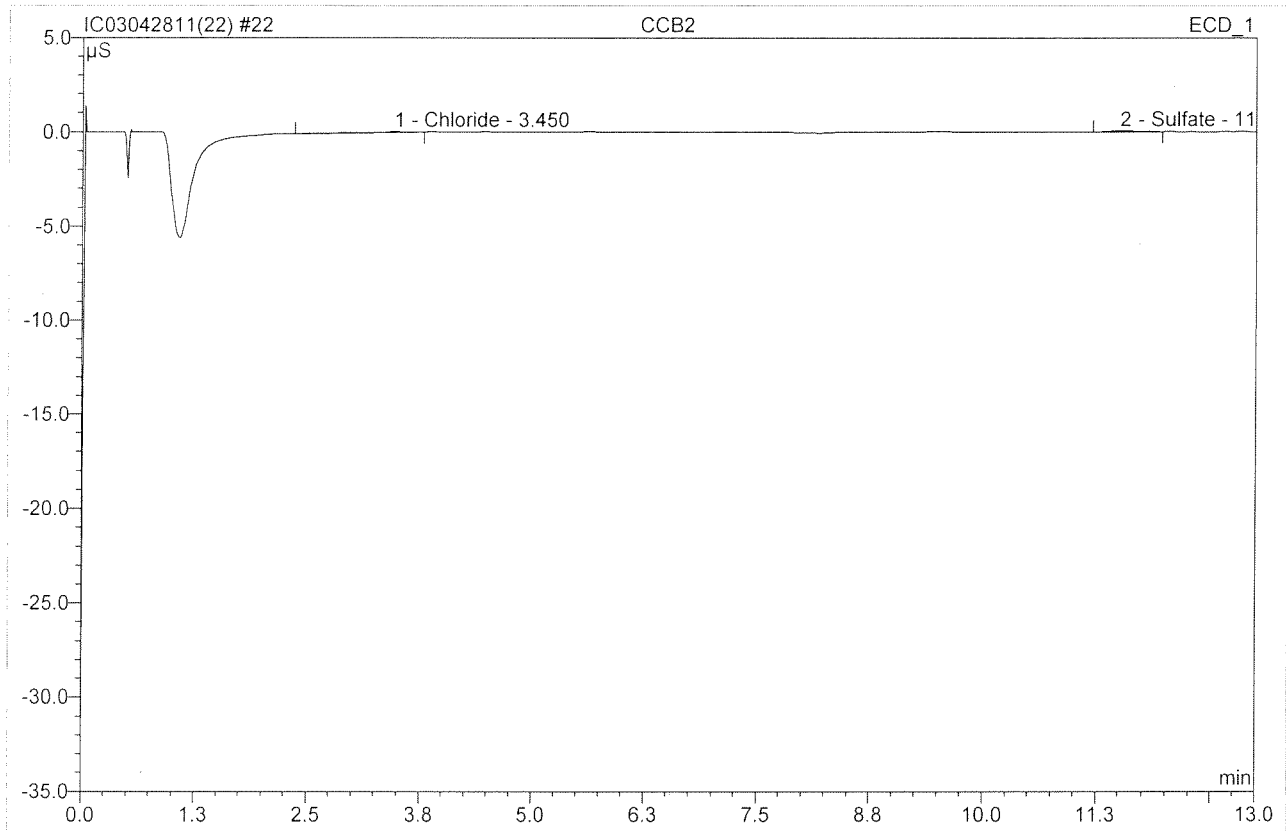
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

21 CCV2			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 10:57	Sample Weight:	1.0000
Run Time (min):	13.02	Sample Amount:	1.0000



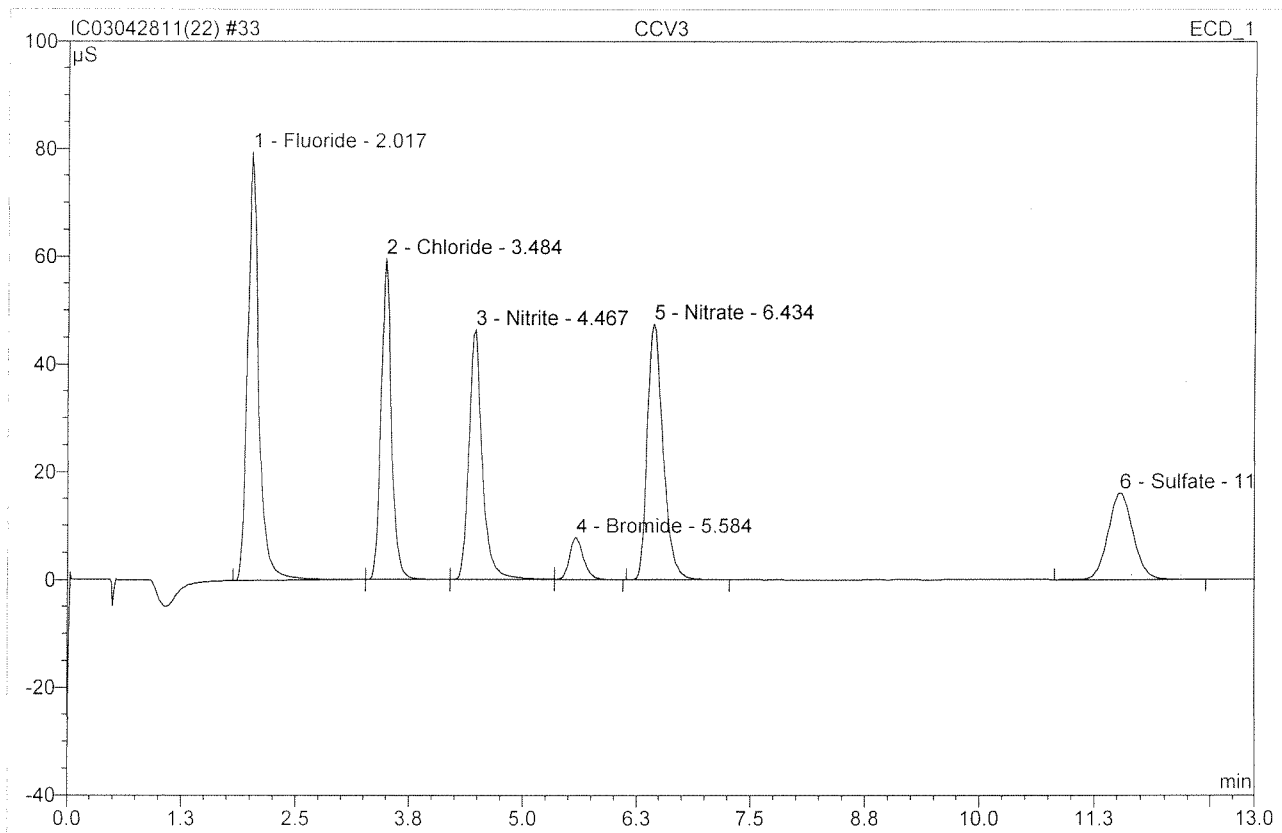
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	77.958	11.123	26.29	95 5.082	BMB
2	3.45	Chloride	58.526	7.685	18.16	91 4.545	bMB
3	4.42	Nitrite	46.070	7.797	18.43	100 2.489	BMb
4	5.52	Bromide	7.652	1.353	3.20	92 2.288	bMB
5	6.37	Nitrate	46.866	9.422	22.27	91 2.273	BMB
6	11.43	Sulfate	16.027	4.930	11.65	92 4.592	BMB
Total:			253.099	42.310	100.00	21.269	

22 CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 11:13	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



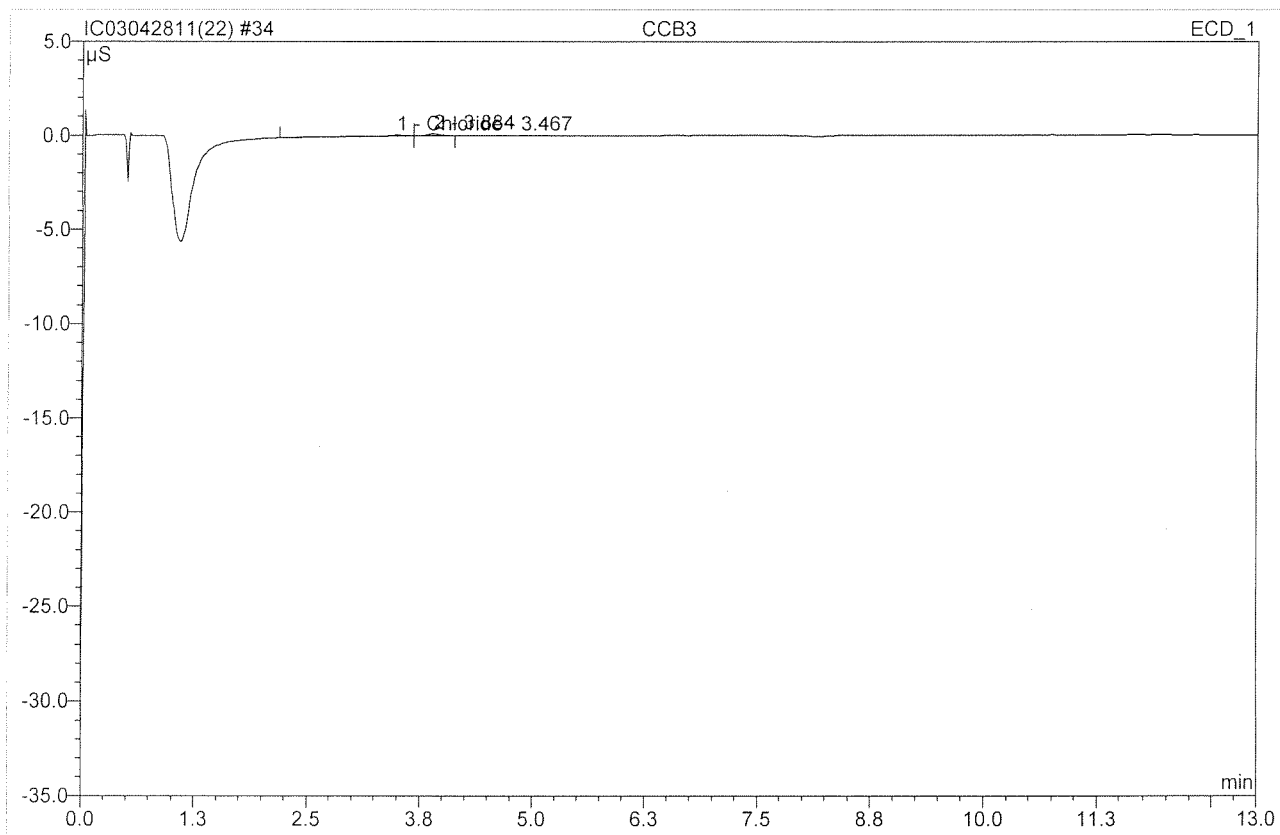
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	0.061	0.017	43.00	0.010	BMB
2	11.50	Sulfate	0.067	0.023	57.00	0.021	BMB
Total:			0.129	0.040	100.00	0.031	

33 CCV3			
CCV3			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	35	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 14:03	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



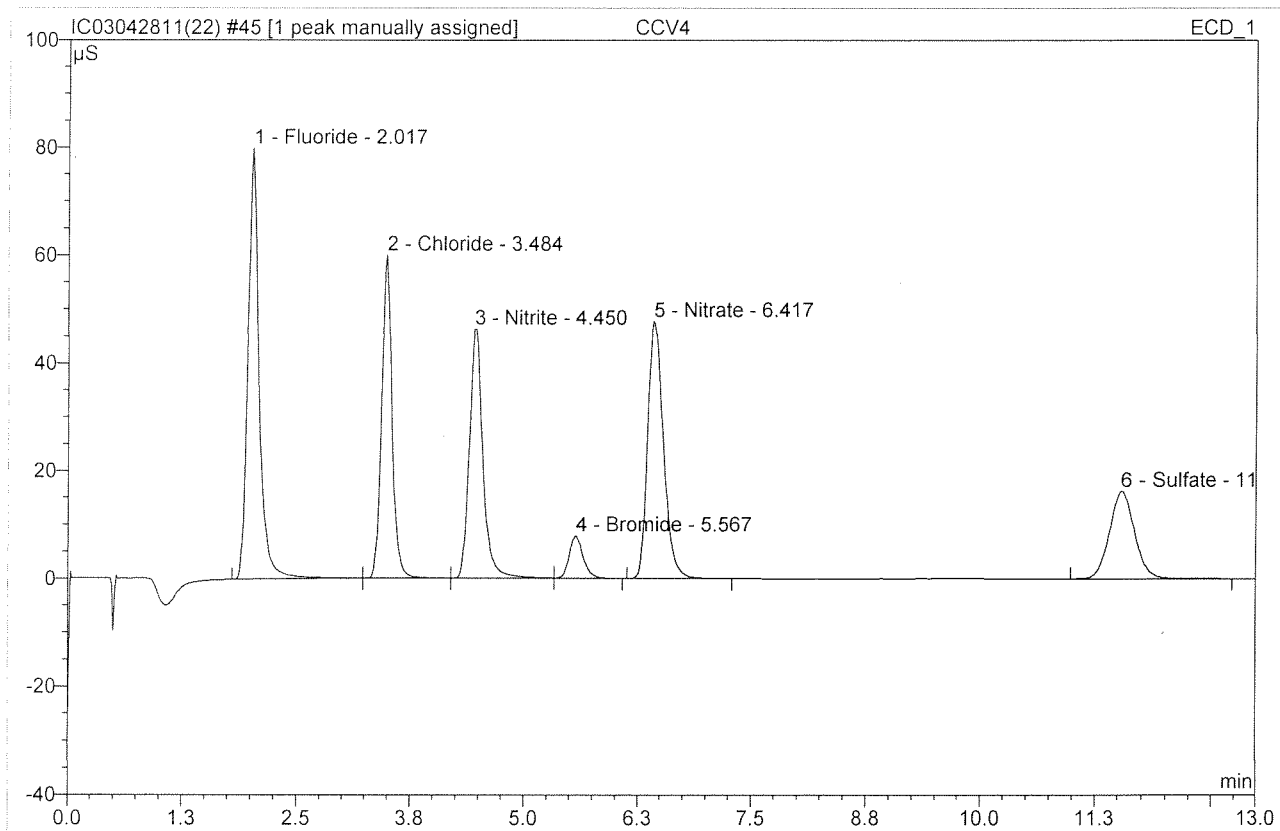
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	79.506	11.408	26.36	101 5.212	BMB
2	3.48	Chloride	59.590	7.911	18.28	94 4.679	bMb
3	4.47	Nitrite	46.380	7.933	18.33	101 2.533	bMb
4	5.58	Bromide	7.733	1.386	3.20	91 2.344	bMB
5	6.43	Nitrate	47.514	9.611	22.21	93 2.318	BMB
6	11.53	Sulfate	16.128	5.025	11.61	94 4.680	BMB
Total:			256.852	43.274	100.00	21.766	

34 CCB3			
CCB3			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	36	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 14:18	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.47	Chloride	0.048	0.021	55.72	0.012	BMb
2	3.88	n.a.	0.103	0.016	44.28	n.a.	bMB
Total:			0.151	0.037	100.00	0.012	

45 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	47	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 17:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	79.953	11.404	26.23	100% 5.211	BMb
2	3.48	Chloride	59.874	7.980	18.35	94% 4.719	bMb
3	4.45	Nitrite	46.298	7.952	18.29	100% 2.538	bMb
4	5.57	Bromide	7.820	1.392	3.20	94% 2.355	bMB^
5	6.42	Nitrate	47.730	9.689	22.28	94% 2.337	BMB
6	11.53	Sulfate	16.203	5.062	11.64	94% 4.715	BMB
Total:			257.878	43.479	100.00	21.875	

After Initials AB

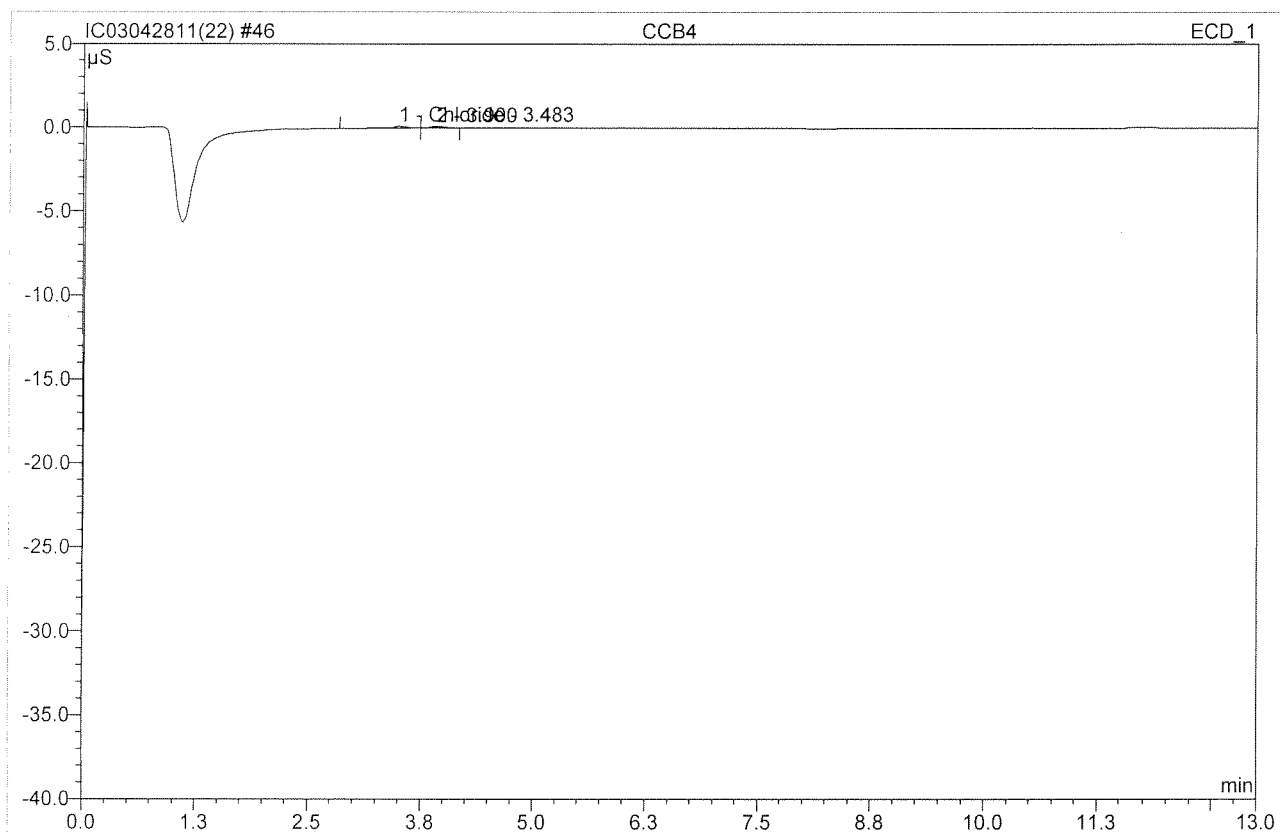
ccv4/2011

APR 29 2011

default/Integration

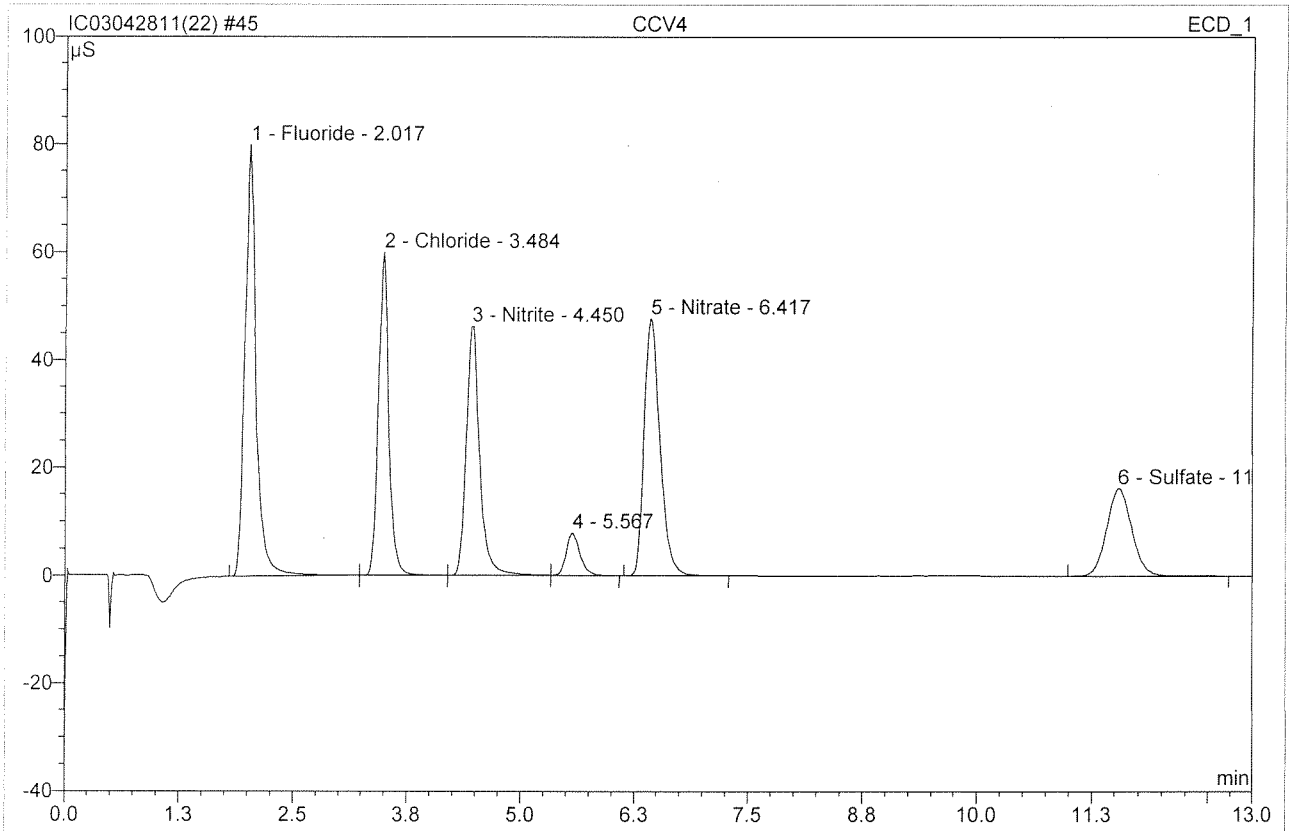
Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other

46 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	48	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 17:24	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.48	Chloride	0.119	0.019	56.37	0.011	BMb
2	3.90	n.a.	0.092	0.015	43.63	n.a.	bMB
Total:			0.211	0.033	100.00	0.011	

45 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	47	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 17:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

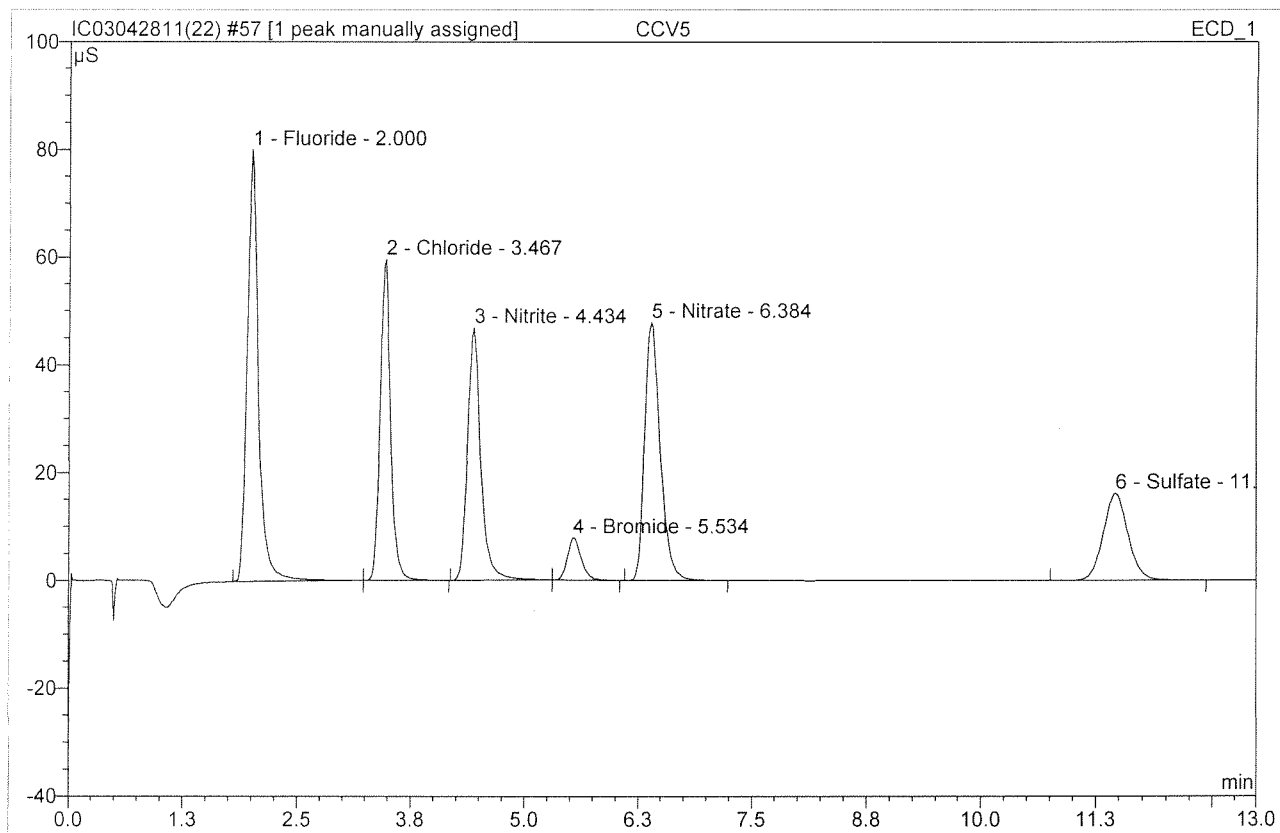


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	79.953	11.404	26.23	5.211	BMb
2	3.48	Chloride	59.874	7.980	18.35	4.719	bMb
3	4.45	Nitrite	46.298	7.952	18.29	2.538	bMb
4	5.57	n.a.	7.820	1.392	3.20	n.a.	bMB
5	6.42	Nitrate	47.730	9.689	22.28	2.337	BMB
6	11.53	Sulfate	16.203	5.062	11.64	4.715	BMB
Total:			257.878	43.479	100.00	19.520	

Before

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57 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 20:14	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

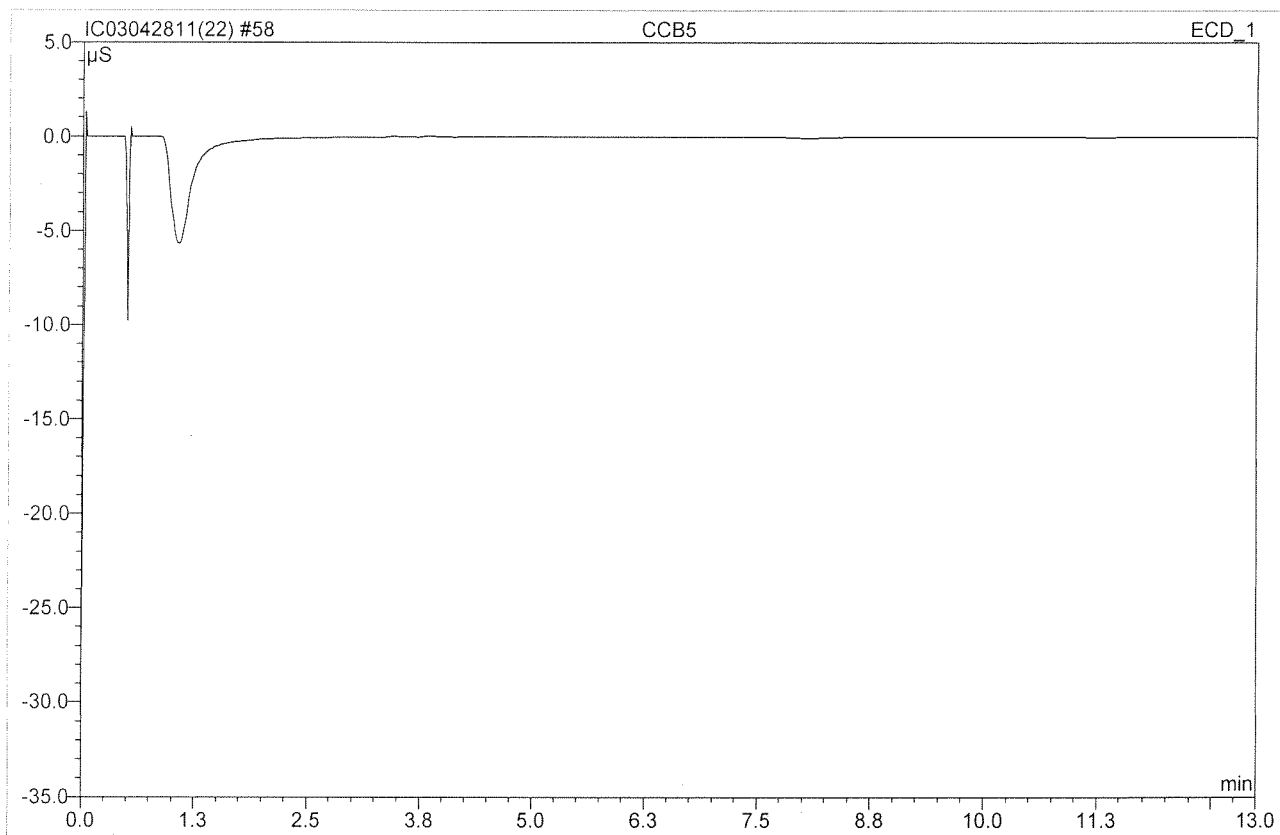


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	80.059	11.442	26.43	105 5.228	BMB
2	3.47	Chloride	59.589	7.931	18.32	94 4.690	bMB
3	4.43	Nitrite	46.817	7.931	18.32	101 2.532	BMb
4	5.53	Bromide	7.807	1.384	3.20	94 2.341	bMB^
5	6.38	Nitrate	47.776	9.592	22.16	42 2.314	BMB
6	11.47	Sulfate	16.122	5.006	11.56	98 4.662	BMB
Total:			258.170	43.286	100.00	21.767	

After Initials nb

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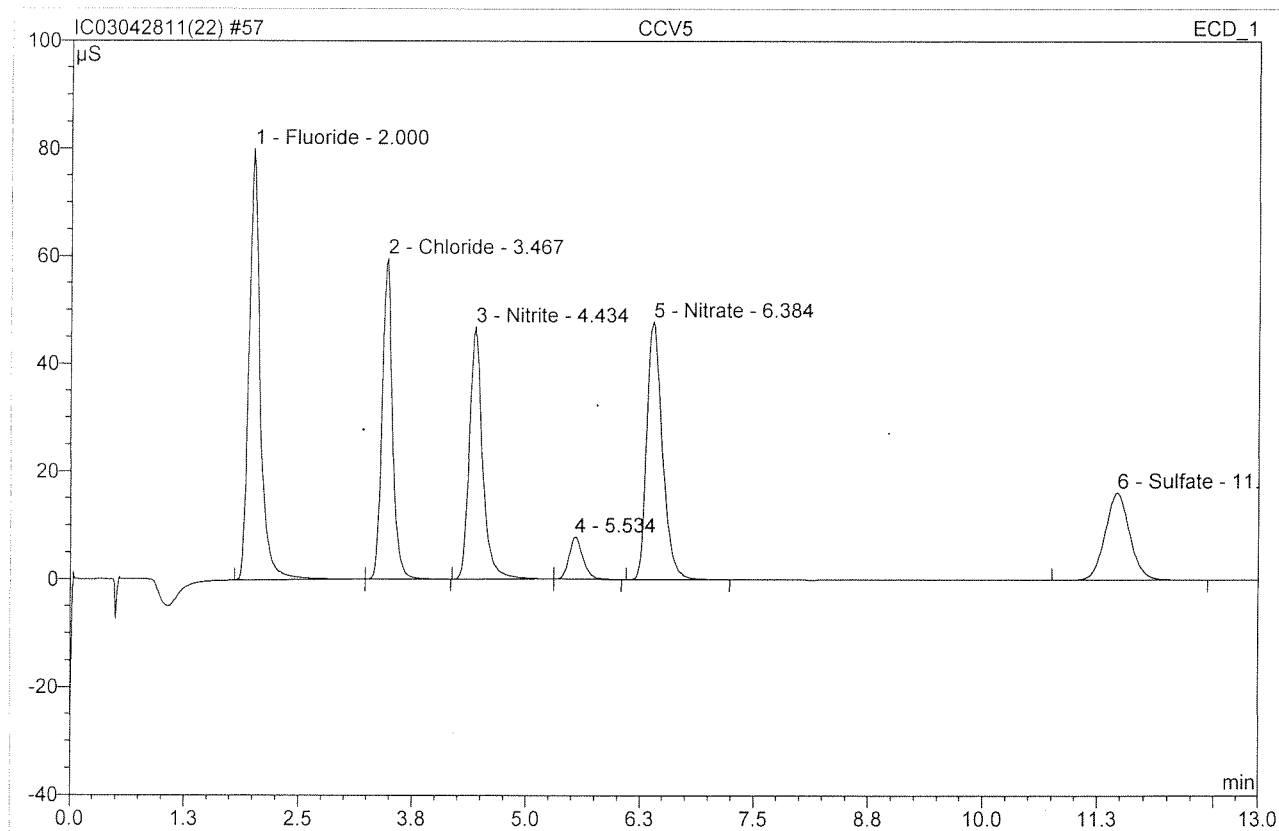
58 CCB5			
CCB5			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	60	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 20:29	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

57 CCV5**CCV5**

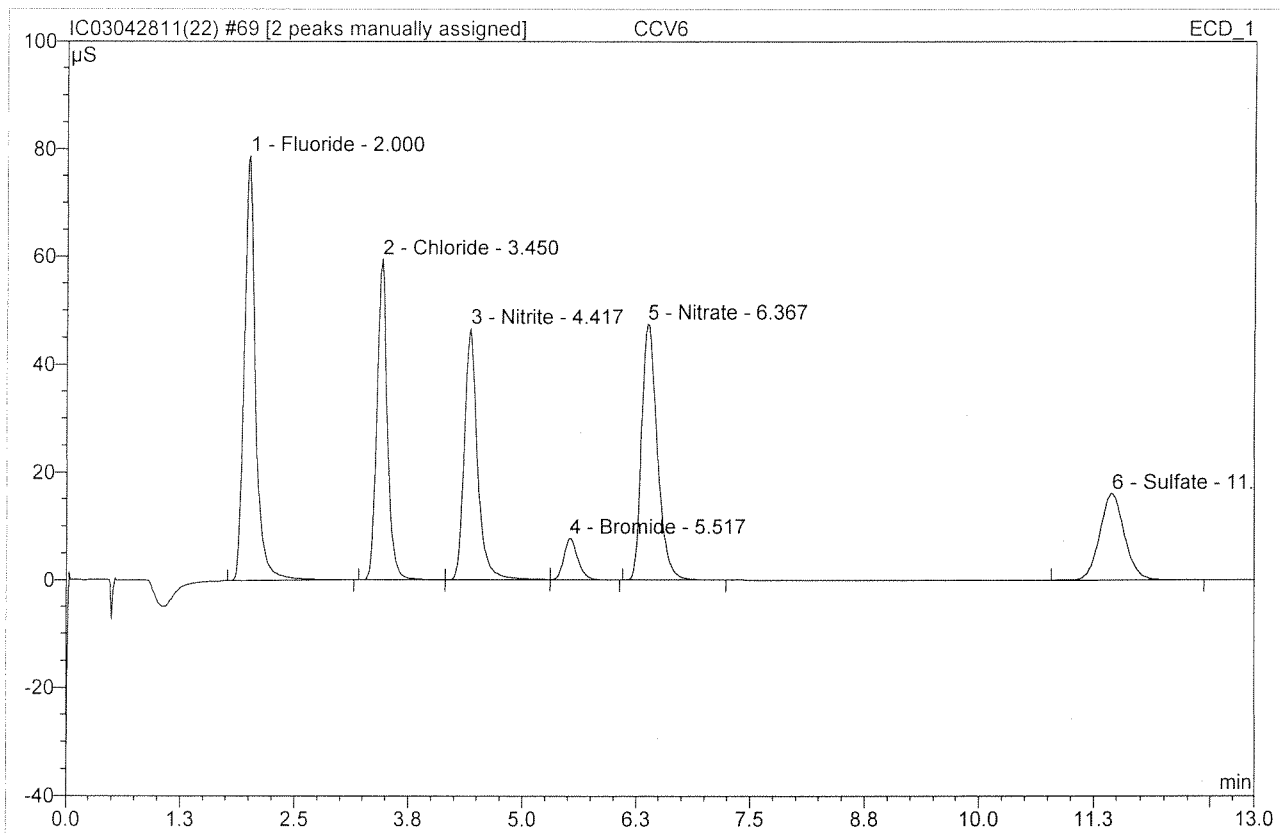
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 20:14	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	80.059	11.442	26.43	5.228	BMB
2	3.47	Chloride	59.589	7.931	18.32	4.690	bMB
3	4.43	Nitrite	46.817	7.931	18.32	2.532	BMb
4	5.53	n.a.	7.807	1.384	3.20	n.a.	bMB
5	6.38	Nitrate	47.776	9.592	22.16	2.314	BMB
6	11.47	Sulfate	16.122	5.006	11.56	4.662	BMB
Total:			258.170	43.286	100.00	19.427	

Before**APR 29 2011**

69 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	71	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 23:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



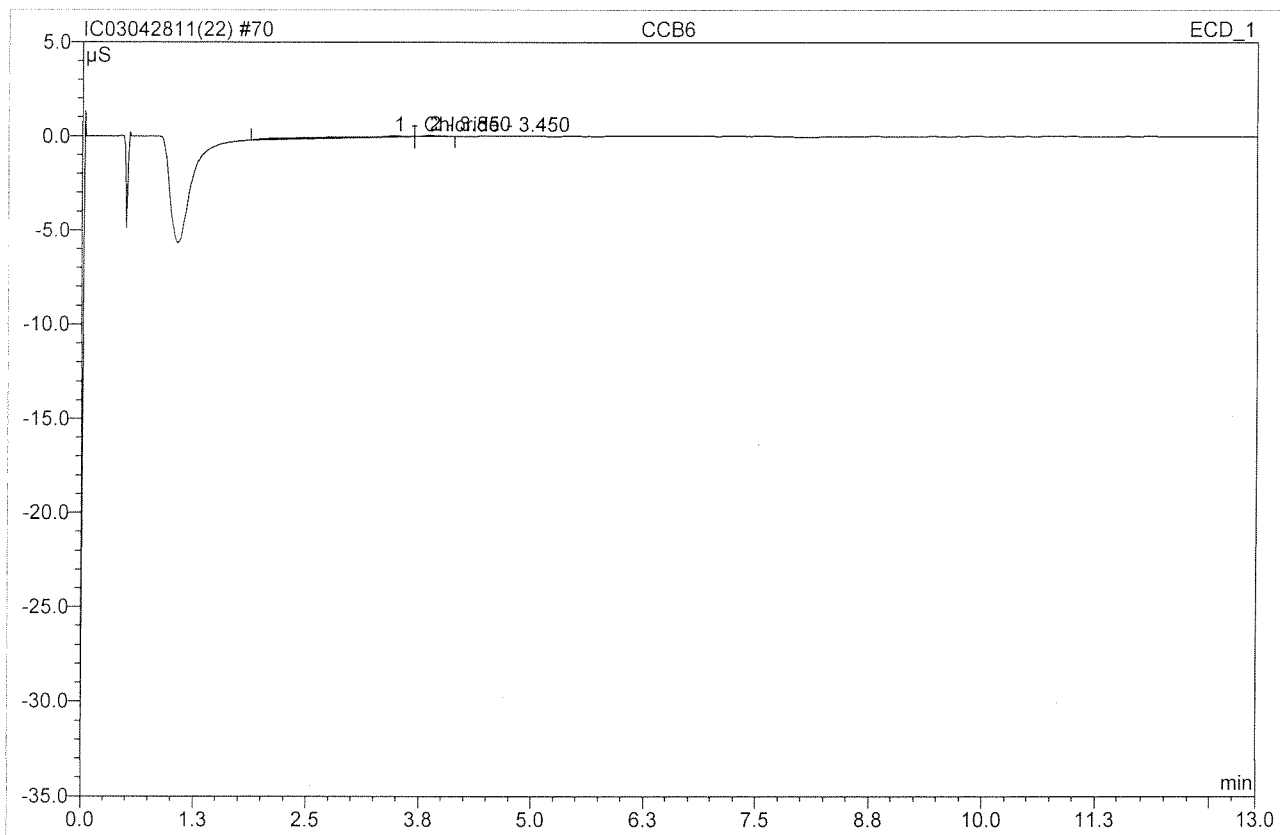
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	78.969	11.361	26.33	104 5.191	BMB
2	3.45	Chloride	59.496	7.903	18.31	93 4.674	BMB^
3	4.42	Nitrite	46.565	7.865	18.22	100 2.511	bMb
4	5.52	Bromide	7.765	1.379	3.20	93 2.333	bMB^
5	6.37	Nitrate	47.468	9.639	22.34	93 2.325	BMB
6	11.45	Sulfate	16.141	5.008	11.60	93 4.664	BMB
Total:			256.404	43.155	100.00	21.698	

After Initials AB

u y/2/11

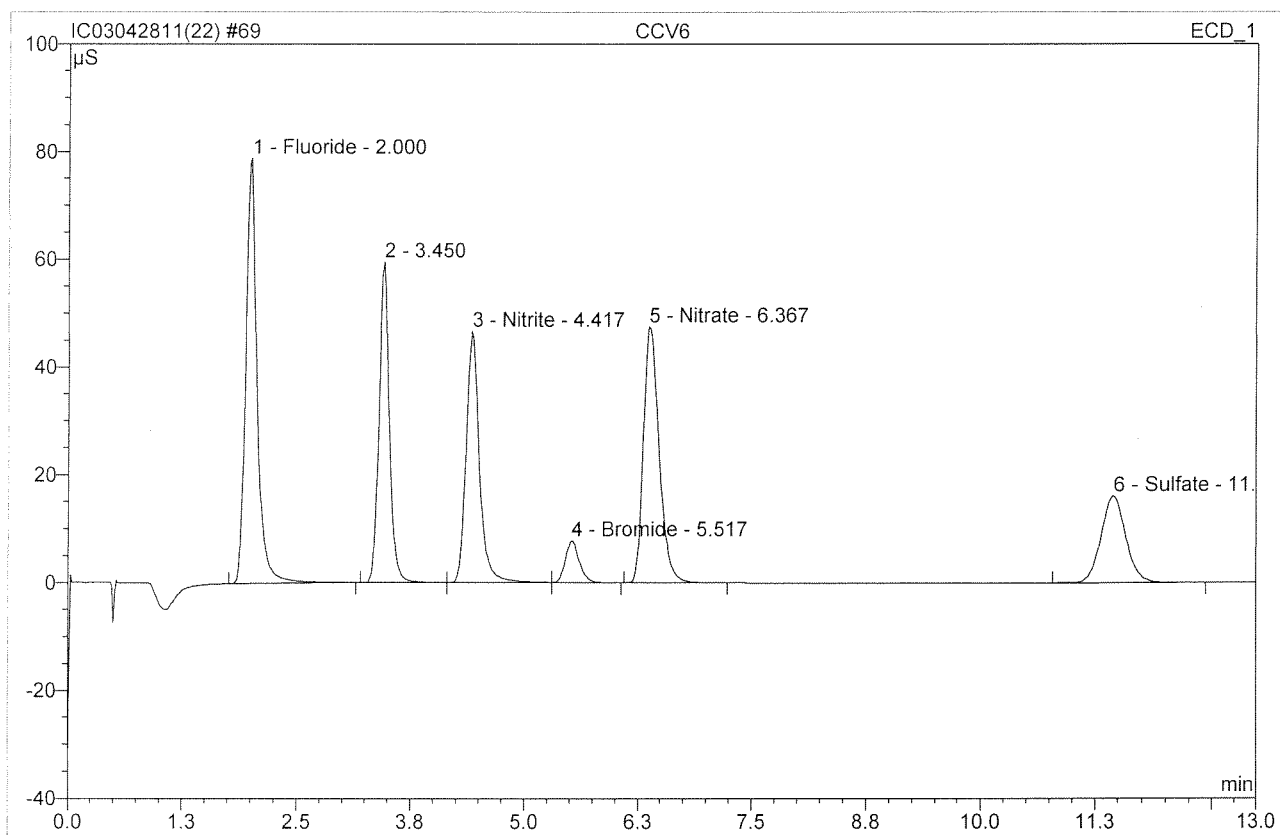
APR 29 2011

70 CCB6			
CCB6			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	72	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 23:35	Sample Weight:	1.0000
Run Time (min):	13.02	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	0.065	0.084	88.31	0.050	BMb
2	3.85	n.a.	0.063	0.011	11.69	n.a.	bMB
Total:			0.128	0.095	100.00	0.050	

69 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	71	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/28/2011 23:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	78.969	11.361	26.33	5.191	BMB
2	3.45	n.a.	59.496	7.903	18.31	n.a.	BMb
3	4.42	Nitrite	46.565	7.865	18.22	2.511	bMb
4	5.52	Bromide	7.765	1.379	3.20	2.333	bMB
5	6.37	Nitrate	47.468	9.639	22.34	2.325	BMB
6	11.45	Sulfate	16.141	5.008	11.60	4.664	BMB
Total:			256.404	43.155	100.00	17.025	

Before

APR 29 2011

COLUMBIA ANALYTICAL SERVICES, INC.
Ion Chromatography Calibration Data

Sequence: IC03042211C(22)

Date: 04/22/11

Anion	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Corr.Coeff	Slope
F	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9768	2.1887
Cl	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9557	1.6909
NO2	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.9944	3.1325
Br	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.9338	0.5912
NO3	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.8405	4.1453
SO4	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9252	1.0736

All calibration standard concentrations are in mg/L, unless otherwise noted.
 Zero point forced through zero.

No.	Peak Name	Cal.Type	#Points	Rel.Std.Dev	Corr.Coeff.	Offset	Slope	Curve
				%	%			
1	Fluoride	Lin	7	2.5116	99.9768	0	2.1887	0
2	Chloride	Lin	8	4.8836	99.9557	0	1.6909	0
3	Nitrite	Lin	6	2.198	99.9944	0	3.1325	0
4	Bromide	Lin	6	6.2266	99.9338	0	0.5912	0
5	Nitrate	Lin	6	10.8585	99.8405	0	4.1453	0
6	Sulfate	Lin	8	5.775	99.9252	0	1.0736	0
Average:			6.83333	5.4089	99.9377	0	2.137	0

AN11-68-A 100PPM NO2, BR, NO3

AN11-68-B 100PPM F, CL, SO4

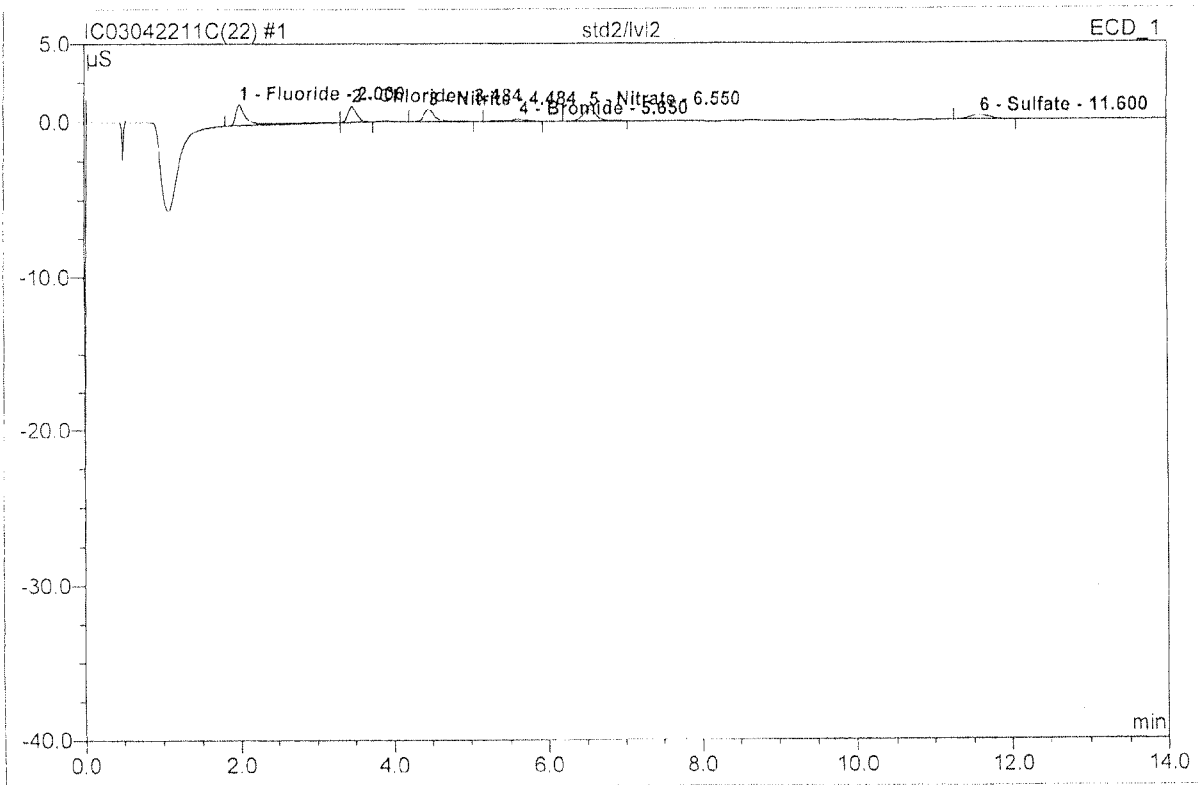
mL added

	AN11-68-C	AN11-68-D	AN11-68-E	AN11-68-F	AN11-68-G	AN11-68-H	AN11-68-I	
	STD2	STD3	STD4	STD5	STD6	STD7	STD8	STD1
F	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
CL	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
SO4	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
NO2	0.050	0.100	0.500	1.000	2.00	5.00	--	0
NO3	0.050	0.100	0.500	1.000	2.00	5.00	--	0
BR	0.050	0.100	0.500	1.000	2.00	5.00	--	0

at 4.25.11

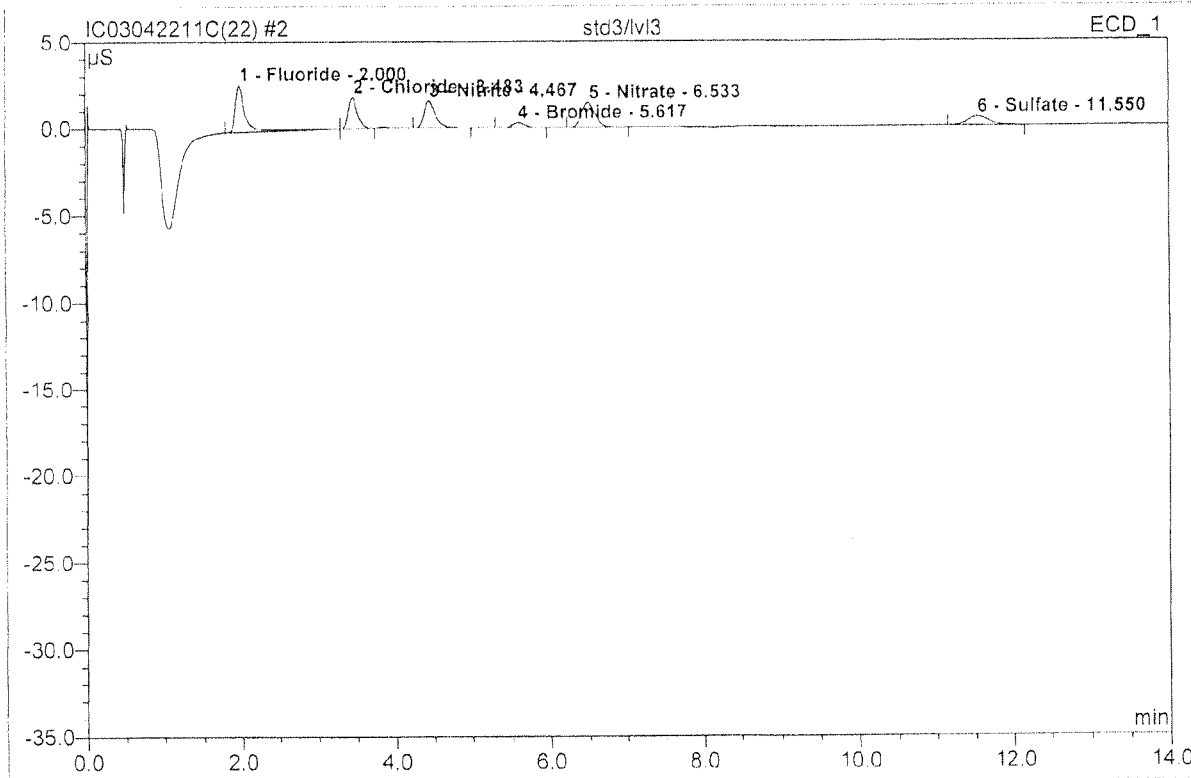
ec 4/25/11

1 std2/lvl2			
Sample Name:	std2/lvl2	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:16	Sample Weight:	1.0000
Run Time (min):	14.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	1.362	0.247	30.61	0.113	BMB
2	3.48	Chloride	1.023	0.143	17.77	0.085	bMB
3	4.48	Nitrite	0.790	0.142	17.56	0.045	BMB
4	5.65	Bromide	0.152	0.031	3.84	0.052	BMB
5	6.55	Nitrate	0.740	0.156	19.34	0.038	BMB
6	11.60	Sulfate	0.270	0.088	10.89	0.082	BMB
Total:			4.338	0.806	100.00	0.414	

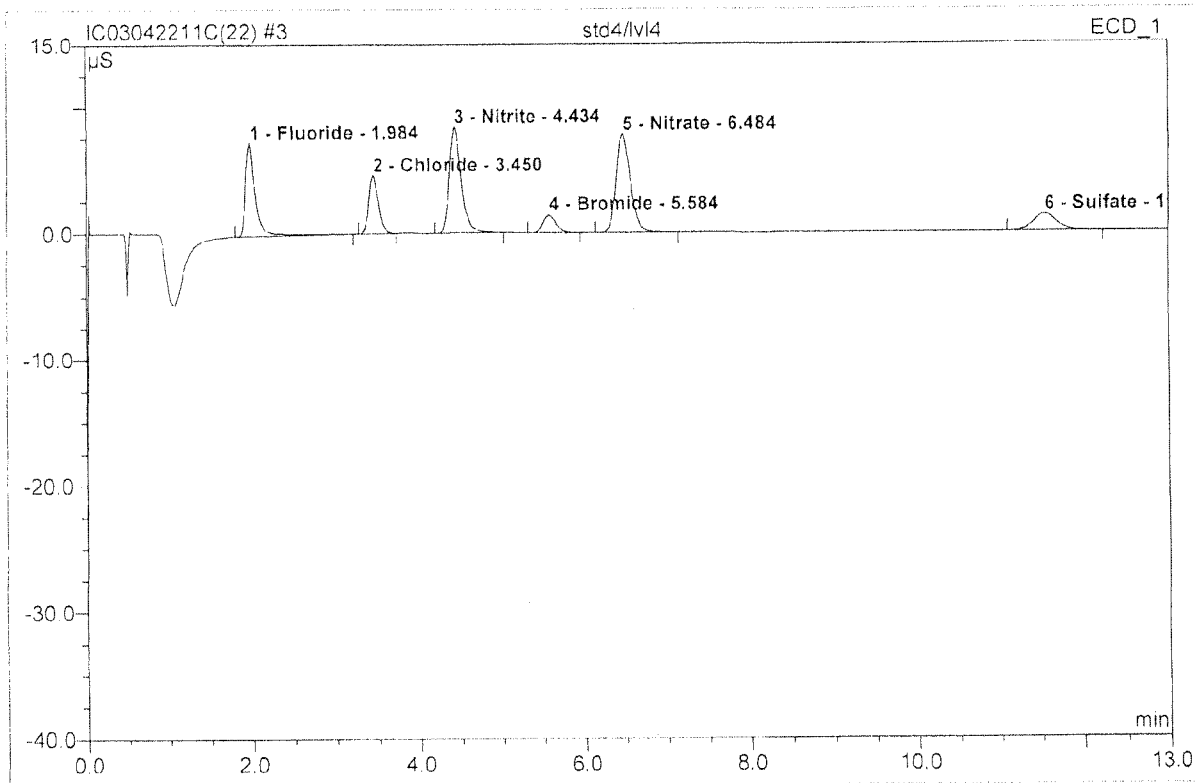
2 std3/lvl3			
Sample Name:	std3/lvl3	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:33	Sample Weight:	1.0000
Run Time (min):	14.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	2.733	0.430	28.80	0.196	BMB
2	3.48	Chloride	1.819	0.253	16.94	0.150	bMB
3	4.47	Nitrite	1.597	0.274	18.33	0.087	BMB
4	5.62	Bromide	0.299	0.055	3.70	0.093	BMB
5	6.53	Nitrate	1.467	0.307	20.57	0.074	BMB
6	11.55	Sulfate	0.523	0.174	11.67	0.162	BMB
Total:			8.437	1.493	100.00	0.763	

3 std4/lvl4

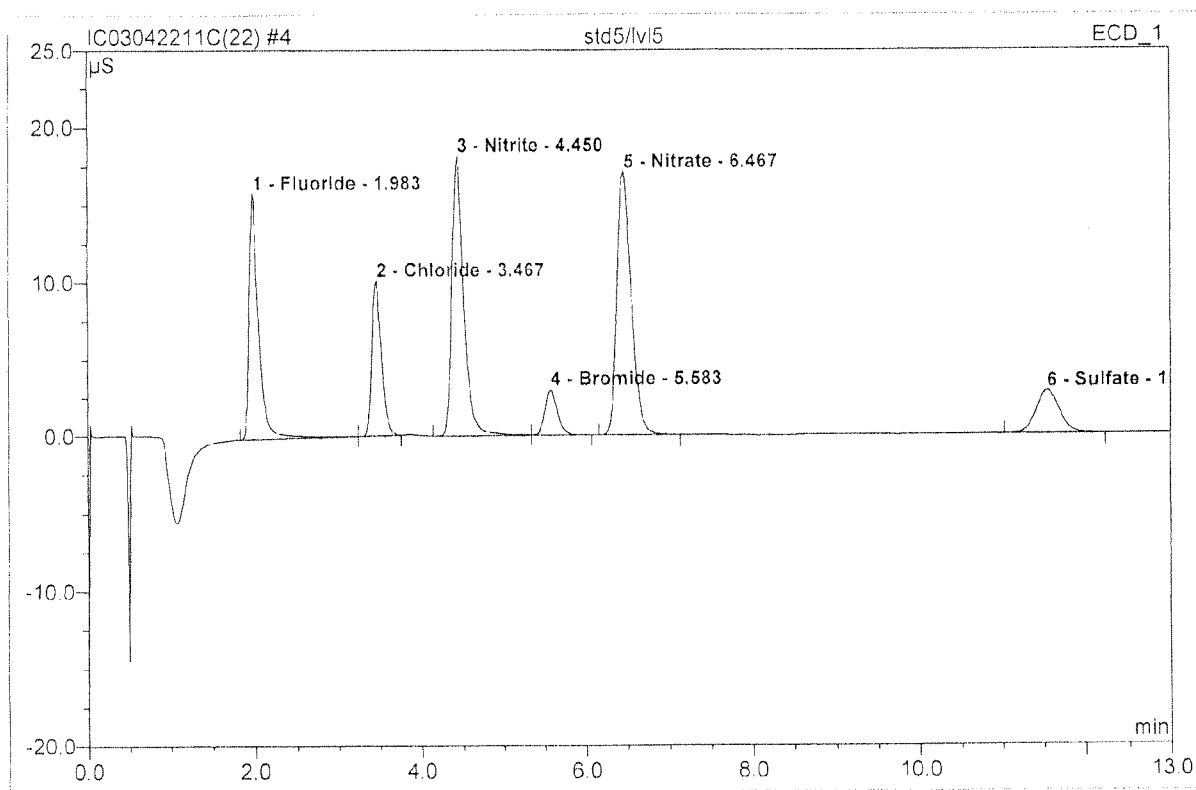
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:49	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	7.391	1.014	19.10	0.464	BMB
2	3.45	Chloride	4.603	0.629	11.85	0.372	BMB
3	4.43	Nitrite	8.416	1.406	26.46	0.449	BMB
4	5.58	Bromide	1.435	0.258	4.86	0.437	BMB
5	6.48	Nitrate	7.797	1.567	29.50	0.378	BMB
6	11.53	Sulfate	1.329	0.437	8.23	0.407	BMB
Total:			30.971	5.312	100.00	2.507	

4 std5/lvl5

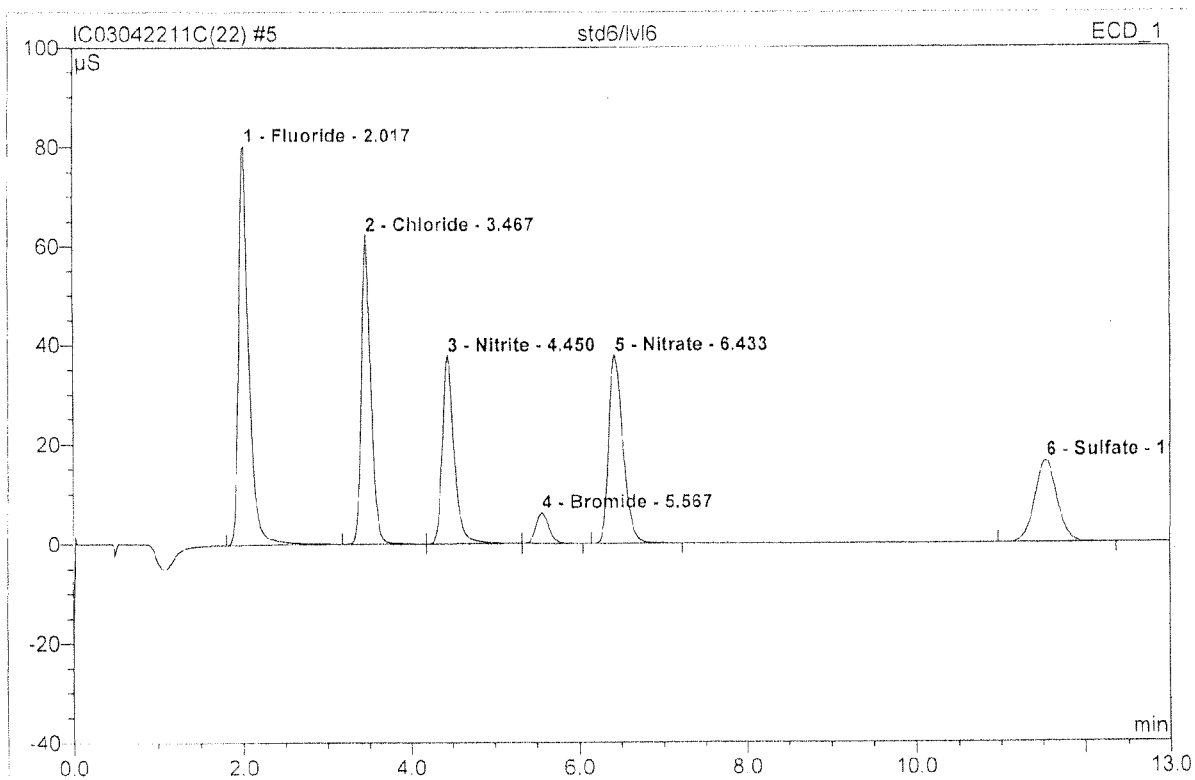
Sample Name:	std5/lvl5	Injection Volume:	200.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:05	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	15.962	2.099	18.63	0.959	BMB
2	3.47	Chloride	10.090	1.354	12.02	0.801	bMB
3	4.45	Nitrite	18.132	3.000	26.63	0.958	BMB
4	5.58	Bromide	2.975	0.532	4.73	0.901	bMB
5	6.47	Nitrate	17.099	3.378	29.99	0.815	BMB
6	11.53	Sulfate	2.769	0.900	7.99	0.838	BMB
Total:			67.028	11.263	100.00	5.271	

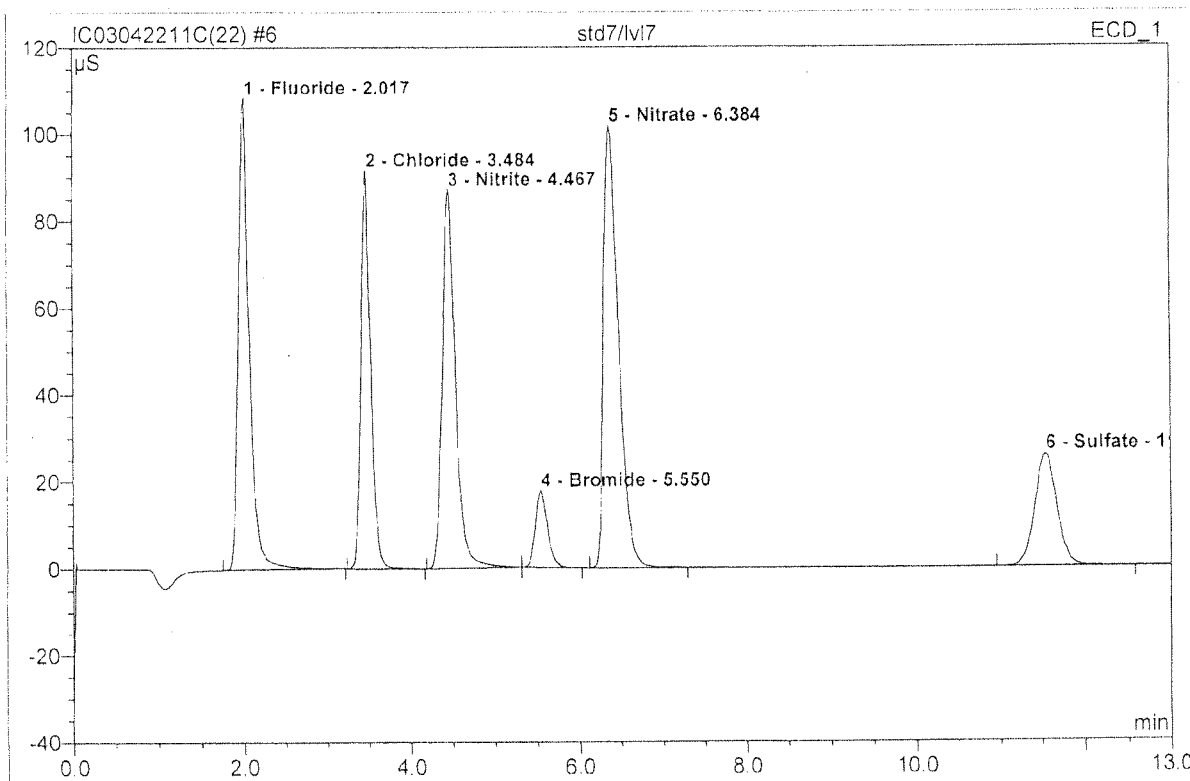
5 std6/lvl6

Sample Name:	std6/lvl6	Injection Volume:	200.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



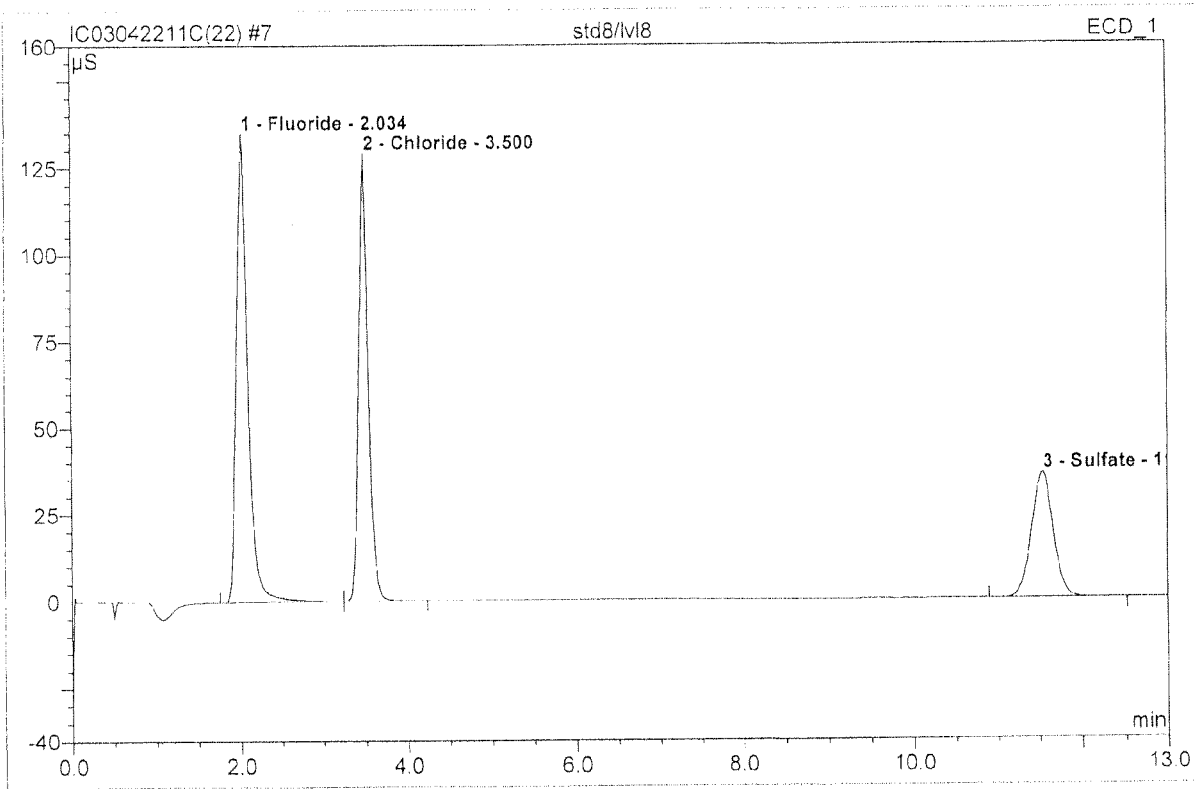
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	80.363	11.246	28.70	5.139	BMB
2	3.47	Chloride	62.240	8.112	20.70	4.797	BMb
3	4.45	Nitrite	37.725	6.247	15.94	1.994	bMb
4	5.57	Bromide	6.258	1.103	2.81	1.866	bMB
5	6.43	Nitrate	37.726	7.429	18.96	1.792	BMB
6	11.55	Sulfate	16.353	5.052	12.89	4.705	BMB
Total:			240.665	39.189	100.00	20.293	

6 std7/lvl7			
Sample Name:	std7/lvl7	Injection Volume:	200.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:35	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



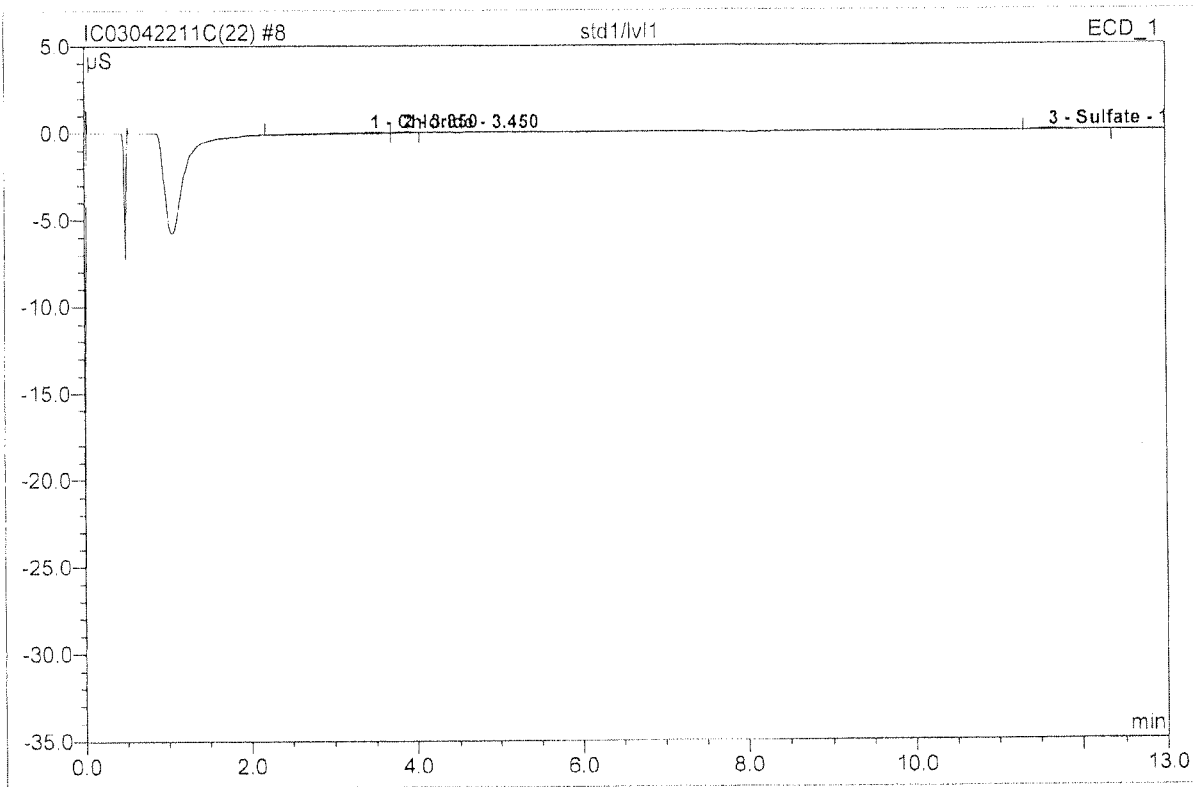
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	108.532	16.601	21.55	7.585	BMB
2	3.48	Chloride	91.544	12.525	16.26	7.407	BMB
3	4.47	Nitrite	87.092	15.713	20.40	5.016	BMb
4	5.55	Bromide	17.617	3.003	3.90	5.080	bMB
5	6.38	Nitrate	101.819	21.278	27.62	5.133	BMB
6	11.55	Sulfate	25.898	7.920	10.28	7.377	BMB
Total:			432.501	77.040	100.00	37.598	

7 std8/lvl8			
Sample Name:	std8/lvl8	Injection Volume:	200.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:51	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



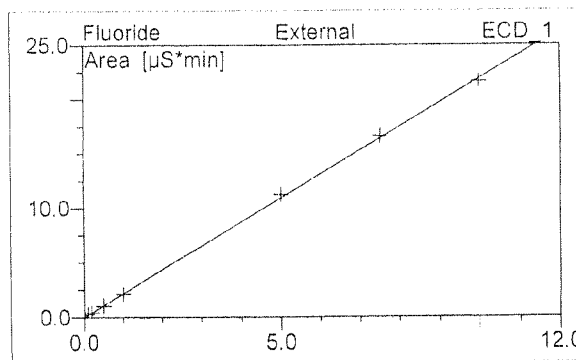
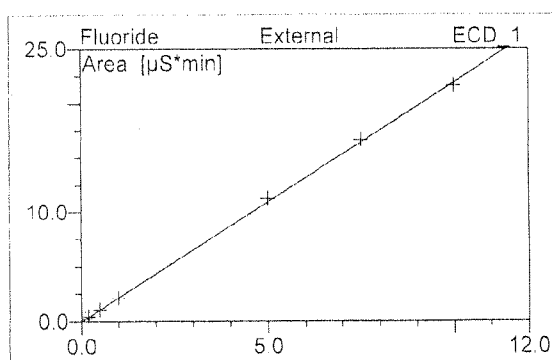
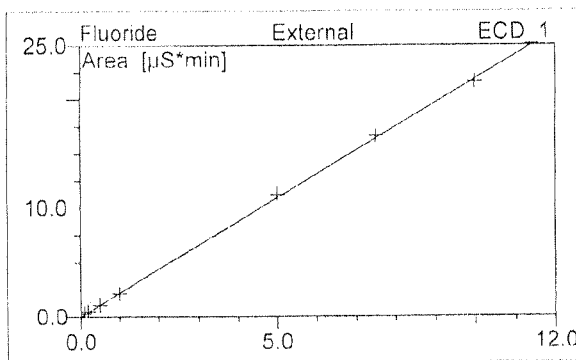
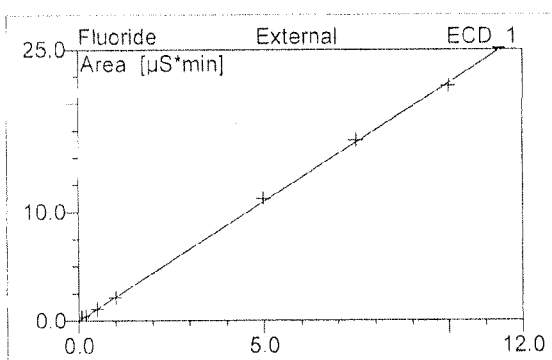
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.03	Fluoride	134.891	21.609	43.33	9.873	BMb
2	3.50	Chloride	128.899	17.245	34.58	10.199	bMB
3	11.55	Sulfate	36.064	11.017	22.09	10.262	BMB
Total:			299.854	49.871	100.00	30.333	

8 std1/lvl1			
Sample Name:	std1/lvl1	Injection Volume:	200.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 16:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	0.047	0.011	22.71	0.007	BMb
2	3.85	n.a.	0.077	0.011	21.82	n.a.	bMB
3	11.62	Sulfate	0.071	0.028	55.47	0.026	BMB
Total:			0.195	0.050	100.00	0.032	

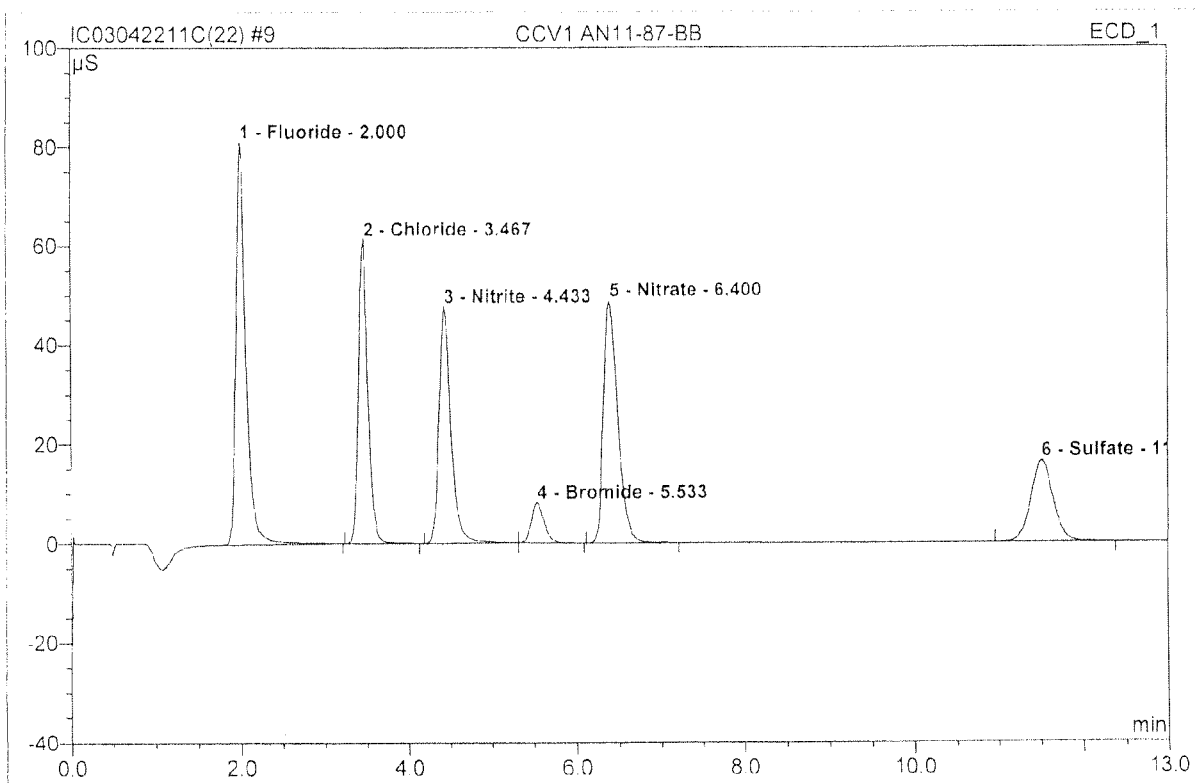
8 std1/lvl1	
Sample Name: std1/lvl1	Injection Volume: 200.0
Vial Number: 7	Channel: ECD_1
Sample Type: standard	Wavelength: n.a.
Control Program: epa300(22)	Bandwidth: n.a.
Quantif. Method: epa300	Dilution Factor: 1.0000
Recording Time: 4/22/2011 16:06	Sample Weight: 1.0000
Run Time (min): 13.00	Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	3.45	Chloride	Lin	8	99.9557	0.0000	1.6909	0.0000
2	3.85	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	11.62	Sulfate	Lin	8	99.9252	0.0000	1.0736	0.0000
Average:					99.9405	0.0000	1.3823	0.0000

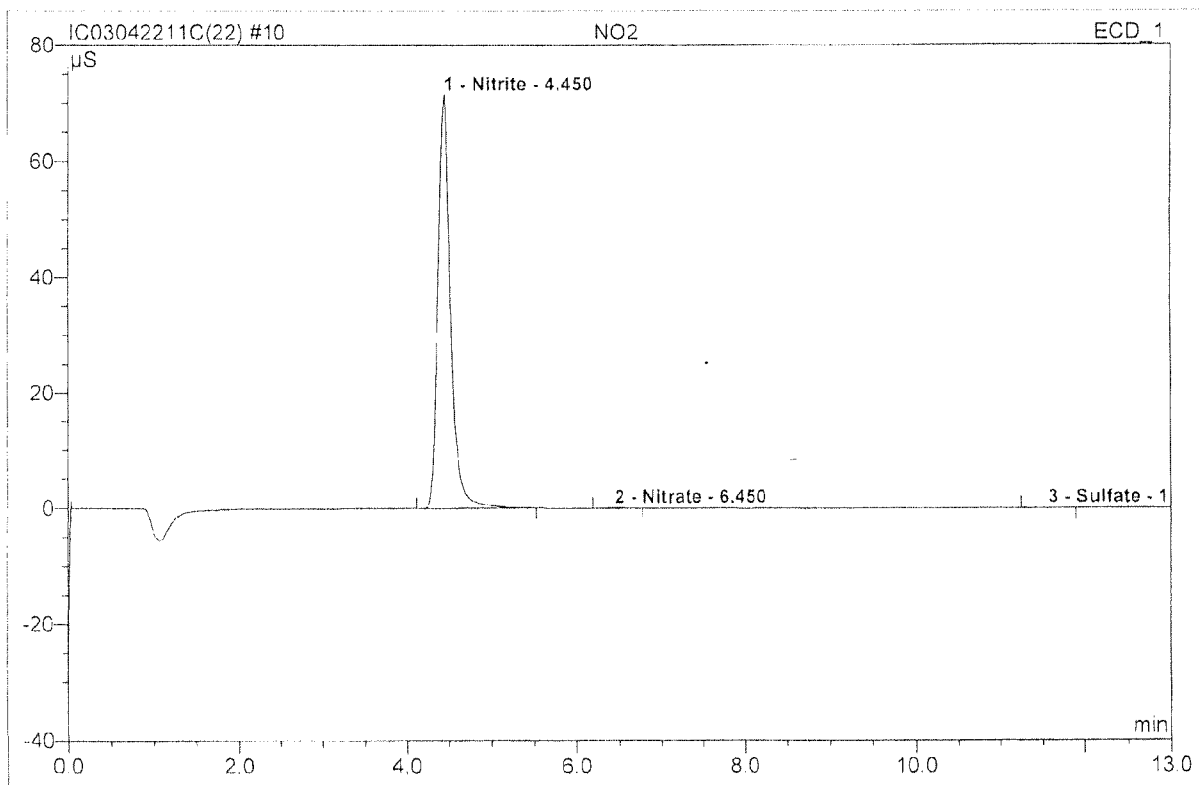
9 CCV1 AN11-87-BB

Sample Name:	CCV1 AN11-87-BB	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 16:22	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



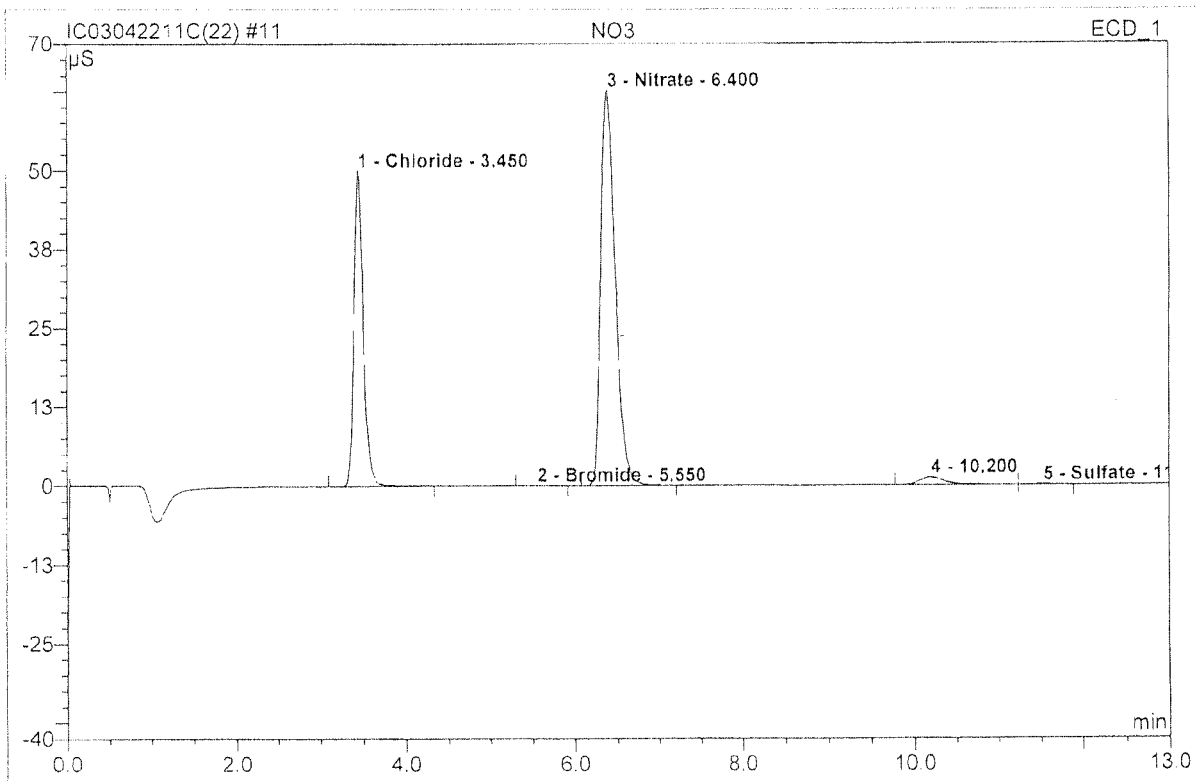
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	81.028	11.211	26.01	5.122	BMB
2	3.47	Chloride	61.141	7.930	18.40	4.690	BMB
3	4.43	Nitrite	47.467	7.898	18.32	2.521	BMb
4	5.53	Bromide	7.997	1.390	3.23	2.351	bMB
5	6.40	Nitrate	48.706	9.656	22.40	2.329	BMB
6	11.52	Sulfate	16.250	5.018	11.64	4.674	BMB
Total:			262.589	43.103	100.00	21.688	

10 NO2			
Sample Name:	NO2	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	4/22/2011 16:37	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



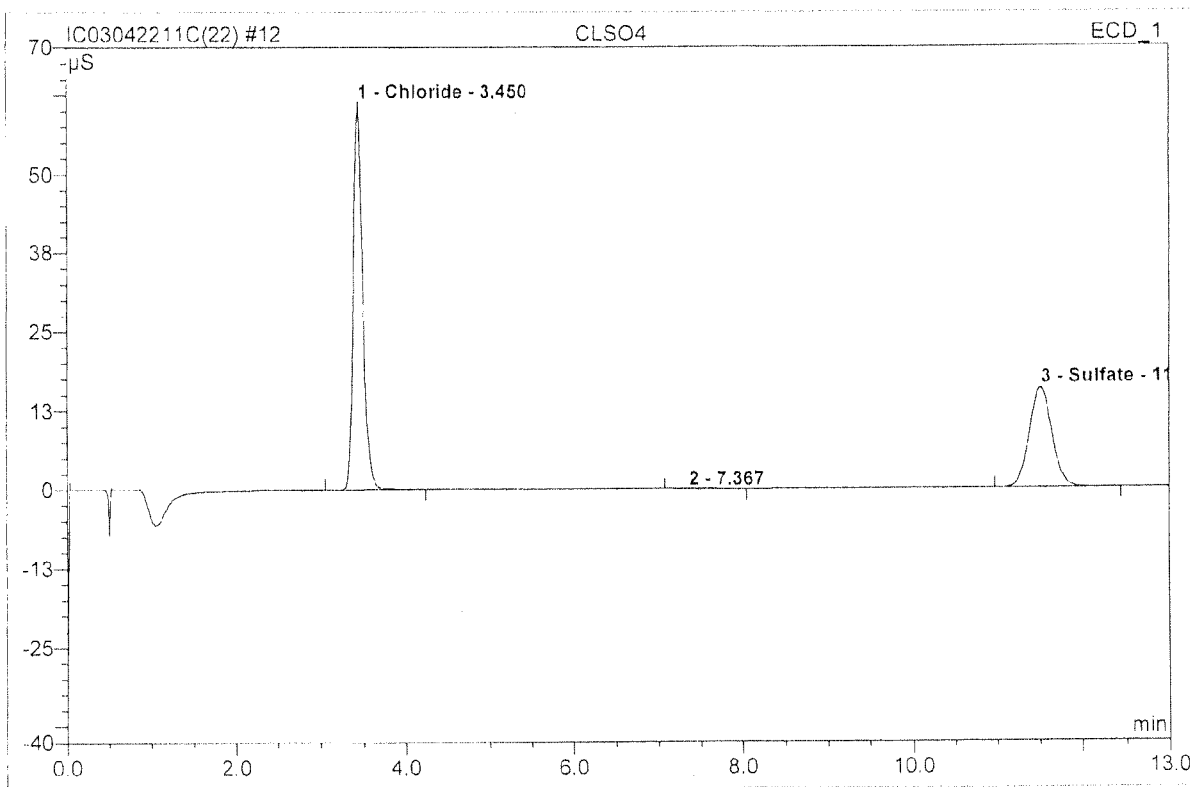
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.45	Nitrite	71.486	12.533	99.72	100.022	BMB
2	6.45	Nitrate	0.123	0.025	0.20	0.152	BMB
3	11.57	Sulfate	0.034	0.010	0.08	0.240	BMB
Total:			71.643	12.568	100.00	100.413	

11 NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/22/2011 16:53	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	49.960	6.399	32.70	18.922	BMB
2	5.55	Bromide	0.048	0.010	0.05	0.088	BMB
3	6.40	Nitrate	62.646	12.702	64.90	15.321	BMB
4	10.20	n.a.	1.223	0.439	2.24	n.a.	BMB
5	11.53	Sulfate	0.064	0.021	0.11	0.100	bMB
Total:			113.941	19.572	100.00	34.431	

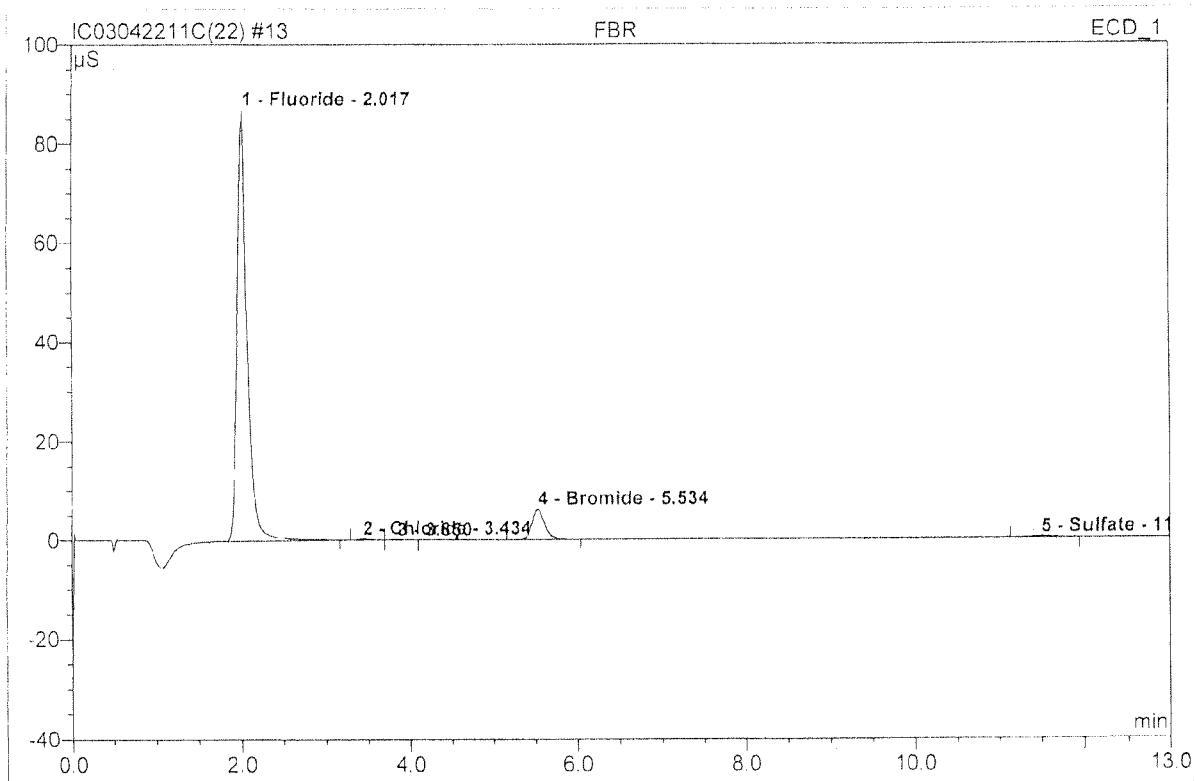
12 CLSO4			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 17:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	61.459	7.776	61.23	4.599	BMB
2	7.37	n.a.	0.031	0.020	0.16	n.a.	BMB
3	11.52	Sulfate	15.818	4.904	38.61	4.567	BMB
Total:			77.308	12.700	100.00	9.166	

13 FBR

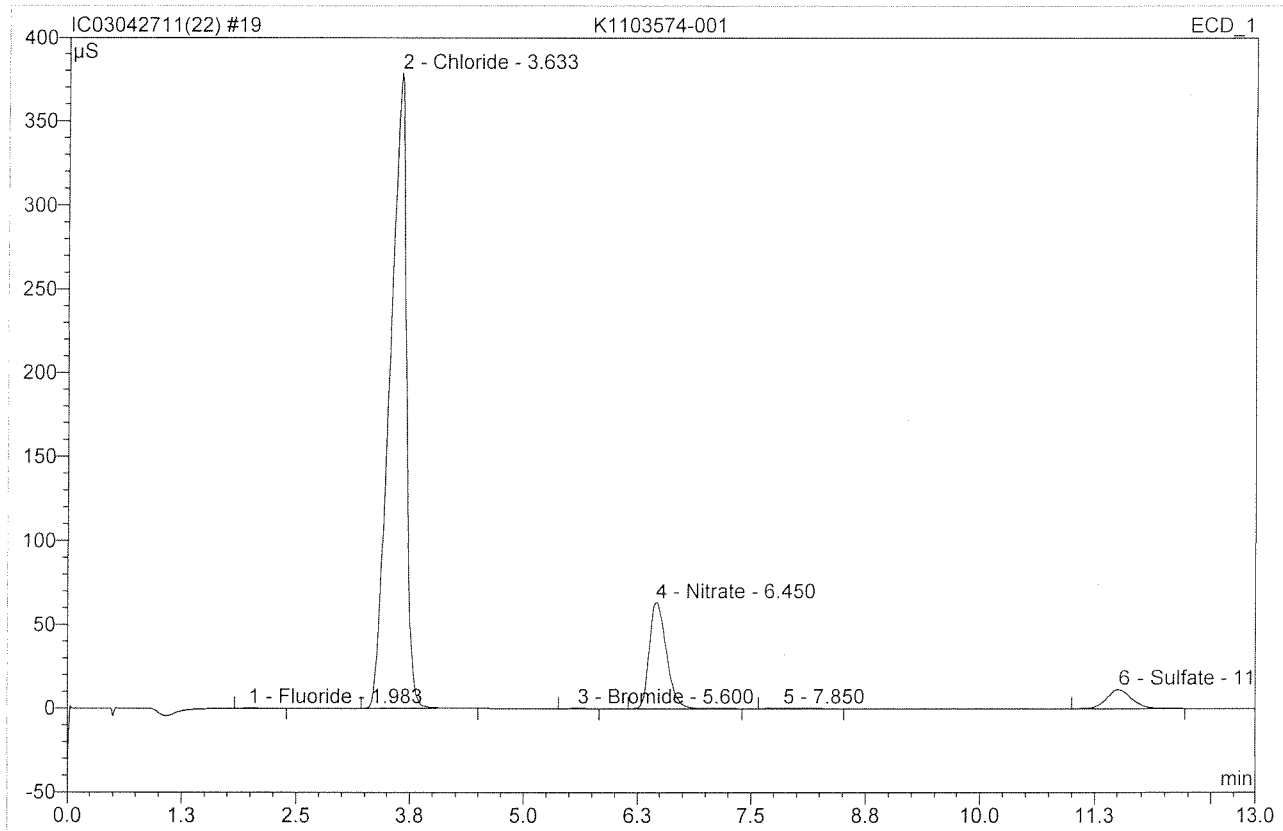
Sample Name:	FBR	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/22/2011 17:24	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.02	Fluoride	87.015	11.882	90.76	10.858	BMB
2	3.43	Chloride	0.229	0.030	0.23	0.036	BMb
3	3.85	n.a.	0.086	0.013	0.10	n.a.	bMB
4	5.53	Bromide	6.210	1.091	8.34	3.692	BMB
5	11.50	Sulfate	0.234	0.074	0.57	0.139	BMB
Total:			93.774	13.091	100.00	14.724	

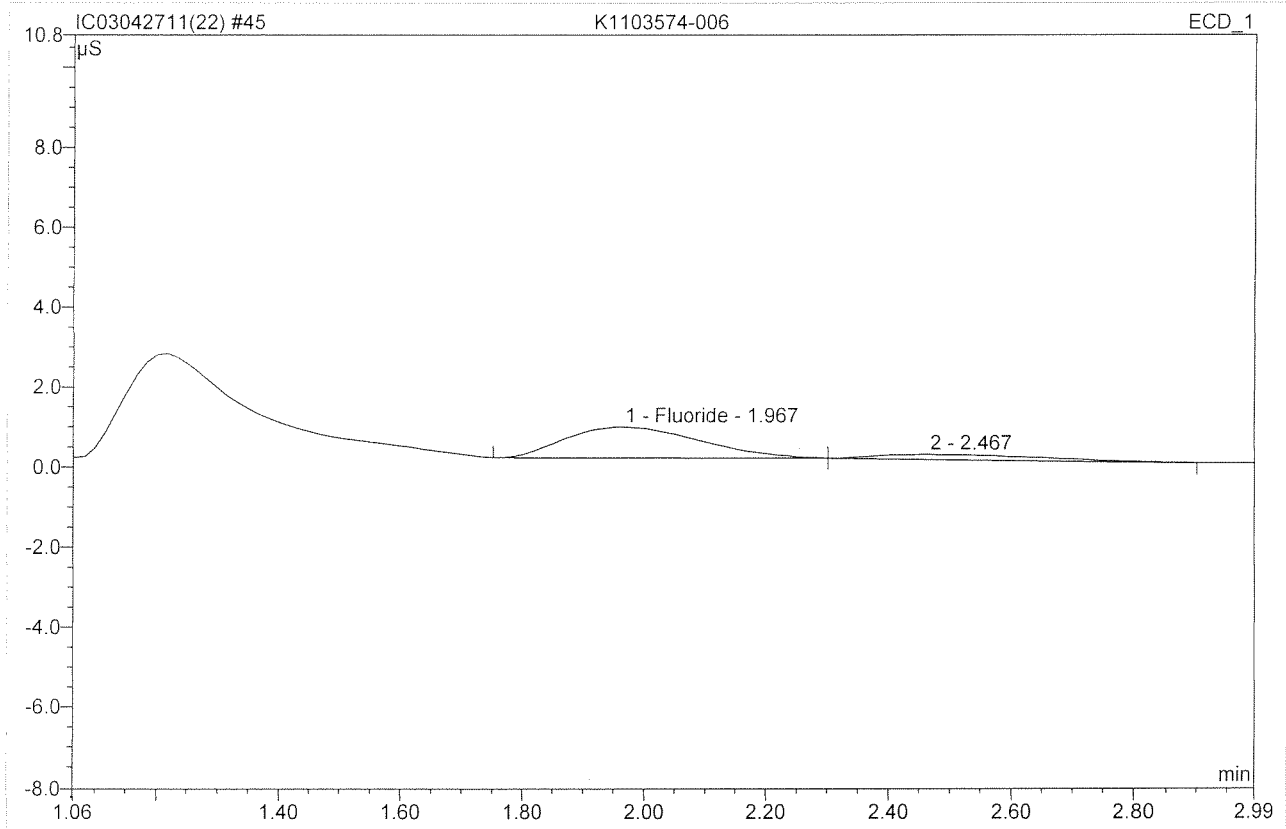
19 K1103574-001

Sample Name:	K1103574-001	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	4/27/2011 10:57	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	0.439	0.078	0.08	0.358	BMB
2	3.63	Chloride	378.651	78.454	81.82	463.970	BMB
3	5.60	Bromide	0.061	0.012	0.01	0.201	BMB
4	6.45	Nitrate	63.483	13.819	14.41	33.337	BMB
5	7.85	n.a.	0.077	0.037	0.04	n.a.	BMB
6	11.52	Sulfate	11.257	3.486	3.64	32.471	BMB
Total:			453.967	95.887	100.00	530.337	

45 K1103574-006			
Sample Name:	K1103574-006	Injection Volume:	200.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 17:52	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
1	1.97	Fluoride	0.764	0.196	0.03	0.179	BMb
2	2.47	n.a.	0.120	0.038	0.01	n.a.	bMB
3	4.05	n.a.	981.684	660.670	93.00	n.a.	BMB
4	5.62	Bromide	0.193	0.024	0.00	0.081	BMb
5	5.85	n.a.	0.350	0.050	0.01	n.a.	bMB
6	6.43	n.a.	23.307	2.522	0.35	n.a.	BMb
7	6.67	Nitrate	29.365	8.495	1.20	4.099	bMb
8	7.40	n.a.	124.822	19.837	2.79	n.a.	bMB
9	10.33	n.a.	0.043	0.013	0.00	n.a.	BMB
10	11.63	Nitrate	60.504	18.540	2.61	34.538	BMB
Total:		Initials <i>nb</i>	1221.152	710.385	100.00	38.896	

APR 28 2011

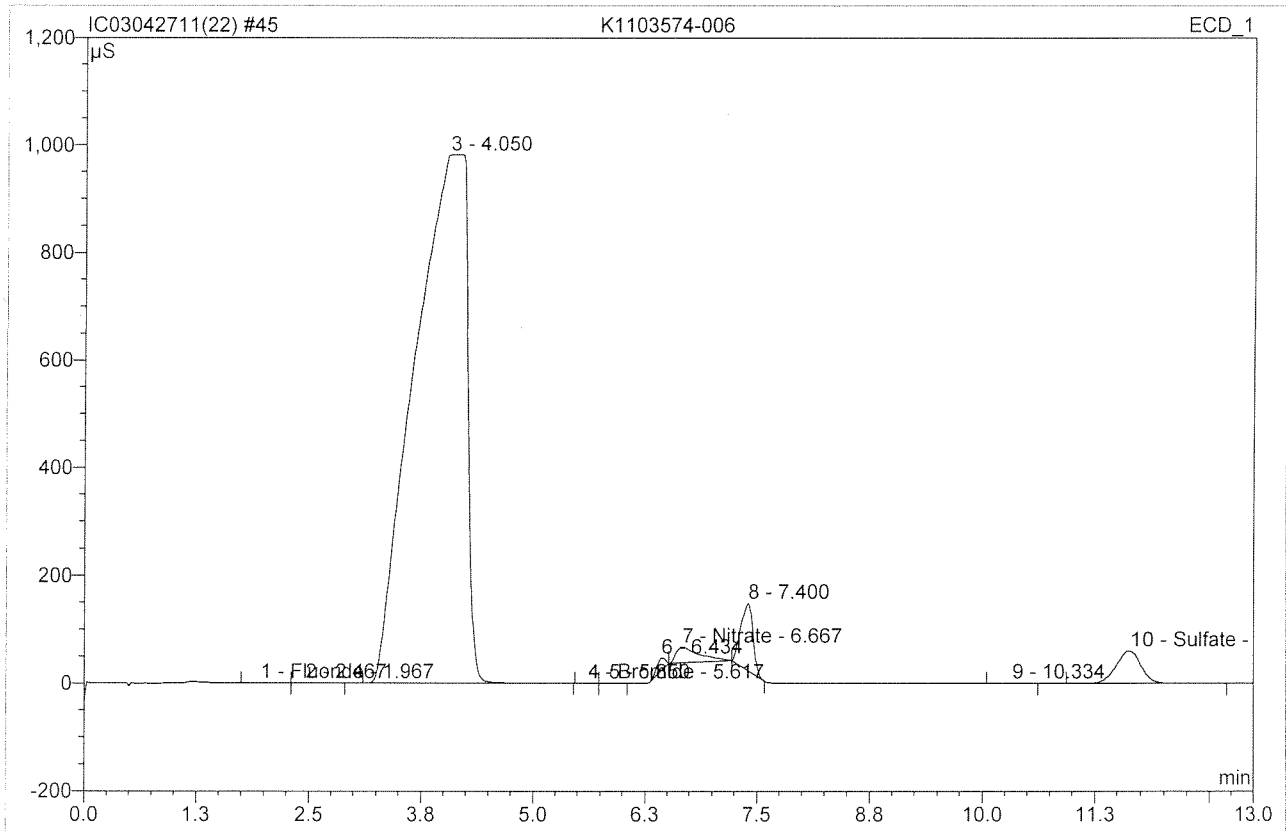
default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect

136

Chromeleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

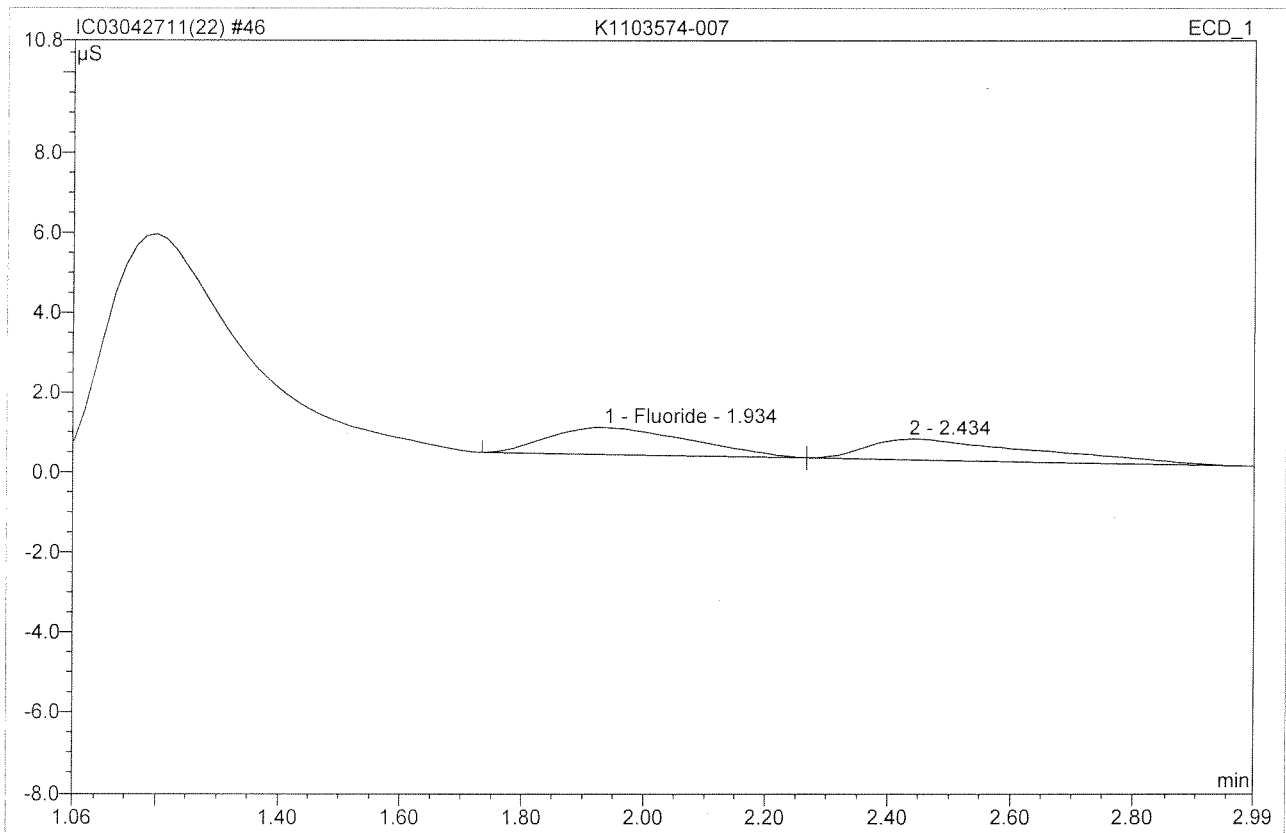
45 K1103574-006			
Sample Name:	K1103574-006	Injection Volume:	200.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 17:52	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride	0.764	0.196	0.03	0.179	BMb
2	2.47	n.a.	0.120	0.038	0.01	n.a.	bMB
3	4.05	n.a.	981.684	660.670	93.00	n.a.	BMB
4	5.62	Bromide	0.193	0.024	0.00	0.081	BMb
5	5.85	n.a.	0.350	0.050	0.01	n.a.	bMB
6	6.43	n.a.	23.307	2.522	0.35	n.a.	BMb
7	6.67	Nitrate	29.365	8.495	1.20	4.099	bMb
8	7.40	n.a.	124.822	19.837	2.79	n.a.	bMB
9	10.33	n.a.	0.043	0.013	0.00	n.a.	BMB
10	11.63	Sulfate	60.504	18.540	2.61	34.538	BMB
Total:			1221.152	710.385	100.00	38.896	

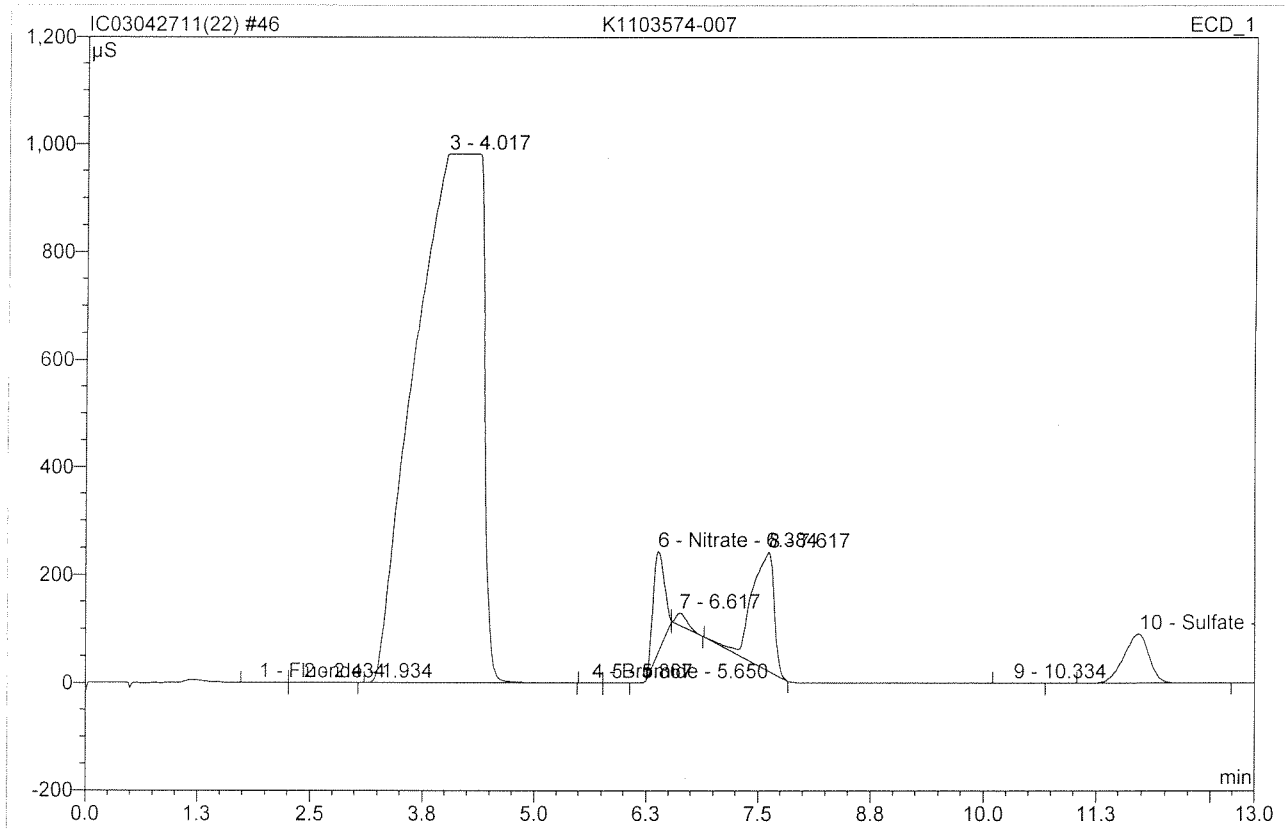
APR 28 2011

46 K1103574-007			
Sample Name:	K1103574-007	Injection Volume:	200.0
Vial Number:	46	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 18:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.93	Fluoride	0.674	0.181	0.02	0.165	BMb
2	2.43	n.a.	0.513	0.172	0.02	n.a.	bMB
3	4.02	n.a.	981.604	848.199	87.56	n.a.	BMB
4	5.65	Bromide	0.363	0.046	0.00	0.156	BMb
5	5.87	n.a.	0.274	0.038	0.00	n.a.	bMB
6	6.38	Nitrate	186.486	26.974	2.78	13.014	BMb
7	6.62	n.a.	21.603	3.219	0.33	n.a.	bMB
8	7.62	n.a.	219.728	61.049	6.30	n.a.	BMB
9	10.33	n.a.	0.042	0.013	0.00	n.a.	BMB
10	11.72	Sulfate	91.917	28.797	2.97	53.646	BMB
Total:		<i>After Initials</i>	1503.204	968.688	100.00	66.981	

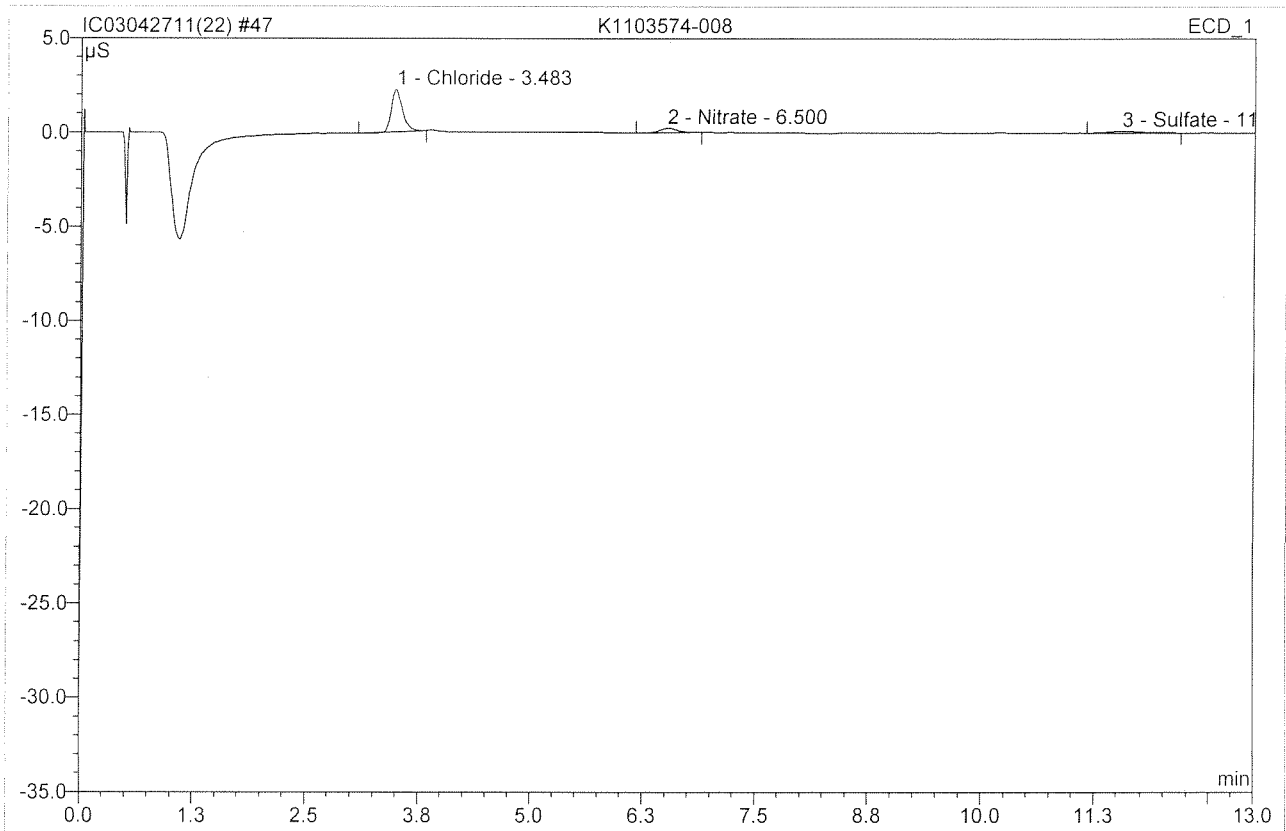
46 K1103574-007			
Sample Name:	K1103574-007	Injection Volume:	200.0
Vial Number:	46	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 18:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.93	Fluoride	0.674	0.181	0.02	0.165	BMb
2	2.43	n.a.	0.513	0.172	0.02	n.a.	bMB
3	4.02	n.a.	981.604	848.199	87.56	n.a.	BMB
4	5.65	Bromide	0.363	0.046	0.00	0.156	BMb
5	5.87	n.a.	0.274	0.038	0.00	n.a.	bMB
6	6.38	Nitrate	186.486	26.974	2.78	13.014	BMb
7	6.62	n.a.	21.603	3.219	0.33	n.a.	bMB
8	7.62	n.a.	219.728	61.049	6.30	n.a.	BMB
9	10.33	n.a.	0.042	0.013	0.00	n.a.	BMB
10	11.72	Sulfate	91.917	28.797	2.97	53.646	BMB
Total:			1503.204	968.688	100.00	66.981	

Before
APR 28 2011

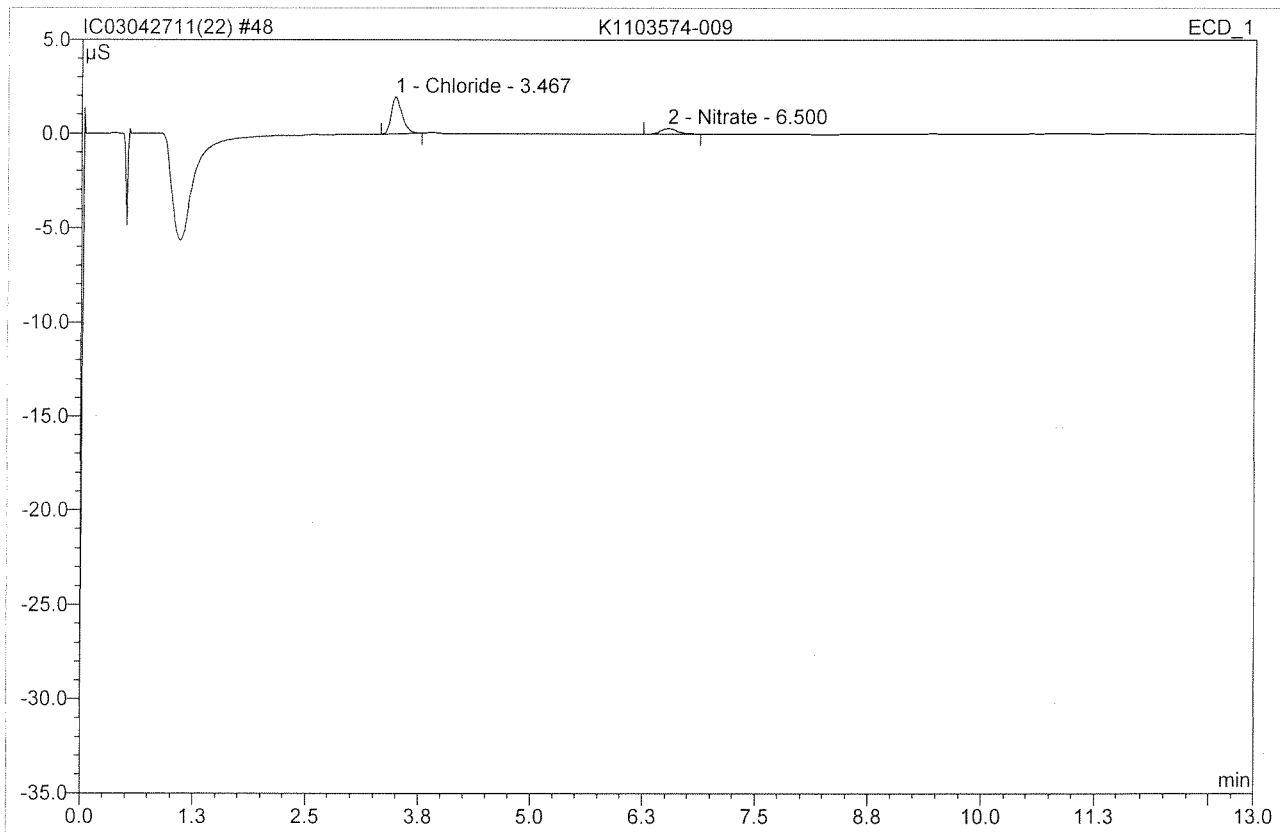
47 K1103574-008			
Sample Name:	K1103574-008	Injection Volume:	200.0
Vial Number:	47	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 18:23	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.48	Chloride	2.241	0.313	77.47	0.370	BMB
2	6.50	Nitrate	0.234	0.052	12.84	0.025	BMB
3	11.53	Sulfate	0.103	0.039	9.69	0.073	BMB
Total:			2.578	0.404	100.00	0.468	

FC020

48 K1103574-009			
Sample Name:	K1103574-009	Injection Volume:	200.0
Vial Number:	48	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 18:39	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

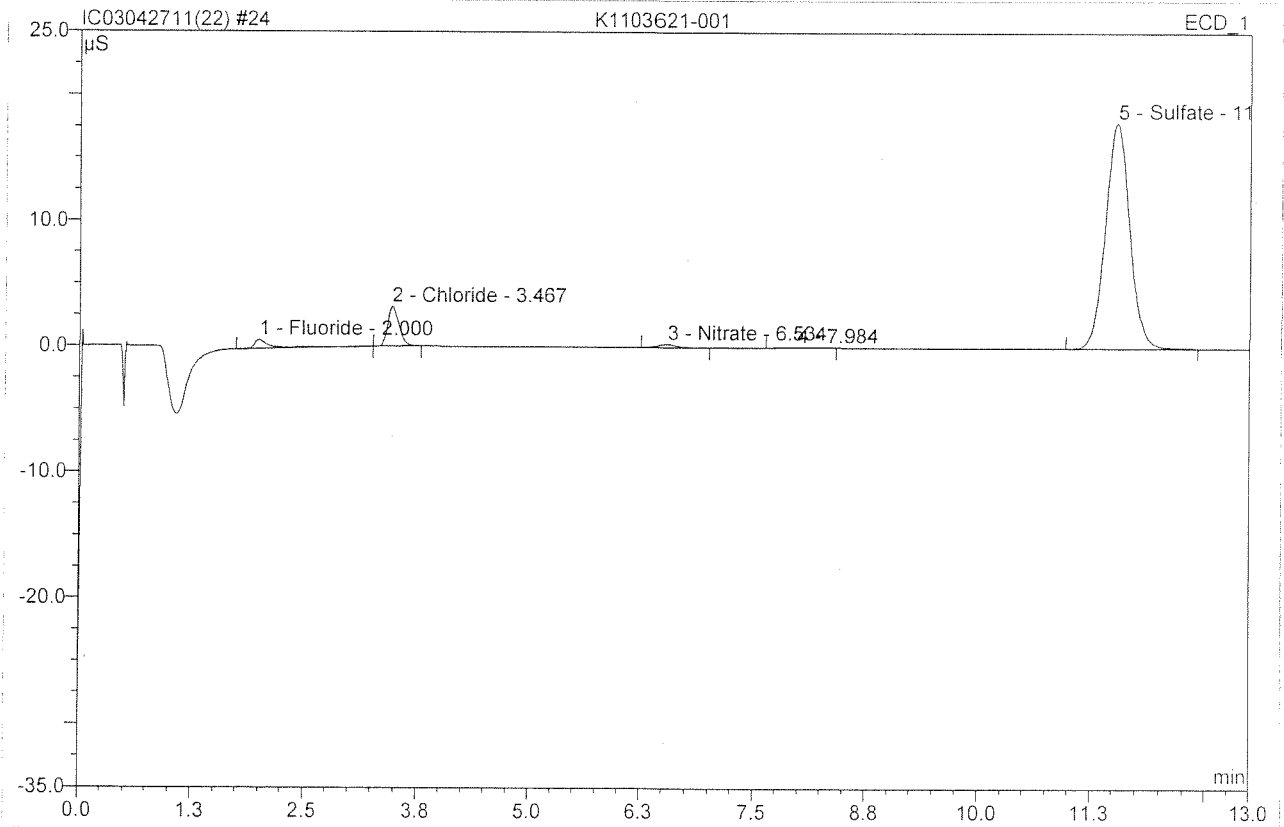


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.47	Chloride	1.963	0.275	81.33	0.325	BMB
2	6.50	Nitrate	0.296	0.063	18.67	0.030	BMB
Total:			2.259	0.338	100.00	0.356	

F 20120
SQ1 ↓

24 K1103621-001

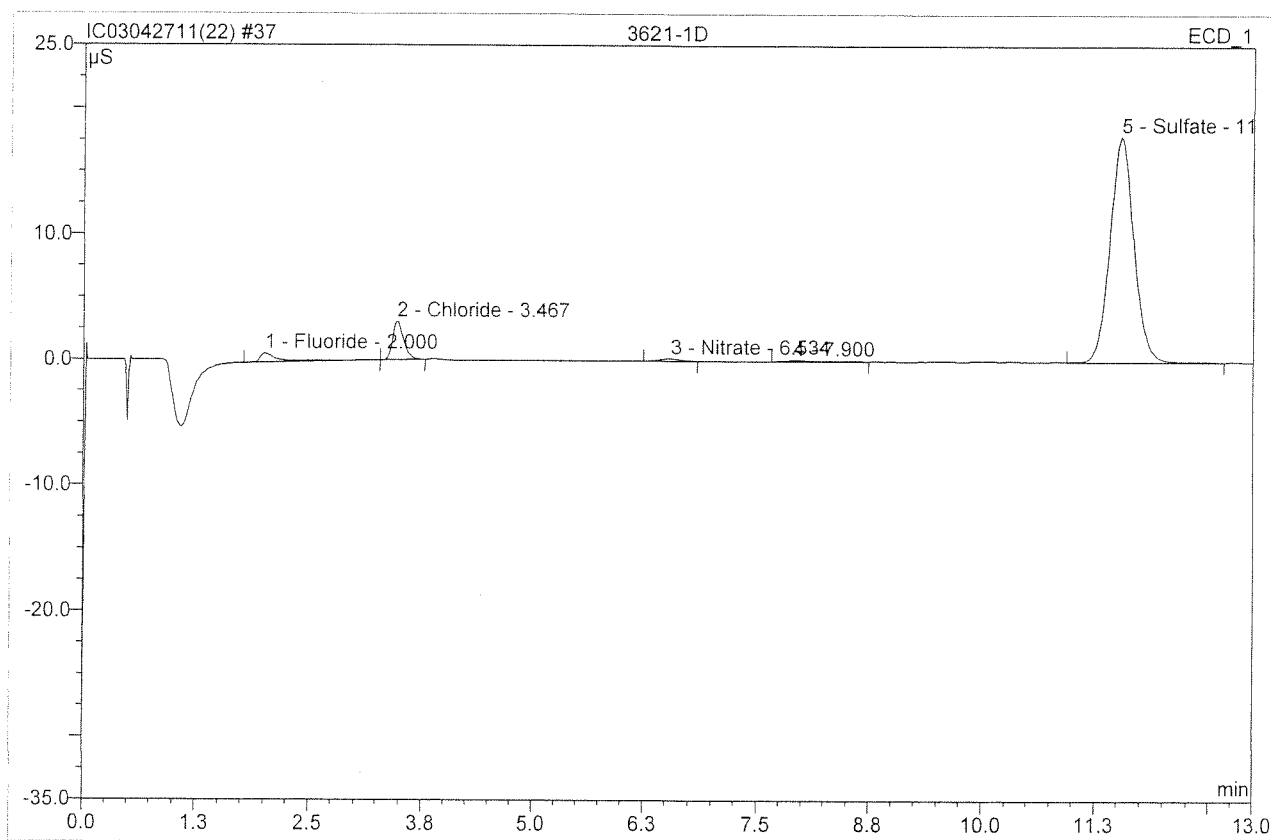
Sample Name:	K1103621-001	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 12:28	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride <i>x=0.70 RPD-</i>	0.710	0.161	2.59	0.147	BMB
2	3.47	Chloride <i>x=0.58 RPD=4</i>	3.171	0.455	7.30	0.538	bMB
3	6.53	Nitrate <i>x=0.10 RPD-</i>	0.248	0.055	0.89	0.027	BMB
4	7.98	n.a.	0.056	0.022	0.35	n.a.	BMB
5	11.53	Sulfate <i>x=10.3 RPD<1</i>	17.956	5.542	88.88	10.324	BMB
Total:			22.141	6.235	100.00	11.036	

37 3621-1D**D**

Sample Name:	3621-1D	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 15:49	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

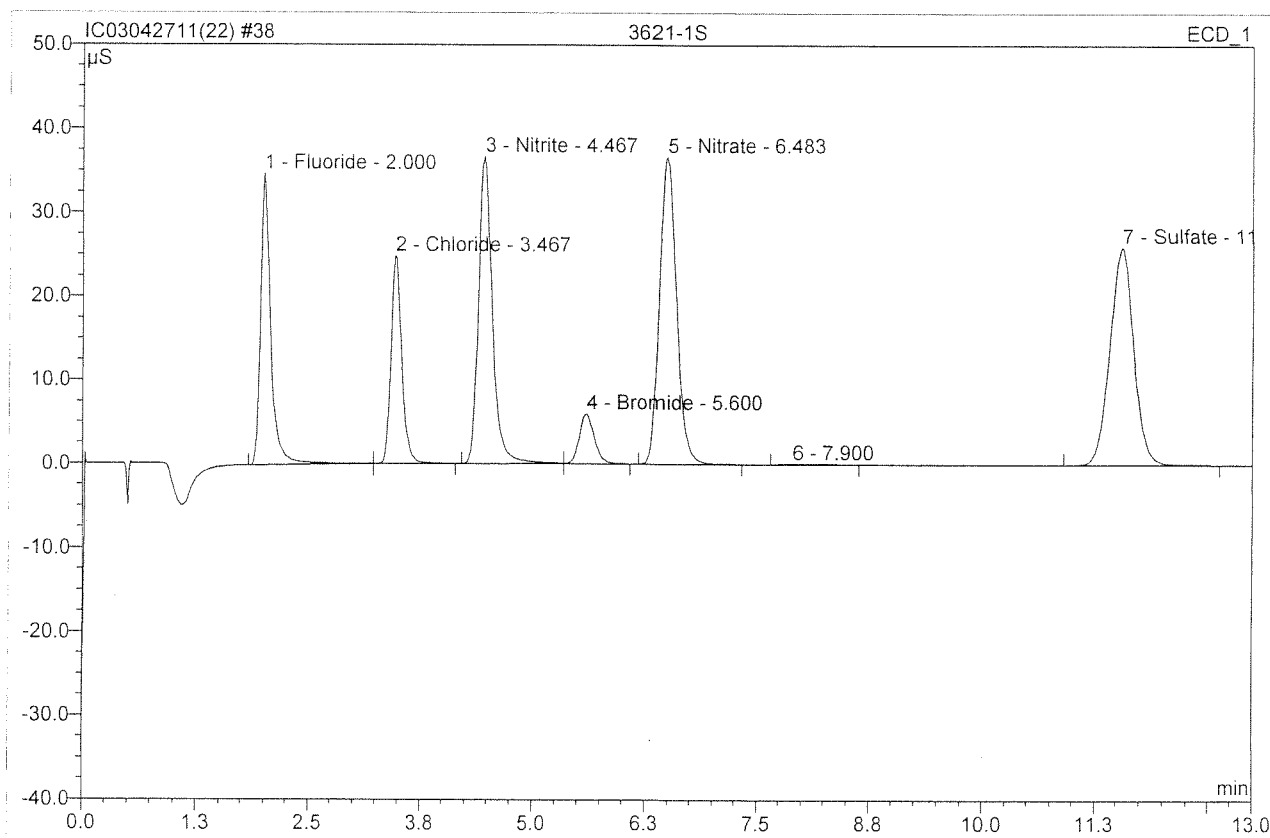


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	0.716	0.177	2.84	0.162	BMB
2	3.47	Chloride	3.095	0.442	7.11	0.523	bMB
3	6.53	Nitrate	0.178	0.038	0.61	0.018	BMB
4	7.90	n.a.	0.061	0.032	0.51	n.a.	BMB
5	11.53	Sulfate	17.876	5.536	88.93	10.313	BMB
Total:			21.926	6.225	100.00	11.016	

38 3621-1S

MS

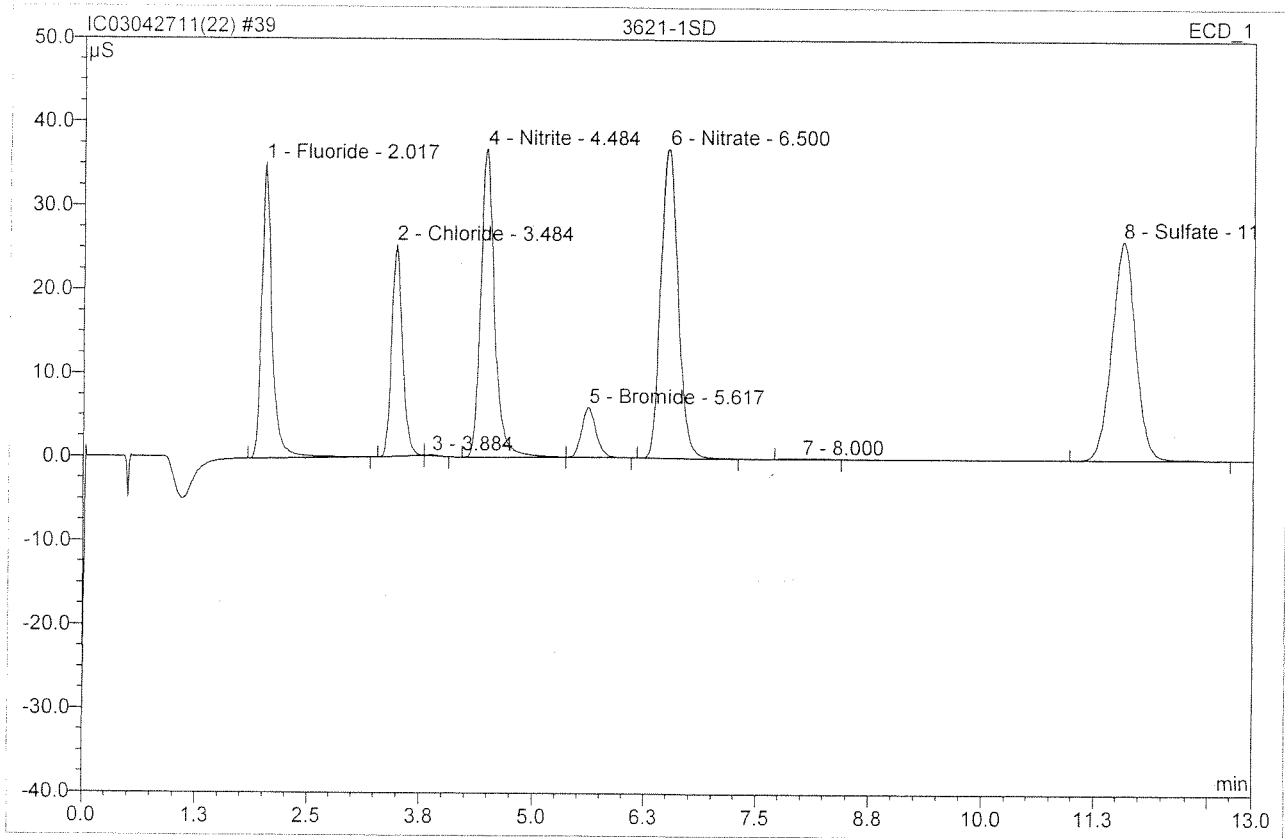
Sample Name:	3621-1S	Injection Volume:	200.0
Vial Number:	38	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 16:04	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride <i>REC=108</i>	34.829	4.719	14.87	4.312	BMB
2	3.47	Chloride <i>REC=90</i>	24.892	3.490	11.00	4.128	bMB
3	4.47	Nitrite <i>REC=104</i>	36.716	6.513	20.53	4.158	BMb
4	5.60	Bromide <i>REC=97</i>	5.961	1.142	3.60	3.864	bMB
5	6.48	Nitrate <i>REC=95</i>	36.728	7.841	24.71	3.783	BMB
6	7.90	n.a.	0.076	0.036	0.11	n.a.	BMB
7	11.55	Sulfate <i>REC=115</i>	26.000	7.986	25.17	14.877	BMB
Total:			165.204	31.726	100.00	35.122	

*SPK 101
4*

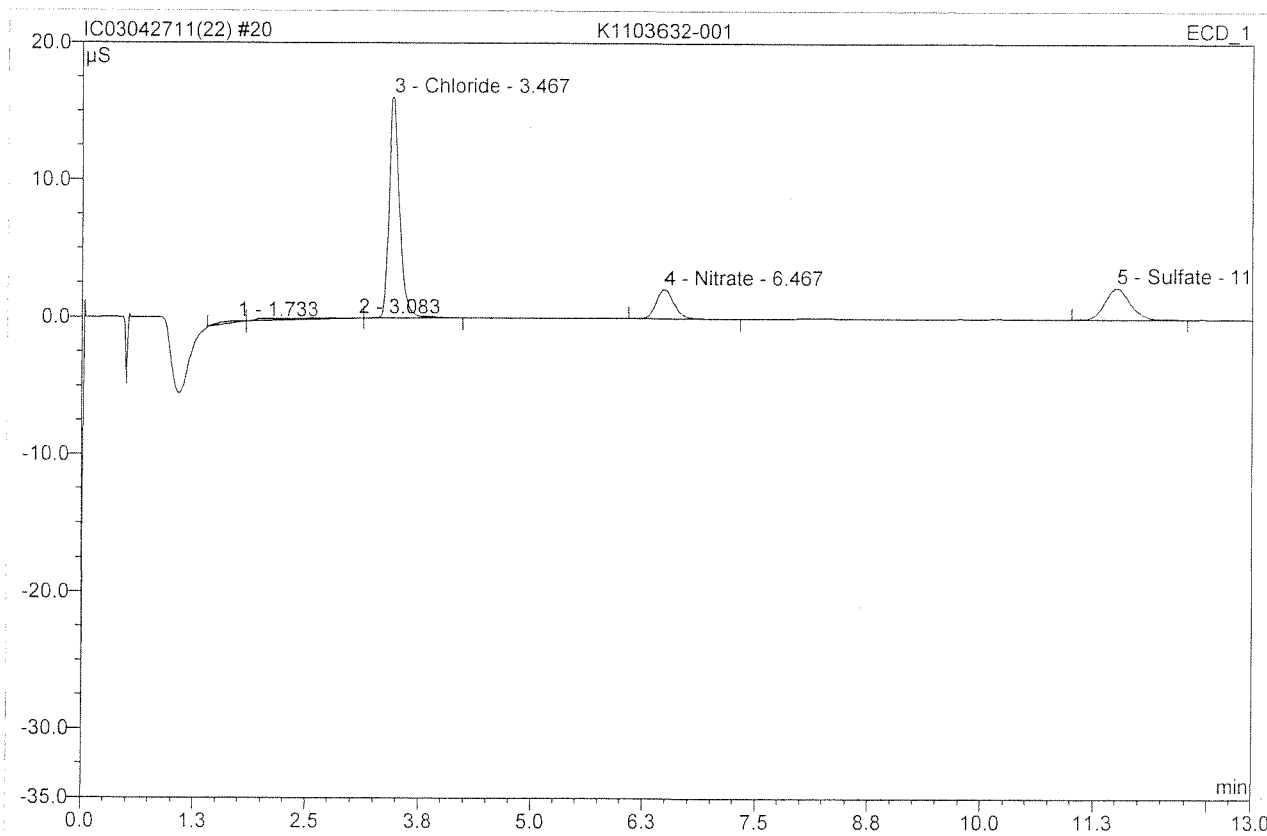
39 3621-1SD			
MSD			
Sample Name:	3621-1SD	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 16:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride REC=109	35.333	4.762	14.92	4.352	BMB
2	3.48	Chloride REC=88	25.317	3.440	10.78	4.069	BMB
3	3.88	n.a.	0.117	0.015	0.05	n.a.	bMB
4	4.48	Nitrite REC=106	36.802	6.609	20.71	4.220	BMB
5	5.62	Bromide REC=97	6.003	1.151	3.61	3.892	bMB
6	6.50	Nitrate REC=95	36.962	7.878	24.69	3.801	BMB
7	8.00	n.a.	0.058	0.024	0.08	n.a.	BMB
8	11.55	Sulfate REC=118	26.182	8.034	25.18	14.967	BMB
Total:			166.775	31.912	100.00	35.300	

SPK 101
4/28

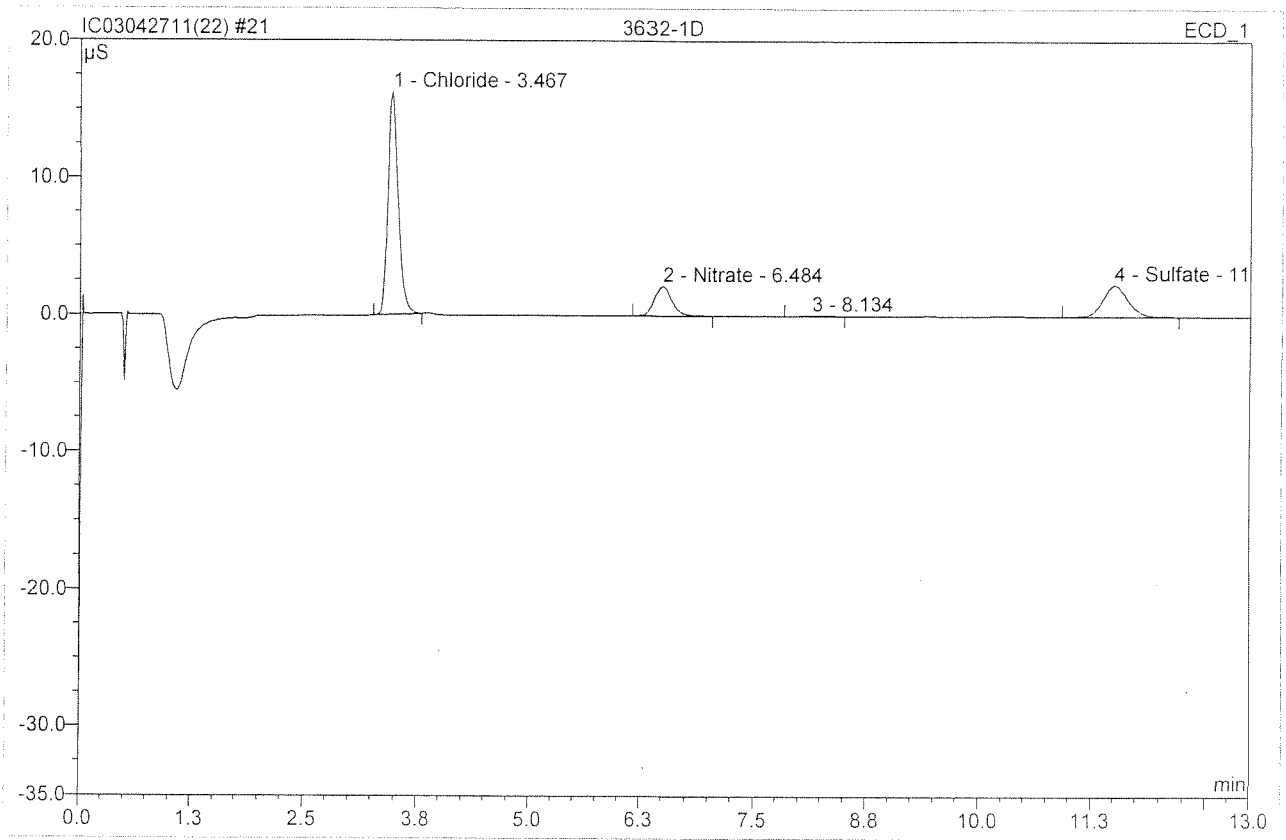
20 K1103632-001			
Sample Name:	K1103632-001	Injection Volume:	200.0
Vial Number:	20	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 11:12	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.73	n.a.	0.135	0.057	1.61	n.a.	BMb
2	3.08	n.a.	0.013	0.104	2.94	n.a.	bMB
3	3.47	Chloride <i>x=2.55 RPD=2</i>	16.072	2.175	61.63	2.573	bMB
4	6.47	Nitrate <i>x=0.27 RPD<1</i>	2.121	0.454	12.87	0.219	BMB
5	11.50	Sulfate <i>x=1.38 RPD<1</i>	2.274	0.740	20.96	1.378	BMB
Total:			20.615	3.529	100.00	4.169	

*F CO₂O x CO₂O RPD~
NO₂ <0.10 x CO₁O ↓*

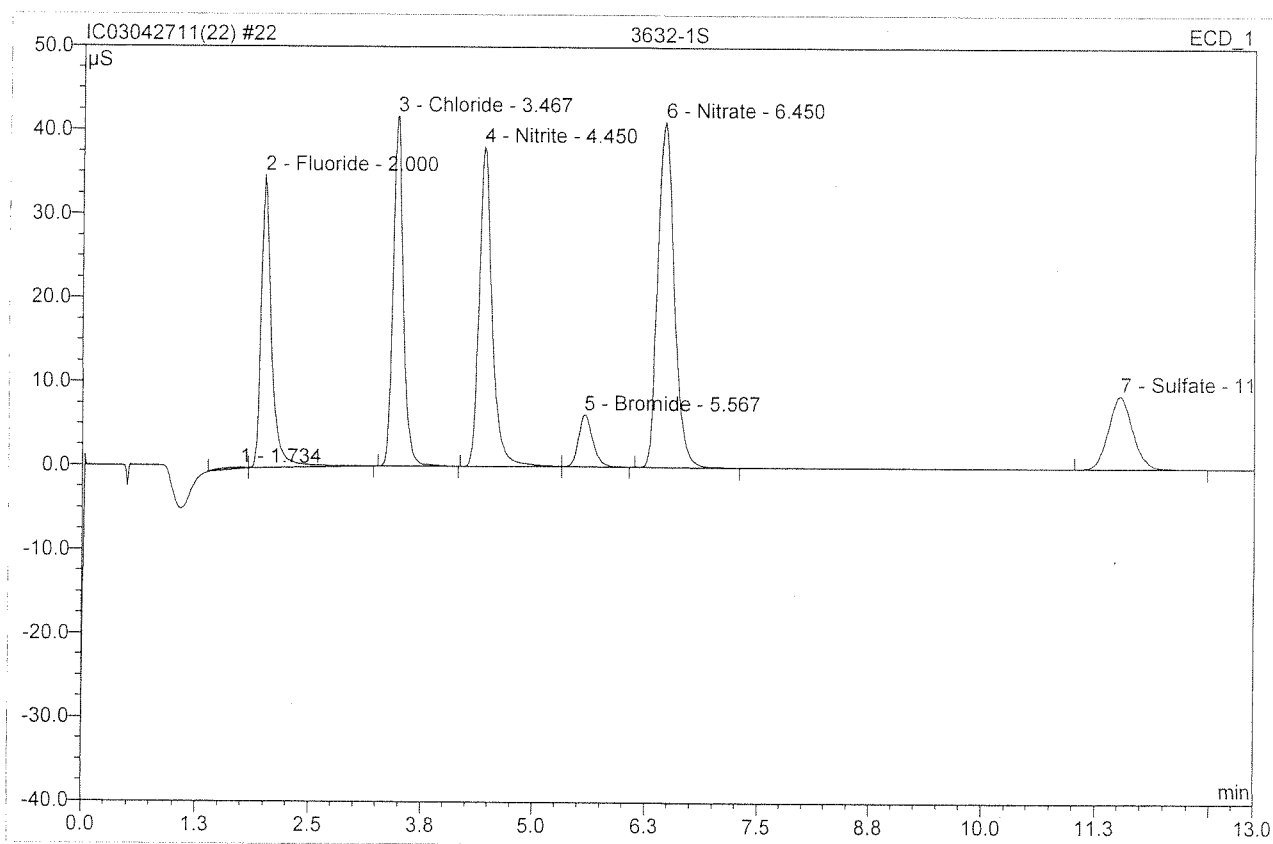
21 3632-1D			
D			
Sample Name:	3632-1D	Injection Volume:	200.0
Vial Number:	21	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 11:41	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.47	Chloride	16.243	2.129	63.86	2.518	BMB
2	6.48	Nitrate	2.130	0.452	13.55	0.218	BMB
3	8.13	n.a.	0.034	0.011	0.34	n.a.	BMB
4	11.50	Sulfate	2.271	0.742	22.25	1.382	BMB
Total:			20.678	3.334	100.00	4.118	

F < 0.20
NO₂ < 0.10

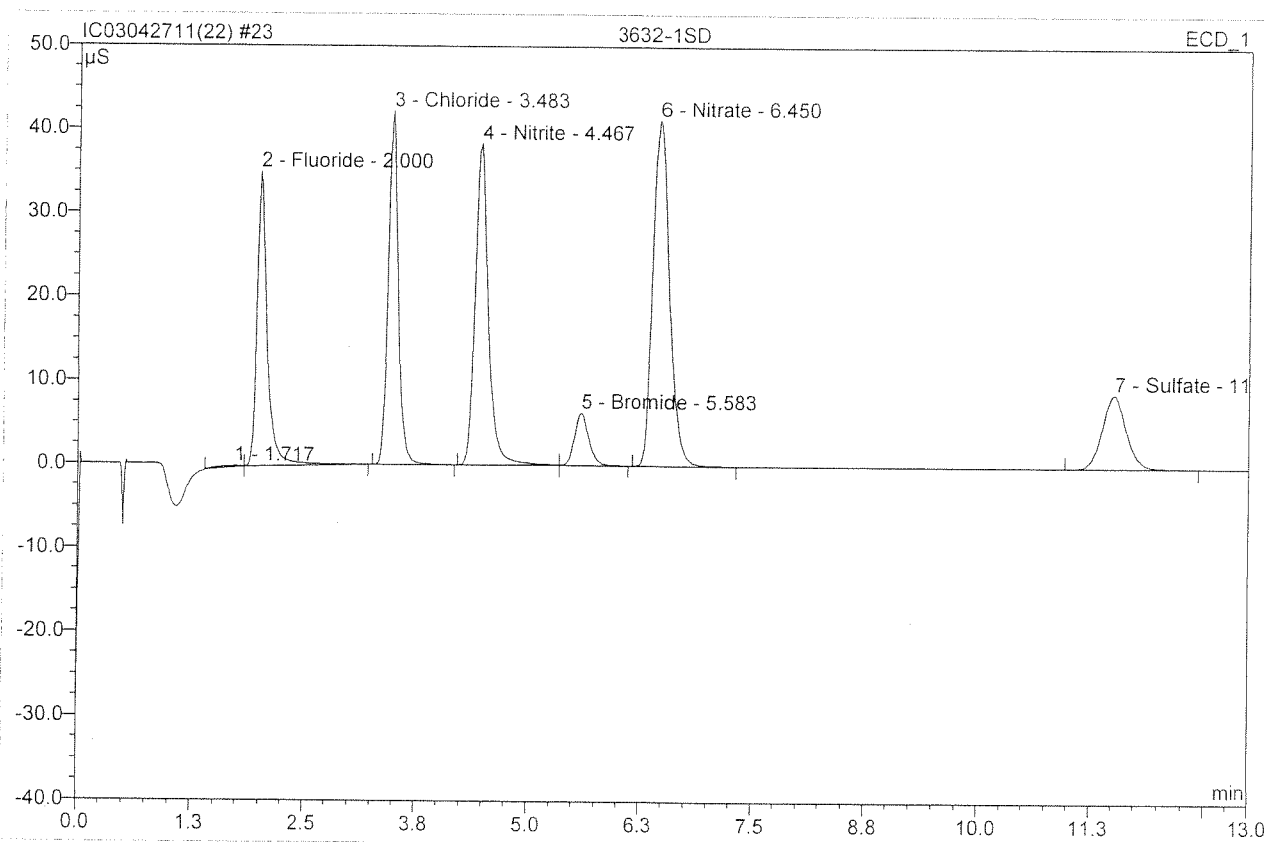
22 3632-1S			
MS			
Sample Name:	3632-1S	Injection Volume:	200.0
Vial Number:	22	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 11:57	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.73	n.a.	0.129	0.061	0.21	n.a.	BMb
2	2.00	Fluoride <i>RFC=105</i>	34.878	4.604	15.82	4.207	bMB
3	3.47	Chloride <i>RFC=101</i>	41.698	5.580	19.18	6.600	BMB
4	4.45	Nitrite <i>RFC=104</i>	38.063	6.505	22.36	4.153	BMb
5	5.57	Bromide <i>RFC=107</i>	6.205	1.141	3.92	3.861	bMB
6	6.45	Nitrate <i>RFC=102</i>	41.136	8.454	29.05	4.079	BMB
7	11.52	Sulfate <i>RFC=94</i>	8.724	2.751	9.45	5.124	BMB
Total:			170.832	29.095	100.00	28.024	

5pk w/ 4/

23 3632-1SD			
MSD			
Sample Name:	3632-1SD	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 12:12	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S} \cdot \text{min}$	Rel.Area %	Amount	Type
1	1.72	n.a.	0.131	0.050	0.17	n.a.	BMB
2	2.00	Fluoride <i>REC=107</i>	35.164	4.675	15.98	4.272	bMB
3	3.48	Chloride <i>REC=101</i>	42.215	5.592	19.11	6.614	BMB
4	4.47	Nitrite <i>REC=104</i>	38.297	6.518	22.28	4.162	BMB
5	5.58	Bromide <i>REC=97</i>	6.273	1.148	3.92	3.884	bMB
6	6.45	Nitrate <i>REC=97</i>	41.249	8.493	29.03	4.098	BMB
7	11.52	Sulfate <i>REC=95</i>	8.763	2.777	9.49	5.173	BMB
Total:			172.092	29.253	100.00	28.203	

spt w/ 4

Sequence # 1C0304271102

Ion Chromatography Data Quality Report
Inorganics

Run # 243855

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met?
 - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
 - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
 - c. Are results for Method Blanks all ND? yes/no/NA
 - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
 - e. Are all exceptions explained? yes/no/NA
- 6. Are all samples labelled correctly? 3574 samples filtered prior to analysis yes/no/NA

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS

Fluoride	True Value = 11.0 ppm	CAS ID # = <u>AN1-34-K</u>	Expires: <u>9.3.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0121-11-01</u>	Expires: <u>7.25.11</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN1-25-66</u>	Expires: <u>4.27.11</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>6.9.11</u>
Nitrate	True Value = 15.2 ppm	CAS ID # = <u>AN1-34-F</u>	Expires: <u>7.27.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0121-11-01</u>	Expires: <u>7.25.11</u>

CCV

	CAS ID # = <u>AN11-88-B</u>	Expires <u>4.27.11</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>4.28.11</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-34-H</u>	Expires: <u>8.7.11</u>
Nitrite	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>4.28.11</u>
Bromide	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-34-E</u>	Expires: <u>6.22.11</u>
Nitrate	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-34-L</u>	Expires: <u>10.18.11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-34-I</u>	Expires: <u>8.7.11</u>

Spike

2.0ppm X dilution factor	CAS ID# = <u>AN11-78-B</u>	Expires <u>4.27.11</u>
Fluoride	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>CCV</u>
Chloride	10K CAS ID # = <u>AN1-34-H</u>	Expires: <u>✓</u>
Nitrite	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>✓</u>
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>✓</u>
Nitrate	10K CAS ID # = <u>AN1-34-L</u>	Expires: <u>✓</u>
Sulfate	10K CAS ID # = <u>AN1-34-I</u>	Expires: <u>✓</u>

Analyst: nb Date: 4.27.11

First Review: ↓ Date: 4.27/28.11

Final Review: ee Date: 4/29/11

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: ECRONWELL

Analysis Lot:

243855

Method/Testcode: 300.0/SO4

Up Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
1103330-002	Sulfate	N/A		Misc. Liquid	332.25 mg/L	5 mL	332 mg/L	100	1	20			4/27/11 18:54:00	N	II
1103562-001	Chloride	N/A		Water	0.79 mg/L	5 mL	0.79 mg/L	2	0.06	0.40			4/27/11 17:21:00	N	V
1103563-001	Chloride	N/A		Water	1.72 mg/L	5 mL	1.72 mg/L	2	0.06	0.40			4/27/11 17:37:00	N	V
1103574-001	Nitrate as Nitrogen	N/A		Water	33.34 mg/L	5 mL	33.3 mg/L	10	0.04	0.50			4/27/11 10:57:00	N	IV
1103574-006	Fluoride	N/A		Water	0.18 mg/L	5 mL	0.18 mg/L	2	0.006	0.40			4/27/11 17:52:00	N	IV
1103574-007	Fluoride	N/A		Water	0.17 mg/L	5 mL	0.17 mg/L	2	0.006	0.40			4/27/11 18:08:00	N	IV
1103574-008	Chloride	N/A		Water	0.37 mg/L	5 mL	0.37 mg/L	2	0.06	0.40			4/27/11 18:23:00	N	IV
1103574-008	Fluoride	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			4/27/11 18:23:00	N	IV
1103574-008	Sulfate	N/A		Water	0.07 mg/L	5 mL	0.07 mg/L	2	0.02	0.40			4/27/11 18:23:00	N	IV
1103574-009	Chloride	N/A		Water	0.33 mg/L	5 mL	0.33 mg/L	2	0.06	0.40			4/27/11 18:39:00	N	IV
1103574-009	Fluoride	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			4/27/11 18:39:00	N	IV
1103574-009	Sulfate	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.02	0.40			4/27/11 18:39:00	N	IV
1103621-001	Sulfate	N/A		Water	10.32 mg/L	5 mL	10.3 mg/L	2	0.02	0.40			4/27/11 12:28:00	N	II
1103621-002	Sulfate	N/A		Water	12.61 mg/L	5 mL	12.6 mg/L	2	0.02	0.40			4/27/11 12:43:00	N	II
1103621-003	Sulfate	N/A		Water	2.76 mg/L	5 mL	2.76 mg/L	2	0.02	0.40			4/27/11 12:59:00	N	II
1103621-004	Sulfate	N/A		Water	5.02 mg/L	5 mL	5.02 mg/L	2	0.02	0.40			4/27/11 13:14:00	N	II
1103632-001	Chloride	N/A		Drinking Water	2.57 mg/L	5 mL	2.57 mg/L	2	0.06	0.40			4/27/11 11:12:00	N	I
1103632-001	Fluoride	N/A		Drinking Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			4/27/11 11:12:00	N	IV
1103632-001	Nitrate as Nitrogen	N/A		Drinking Water	0.22 mg/L	5 mL	0.22 mg/L	2	0.008	0.10			4/27/11 11:12:00	N	I
1103632-001	Nitrate as Nitrogen	N/A		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			4/27/11 11:12:00	N	I
1103632-001	Sulfate	N/A		Drinking Water	1.38 mg/L	5 mL	1.38 mg/L	2	0.02	0.40			4/27/11 11:12:00	N	I
1103647-001	Chloride	N/A		Water	1.33 mg/L	5 mL	1.33 mg/L	2	0.06	0.40			4/27/11 14:16:00	N	V
1103647-001	Nitrate as Nitrogen	N/A		Water	0.10 mg/L	5 mL	0.10 mg/L	2	0.008	0.10			4/27/11 14:16:00	N	V
1103647-001	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			4/27/11 14:16:00	N	V
1103647-001	Sulfate	N/A		Water	4.06 mg/L	5 mL	4.06 mg/L	2	0.02	0.40			4/27/11 14:16:00	N	V
1103649-001	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	2	0.04	0.20			4/27/11 14:31:00	N	V
1103649-001	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	2	0.008	0.20			4/27/11 14:31:00	N	V
1103649-001	Chloride	N/A		Water	5.57 mg/L	5 mL	5.57 mg/L	2	0.06	0.40			4/27/11 14:31:00	N	V
1103649-001	Fluoride	N/A		Water	0.08 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			4/27/11 14:31:00	N	V
1103649-001	Nitrate as Nitrogen	N/A		Water	2.34 mg/L	5 mL	2.34 mg/L	2	0.008	0.10			4/27/11 14:31:00	N	V
1103649-001	Nitrate as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			4/27/11 14:31:00	N	V
1103649-001	Sulfate	N/A		Water	11.57 mg/L	5 mL	11.6 mg/L	2	0.06	0.40			4/27/11 14:31:00	N	V
1103649-001	Sulfate	N/A		Water	11.57 mg/L	5 mL	11.6 mg/L	2	0.06	0.40			4/27/11 14:31:00	N	V
1103649-002	Bromide	N/A		Water	0.00 mg/L	5 mL	11.6 mg/L	2	0.02	0.40			4/27/11 14:31:00	N	V
1103649-002	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	2	0.04	0.20			4/27/11 14:47:00	N	V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03 Analyst: ECRONWELL Analysis Lot: 243855 Method/Testcode: 300.0/Br

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
1103649-002	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.008	0.20			4/27/11 14:47:00	N	V
1103649-002	Chloride	N/A		Water	2.46 mg/L	5 mL	2.46 mg/L	2	0.06	0.40			4/27/11 14:47:00	N	V
1103649-002	Fluoride	N/A		Water	0.08 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			4/27/11 14:47:00	N	V
1103649-002	Nitrate as Nitrogen	N/A		Water	1.76 mg/L	5 mL	1.76 mg/L	2	0.008	0.10			4/27/11 14:47:00	N	V
1103649-002	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/27/11 14:47:00	N	V
1103649-002	Sulfate	N/A		Water	10.87 mg/L	5 mL	10.9 mg/L	2	0.06	0.40			4/27/11 14:47:00	N	V
1103649-002	Sulfate	N/A		Water	10.87 mg/L	5 mL	10.9 mg/L	2	0.02	0.40			4/27/11 14:47:00	N	V
1103649-003	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.04	0.20			4/27/11 15:02:00	N	V
1103649-003	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.008	0.20			4/27/11 15:02:00	N	V
1103649-003	Chloride	N/A		Water	1.33 mg/L	5 mL	1.33 mg/L	2	0.06	0.40			4/27/11 15:02:00	N	V
1103649-003	Fluoride	N/A		Water	0.05 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			4/27/11 15:02:00	N	V
1103649-003	Nitrate as Nitrogen	N/A		Water	0.10 mg/L	5 mL	0.10 mg/L	U 2	0.008	0.10			4/27/11 15:02:00	N	V
1103649-003	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/27/11 15:02:00	N	V
1103649-003	Sulfate	N/A		Water	4.05 mg/L	5 mL	4.05 mg/L	2	0.06	0.40			4/27/11 15:02:00	N	V
1103649-003	Sulfate	N/A		Water	4.05 mg/L	5 mL	4.05 mg/L	2	0.02	0.40			4/27/11 15:02:00	N	V
1103649-004	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.04	0.20			4/27/11 15:18:00	N	V
1103649-004	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.008	0.20			4/27/11 15:18:00	N	V
1103649-004	Chloride	N/A		Water	1.41 mg/L	5 mL	1.41 mg/L	2	0.06	0.40			4/27/11 15:18:00	N	V
1103649-004	Fluoride	N/A		Water	0.05 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			4/27/11 15:18:00	N	V
1103649-004	Nitrate as Nitrogen	N/A		Water	0.13 mg/L	5 mL	0.13 mg/L	2	0.008	0.10			4/27/11 15:18:00	N	V
1103649-004	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/27/11 15:18:00	N	V
1103649-004	Sulfate	N/A		Water	4.20 mg/L	5 mL	4.20 mg/L	2	0.06	0.40			4/27/11 15:18:00	N	V
1103649-004	Sulfate	N/A		Water	4.20 mg/L	5 mL	4.20 mg/L	2	0.02	0.40			4/27/11 15:18:00	N	V
1103649-005	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.04	0.20			4/27/11 15:33:00	N	V
1103649-005	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.008	0.20			4/27/11 15:33:00	N	V
1103649-005	Chloride	N/A		Water	6.35 mg/L	5 mL	6.35 mg/L	2	0.06	0.40			4/27/11 15:33:00	N	V
1103649-005	Fluoride	N/A		Water	0.07 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			4/27/11 15:33:00	N	V
1103649-005	Nitrate as Nitrogen	N/A		Water	2.72 mg/L	5 mL	2.72 mg/L	2	0.008	0.10			4/27/11 15:33:00	N	V
1103649-005	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/27/11 15:33:00	N	V
1103649-005	Sulfate	N/A		Water	11.68 mg/L	5 mL	11.7 mg/L	2	0.06	0.40			4/27/11 15:33:00	N	V
1103649-005	Sulfate	N/A		Water	11.68 mg/L	5 mL	11.7 mg/L	2	0.02	0.40			4/27/11 15:33:00	N	V
Q1103752-01	Chloride	MS	K1103632-001	Drinking Water	6.60 mg/L	5 mL	6.60 mg/L	2	0.06	0.40	101		4/27/11 11:57:00	N	I
Q1103752-01	Fluoride	MS	K1103632-001	Drinking Water	4.21 mg/L	5 mL	4.21 mg/L	2	0.006	0.40	105		4/27/11 11:57:00	N	I
Q1103752-01	Nitrate as Nitrogen	MS	K1103632-001	Drinking Water	4.08 mg/L	5 mL	4.08 mg/L	2	0.008	0.10	96		4/27/11 11:57:00	N	I

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: ECRONWELL

Analysis Lot:

243855

Method/Testcode: 300.0/NO2

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
Q1103752-01	Nitrite as Nitrogen	MS	K1103632-001	Drinking Water	4.15 mg/L	5 mL	4.15 mg/L	2	0.004	0.10	104		4/27/11 11:57:00	N I
Q1103752-01	Sulfate	MS	K1103632-001	Drinking Water	5.12 mg/L	5 mL	5.12 mg/L	2	0.02	0.40	94		4/27/11 11:57:00	N I
Q1103752-02	Chloride	DMS	K1103632-001	Drinking Water	6.61 mg/L	5 mL	6.61 mg/L	2	0.06	0.40	101	<1	4/27/11 12:12:00	N I
Q1103752-02	Fluoride	DMS	K1103632-001	Drinking Water	4.27 mg/L	5 mL	4.27 mg/L	2	0.006	0.40	107	2	4/27/11 12:12:00	N I
Q1103752-02	Nitrate as Nitrogen	DMS	K1103632-001	Drinking Water	4.10 mg/L	5 mL	4.10 mg/L	2	0.008	0.10	97	<1	4/27/11 12:12:00	N I
Q1103752-02	Nitrite as Nitrogen	DMS	K1103632-001	Drinking Water	4.16 mg/L	5 mL	4.16 mg/L	2	0.004	0.10	104	<1	4/27/11 12:12:00	N I
Q1103752-02	Sulfate	DMS	K1103632-001	Drinking Water	5.17 mg/L	5 mL	5.17 mg/L	2	0.02	0.40	95	<1	4/27/11 12:12:00	N I
Q1103752-03	Chloride	DUP	K1103632-001	Drinking Water	2.52 mg/L	5 mL	2.52 mg/L	2	0.06	0.40		2	4/27/11 11:41:00	N I
Q1103752-03	Fluoride	DUP	K1103632-001	Drinking Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.006	0.40		NC	4/27/11 11:41:00	N I
Q1103752-03	Nitrate as Nitrogen	DUP	K1103632-001	Drinking Water	0.22 mg/L	5 mL	0.22 mg/L	2	0.008	0.10		<1	4/27/11 11:41:00	N I
Q1103752-03	Nitrite as Nitrogen	DUP	K1103632-001	Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10		NC	4/27/11 11:41:00	N I
Q1103752-03	Sulfate	DUP	K1103632-001	Drinking Water	1.38 mg/L	5 mL	1.38 mg/L	2	0.02	0.40		<1	4/27/11 11:41:00	N I
Q1103752-04	Bromide	LCS		Drinking Water	3.71 mg/L	5 mL	3.71 mg/L	2	0.008	0.20	93		4/27/11 09:52:00	N I
Q1103752-04	Bromide	LCS		Drinking Water	3.71 mg/L	5 mL	3.71 mg/L	2	0.04	0.20	93		4/27/11 09:52:00	N I
Q1103752-04	Chloride	LCS		Drinking Water	4.66 mg/L	5 mL	4.66 mg/L	1	0.03	0.20	93		4/27/11 09:37:00	N I
Q1103752-04	Fluoride	LCS		Drinking Water	11.03 mg/L	5 mL	11.0 mg/L	2	0.006	0.40	100		4/27/11 09:52:00	N I
Q1103752-04	Nitrate as Nitrogen	LCS		Drinking Water	15.50 mg/L	5 mL	15.5 mg/L	5	0.02	0.25	102		4/27/11 09:22:00	N I
Q1103752-04	Nitrite as Nitrogen	LCS		Drinking Water	100.25 mg/L	5 mL	100 mg/L	25	0.05	1.3	100		4/27/11 08:51:00	N I
Q1103752-04	Sulfate	LCS		Drinking Water	4.58 mg/L	5 mL	4.58 mg/L	1	0.01	0.20	92		4/27/11 09:37:00	N I
Q1103752-04	Sulfate	LCS		Drinking Water	4.58 mg/L	5 mL	4.58 mg/L	1	0.03	0.20	92		4/27/11 09:37:00	N I
Q1103752-05	Bromide	MB		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	1	0.004	0.10			4/27/11 09:06:00	N I
Q1103752-05	Bromide	MB		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	1	0.02	0.10			4/27/11 09:06:00	N I
Q1103752-05	Chloride	MB		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.03	0.20			4/27/11 09:06:00	N I
Q1103752-05	Fluoride	MB		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.003	0.20			4/27/11 09:06:00	N I
Q1103752-05	Nitrate as Nitrogen	MB		Drinking Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.004	0.050			4/27/11 09:06:00	N I
Q1103752-05	Nitrite as Nitrogen	MB		Drinking Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.002	0.050			4/27/11 09:06:00	N I

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 4/28/11 14:21

Results Summary

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: ECRONWELL

Analysis Lot:

243855

Method/Testcode: 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC ² Tier
Q1103752-05	Sulfate	MB		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.01	0.20			4/27/11 09:06:00	N I
Q1103752-06	Sulfate	MS	K1103621-001	Water	14.88 mg/L	5 mL	14.9 mg/L	2	0.02	0.40	114		4/27/11 16:04:00	N II
Q1103752-07	Sulfate	DMS	K1103621-001	Water	14.97 mg/L	5 mL	15.0 mg/L	2	0.02	0.40	116	<1	4/27/11 16:20:00	N II
Q1103752-08	Sulfate	DUP	K1103621-001	Water	10.31 mg/L	5 mL	10.3 mg/L	2	0.02	0.40		<1	4/27/11 15:49:00	N II
Q1103752-09	Bromide	CCV		Water	2.37 mg/L	5 mL	2.37 mg/L	1					4/27/11 08:20:00	N V
Q1103752-09	Bromide	CCV		Water	2.37 mg/L	5 mL	2.37 mg/L	1					4/27/11 08:20:00	N V
Q1103752-09	Chloride	CCV		Water	4.71 mg/L	5 mL	4.71 mg/L	1					4/27/11 08:20:00	N V
Q1103752-09	Fluoride	CCV		Water	5.17 mg/L	5 mL	5.17 mg/L	1					4/27/11 08:20:00	N V
Q1103752-09	Nitrate as Nitrogen	CCV		Water	2.34 mg/L	5 mL	2.34 mg/L	1					4/27/11 08:20:00	N V
Q1103752-09	Nitrite as Nitrogen	CCV		Water	2.55 mg/L	5 mL	2.55 mg/L	1					4/27/11 08:20:00	N V
Q1103752-09	Sulfate	CCV		Water	4.71 mg/L	5 mL	4.71 mg/L	1					4/27/11 08:20:00	N V
Q1103752-09	Sulfate	CCV		Water	4.71 mg/L	5 mL	4.71 mg/L	1					4/27/11 08:20:00	N V
Q1103752-10	Bromide	CCV		Water	2.37 mg/L	5 mL	2.37 mg/L	1					4/27/11 10:23:00	N V
Q1103752-10	Bromide	CCV		Water	2.37 mg/L	5 mL	2.37 mg/L	1					4/27/11 10:23:00	N V
Q1103752-10	Chloride	CCV		Water	4.75 mg/L	5 mL	4.75 mg/L	1					4/27/11 10:23:00	N V
Q1103752-10	Fluoride	CCV		Water	5.20 mg/L	5 mL	5.20 mg/L	1					4/27/11 10:23:00	N V
Q1103752-10	Nitrate as Nitrogen	CCV		Water	2.35 mg/L	5 mL	2.35 mg/L	1					4/27/11 10:23:00	N V
Q1103752-10	Nitrite as Nitrogen	CCV		Water	2.56 mg/L	5 mL	2.56 mg/L	1					4/27/11 10:23:00	N V
Q1103752-10	Sulfate	CCV		Water	4.73 mg/L	5 mL	4.73 mg/L	1					4/27/11 10:23:00	N V
Q1103752-10	Sulfate	CCV		Water	4.73 mg/L	5 mL	4.73 mg/L	1					4/27/11 10:23:00	N V
Q1103752-11	Bromide	CCV		Water	2.38 mg/L	5 mL	2.38 mg/L	1					4/27/11 13:45:00	N V
Q1103752-11	Bromide	CCV		Water	2.38 mg/L	5 mL	2.38 mg/L	1					4/27/11 13:45:00	N V
Q1103752-11	Chloride	CCV		Water	4.76 mg/L	5 mL	4.76 mg/L	1					4/27/11 13:45:00	N V
Q1103752-11	Fluoride	CCV		Water	5.22 mg/L	5 mL	5.22 mg/L	1					4/27/11 13:45:00	N V
Q1103752-11	Nitrate as Nitrogen	CCV		Water	2.36 mg/L	5 mL	2.36 mg/L	1					4/27/11 13:45:00	N V
Q1103752-11	Nitrite as Nitrogen	CCV		Water	2.57 mg/L	5 mL	2.57 mg/L	1					4/27/11 13:45:00	N V
Q1103752-11	Sulfate	CCV		Water	4.72 mg/L	5 mL	4.72 mg/L	1					4/27/11 13:45:00	N V
Q1103752-11	Sulfate	CCV		Water	4.72 mg/L	5 mL	4.72 mg/L	1					4/27/11 13:45:00	N V
Q1103752-12	Bromide	CCV		Water	2.38 mg/L	5 mL	2.38 mg/L	1					4/27/11 16:51:00	N V
Q1103752-12	Bromide	CCV		Water	2.38 mg/L	5 mL	2.38 mg/L	1					4/27/11 16:51:00	N V
Q1103752-12	Chloride	CCV		Water	4.75 mg/L	5 mL	4.75 mg/L	1					4/27/11 16:51:00	N V
Q1103752-12	Fluoride	CCV		Water	5.27 mg/L	5 mL	5.27 mg/L	1					4/27/11 16:51:00	N V
Q1103752-12	Nitrate as Nitrogen	CCV		Water	2.36 mg/L	5 mL	2.36 mg/L	1					4/27/11 16:51:00	N V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: ECRONWELL

Analysis Lot: 243855

Method/Testcode: 300.0/NO2

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
Q1103752-12	Nitrite as Nitrogen	CCV		Water	2.56 mg/L	5 mL	2.56 mg/L	1					4/27/11 16:51:00	N	V
Q1103752-12	Sulfate	CCV		Water	4.73 mg/L	5 mL	4.73 mg/L	1					4/27/11 16:51:00	N	V
Q1103752-12	Sulfate	CCV		Water	4.73 mg/L	5 mL	4.73 mg/L	1					4/27/11 16:51:00	N	V
Q1103752-13	Bromide	CCV		Water	2.35 mg/L	5 mL	2.35 mg/L	1					4/27/11 19:56:00	N	V
Q1103752-13	Bromide	CCV		Water	2.35 mg/L	5 mL	2.35 mg/L	1					4/27/11 19:56:00	N	V
Q1103752-13	Chloride	CCV		Water	4.81 mg/L	5 mL	4.81 mg/L	1					4/27/11 19:56:00	N	V
Q1103752-13	Fluoride	CCV		Water	5.20 mg/L	5 mL	5.20 mg/L	1					4/27/11 19:56:00	N	V
Q1103752-13	Nitrate as Nitrogen	CCV		Water	2.35 mg/L	5 mL	2.35 mg/L	1					4/27/11 19:56:00	N	V
Q1103752-13	Nitrite as Nitrogen	CCV		Water	2.53 mg/L	5 mL	2.53 mg/L	1					4/27/11 19:56:00	N	V
Q1103752-13	Sulfate	CCV		Water	4.70 mg/L	5 mL	4.70 mg/L	1					4/27/11 19:56:00	N	V
Q1103752-13	Sulfate	CCV		Water	4.70 mg/L	5 mL	4.70 mg/L	1					4/27/11 19:56:00	N	V
Q1103752-14	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10	0.10		4/27/11 08:35:00	N	V
Q1103752-14	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10	0.10		4/27/11 08:35:00	N	V
Q1103752-14	Chloride	CCB		Water	0.03 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 08:35:00	N	V
Q1103752-14	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 08:35:00	N	V
Q1103752-14	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050	0.050		4/27/11 08:35:00	N	V
Q1103752-14	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050	0.050		4/27/11 08:35:00	N	V
Q1103752-14	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 08:35:00	N	V
Q1103752-14	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 08:35:00	N	V
Q1103752-15	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10	0.10		4/27/11 10:39:00	N	V
Q1103752-15	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10	0.10		4/27/11 10:39:00	N	V
Q1103752-15	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 10:39:00	N	V
Q1103752-15	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 10:39:00	N	V
Q1103752-15	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050	0.050		4/27/11 10:39:00	N	V
Q1103752-15	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050	0.050		4/27/11 10:39:00	N	V
Q1103752-15	Sulfate	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 10:39:00	N	V
Q1103752-15	Sulfate	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 10:39:00	N	V
Q1103752-16	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10	0.10		4/27/11 14:00:00	N	V
Q1103752-16	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10	0.10		4/27/11 14:00:00	N	V
Q1103752-16	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 14:00:00	N	V
Q1103752-16	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 14:00:00	N	V
Q1103752-16	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050	0.050		4/27/11 14:00:00	N	V
Q1103752-16	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050	0.050		4/27/11 14:00:00	N	V
Q1103752-16	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 14:00:00	N	V
Q1103752-16	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 14:00:00	N	V
Q1103752-16	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20	0.20		4/27/11 14:00:00	N	V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: ECRONWELL

Analysis Lot: 243855

Method/Testcode: 300.0/Br

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
Q1103752-17	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U 1	0.10	0.10			4/27/11 17:06:00	N V
Q1103752-17	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U 1	0.10	0.10			4/27/11 17:06:00	N V
Q1103752-17	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			4/27/11 17:06:00	N V
Q1103752-17	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			4/27/11 17:06:00	N V
Q1103752-17	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			4/27/11 17:06:00	N V
Q1103752-17	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			4/27/11 17:06:00	N V
Q1103752-17	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			4/27/11 17:06:00	N V
Q1103752-18	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U 1	0.10	0.10			4/27/11 20:12:00	N V
Q1103752-18	Chloride	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			4/27/11 20:12:00	N V
Q1103752-18	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			4/27/11 20:12:00	N V
Q1103752-18	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			4/27/11 20:12:00	N V
Q1103752-18	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			4/27/11 20:12:00	N V
Q1103752-18	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			4/27/11 20:12:00	N V
Q1103752-18	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			4/27/11 20:12:00	N V
Q1103752-19	Bromide	N/A		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.04	0.20			4/27/11 11:12:00	N I
Q1103752-19	Chloride	N/A		Drinking Water	2.57 mg/L	5 mL	2.57 mg/L	U 2	0.06	0.40			4/27/11 11:12:00	N I
Q1103752-19	Fluoride	N/A		Drinking Water	0.00 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			4/27/11 11:12:00	N I
Q1103752-19	Nitrate as Nitrogen	N/A		Drinking Water	0.22 mg/L	5 mL	0.22 mg/L	U 2	0.008	0.10			4/27/11 11:12:00	N I
Q1103752-19	Nitrite as Nitrogen	N/A		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/27/11 11:12:00	N I
Q1103752-19	Sulfate	N/A		Drinking Water	1.38 mg/L	5 mL	1.38 mg/L	U 2	0.02	0.40			4/27/11 11:12:00	N I
Q1103752-19	Sulfate	N/A		Drinking Water	1.38 mg/L	5 mL	1.38 mg/L	U 2	0.06	0.40			4/27/11 11:12:00	N I
Q1103752-20	Bromide	MS	KQ1103752-19	Drinking Water	3.86 mg/L	5 mL	3.86 mg/L	U 2	0.008	0.20			4/27/11 11:57:00	N I
Q1103752-20	Bromide	MS	KQ1103752-19	Drinking Water	3.86 mg/L	5 mL	3.86 mg/L	U 2	0.04	0.20			4/27/11 11:57:00	N I
Q1103752-20	Chloride	MS	KQ1103752-19	Drinking Water	6.60 mg/L	5 mL	6.60 mg/L	U 2	0.06	0.40			4/27/11 11:57:00	N I
Q1103752-20	Fluoride	MS	KQ1103752-19	Drinking Water	4.21 mg/L	5 mL	4.21 mg/L	U 2	0.006	0.40			4/27/11 11:57:00	N I
Q1103752-20	Nitrate as Nitrogen	MS	KQ1103752-19	Drinking Water	4.08 mg/L	5 mL	4.08 mg/L	U 2	0.008	0.10			4/27/11 11:57:00	N I
Q1103752-20	Nitrite as Nitrogen	MS	KQ1103752-19	Drinking Water	4.15 mg/L	5 mL	4.15 mg/L	U 2	0.004	0.10			4/27/11 11:57:00	N I

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-1C-03

Analyst: EGROMWELL

Analysis Lot:

243855

Method/Testcode: 300.0/SO4

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
Q1103752-20	Sulfate	MS	KQ1103752-19	Drinking Water	5.12 mg/L	5 mL	5.12 mg/L	2	0.02	0.40	94		4/27/11 11:57:00	N	I
Q1103752-21	Bromide	DMS	KQ1103752-19	Drinking Water	3.88 mg/L	5 mL	3.88 mg/L	2	0.008	0.20	97	<1	4/27/11 12:12:00	N	I
Q1103752-21	Bromide	DMS	KQ1103752-19	Drinking Water	3.88 mg/L	5 mL	3.88 mg/L	2	0.04	0.20	97	<1	4/27/11 12:12:00	N	I
Q1103752-21	Chloride	DMS	KQ1103752-19	Drinking Water	6.61 mg/L	5 mL	6.61 mg/L	2	0.06	0.40	101	<1	4/27/11 12:12:00	N	I
Q1103752-21	Fluoride	DMS	KQ1103752-19	Drinking Water	4.27 mg/L	5 mL	4.27 mg/L	2	0.006	0.40	107	2	4/27/11 12:12:00	N	I
Q1103752-21	Nitrate as Nitrogen	DMS	KQ1103752-19	Drinking Water	4.10 mg/L	5 mL	4.10 mg/L	2	0.008	0.10	97	<1	4/27/11 12:12:00	N	I
Q1103752-21	Nitrite as Nitrogen	DMS	KQ1103752-19	Drinking Water	4.16 mg/L	5 mL	4.16 mg/L	2	0.004	0.10	104	<1	4/27/11 12:12:00	N	I
Q1103752-21	Sulfate	DMS	KQ1103752-19	Drinking Water	5.17 mg/L	5 mL	5.17 mg/L	2	0.02	0.40	95	<1	4/27/11 12:12:00	N	I
Q1103752-21	Sulfate	DMS	KQ1103752-19	Drinking Water	5.17 mg/L	5 mL	5.17 mg/L	2	0.06	0.40	95	<1	4/27/11 12:12:00	N	I
Q1103752-22	Bromide	DUP	KQ1103752-19	Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	2	0.008	0.20		NC	4/27/11 11:41:00	N	I
Q1103752-22	Bromide	DUP	KQ1103752-19	Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	2	0.008	0.20		NC	4/27/11 11:41:00	N	I
Q1103752-22	Chloride	DUP	KQ1103752-19	Drinking Water	2.52 mg/L	5 mL	2.52 mg/L	2	0.06	0.40		2	4/27/11 11:41:00	N	I
Q1103752-22	Fluoride	DUP	KQ1103752-19	Drinking Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.006	0.40		NC	4/27/11 11:41:00	N	I
Q1103752-22	Nitrate as Nitrogen	DUP	KQ1103752-19	Drinking Water	0.22 mg/L	5 mL	0.22 mg/L	2	0.008	0.10		<1	4/27/11 11:41:00	N	I
Q1103752-22	Nitrite as Nitrogen	DUP	KQ1103752-19	Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10		NC	4/27/11 11:41:00	N	I
Q1103752-22	Sulfate	DUP	KQ1103752-19	Drinking Water	1.38 mg/L	5 mL	1.38 mg/L	2	0.02	0.40		<1	4/27/11 11:41:00	N	I
Q1103752-22	Sulfate	DUP	KQ1103752-19	Drinking Water	1.38 mg/L	5 mL	1.38 mg/L	2	0.06	0.40		<1	4/27/11 11:41:00	N	I

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
3574-1					F			
					Cl			
					NO2			
					Br			
					NO3	0.515		
					SO4			
3632-1	1	X			F	2.515		
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
3621-1	11	X			F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
-2					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
-3					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
-4					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
3562 3658	11				F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
3563 3659	11				F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
3647-1					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
3574-6	IV				F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
3574-7					(F) (Cl)	2.5/5		
					NO2			
					Br			
					NO3			
					(SO4)			
-8					(F) (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
-9					(F) (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
3649-1					(F) (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
-2					(F) (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
-3					(F) (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
-4					(F) (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
-5					(F) (Cl)			
					NO2			
					Br			
					NO3			
					(SO4)			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			
					F			
					Cl			
					NO2			
					Br			
					NO3			
					SO4			

Sequence: IC03042711(22)
Operator: nbakotich

Page 1 of 4
Printed: 4/28/2011 9:21:23 AM

Title:
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Timebase: DX120
#Samples: 54

Created: 4/27/2011 8:17:48 AM by ACQWET10
Last Update: 4/27/2011 3:06:56 PM by ACQWET10











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lv2	Standard	2	200.0	epa300(22)	epa300	Finished	4/22/2011 2:16:41 PM
2	std3/lv3	Standard	1	200.0	epa300(22)	epa300	Finished	4/22/2011 2:33:08 PM
3	std4/lv4	Standard	2	200.0	epa300(22)	epa300	Finished	4/22/2011 2:49:36 PM
4	std5/lv5	Standard	3	200.0	epa300(22)	epa300	Finished	4/22/2011 3:05:03 PM
5	std6/lv6	Standard	4	200.0	epa300(22)	epa300	Finished	4/22/2011 3:20:31 PM
6	std7/lv7	Standard	5	200.0	epa300(22)	epa300	Finished	4/22/2011 3:35:59 PM
7	std8/lv8	Standard	6	200.0	epa300(22)	epa300	Finished	4/22/2011 3:51:26 PM
8	std1/lv1	Standard	7	200.0	epa300(22)	epa300	Finished	4/22/2011 4:06:54 PM
9	CCV1 AN11-88-B	Unknown	12	200.0	epa300(22)	epa300	Finished	4/27/2011 8:20:10 AM
10	CCB1	Unknown	13	200.0	epa300(22)	epa300	Finished	4/27/2011 8:35:37 AM
11	NO2 AN11-35-GG	Unknown	13	200.0	epa300(22)	epa300	Finished	4/27/2011 8:51:05 AM
12	MB	Unknown	14	200.0	epa300(22)	epa300	Finished	4/27/2011 9:06:33 AM
13	NO3	Unknown	14	200.0	epa300(22)	epa300	Finished	4/27/2011 9:22:01 AM
14	CLSO4	Unknown	15	200.0	epa300(22)	epa300	Finished	4/27/2011 9:37:28 AM
15	FBR	Unknown	16	200.0	epa300(22)	epa300	Finished	4/27/2011 9:52:57 AM
16	SPKCHK AN11-78-B	Unknown	17	200.0	epa300(22)	epa300	Finished	4/27/2011 10:08:24 AM
17	CCV2	Unknown	18	200.0	epa300(22)	epa300	Finished	4/27/2011 10:23:52 AM
18	CCB2	Unknown	18	200.0	epa300(22)	epa300	Finished	4/27/2011 10:39:20 AM
19	K1103574-001	Unknown	19	200.0	epa300(22)	epa300	Finished	4/27/2011 10:57:20 AM
20	K1103632-001	Unknown	20	200.0	epa300(22)	epa300	Finished	4/27/2011 11:12:47 AM
21	3632-1D.	Unknown	21	200.0	epa300(22)	epa300	Finished	4/27/2011 11:41:45 AM
22	3632-1S.	Unknown	22	200.0	epa300(22)	epa300	Finished	4/27/2011 11:57:13 AM
23	3632-1SD.	Unknown	23	200.0	epa300(22)	epa300	Finished	4/27/2011 12:12:40 PM
24	K1103621-001	Unknown	24	200.0	epa300(22)	epa300	Finished	4/27/2011 12:28:08 PM
25	K1103621-002	Unknown	25	200.0	epa300(22)	epa300	Finished	4/27/2011 12:43:36 PM
26	K1103621-003	Unknown	26	200.0	epa300(22)	epa300	Finished	4/27/2011 12:59:03 PM
27	K1103621-004	Unknown	27	200.0	epa300(22)	epa300	Finished	4/27/2011 1:14:31 PM
28	RB	Unknown	28	200.0	epa300(22)	epa300	Finished	4/27/2011 1:29:59 PM
29	CCV3	Unknown	29	200.0	epa300(22)	epa300	Finished	4/27/2011 1:45:27 PM
30	CCB3	Unknown	30	200.0	epa300(22)	epa300	Finished	4/27/2011 2:00:54 PM
31	K1103647-001	Unknown	31	200.0	epa300(22)	epa300	Finished	4/27/2011 2:16:22 PM
32	K1103649-001	Unknown	32	200.0	epa300(22)	epa300	Finished	4/27/2011 2:31:50 PM
33	K1103649-002	Unknown	33	200.0	epa300(22)	epa300	Finished	4/27/2011 2:47:18 PM
34	K1103649-003	Unknown	34	200.0	epa300(22)	epa300	Finished	4/27/2011 3:02:46 PM
35	K1103649-004	Unknown	35	200.0	epa300(22)	epa300	Finished	4/27/2011 3:18:14 PM
36	K1103649-005	Unknown	36	200.0	epa300(22)	epa300	Finished	4/27/2011 3:33:42 PM
37	3621-1D	Unknown	37	200.0	epa300(22)	epa300	Finished	4/27/2011 3:49:10 PM
38	3621-1S	Unknown	38	200.0	epa300(22)	epa300	Finished	4/27/2011 4:04:37 PM
39	3621-1SD	Unknown	39	200.0	epa300(22)	epa300	Finished	4/27/2011 4:20:05 PM
40	RB	Unknown	40	200.0	epa300(22)	epa300	Finished	4/27/2011 4:35:32 PM
41	CCV4	Unknown	41	200.0	epa300(22)	epa300	Finished	4/27/2011 4:51:00 PM
42	CCB4	Unknown	42	200.0	epa300(22)	epa300	Finished	4/27/2011 5:06:27 PM

Sequence: IC03042711(22)
Operator: nbakotich

Page 2 of 4
Printed: 4/28/2011 9:21:23 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 54

Created: 4/27/2011 8:17:48 AM by ACQWET10
Last Update: 4/27/2011 3:06:56 PM by ACQWET10













No.	Name	Dil. Factor	Comment
1	 std2/lvl2	1.0000	
2	 std3/lvl3	1.0000	
3	 std4/lvl4	1.0000	
4	 std5/lvl5	1.0000	
5	 std6/lvl6	1.0000	
6	 std7/lvl7	1.0000	
7	 std8/lvl8	1.0000	
8	 std1/lvl1	1.0000	
9	 CCV1 AN11-88-B	1.0000	
10	 CCB1	1.0000	
11	 NO2 AN11-35-GG	25.0000	
12	 MB	1.0000	
13	 NO3	5.0000	
14	 CLSO4	1.0000	
15	 FBR	2.0000	
16	 SPKCHK AN11-78-B	1.0000	
17	 CCV2	1.0000	
18	 CCB2	1.0000	
19	 K1103574-001	10.0000	
20	 K1103632-001	2.0000	
21	 3632-1D	2.0000	D
22	 3632-1S	2.0000	MS
23	 3632-1SD	2.0000	MSD
24	 K1103621-001	2.0000	
25	 K1103621-002	2.0000	
26	 K1103621-003	2.0000	
27	 K1103621-004	2.0000	
28	 RB	1.0000	
29	 CCV3	1.0000	
30	 CCB3	1.0000	
31	 K1103647-001	2.0000	
32	 K1103649-001	2.0000	
33	 K1103649-002	2.0000	
34	 K1103649-003	2.0000	
35	 K1103649-004	2.0000	
36	 K1103649-005	2.0000	
37	 3621-1D	2.0000	D
38	 3621-1S	2.0000	MS
39	 3621-1SD	2.0000	MSD
40	 RB	1.0000	
41	 CCV4	1.0000	CCV4
42	 CCB4	1.0000	CCB4

Sequence: IC03042711(22)
Operator: nbakotich

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Printed: 4/28/2011 9:21:23 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 54

Created: 4/27/2011 8:17:48 AM by ACQWET10
Last Update: 4/27/2011 3:06:56 PM by ACQWET10













No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	 K1103562-001	Unknown	43	200.0	epa300(22)	epa300	Finished	4/27/2011 5:21:55 PM
44	 K1103563-001	Unknown	44	200.0	epa300(22)	epa300	Finished	4/27/2011 5:37:23 PM
45	 K1103574-006	Unknown	45	200.0	epa300(22)	epa300	Finished	4/27/2011 5:52:51 PM
46	 K1103574-007	Unknown	46	200.0	epa300(22)	epa300	Finished	4/27/2011 6:08:18 PM
47	 K1103574-008	Unknown	47	200.0	epa300(22)	epa300	Finished	4/27/2011 6:23:46 PM
48	 K1103574-009	Unknown	48	200.0	epa300(22)	epa300	Finished	4/27/2011 6:39:14 PM
49	 K1103330-002	Unknown	49	200.0	epa300(22)	epa300	Finished	4/27/2011 6:54:42 PM
50	 RB	Unknown	50	200.0	epa300(22)	epa300	Finished	4/27/2011 7:10:09 PM
51	 RB	Unknown	51	200.0	epa300(22)	epa300	Finished	4/27/2011 7:25:37 PM
52	 RB	Unknown	52	200.0	epa300(22)	epa300	Finished	4/27/2011 7:41:04 PM
53	 CCV5	Unknown	53	200.0	epa300(22)	epa300	Finished	4/27/2011 7:56:33 PM
54	 CCB5	Unknown	54	200.0	epa300(22)	epa300	Finished	4/27/2011 8:12:00 PM

Sequence: IC03042711(22)
Operator: nbakotich

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Printed: 4/28/2011 9:21:23 AM

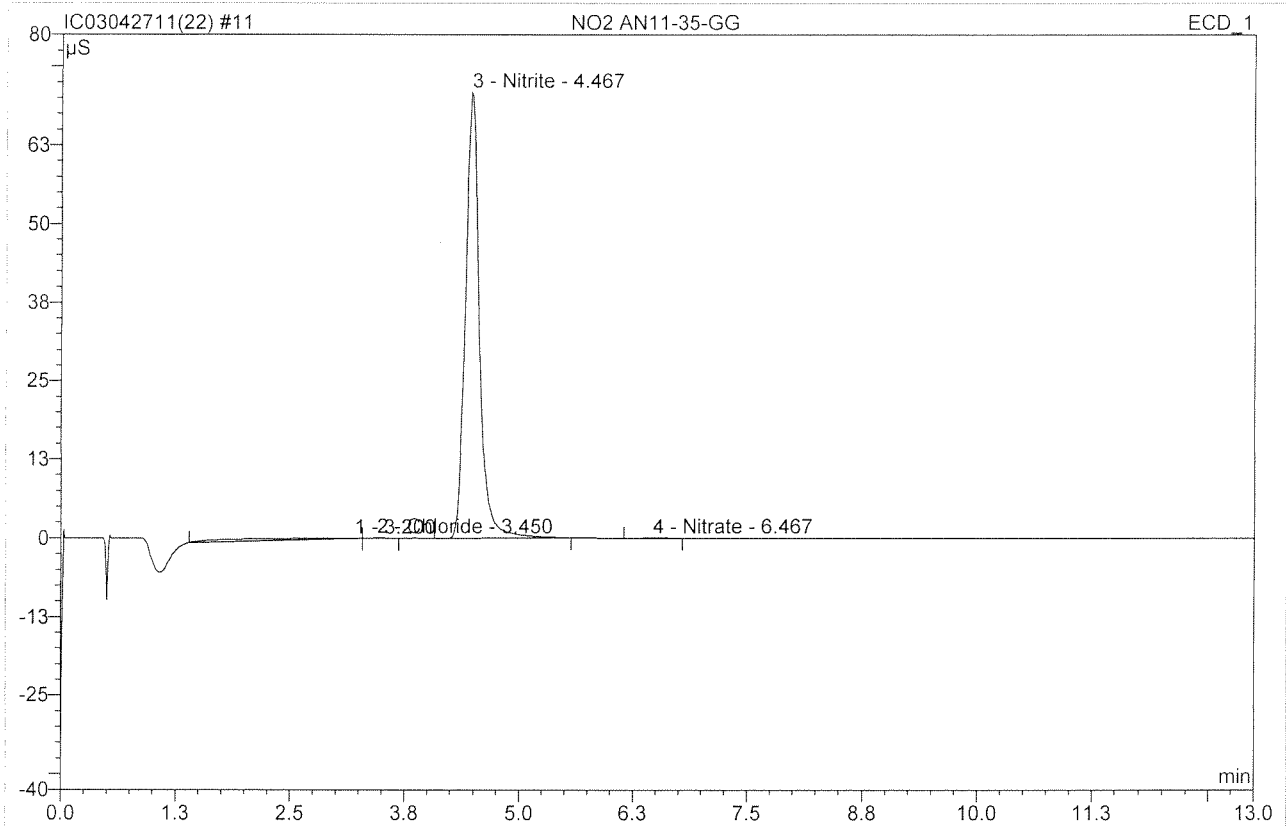
Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 54

Created: 4/27/2011 8:17:48 AM by ACQWET10
Last Update: 4/27/2011 3:06:56 PM by ACQWET10

No.	Name	Dil. Factor	Comment
43	 K1103562-001	2.0000	
44	 K1103563-001	2.0000	
45	 K1103574-006	2.0000	
46	 K1103574-007	2.0000	
47	 K1103574-008	2.0000	
48	 K1103574-009	2.0000	
49	 K1103330-002	100.0000	
50	 RB	1.0000	
51	 RB	1.0000	
52	 RB	1.0000	
53	 CCV5	1.0000	CCV5
54	 CCB5	1.0000	CCB5

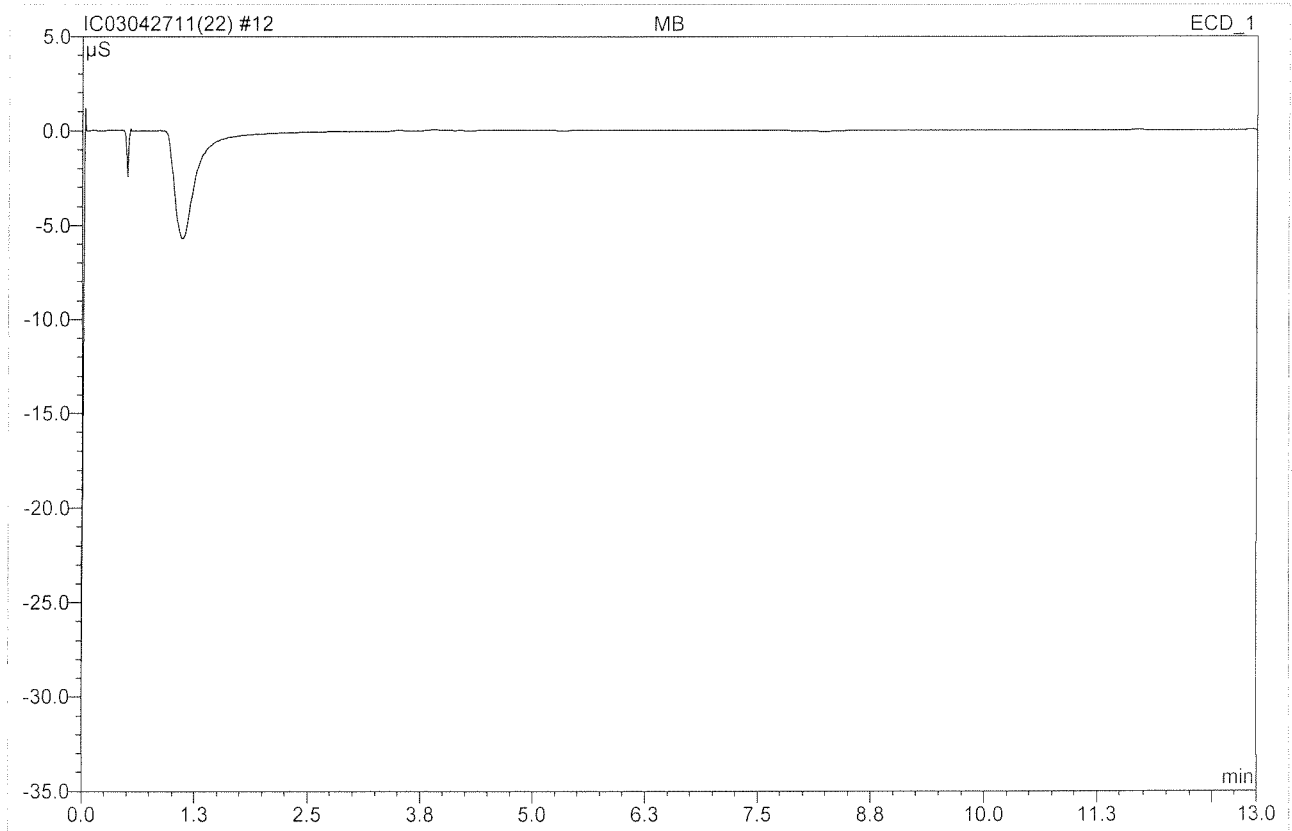
11 NO2 AN11-35-GG

Sample Name:	NO2 AN11-35-GG	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	4/27/2011 8:51	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



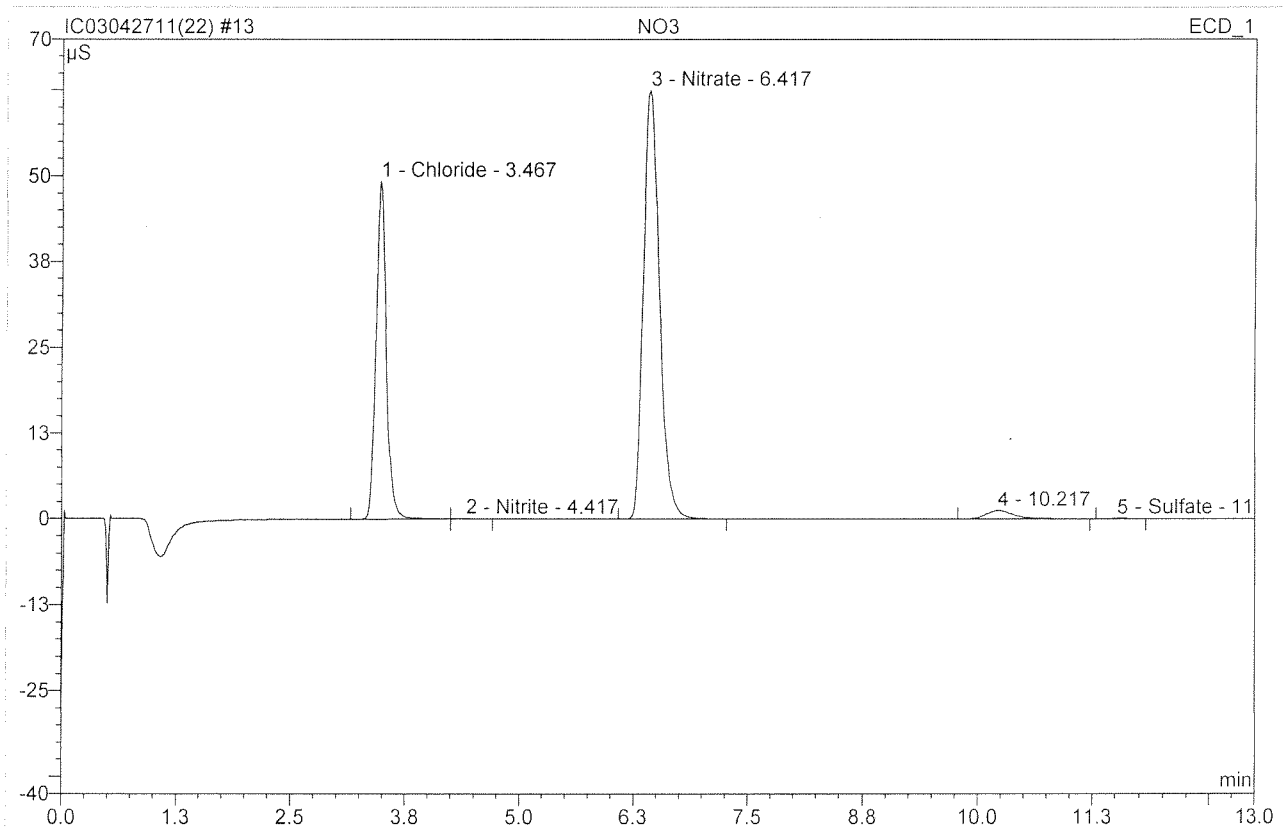
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.20	n.a.	0.035	0.413	3.17	n.a.	BMB
2	3.45	Chloride	0.125	0.017	0.13	0.254	bMB
3	4.47	Nitrite	70.895	12.561	96.50	100.247	BMB
4	6.47	Nitrate	0.119	0.026	0.20	0.155	BMB
Total:			71.174	13.017	100.00	100.656	

12 MB			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 9:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



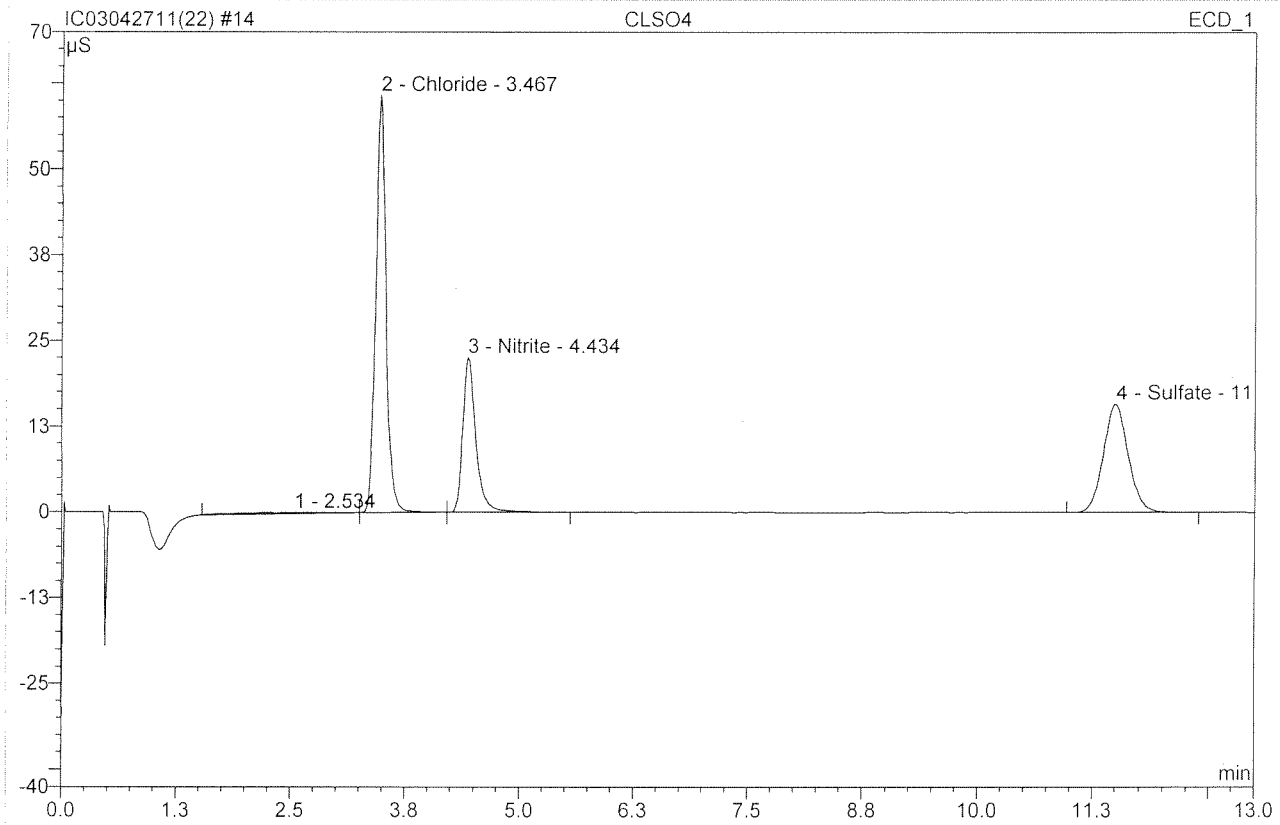
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

13 NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/27/2011 9:22	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.47	Chloride	49.289	6.389	32.43	18.891	BMb
2	4.42	Nitrite	0.080	0.012	0.06	0.020	bMB
3	6.42	Nitrate	62.510	12.847	65.22	15.496	BMB
4	10.22	n.a.	1.217	0.437	2.22	n.a.	BMB
5	11.52	Sulfate	0.050	0.013	0.06	0.059	BMB
Total:			113.146	19.697	100.00	34.465	

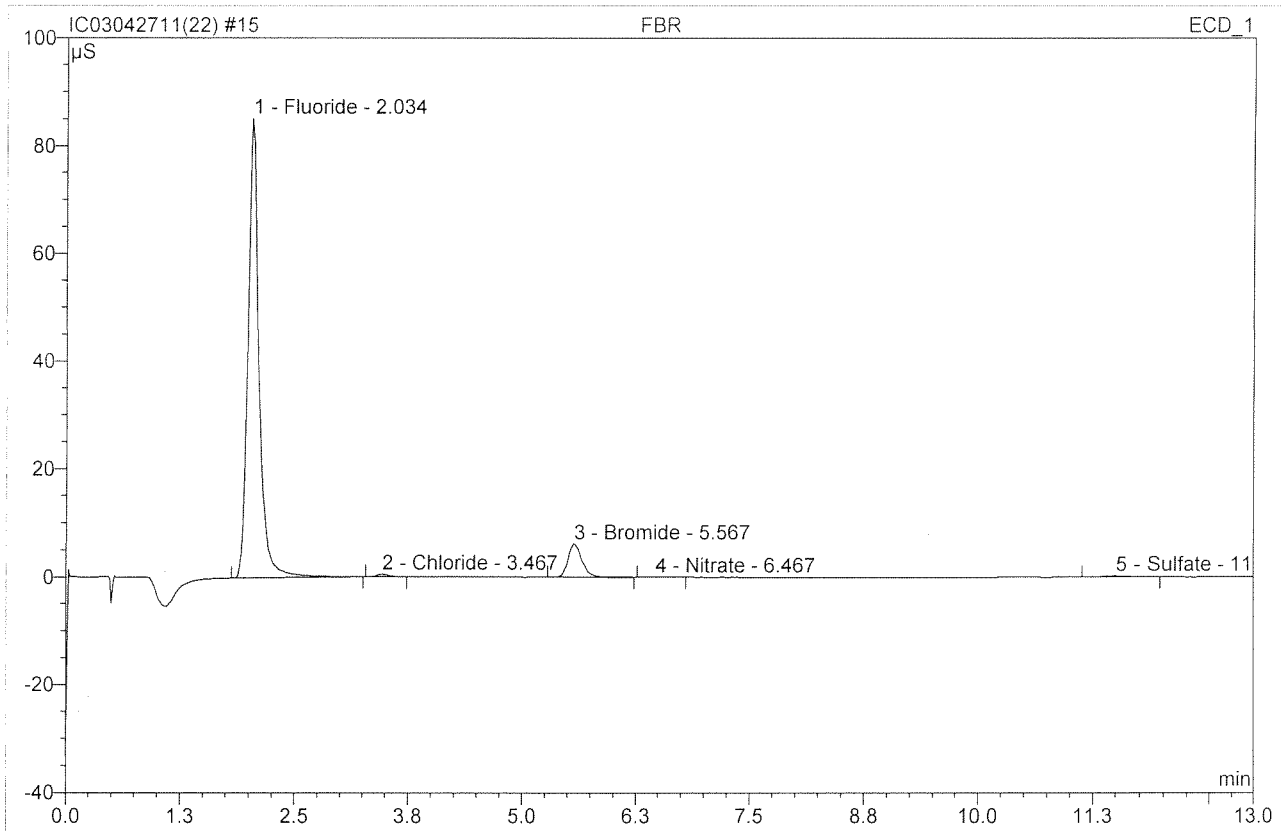
14 CLSO4			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 9:37	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	n.a.	0.167	0.175	1.05	n.a.	BMB
2	3.47	Chloride	60.757	7.879	47.13	93 4.659	bMb
3	4.43	Nitrite	22.558	3.751	22.44	1.198	bMB
4	11.50	Sulfate	15.740	4.913	29.39	92 4.576	BMB
Total:			99.223	16.718	100.00	10.433	

15 FBR

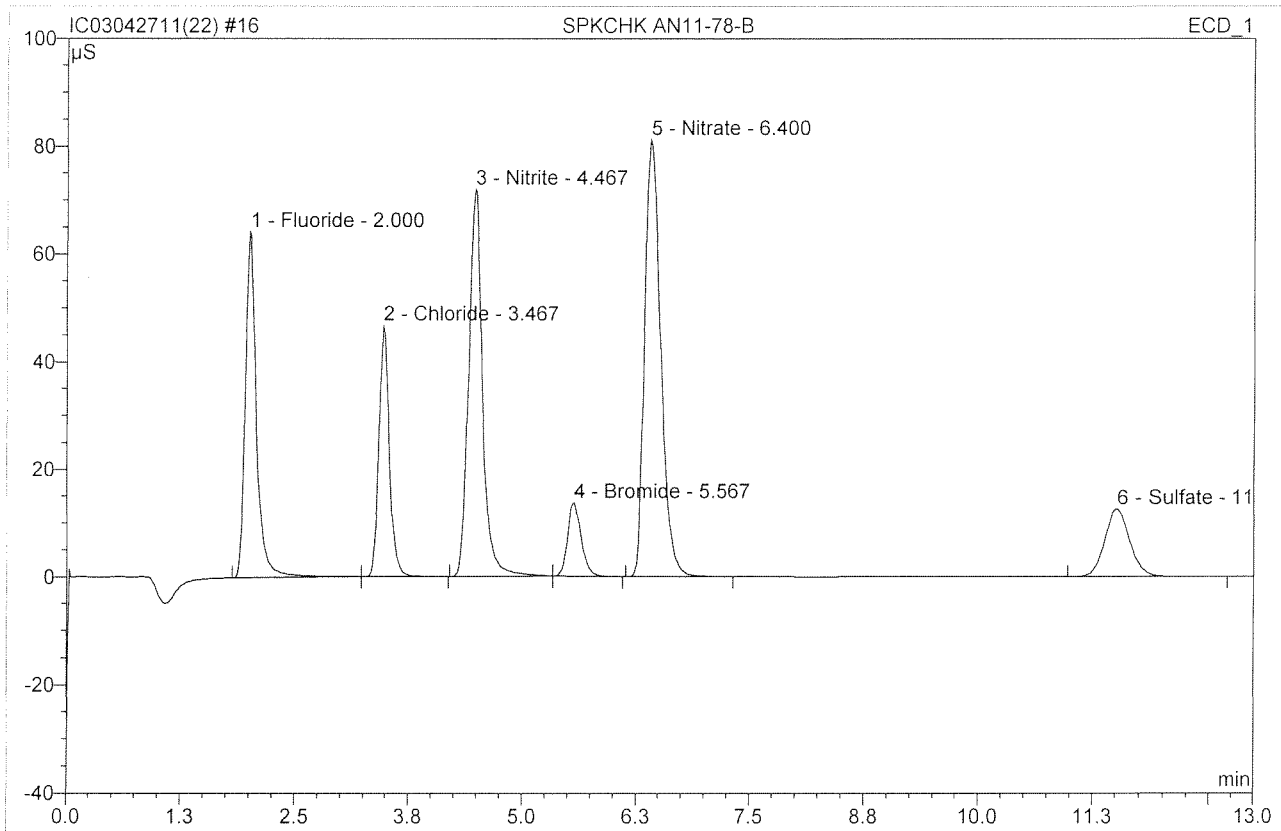
Sample Name:	FBR	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/27/2011 9:52	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.03	Fluoride	85.306	12.071	90.49	11.030	BMB
2	3.47	Chloride	0.521	0.072	0.54	0.085	BMB
3	5.57	Bromide	6.125	1.098	8.23	3.715	BMB
4	6.47	Nitrate	0.105	0.021	0.16	0.010	BMB
5	11.50	Sulfate	0.239	0.077	0.58	0.144	BMB
Total:			92.297	13.339	100.00	14.984	

16 SPKCHK AN11-78-B

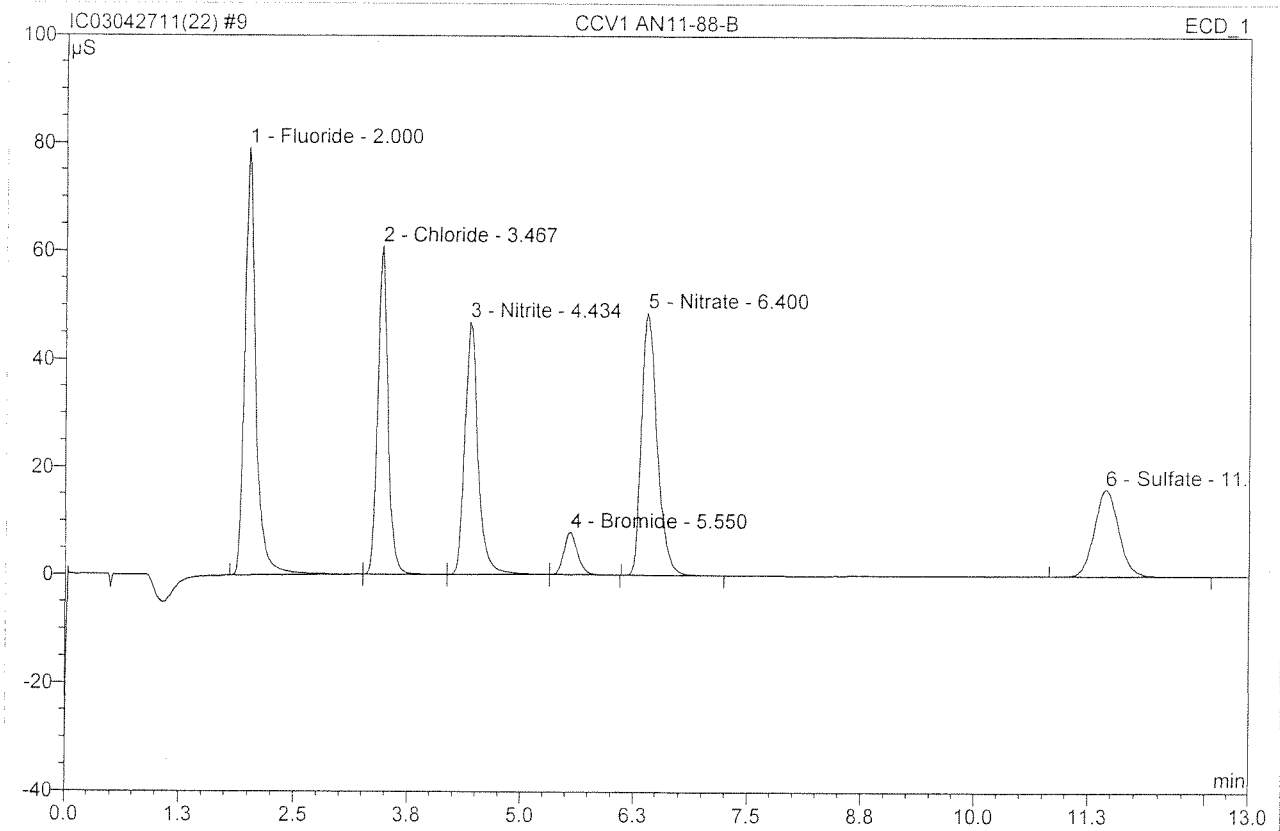
Sample Name:	SPKCHK AN11-78-B	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 10:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	64.277	9.131	17.80	4.172	BMb
2	3.47	Chloride	46.753	6.243	12.17	3.692	bMB
3	4.47	Nitrite	71.961	12.775	24.90	4.078	BMb
4	5.57	Bromide	13.644	2.382	4.64	4.029	bMB
5	6.40	Nitrate	81.193	16.804	32.75	4.054	BMB
6	11.52	Sulfate	12.640	3.968	7.73	3.696	BMB
Total:			290.468	51.303	100.00	23.721	

TV=4.0

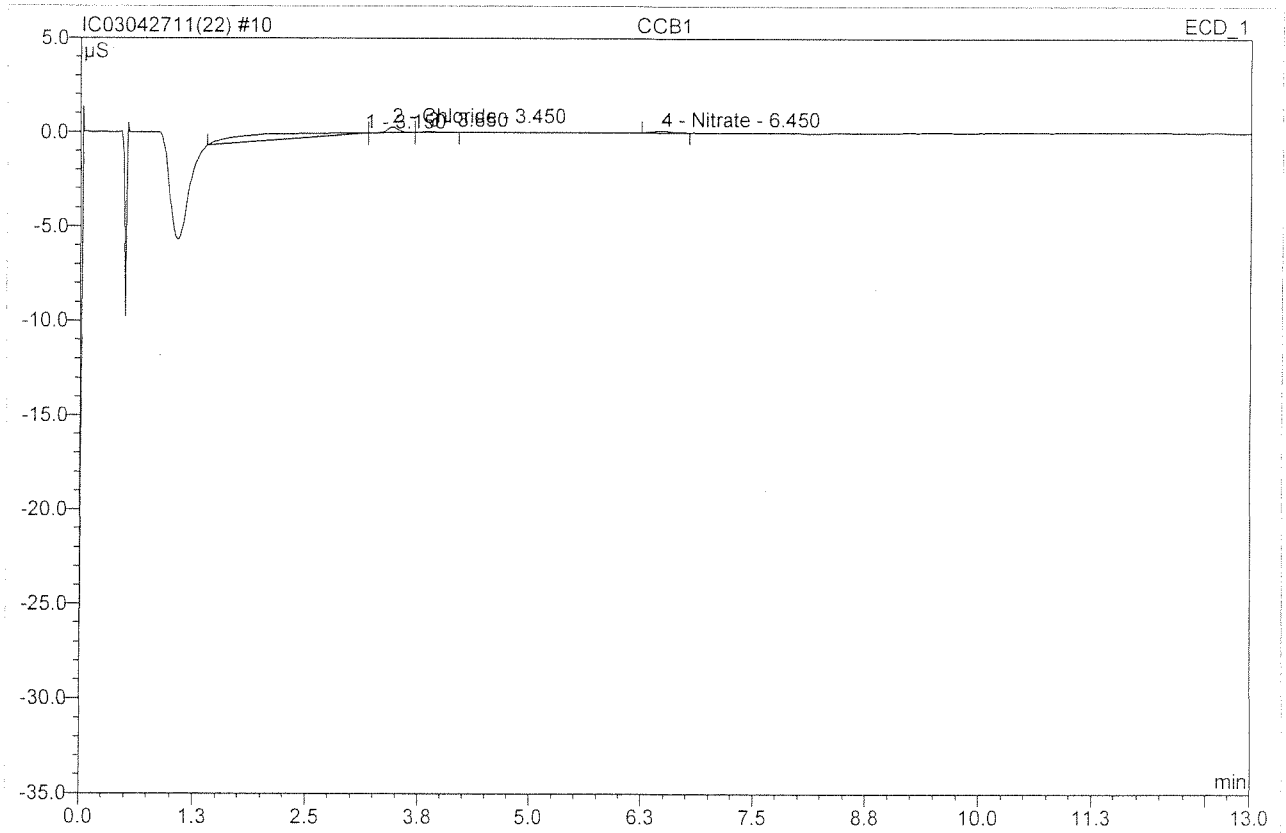
9 CCV1 AN11-88-B			
Sample Name:	CCV1 AN11-88-B	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 8:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	79.234	11.322	26.08	¹⁷³ 5.173	BMB
2	3.47	Chloride	60.871	7.963	18.34	⁹¹ 4.709	bMb
3	4.43	Nitrite	46.971	7.979	18.38	¹⁰² 2.547	bMb
4	5.55	Bromide	7.943	1.399	3.22	⁴⁵⁰⁻⁴⁴ 2.366	bMB
5	6.40	Nitrate	48.757	9.699	22.34	⁹⁴ 2.340	BMB
6	11.43	Sulfate	16.203	5.055	11.64	⁹⁶ 4.708	BMB
Total:			259.978	43.417	100.00	21.843	

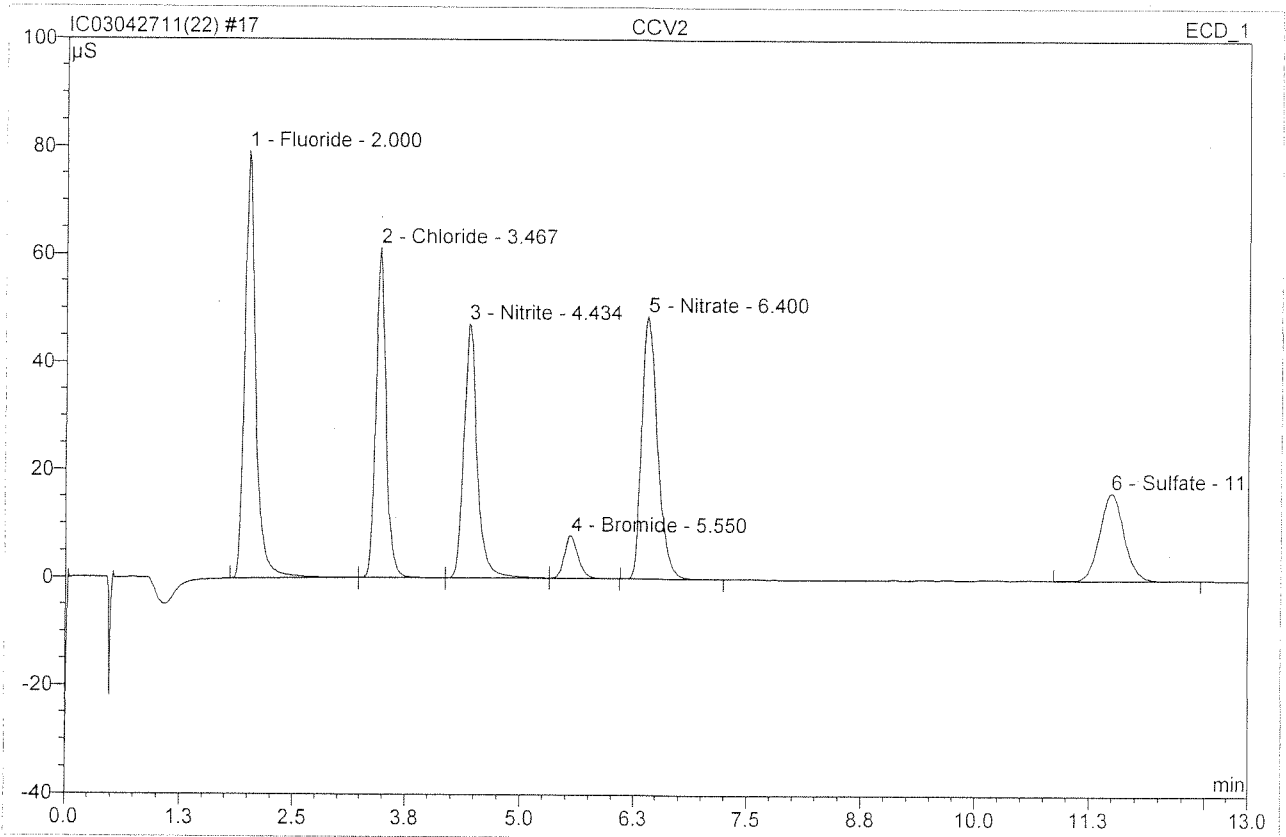
Q16 4/27/11

10 CCB1			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 8:35	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



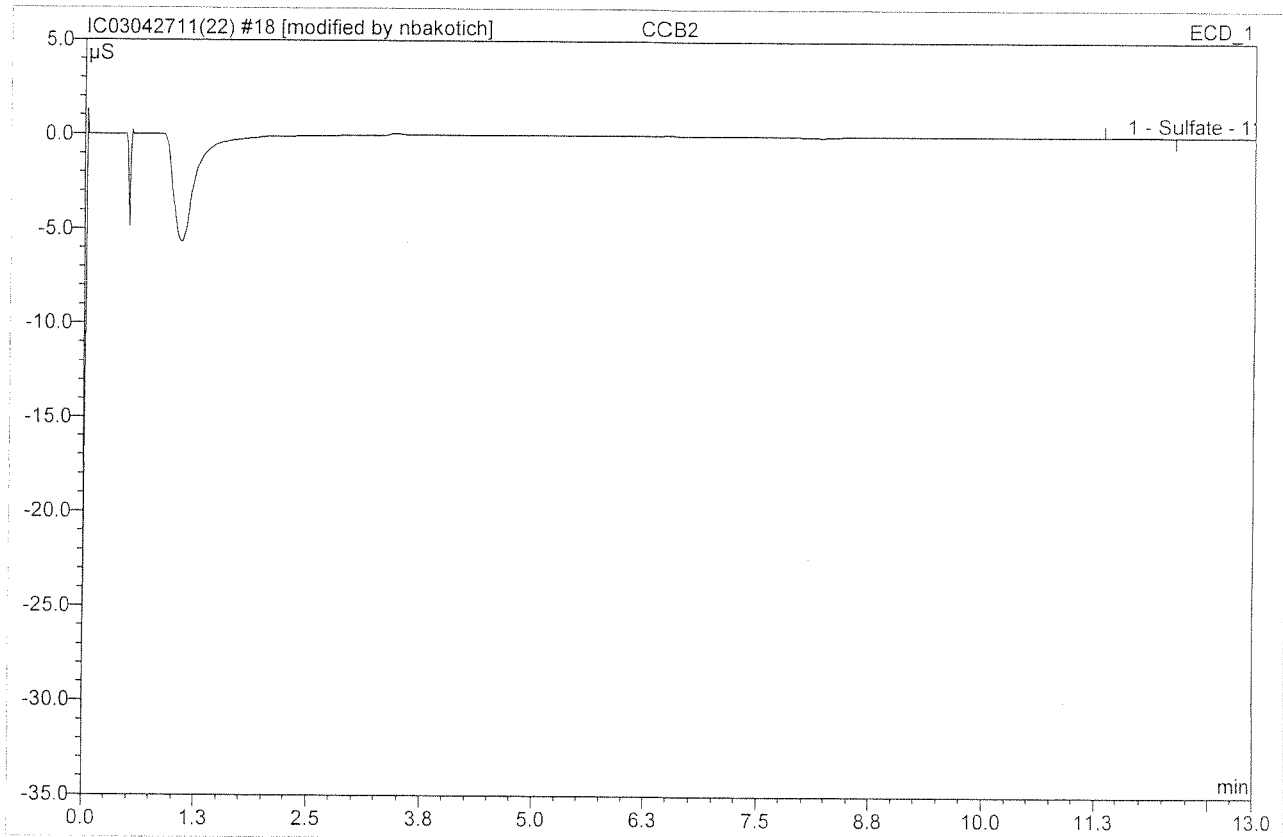
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.15	n.a.	0.013	0.385	84.14	n.a.	BMB
2	3.45	Chloride	0.300	0.043	9.30	0.025	bMb
3	3.85	n.a.	0.057	0.010	2.20	n.a.	bMB
4	6.45	Nitrate	0.098	0.020	4.36	0.005	BMB
Total:			0.468	0.458	100.00	0.030	

17 CCV2			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 10:23	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	79.240	11.392	26.07	104 5.205	BMb
2	3.47	Chloride	61.262	8.037	18.39	95 4.753	bMb
3	4.43	Nitrite	47.082	8.031	18.38	102 2.564	bMb
4	5.55	Bromide	7.935	1.404	3.21	35 2.374	bMB
5	6.40	Nitrate	48.709	9.757	22.33	91 2.354	BMB
6	11.48	Sulfate	16.272	5.080	11.63	95 4.732	BMB
Total:			260.500	43.701	100.00	21.982	

18 CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 10:39	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



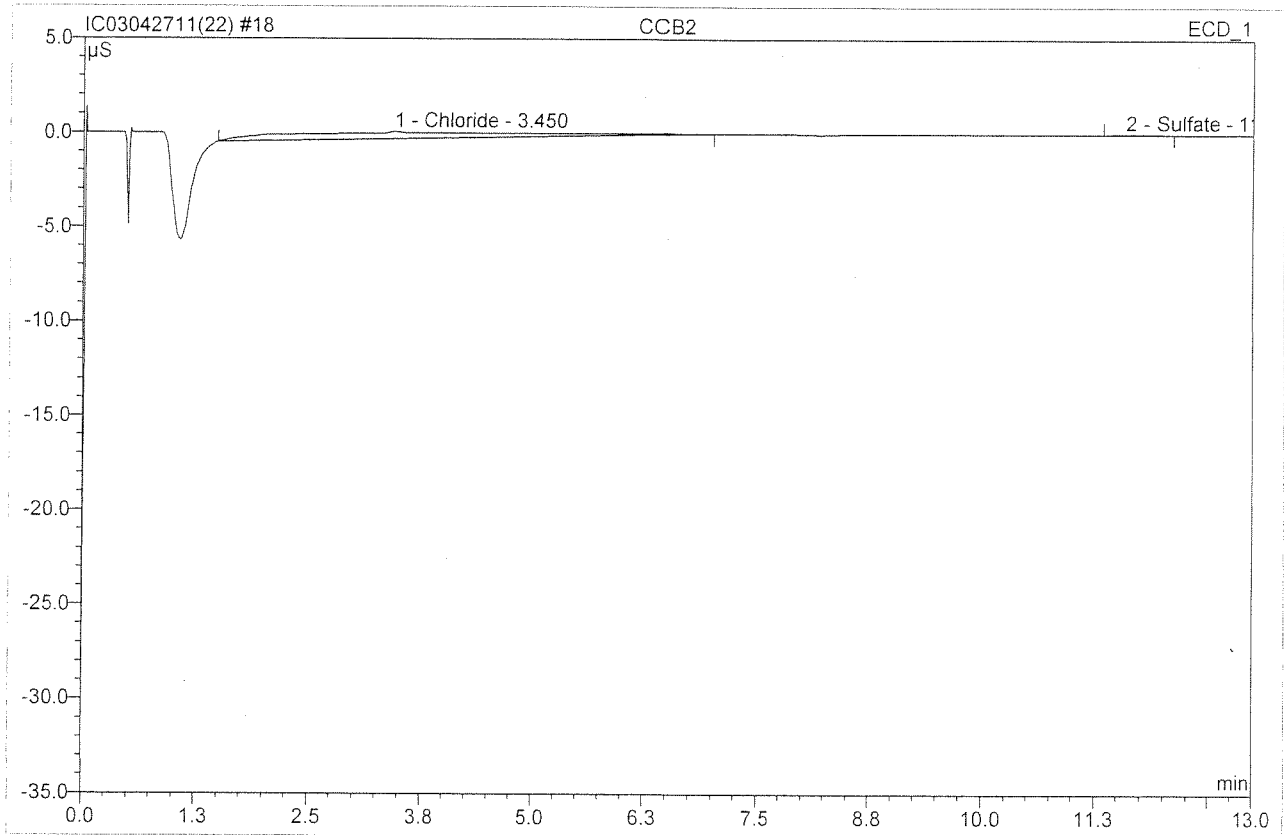
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	11.58	Sulfate	0.032	0.013	100.00	0.012	BMB
Total:			0.032	0.013	100.00	0.012	

After Initials nb

APR 27 2011

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

18 CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 10:39	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

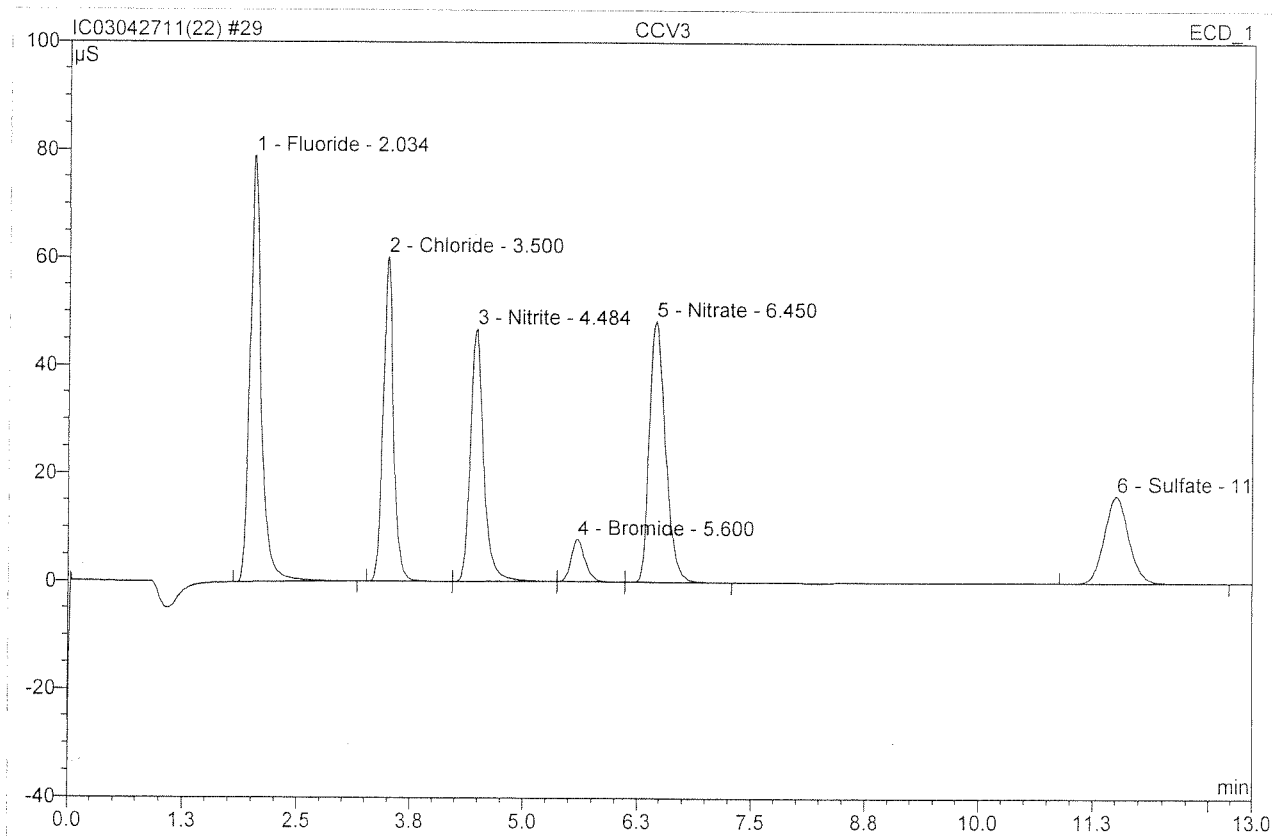


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	0.401	1.135	98.86	0.671	BMB
2	11.58	Sulfate	0.032	0.013	1.14	0.012	BMB
Total:			0.433	1.148	100.00	0.683	

Before

APR 27 2011

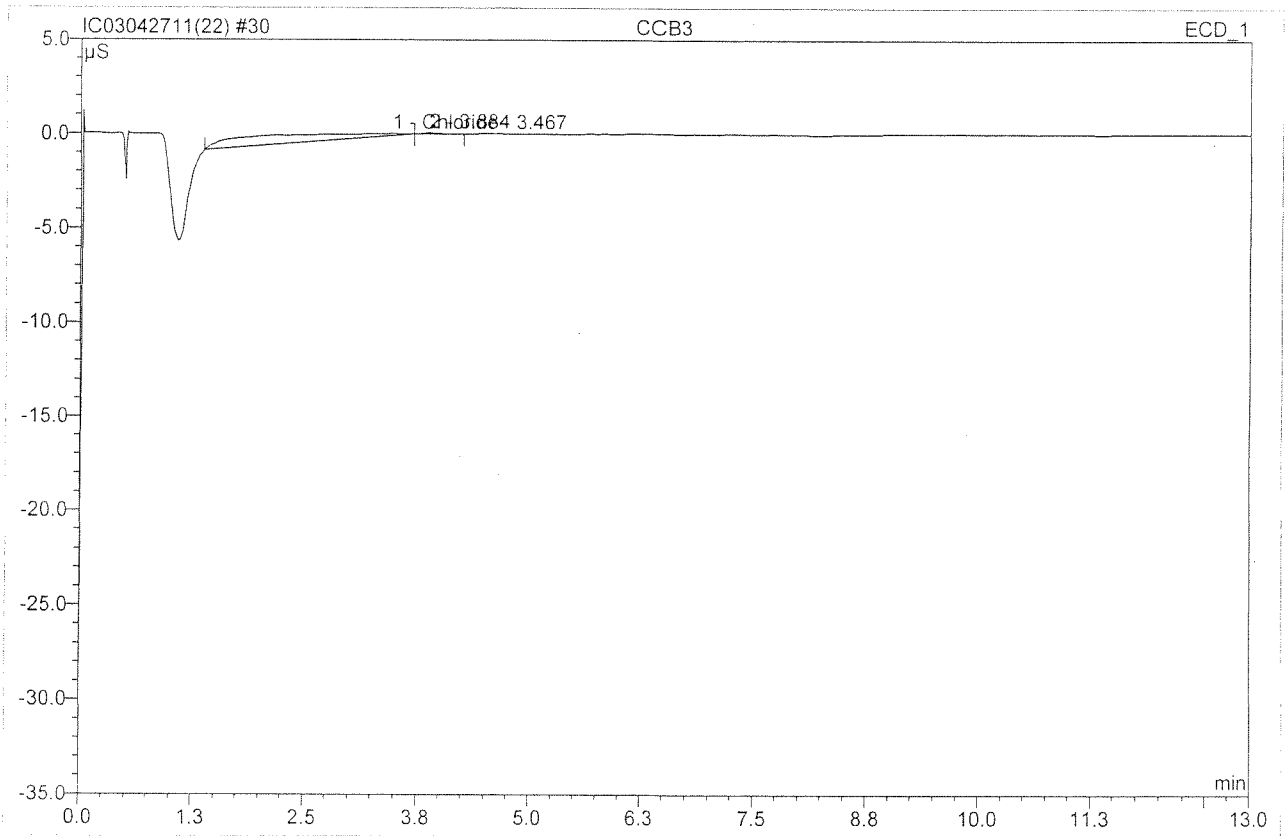
29 CCV3			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 13:45	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.03	Fluoride	79.031	11.420	26.10	124 5.218	BMB
2	3.50	Chloride	60.094	8.050	18.40	35 4.761	BMb
3	4.48	Nitrite	46.823	8.046	18.39	105 2.569	bMb
4	5.60	Bromide	7.861	1.407	3.22	35 2.380	bMb
5	6.45	Nitrate	48.425	9.764	22.32	91 2.355	bMB
6	11.52	Sulfate	16.187	5.063	11.57	111 4.716	BMB
Total:			258.421	43.750	100.00	21.998	

30 CCB3

Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	30	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 14:00	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

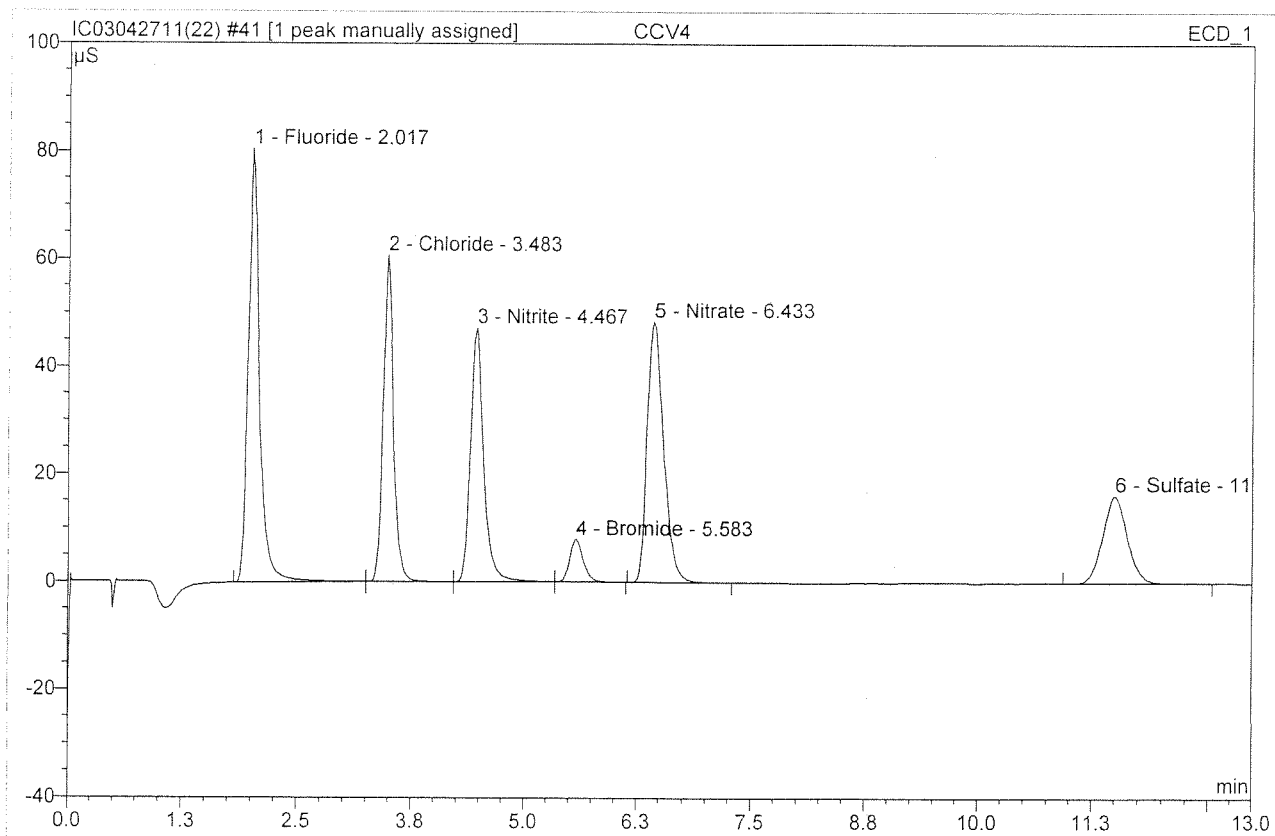


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.47	Chloride	0.123	0.723	98.18	0.428	BMb
2	3.88	n.a.	0.073	0.013	1.82	n.a.	bMB
Total:			0.195	0.737	100.00	0.428	

Before

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41 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 16:51	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	80.605	11.535	26.31	105 5.270	BMb
2	3.48	Chloride	60.686	8.024	18.30	95 4.746	bMb
3	4.47	Nitrite	47.153	8.007	18.27	102 2.556	bMb
4	5.58	Bromide	7.870	1.404	3.20	95 2.376	bMB
5	6.43	Nitrate	48.377	9.787	22.33	94 2.361	BMB^
6	11.50	Sulfate	16.193	5.081	11.59	95 4.733	BMB
Total:			260.883	43.840	100.00	22.041	

After Initials *nb*

APR 28 2011

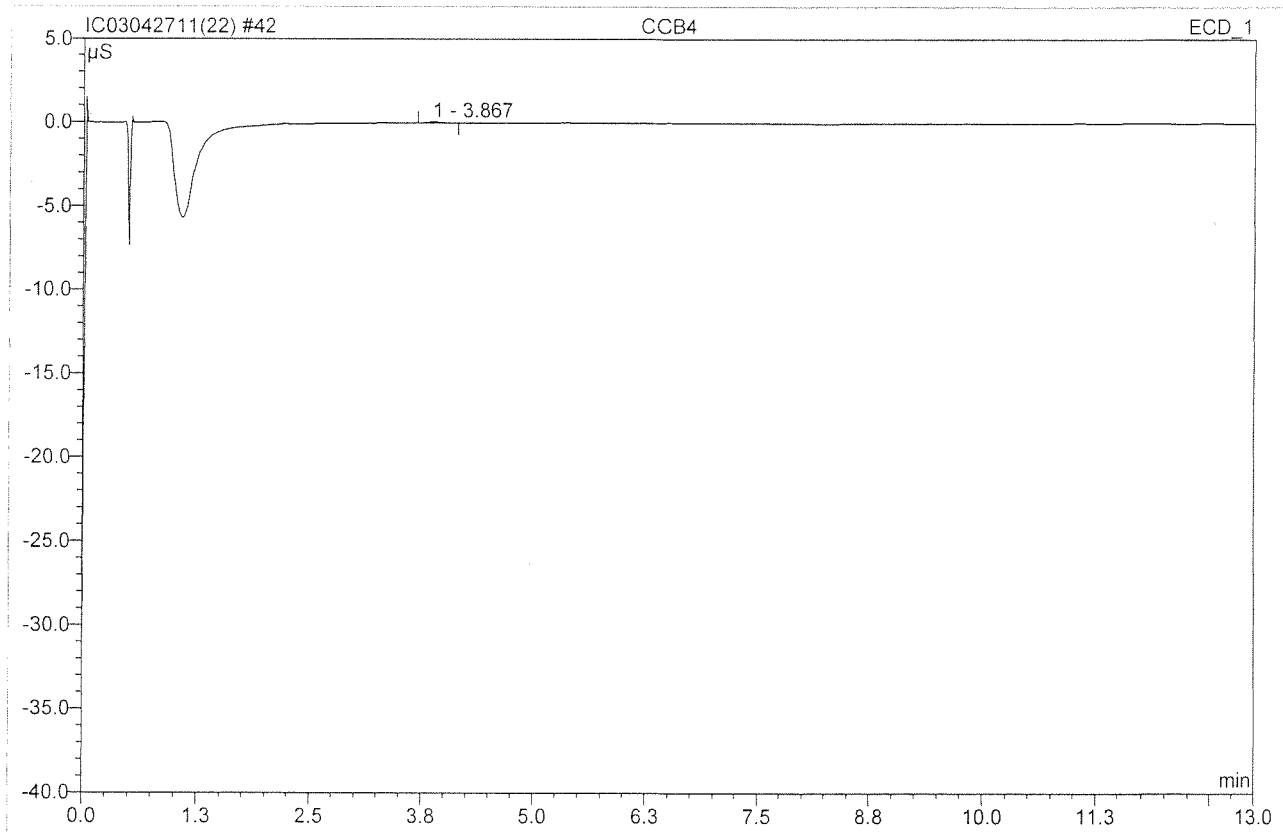
nbakotich

default/Integration

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

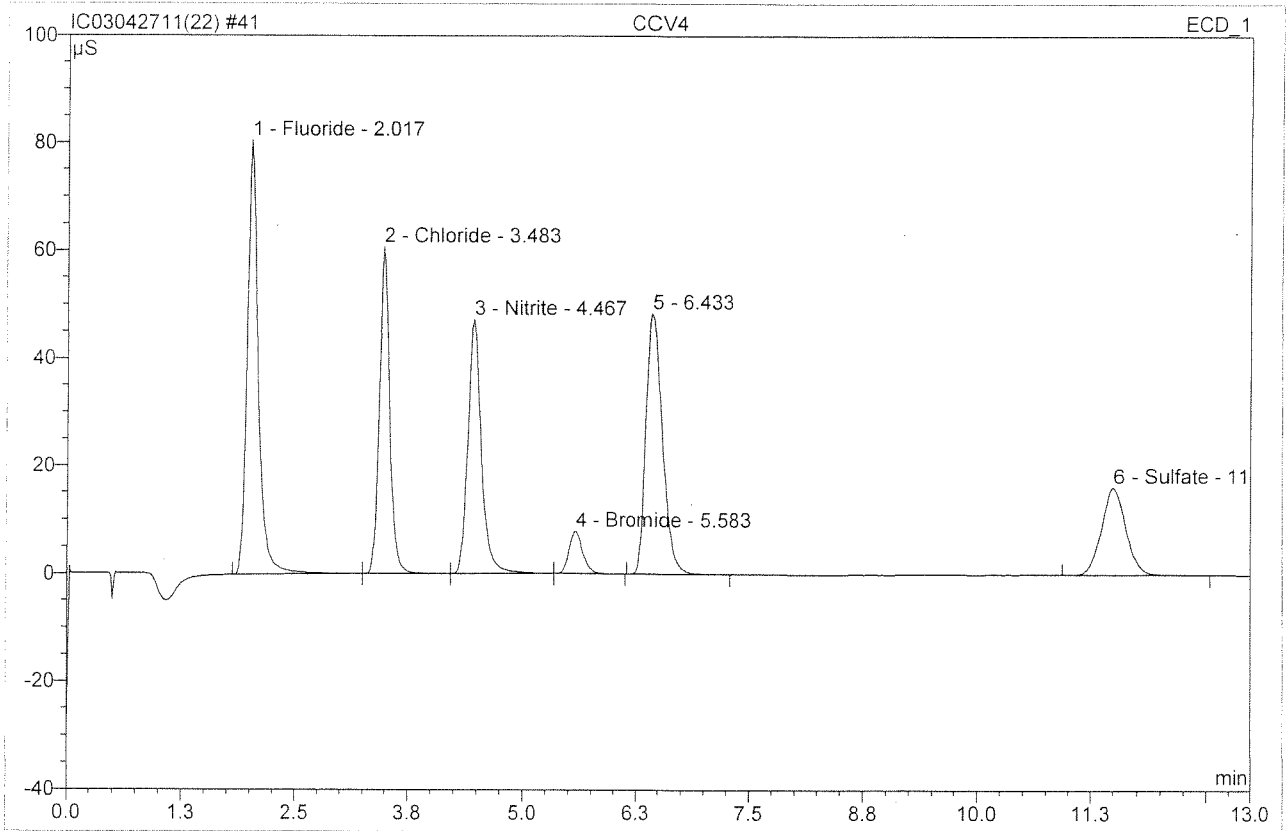
Chromeleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

42 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	42	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 17:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.87	n.a.	0.077	0.013	100.00	n.a.	BMB
Total:			0.077	0.013	100.00	0.000	

41 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 16:51	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

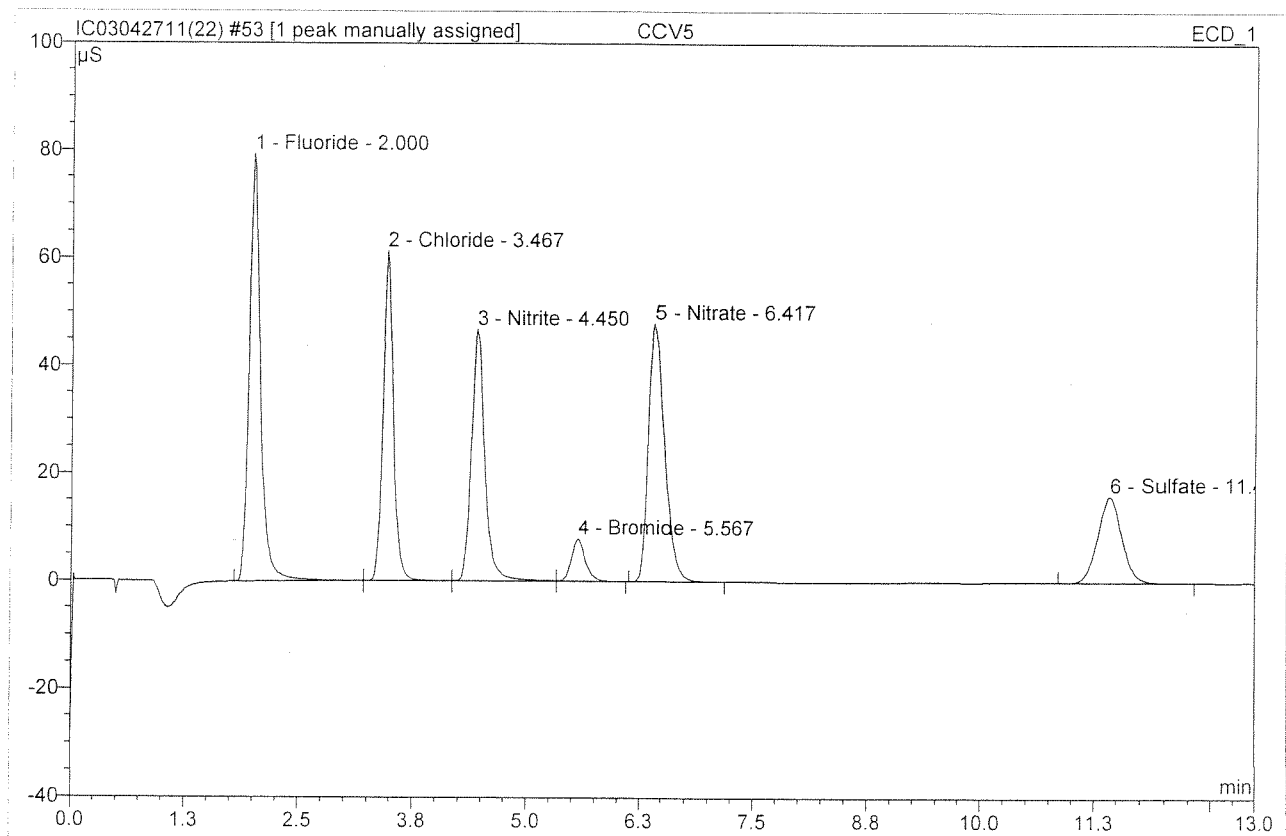


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	80.605	11.535	26.31	5.270	BMB
2	3.48	Chloride	60.686	8.024	18.30	4.746	bMB
3	4.47	Nitrite	47.153	8.007	18.27	2.556	bMB
4	5.58	Bromide	7.870	1.404	3.20	2.376	bMB
5	6.43	n.a.	48.377	9.787	22.33	n.a.	BMB
6	11.50	Sulfate	16.193	5.081	11.59	4.733	BMB
Total:			260.883	43.840	100.00	19.680	

Before

APR 28 2011

53 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 19:56	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	79.453	11.384	26.09	104-5.201	BMb
2	3.47	Chloride	61.266	8.135	18.64	96-4.811	bMb
3	4.45	Nitrite	46.691	7.936	18.19	101-2.534	bMb
4	5.57	Bromide	7.823	1.391	3.19	94-2.352	bMB
5	6.42	Nitrate	47.949	9.755	22.35	94-2.353	BMB
6	11.42	Sulfate	16.116	5.041	11.55	94-4.695	BMB^
Total:			259.298	43.642	100.00	21.947	

After Initials NO

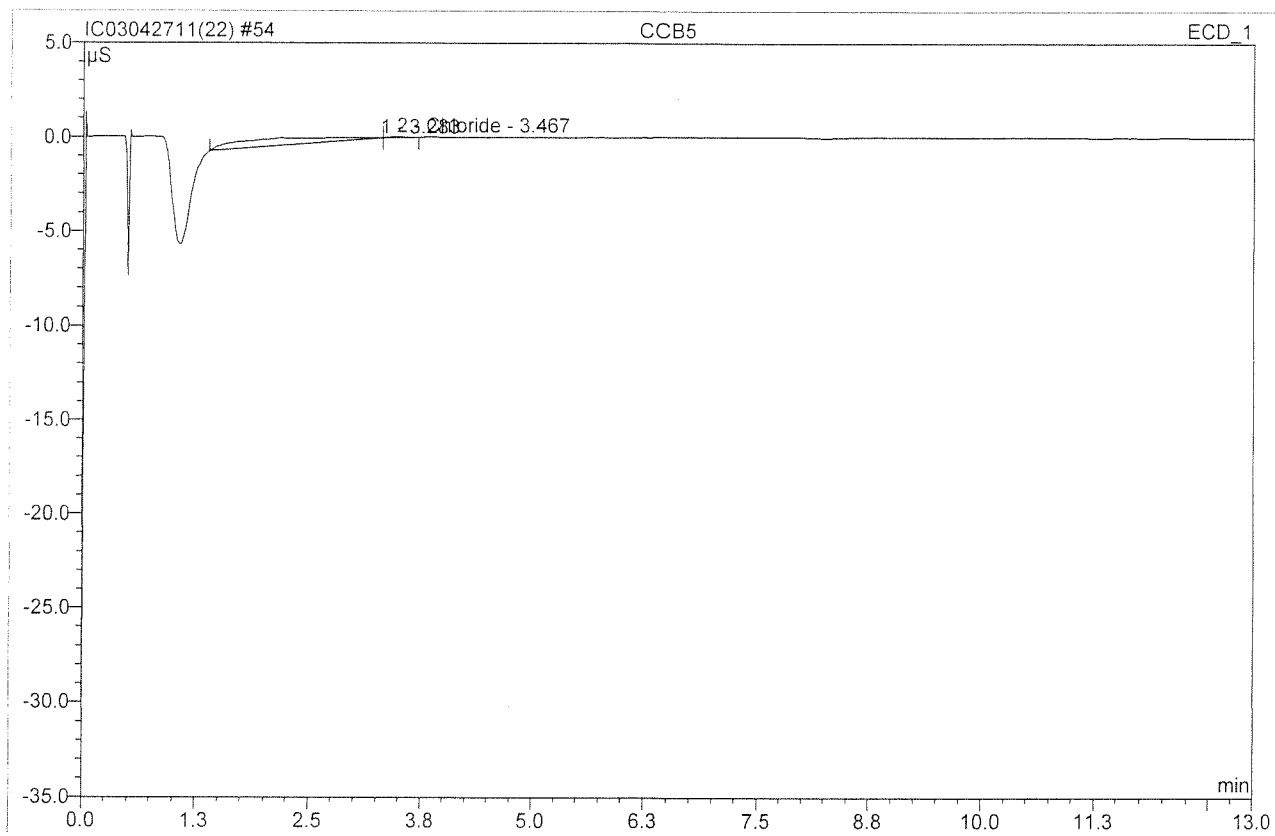
APR 28 2011

Handwritten signature

- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

54 CCB5**CCB5**

Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 20:12	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

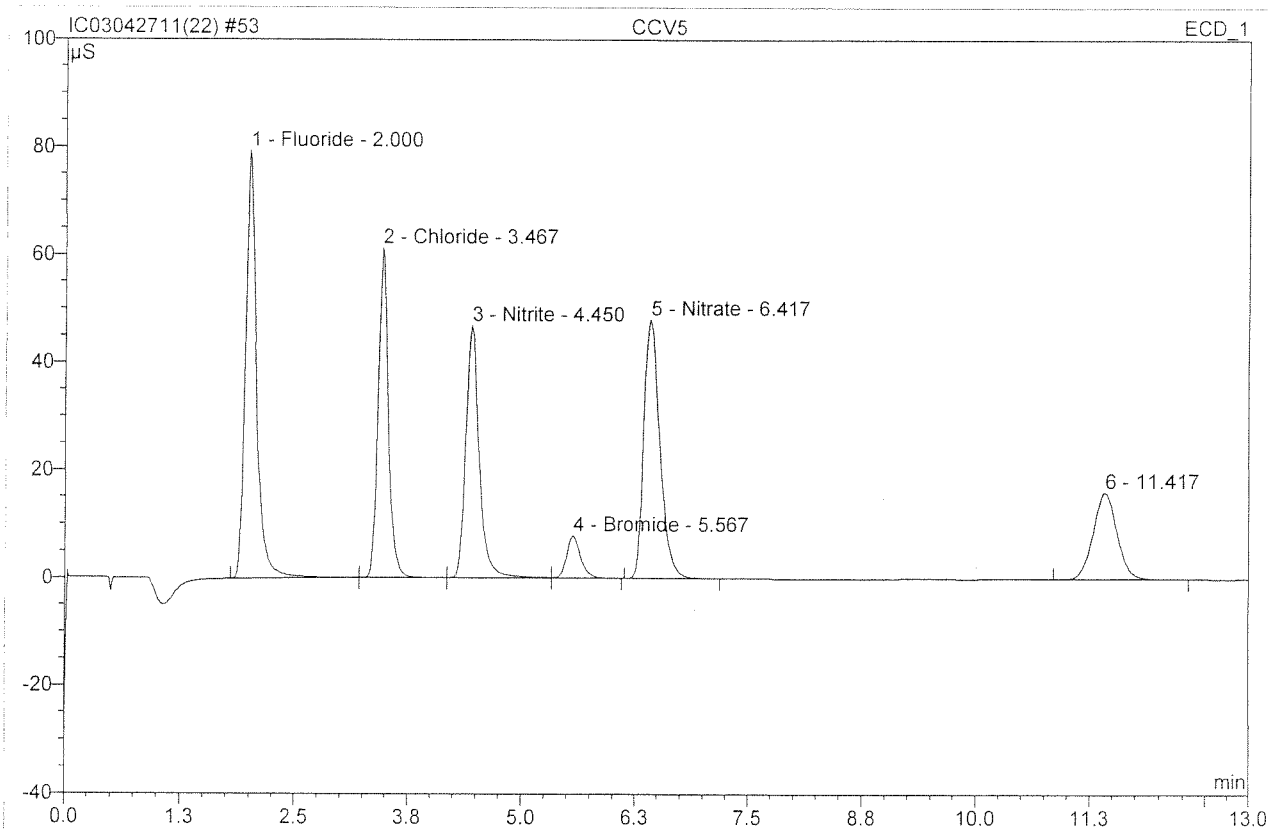


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.28	n.a.	0.013	0.446	97.68	n.a.	BMb
2	3.47	Chloride	0.068	0.011	2.32	0.006	bMB
Total:			0.082	0.456	100.00	0.006	

53 CCV5

CCV5

Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/27/2011 19:56	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	79.453	11.384	26.09	5.201	BMb
2	3.47	Chloride	61.266	8.135	18.64	4.811	bMb
3	4.45	Nitrite	46.691	7.936	18.19	2.534	bMb
4	5.57	Bromide	7.823	1.391	3.19	2.352	bMB
5	6.42	Nitrate	47.949	9.755	22.35	2.353	BMB
6	11.42	n.a.	16.116	5.041	11.55	n.a.	BMB
Total:			259.298	43.642	100.00	17.252	

Before

APR 28 2011

COLUMBIA ANALYTICAL SERVICES, INC.
Ion Chromatography Calibration Data

Sequence: IC03042211C(22)

Date: 04/22/11

Anion	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Corr.Coeff	Slope
F	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9768	2.1887
Cl	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9557	1.6909
NO2	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.9944	3.1325
Br	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.9338	0.5912
NO3	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.8405	4.1453
SO4	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9252	1.0736

All calibration standard concentrations are in mg/L unless otherwise noted.

Zero point forced through zero.

No.	Peak Name	Cal.Type	#Points	Rel.Std.Dev	Corr.Coeff.	Offset	Slope	Curve
				%	%			
1	Fluoride	Lin	7	2.5116	99.9768	0	2.1887	0
2	Chloride	Lin	8	4.8836	99.9557	0	1.6909	0
3	Nitrite	Lin	6	2.198	99.9944	0	3.1325	0
4	Bromide	Lin	6	6.2266	99.9338	0	0.5912	0
5	Nitrate	Lin	6	10.8585	99.8405	0	4.1453	0
6	Sulfate	Lin	8	5.775	99.9252	0	1.0736	0
Average:			6.83333	5.4089	99.9377	0	2.137	0

AN11-68-A 100PPM NO2, BR, NO3

AN11-68-B 100PPM F, CL, SO4

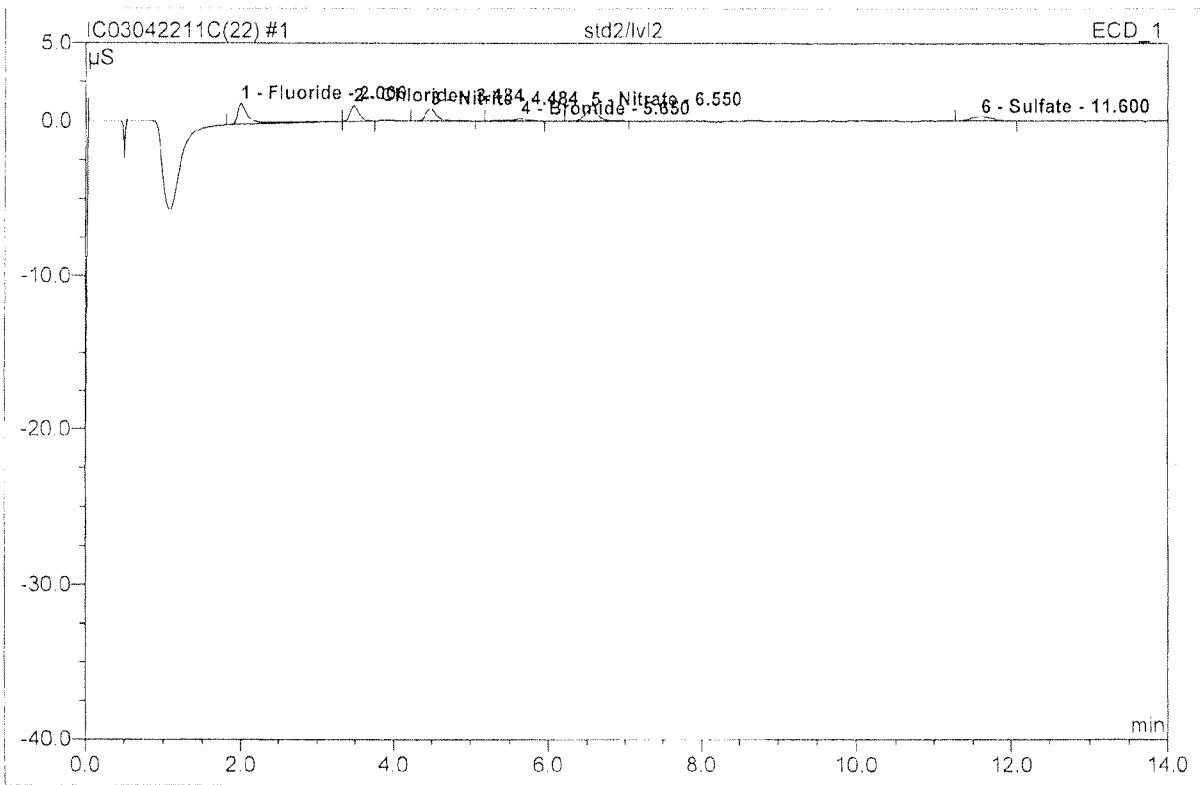
mL added

	AN11-68-C	AN11-68-D	AN11-68-E	AN11-68-F	AN11-68-G	AN11-68-H	AN11-68-I	
	STD2	STD3	STD4	STD5	STD6	STD7	STD8	STD1
F	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
CL	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
SO4	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
NO2	0.050	0.100	0.500	1.000	2.00	5.00	--	0
NO3	0.050	0.100	0.500	1.000	2.00	5.00	--	0
BR	0.050	0.100	0.500	1.000	2.00	5.00	--	0

16425.11

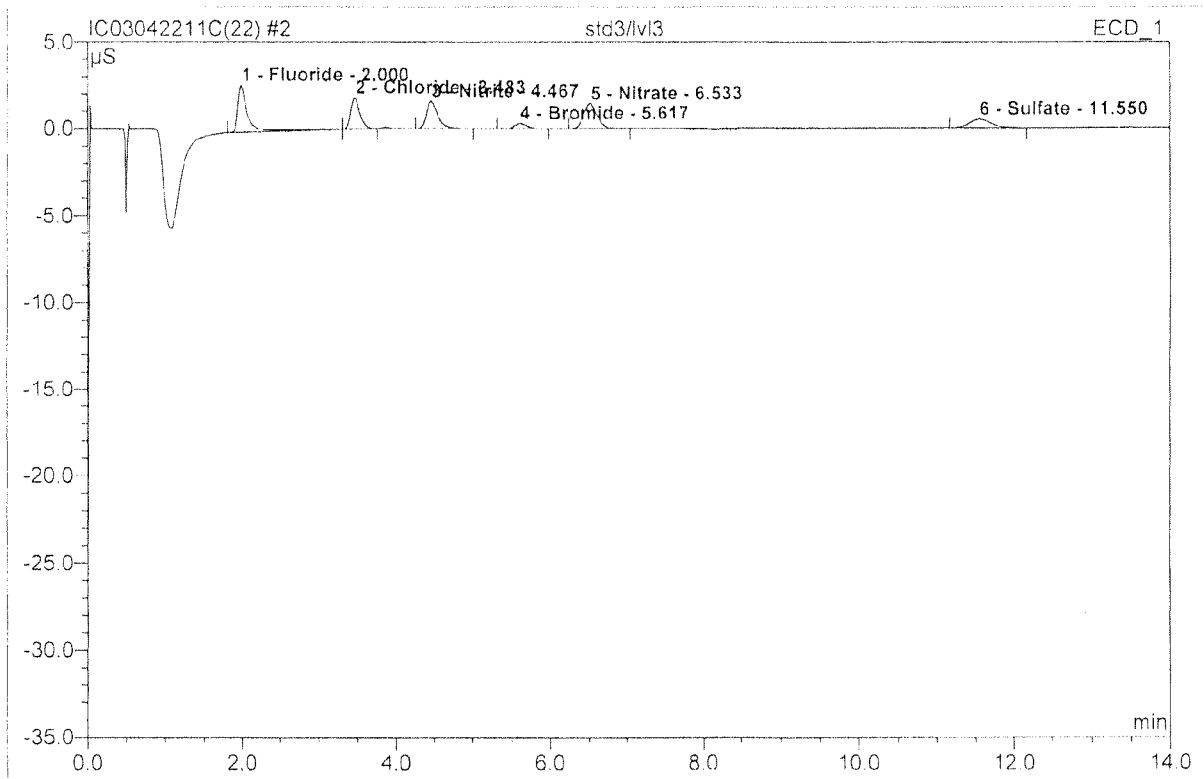
cc 4/25/11

1 std2/lvl2			
Sample Name:	std2/lvl2	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:16	Sample Weight:	1.0000
Run Time (min):	14.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.00	Fluoride	1.362	0.247	30.61	0.113	BMB
2	3.48	Chloride	1.023	0.143	17.77	0.085	bMB
3	4.48	Nitrite	0.790	0.142	17.56	0.045	BMB
4	5.65	Bromide	0.152	0.031	3.84	0.052	BMB
5	6.55	Nitrate	0.740	0.156	19.34	0.038	BMB
6	11.60	Sulfate	0.270	0.088	10.89	0.082	BMB
Total:			4.338	0.806	100.00	0.414	

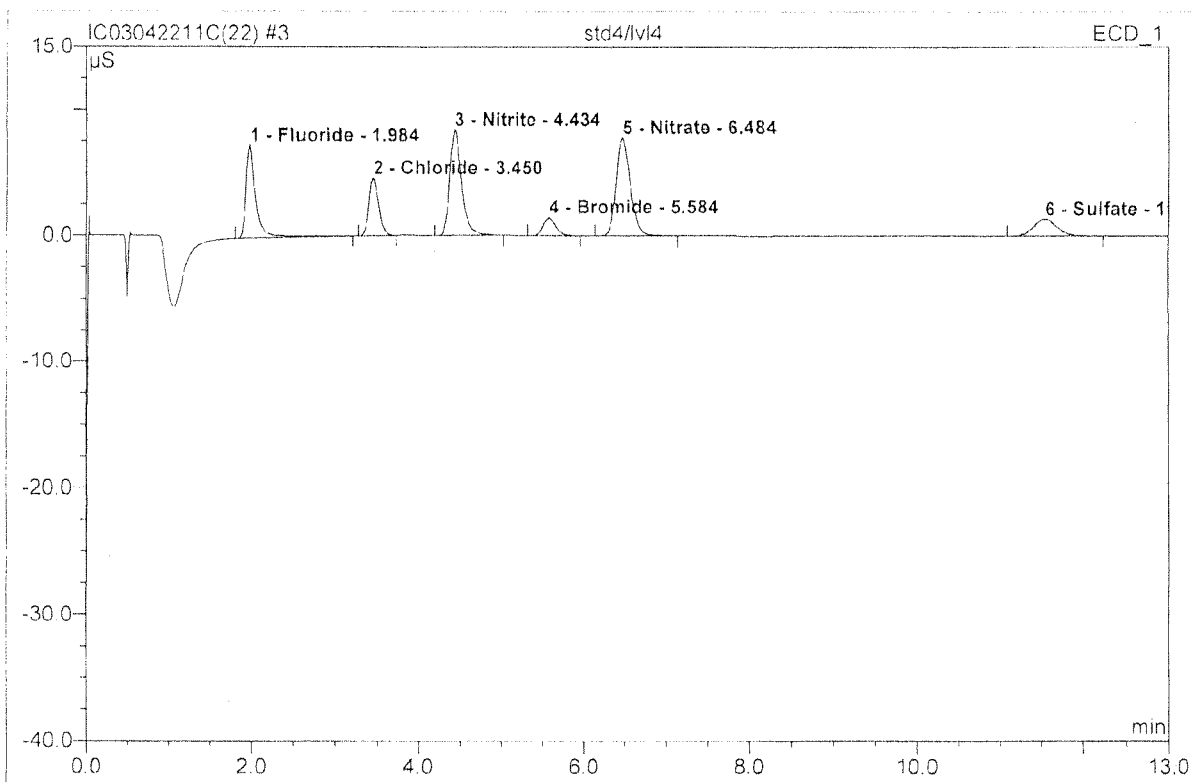
2 std3/lvl3			
Sample Name:	std3/lvl3	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:33	Sample Weight:	1.0000
Run Time (min):	14.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	2.733	0.430	28.80	0.196	BMB
2	3.48	Chloride	1.819	0.253	16.94	0.150	bMB
3	4.47	Nitrite	1.597	0.274	18.33	0.087	BMB
4	5.62	Bromide	0.299	0.055	3.70	0.093	BMB
5	6.53	Nitrate	1.467	0.307	20.57	0.074	BMB
6	11.55	Sulfate	0.523	0.174	11.67	0.162	BMB
Total:			8.437	1.493	100.00	0.763	

3 std4/lvl4

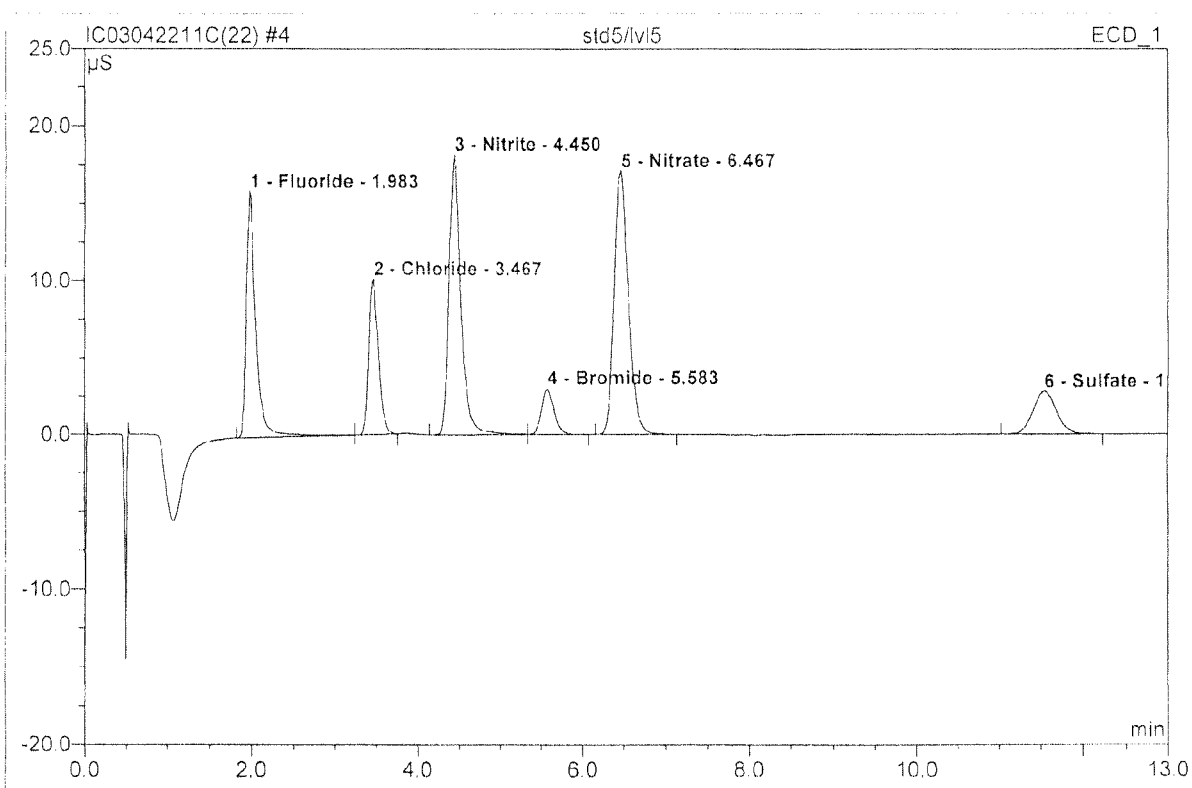
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:49	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	7.391	1.014	19.10	0.464	BMB
2	3.45	Chloride	4.603	0.629	11.85	0.372	BMB
3	4.43	Nitrite	8.416	1.406	26.46	0.449	BMB
4	5.58	Bromide	1.435	0.258	4.86	0.437	BMB
5	6.48	Nitrate	7.797	1.567	29.50	0.378	BMB
6	11.53	Sulfate	1.329	0.437	8.23	0.407	BMB
Total:			30.971	5.312	100.00	2.507	

4 std5/lv15

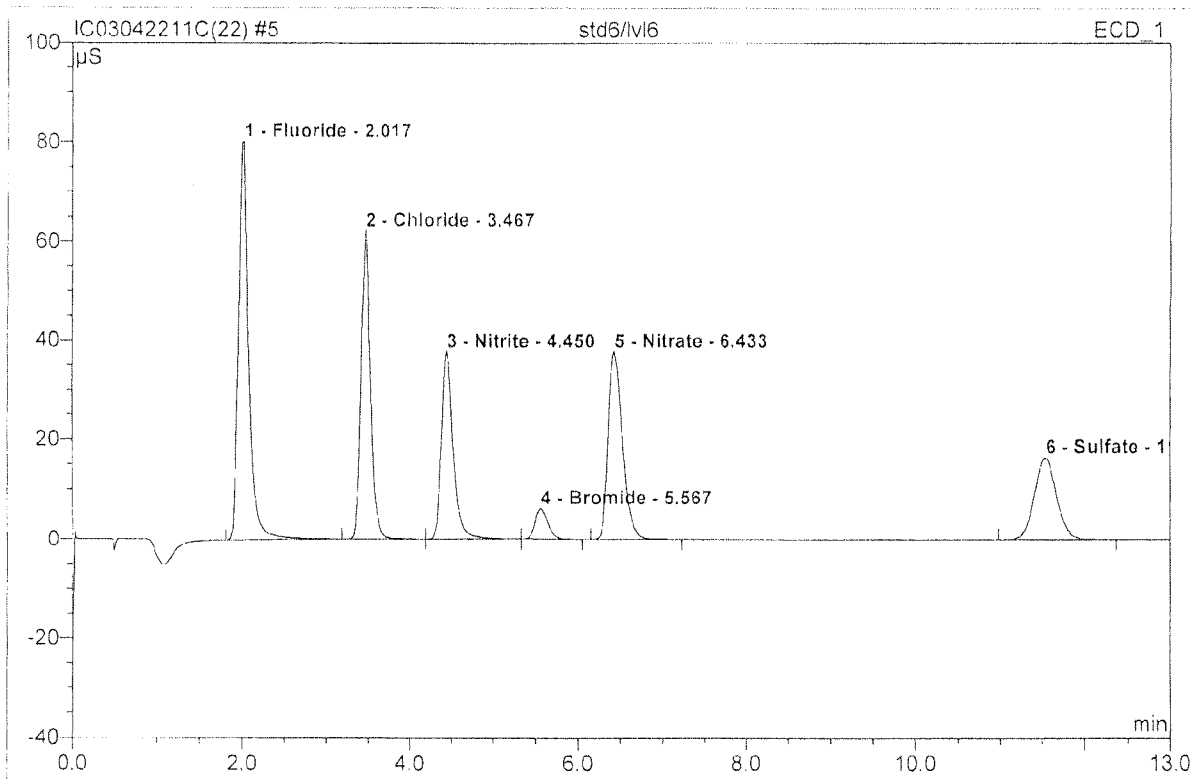
Sample Name:	std5/lv15	Injection Volume:	200.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:05	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	15.962	2.099	18.63	0.959	BMB
2	3.47	Chloride	10.090	1.354	12.02	0.801	bMB
3	4.45	Nitrite	18.132	3.000	26.63	0.958	BMB
4	5.58	Bromide	2.975	0.532	4.73	0.901	bMB
5	6.47	Nitrate	17.099	3.378	29.99	0.815	BMB
6	11.53	Sulfate	2.769	0.900	7.99	0.838	BMB
Total:			67.028	11.263	100.00	5.271	

5 std6/lvl6

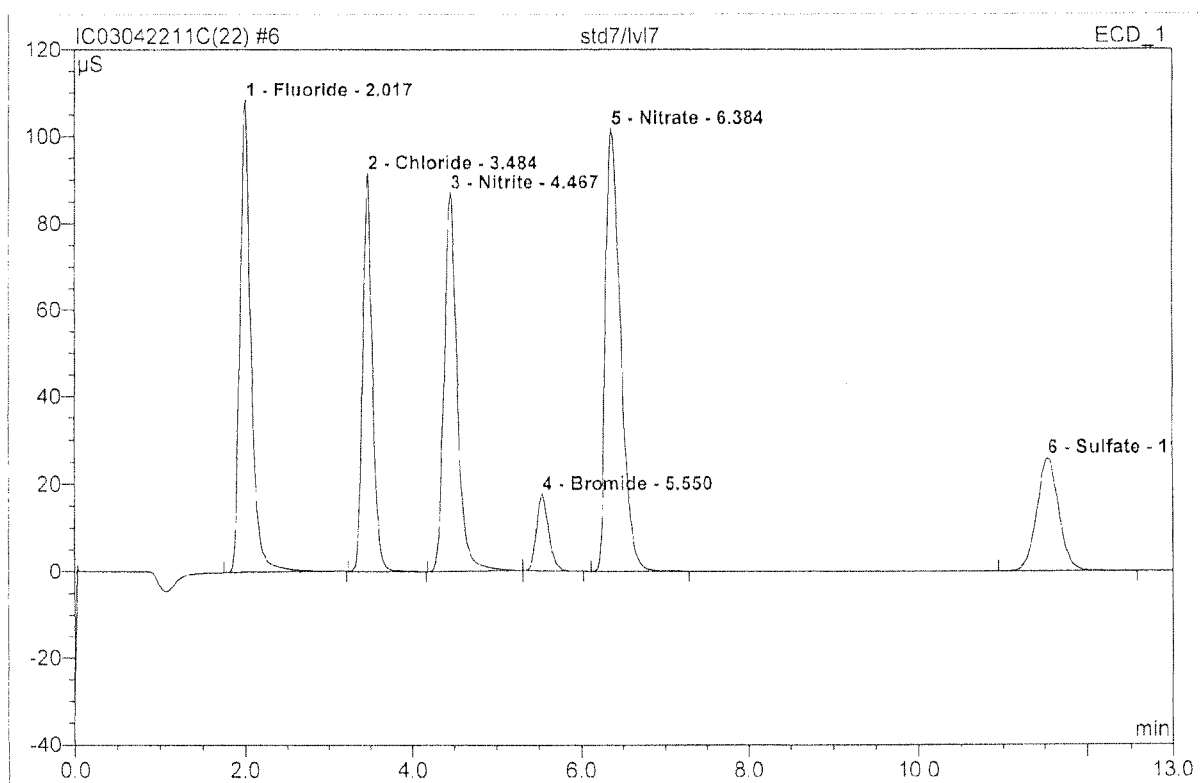
Sample Name:	std6/lvl6	Injection Volume:	200.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	80.363	11.246	28.70	5.139	BMB
2	3.47	Chloride	62.240	8.112	20.70	4.797	BMB
3	4.45	Nitrite	37.725	6.247	15.94	1.994	bMb
4	5.57	Bromide	6.258	1.103	2.81	1.866	bMB
5	6.43	Nitrate	37.726	7.429	18.96	1.792	BMB
6	11.55	Sulfate	16.353	5.052	12.89	4.705	BMB
Total:			240.665	39.189	100.00	20.293	

6 std7/lvl7

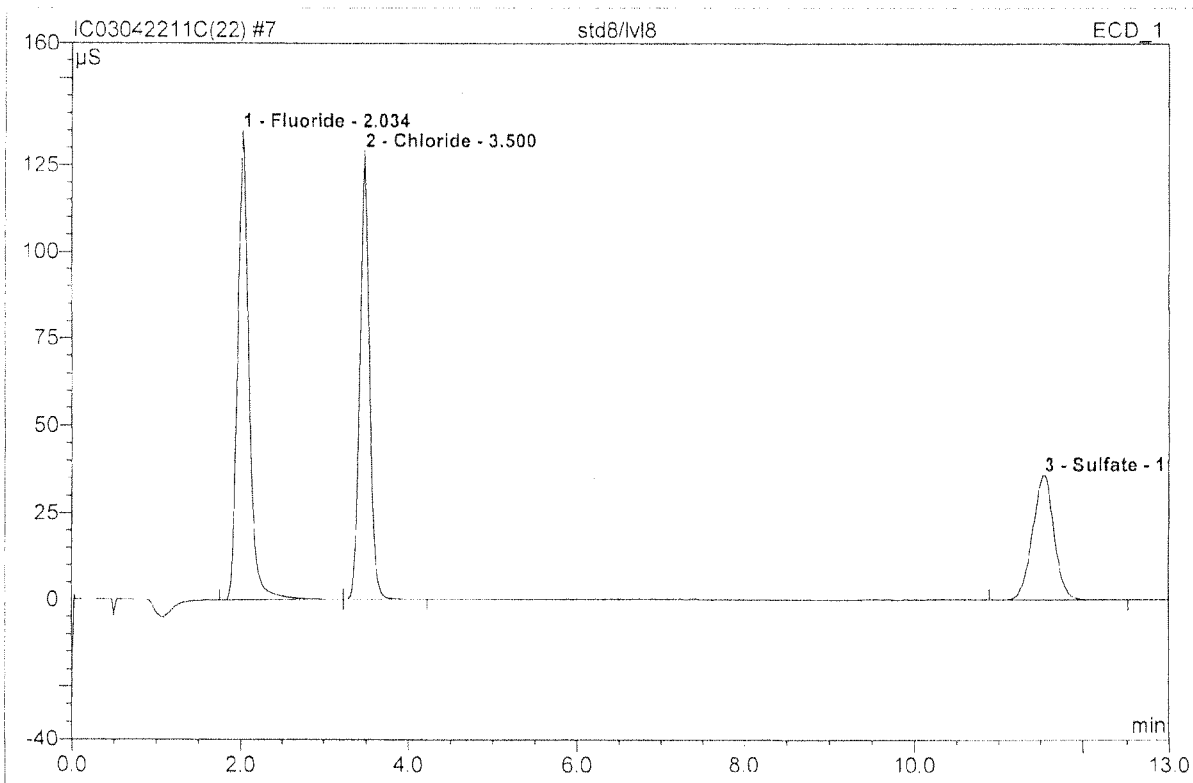
Sample Name:	std7/lvl7	Injection Volume:	200.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:35	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	108.532	16.601	21.55	7.585	BMB
2	3.48	Chloride	91.544	12.525	16.26	7.407	BMB
3	4.47	Nitrite	87.092	15.713	20.40	5.016	BMB
4	5.55	Bromide	17.617	3.003	3.90	5.080	bMB
5	6.38	Nitrate	101.819	21.278	27.62	5.133	BMB
6	11.55	Sulfate	25.898	7.920	10.28	7.377	BMB
Total:			432.501	77.040	100.00	37.598	

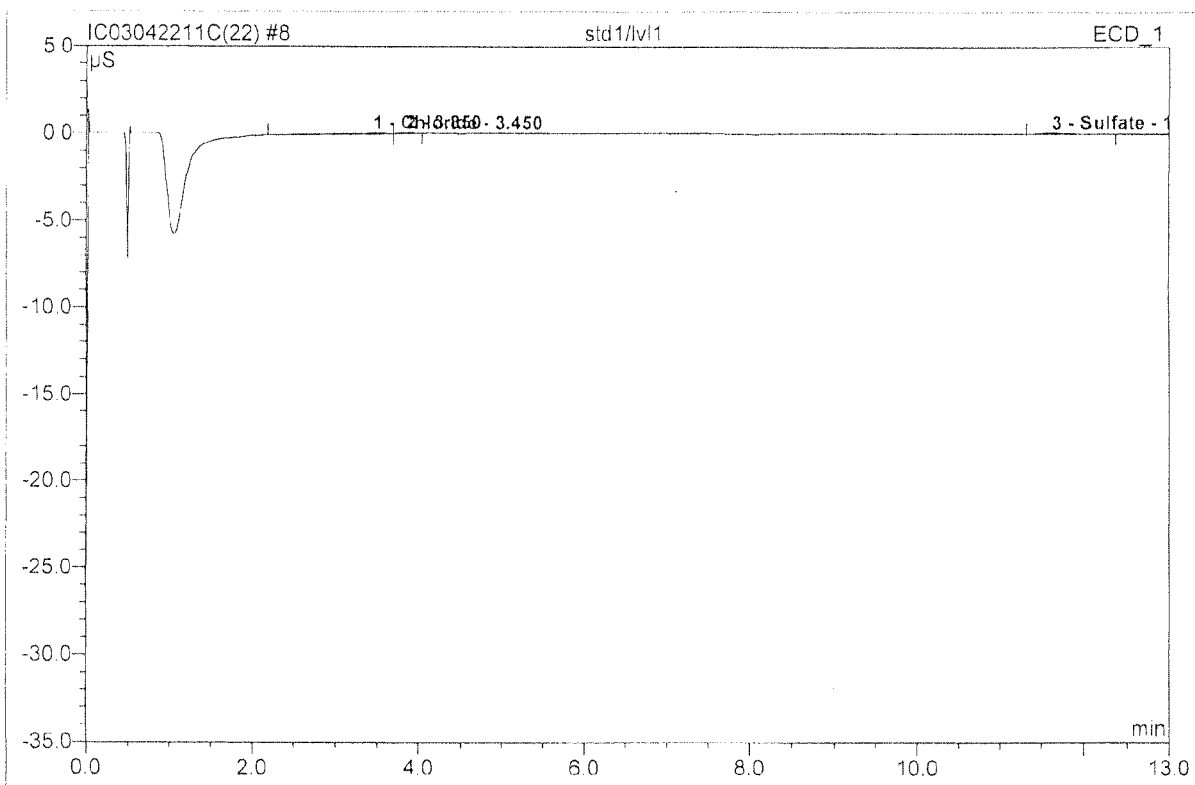
7 std8/lvl8

Sample Name:	std8/lvl8	Injection Volume:	200.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:51	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



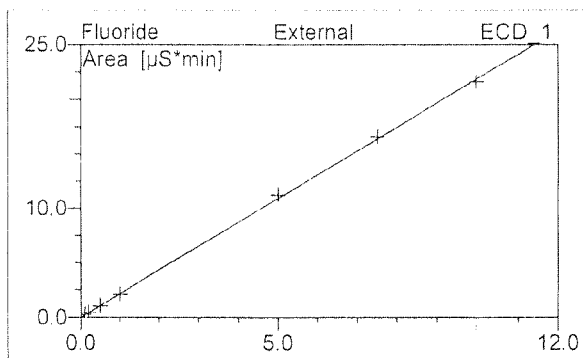
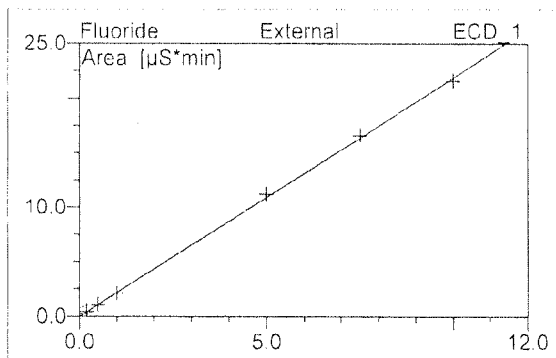
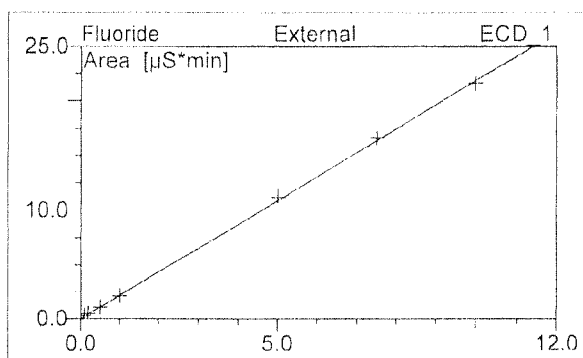
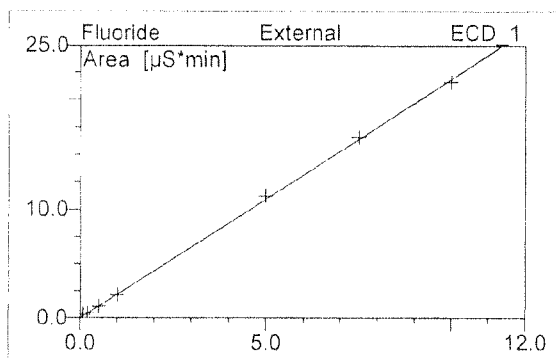
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.03	Fluoride	134.891	21.609	43.33	9.873	BMb
2	3.50	Chloride	128.899	17.245	34.58	10.199	bMB
3	11.55	Sulfate	36.064	11.017	22.09	10.262	BMB
Total:			299.854	49.871	100.00	30.333	

8 std1/lvl1			
Sample Name:	std1/lvl1	Injection Volume:	200.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 16:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



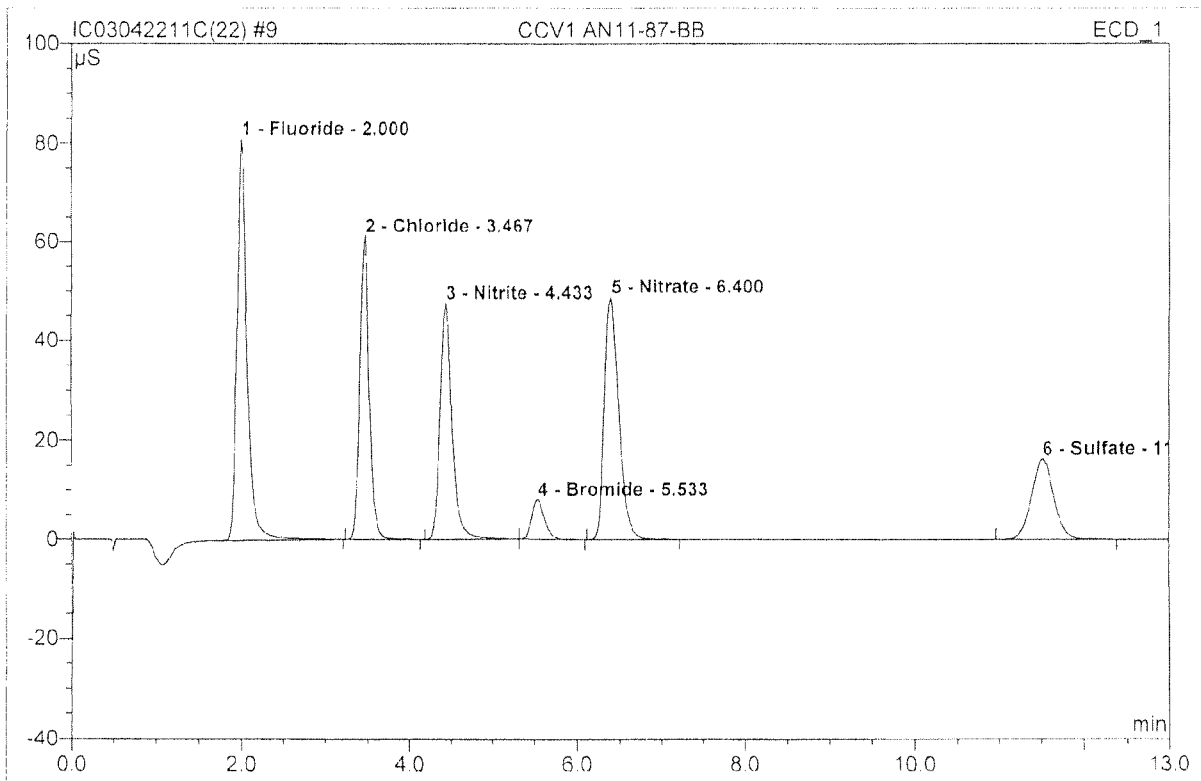
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	0.047	0.011	22.71	0.007	BMB
2	3.85	n.a.	0.077	0.011	21.82	n.a.	bMB
3	11.62	Sulfate	0.071	0.028	55.47	0.026	BMB
Total:			0.195	0.050	100.00	0.032	

8 std1/lvl1	
Sample Name: std1/lvl1	Injection Volume: 200.0
Vial Number: 7	Channel: ECD_1
Sample Type: standard	Wavelength: n.a.
Control Program: epa300(22)	Bandwidth: n.a.
Quantif. Method: epa300	Dilution Factor: 1.0000
Recording Time: 4/22/2011 16:06	Sample Weight: 1.0000
Run Time (min): 13.00	Sample Amount: 1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	3.45	Chloride	Lin	8	99.9557	0.0000	1.6909	0.0000
2	3.85	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	11.62	Sulfate	Lin	8	99.9252	0.0000	1.0736	0.0000
Average:					99.9405	0.0000	1.3823	0.0000

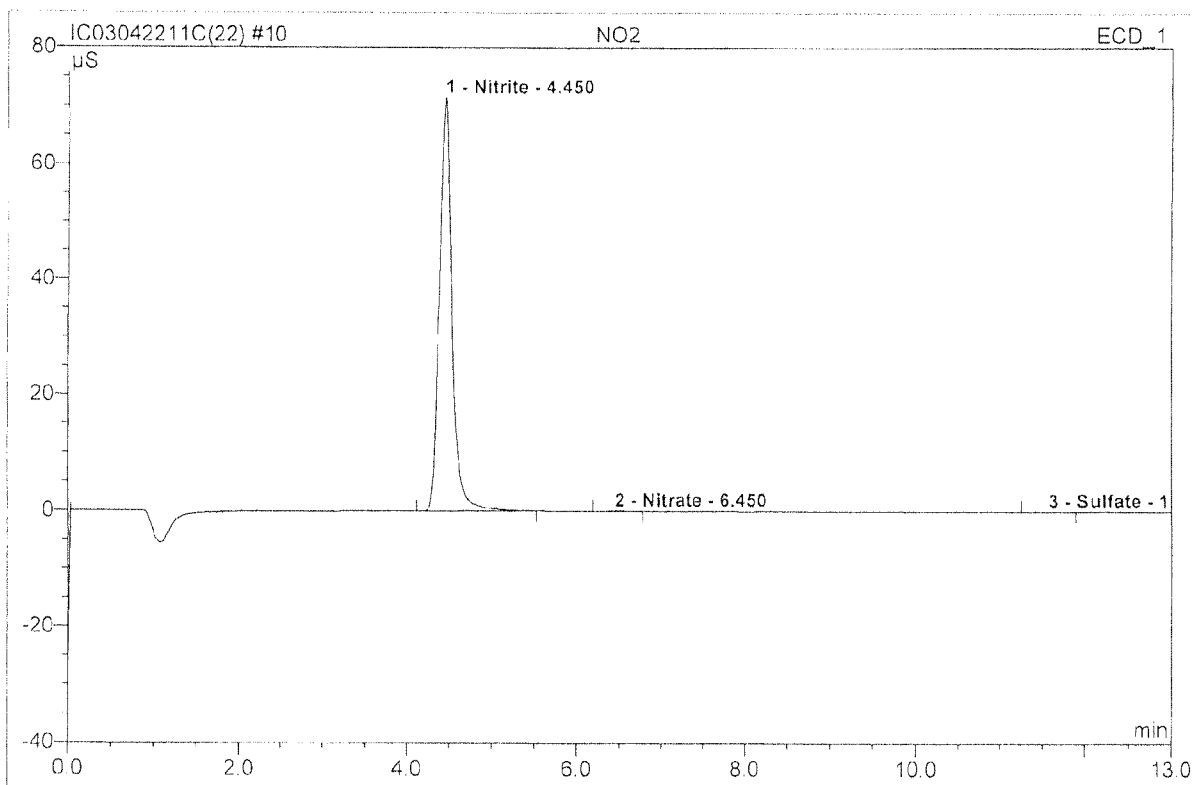
9 CCV1 AN11-87-BB			
Sample Name:	CCV1 AN11-87-BB	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 16:22	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.00	Fluoride	81.028	11.211	26.01	5.122	BMB
2	3.47	Chloride	61.141	7.930	18.40	4.690	BMB
3	4.43	Nitrite	47.467	7.898	18.32	2.521	BMB
4	5.53	Bromide	7.997	1.390	3.23	2.351	bMB
5	6.40	Nitrate	48.706	9.656	22.40	2.329	BMB
6	11.52	Sulfate	16.250	5.018	11.64	4.674	BMB
Total:			262.589	43.103	100.00	21.688	

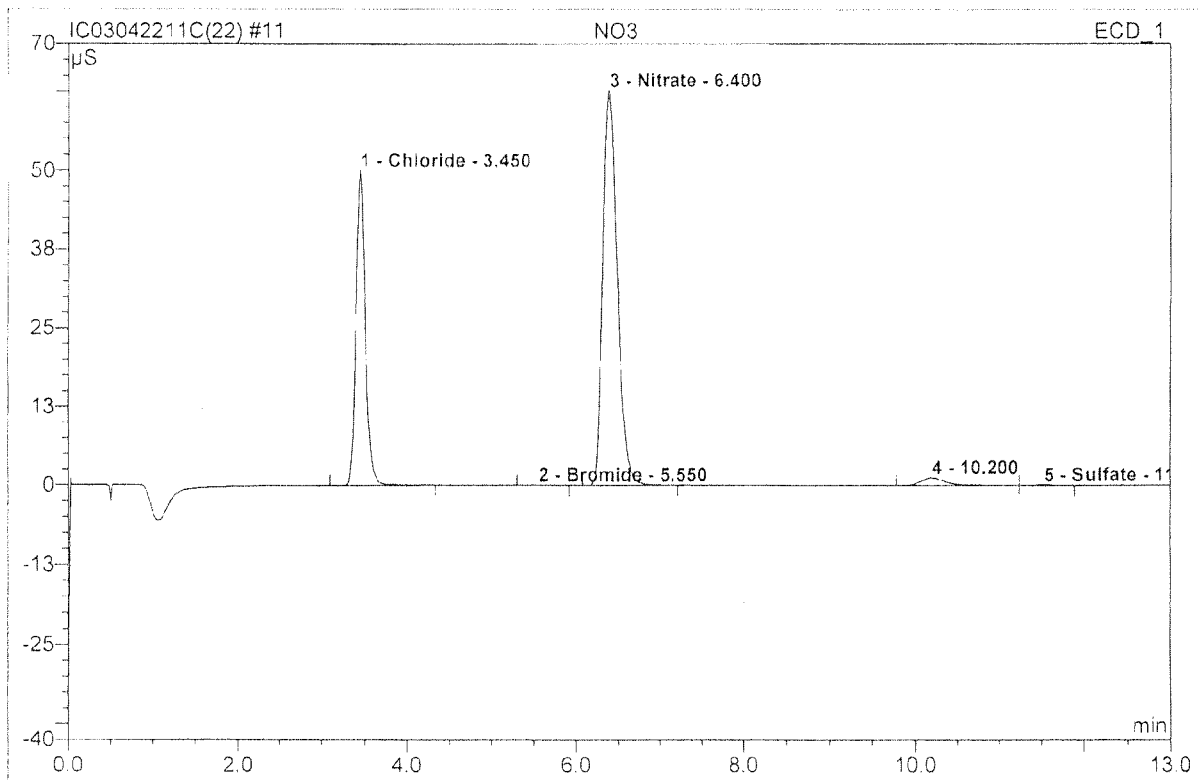
10 NO2

Sample Name:	NO2	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	4/22/2011 16:37	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



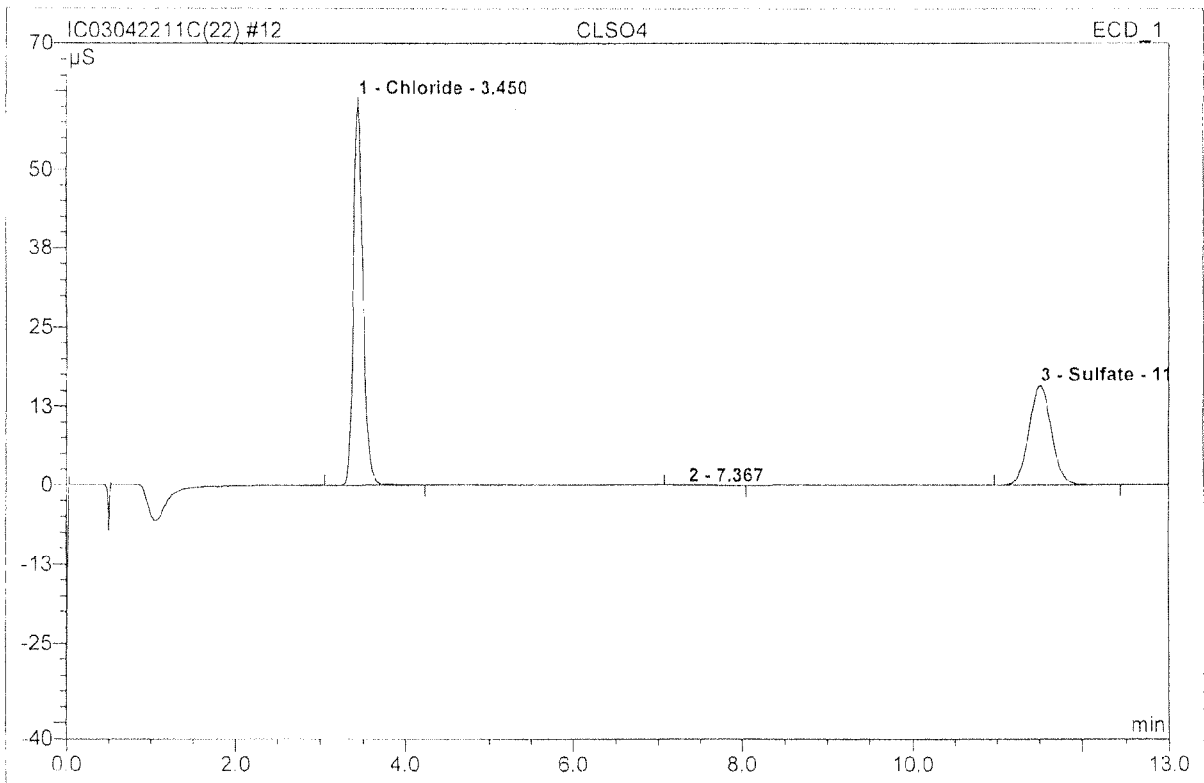
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.45	Nitrite	71.486	12.533	99.72	100.022	BMB
2	6.45	Nitrate	0.123	0.025	0.20	0.152	BMB
3	11.57	Sulfate	0.034	0.010	0.08	0.240	BMB
Total:			71.643	12.568	100.00	100.413	

11 NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/22/2011 16:53	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



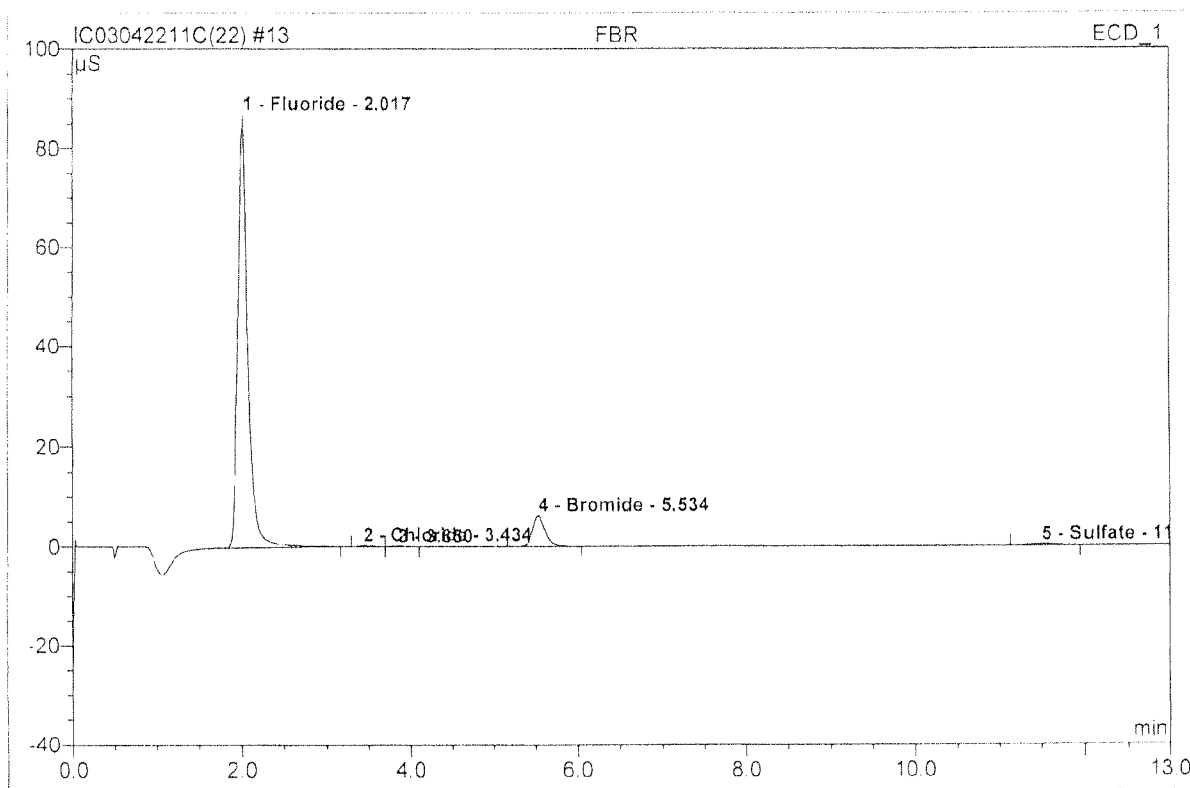
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	3.45	Chloride	49.960	6.399	32.70	18.922	BMB
2	5.55	Bromide	0.048	0.010	0.05	0.088	BMB
3	6.40	Nitrate	62.646	12.702	64.90	10) 15.321	BMB
4	10.20	n.a.	1.223	0.439	2.24	n.a.	BMB
5	11.53	Sulfate	0.064	0.021	0.11	0.100	bMB
Total:			113.941	19.572	100.00	34.431	

12 CLSO4			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 17:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	61.459	7.776	61.23	4.599	BMB
2	7.37	n.a.	0.031	0.020	0.16	n.a.	BMB
3	11.52	Sulfate	15.818	4.904	38.61	4.567	BMB
Total:			77.308	12.700	100.00	9.166	

13 FBR			
Sample Name:	FBR	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/22/2011 17:24	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	87.015	11.882	90.76	10.858	BMB
2	3.43	Chloride	0.229	0.030	0.23	0.036	BMB
3	3.85	n.a.	0.086	0.013	0.10	n.a.	bMB
4	5.53	Bromide	6.210	1.091	8.34	3.692	BMB
5	11.50	Sulfate	0.234	0.074	0.57	0.139	BMB
Total:			93.774	13.091	100.00	14.724	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/2011
Date Received: 4/26/2011

Dissolved Nitrite as Nitrogen

Prep Method: NONE
 Analysis Method: 300.0
 Test Notes:

Units: mg/L (ppm)
 Basis: NA

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-1	K1103574-001	0.10	0.004	2	4/26/2011 10:54	ND	
MW-2	K1103574-002	0.10	0.004	2	4/26/2011 11:10	ND	
MW-5	K1103574-003	0.10	0.004	2	4/26/2011 11:25	ND	
MW-6	K1103574-004	0.10	0.004	2	4/26/2011 11:41	ND	
MW-7	K1103574-005	0.10	0.004	2	4/26/2011 16:35	ND	
Method Blank	K1103574-MB	0.050	0.002	1	4/26/2011 8:35	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Duplicate Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
 Lab Code: K1103600-010DUP Basis: NA
 Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Dissolved Nitrite as Nitrogen	NONE	300.0	0.10	ND	ND	ND	-	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Matrix Spike/Duplicate Matrix Spike Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
Lab Code: K1103600-010MS, K1103600-010DMS Basis: NA
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Percent Recovery				CAS Acceptance Limits	Relative Percent Difference	Result Notes
				MS	DMS		MS	DMS	MS	DMS			
				MS	DMS		MS	DMS	MS	DMS			
Dissolved Nitrite as Nitrogen	NONE	300.0	0.10	20.0	20.0	ND	19.6	19.8	98	99	80-120	1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Nitrite as Nitrogen	NONE	300.0	100	100	100	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/26/2011

Dissolved Nitrite as Nitrogen
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	2.50	2.56	103
CCV 2 Result	2.50	2.57	103
CCV 3 Result	2.50	2.56	103
CCV 4 Result	2.50	2.54	102
CCV 5 Result	2.50	2.53	101
CCV 6 Result	2.50	2.55	102

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.050	ND
CCB 2 Result	0.050	ND
CCB 3 Result	0.050	ND
CCB 4 Result	0.050	ND
CCB 5 Result	0.050	ND
CCB 6 Result	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/2011
Date Received: 4/26/2011

Dissolved Nitrate as Nitrogen

Prep Method: NONE Units: mg/L (ppm)
 Analysis Method: 300.0 Basis: NA
 Test Notes:

Sample Name	Lab Code	MRL	Dilution Factor	Date Analyzed	Result	Result Notes
MW-1	K1103574-001	0.50	10	4/27/2011 10:57	33.3	
MW-2	K1103574-002	0.50	10	4/26/2011 15:02	7.12	
MW-5	K1103574-003	0.25	5	4/26/2011 15:17	12.8	
MW-6	K1103574-004	0.25	5	4/26/2011 15:33	6.93	
MW-7	K1103574-005	0.50	10	4/26/2011 11:56	6.48	
Method Blank	K1103574-MB	0.050	1	4/26/2011 8:35	ND	
Method Blank	K1103574-MB	0.050	1	4/27/2011 9:06	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Duplicate Summary
 Inorganic Parameters

Sample Name: Batch QC
Lab Code: K1103600-010DUP
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	MRL	Sample Result	Duplicate Sample Result	Average	Relative Percent Difference	Result Notes
Dissolved Nitrate as Nitrogen	NONE	300.0	0.10	4.13	4.12	4.13	< 1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1103574
Date Collected: 4/25/2011
Date Received: 4/26/2011
Date Extracted: NA
Date Analyzed:

Matrix Spike/Duplicate Matrix Spike Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
 Lab Code: K1103600-010MS, K1103600-010DMS Basis: NA
 Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Spike Level		Sample Result	Spike Result		Percent Recovery				Result Notes
				MS	DMS		MS	DMS	CAS Acceptance Limits		Relative Percent Difference		
									MS	DMS			
Dissolved Nitrate as Nitrogen	NONE	300.0	0.10	20.0	20.0	4.13	22.6	22.8	92	93	80-120	<1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/26/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Nitrate as Nitrogen	NONE	300.0	15.2	15.4	101	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901
LCS Matrix: Water

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 4/27/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1103574-LCS
Test Notes:

Units: mg/L (ppm)
Basis: NA

Analyte	Prep Method	Analysis Method	True Value	Result	Percent Recovery	CAS	Result Notes
						Percent Recovery Acceptance Limits	
Dissolved Nitrate as Nitrogen	NONE	300.0	15.2	15.5	102	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/26/2011

Dissolved Nitrate as Nitrogen
EPA Method 300.0
Units: mg/L (ppm)

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	2.50	2.37	95
CCV 2 Result	2.50	2.36	94
CCV 3 Result	2.50	2.36	94
CCV 4 Result	2.50	2.36	94
CCV 5 Result	2.50	2.36	94
CCV 6 Result	2.50	2.35	94

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.050	ND
CCB 2 Result	0.050	ND
CCB 3 Result	0.050	ND
CCB 4 Result	0.050	ND
CCB 5 Result	0.050	ND
CCB 6 Result	0.050	ND

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1103574
Date Collected: NA
Date Received: NA
Date Analyzed: 4/27/2011

Dissolved Nitrate as Nitrogen
EPA Method 300.0
Units: mg/L (ppm)

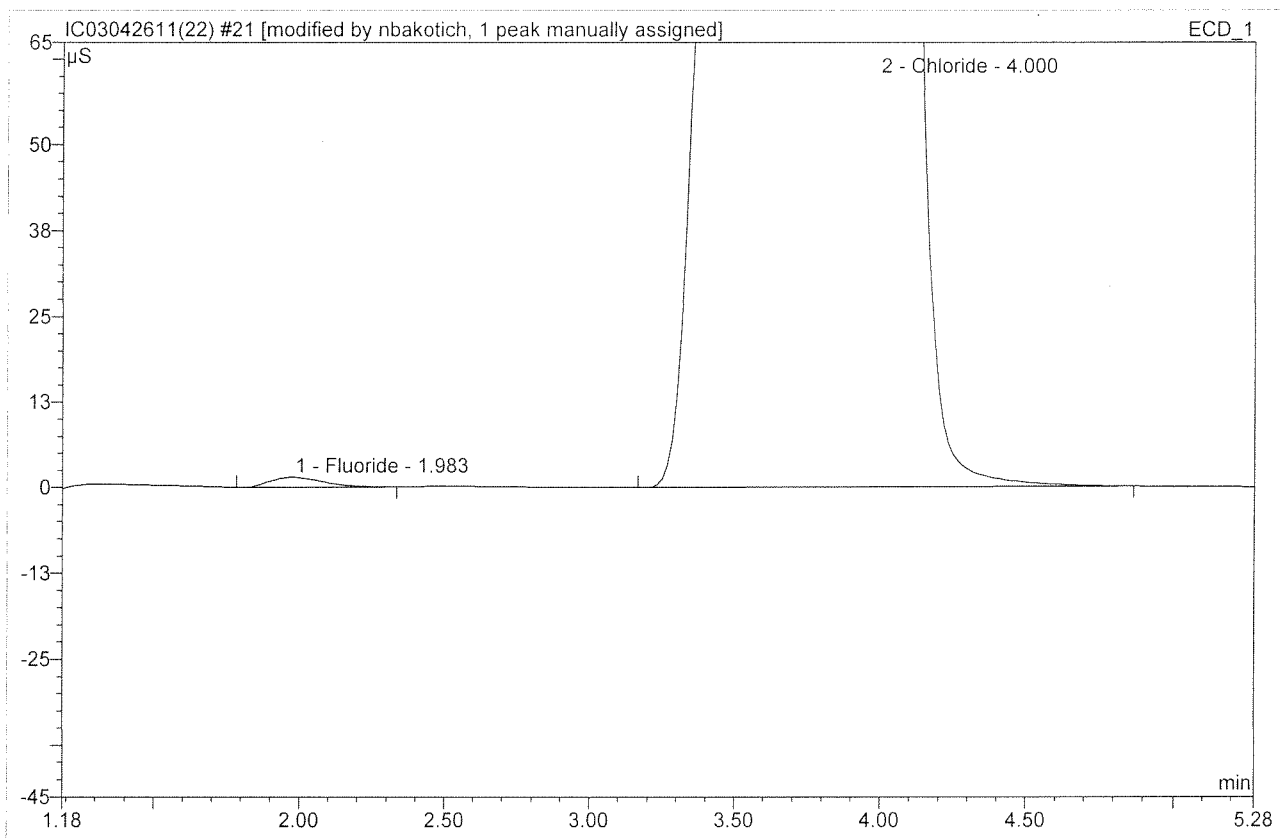
CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	2.50	2.34	94
CCV 2 Result	2.50	2.35	94
CCV 3 Result	2.50	2.36	94
CCV 4 Result	2.50	2.36	94
CCV 5 Result	2.50	2.35	94

CONTINUING CALIBRATION BLANK (CCB)

	MRL	Blank Value
CCB 1 Result	0.050	ND
CCB 2 Result	0.050	ND
CCB 3 Result	0.050	ND
CCB 4 Result	0.050	ND
CCB 5 Result	0.050	ND

21 K1103574-001			
Sample Name:	K1103574-001	Injection Volume:	200.0
Vial Number:	21	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 10:54	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	1.453	0.314	0.07	0.287	BMB*
2	4.00	Chloride	878.820	394.870	85.25	467.042	BMB^
3	5.78	Bromide	0.247	0.059	0.01	0.199	BMB
4	6.60	Nitrate	72.767	28.541	6.16	13.770	BMb
5	7.42	n.a.	123.230	17.834	3.85	n.a.	bMB
6	10.42	n.a.	0.051	0.014	0.00	n.a.	BMB
7	11.80	Sulfate	69.069	21.552	4.65	40.149	BMB
Total:			1145.638	463.185	100.00	521.448	

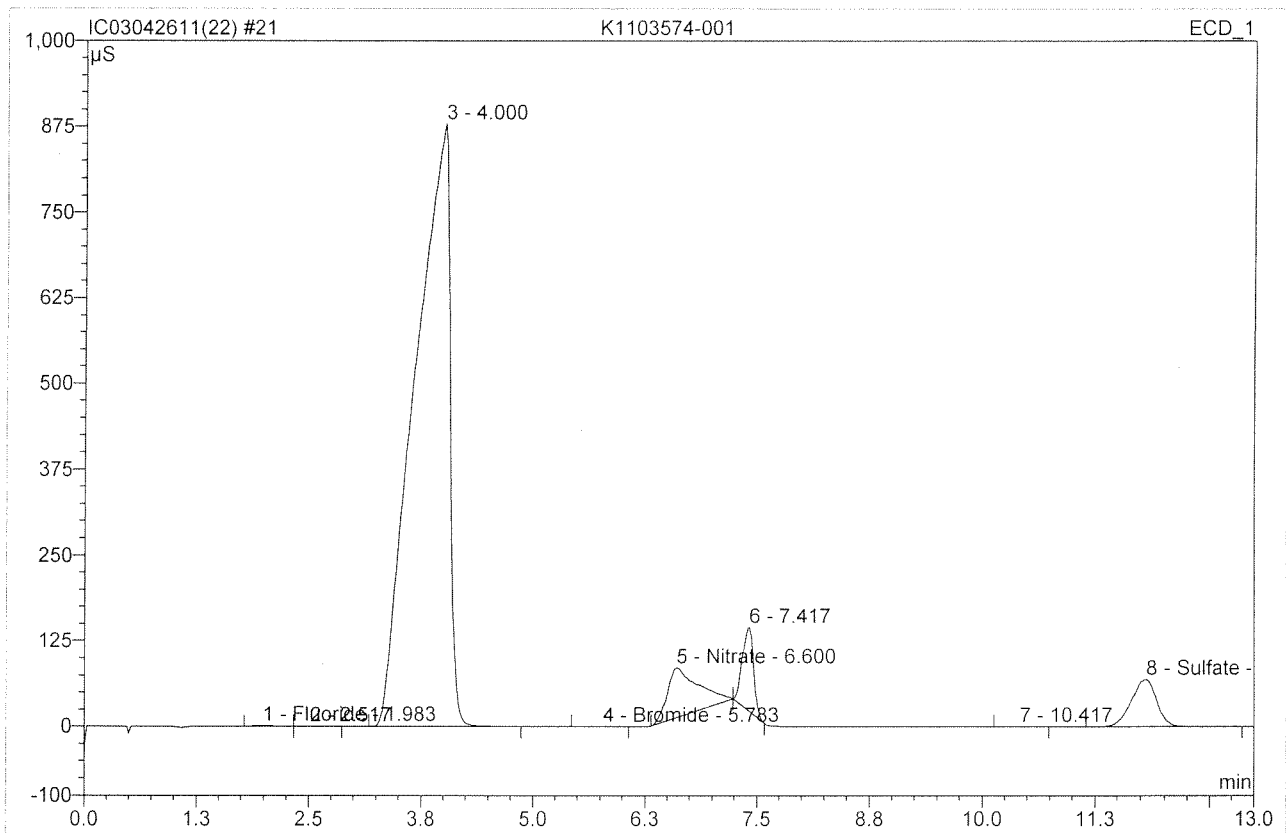
NO₂ CO₁₀

After Initials nb

4/26/11

APR 26 2011

21 K1103574-001			
Sample Name:	K1103574-001	Injection Volume:	200.0
Vial Number:	21	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 10:54	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



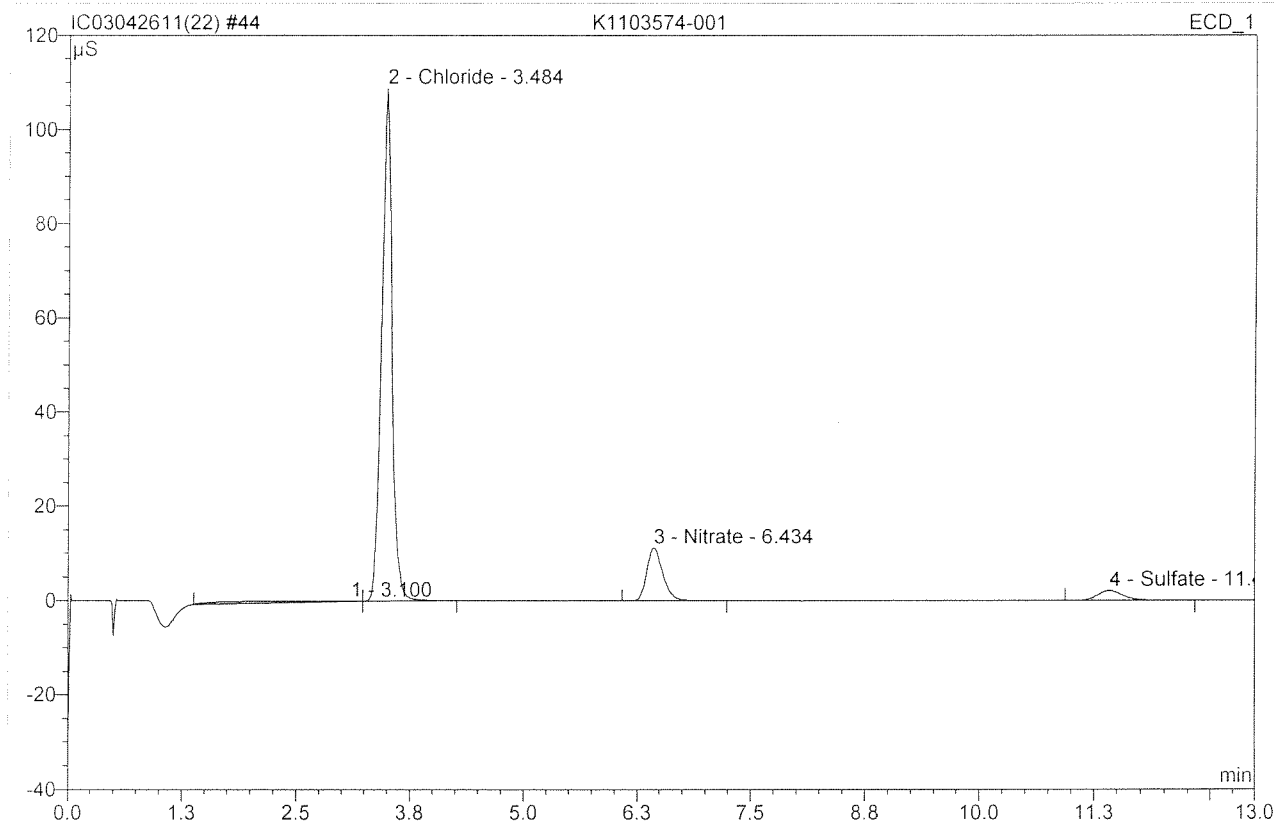
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	1.453	0.314	0.07	0.287	BMb
2	2.52	n.a.	0.113	0.027	0.01	n.a.	bMB
3	4.00	n.a.	878.820	394.870	85.25	n.a.	BMB
4	5.78	Bromide	0.247	0.059	0.01	0.199	BMB
5	6.60	Nitrate	72.767	28.541	6.16	13.770	BMb
6	7.42	n.a.	123.230	17.834	3.85	n.a.	bMB
7	10.42	n.a.	0.051	0.014	0.00	n.a.	BMB
8	11.80	Sulfate	69.069	21.552	4.65	40.149	BMB
Total:			1145.751	463.212	100.00	54.405	

Before

APR 26 2011

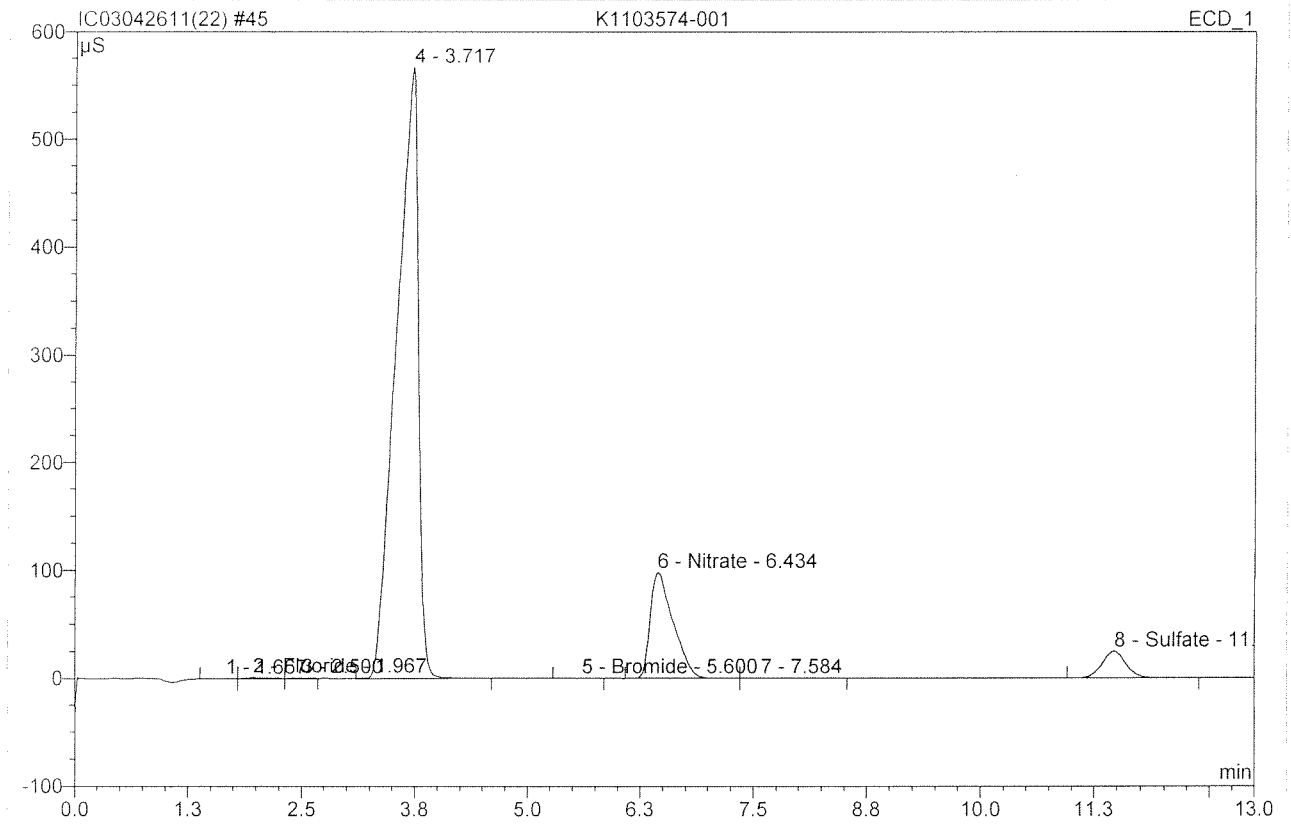
44 K1103574-001

Sample Name:	K1103574-001	Injection Volume:	200.0
Vial Number:	44	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	50.0000
Recording Time:	4/26/2011 16:50	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



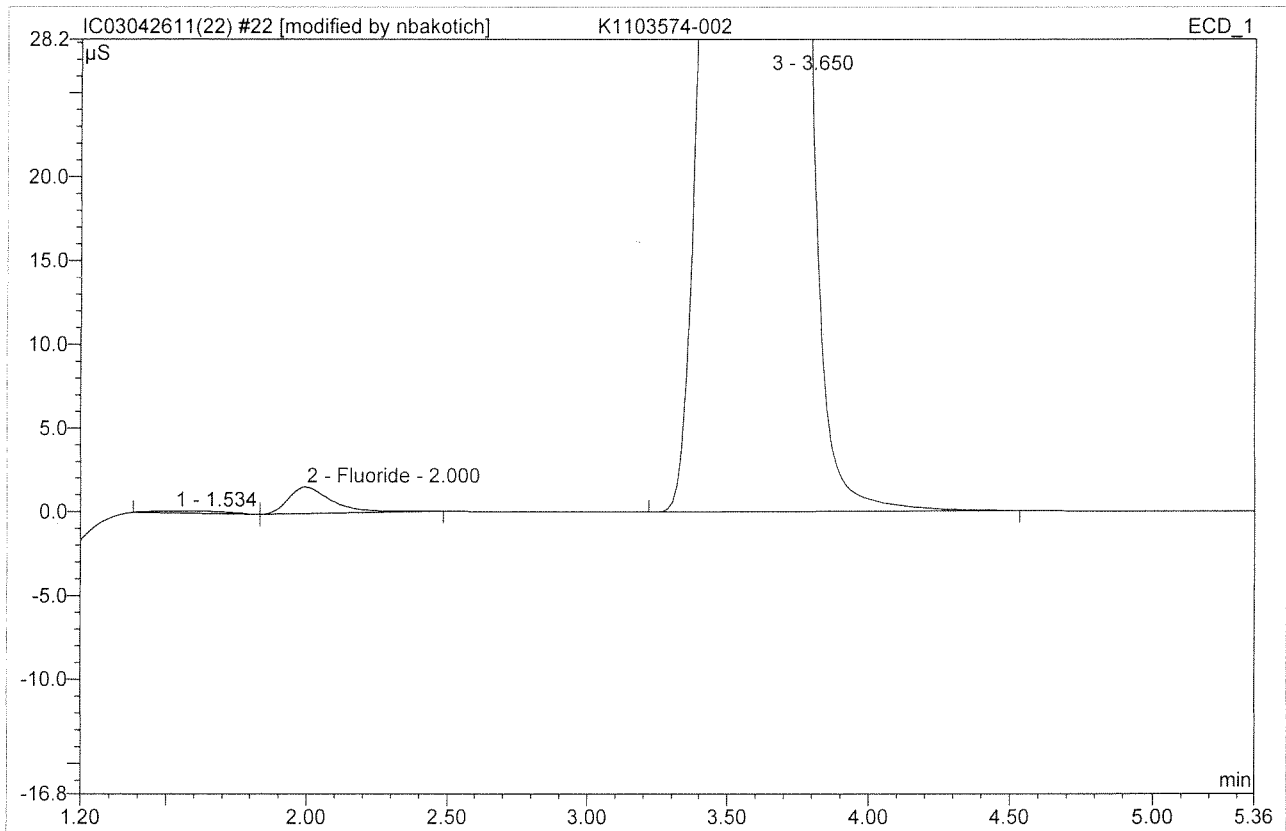
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	3.10	n.a.	0.052	0.442	2.49	n.a.	BMB
2	3.48	Chloride	108.768	14.383	80.85	425.310	bMB
3	6.43	Nitrate	11.190	2.280	12.81	27.496	BMB
4	11.42	Sulfate	2.076	0.686	3.85	31.933	BMB
Total:			122.087	17.791	100.00	484.738	

45 K1103574-001			
Sample Name:	K1103574-001	Injection Volume:	200.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/26/2011 17:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	n.a.	0.154	0.045	0.02	n.a.	BMB
2	1.97	Fluoride	0.778	0.139	0.07	0.318	bMb
3	2.50	n.a.	0.074	0.012	0.01	n.a.	bMB
4	3.72	n.a.	566.466	157.655	81.07	n.a.	BMB
5	5.60	Bromide	0.122	0.025	0.01	0.214	BMB
6	6.43	Nitrate	98.016	28.961	14.89	34.932	BMb
7	7.58	n.a.	0.140	0.082	0.04	n.a.	bMB
8	11.47	Sulfate	24.848	7.543	3.88	35.131	BMB
Total:			690.598	194.462	100.00	70.595	

22 K1103574-002			
Sample Name:	K1103574-002	Injection Volume:	200.0
Vial Number:	22	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 11:10	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.53	n.a.	0.113	0.039	0.04	n.a.	BMB
2	2.00	Fluoride	1.584	0.287	0.26	0.263	bMB*
3	3.65	n.a.	350.200	77.197	70.17	n.a.	BMB*
4	5.88	Bromide	0.122	0.021	0.02	0.070	BMB
5	6.72	Nitrate	15.357	3.080	2.80	1.486	BMB
6	7.13	n.a.	44.367	6.447	5.86	n.a.	bMB
7	11.78	Sulfate	73.028	22.940	20.85	42.733	BMB
Total:			484.770	110.012	100.00	44.552	

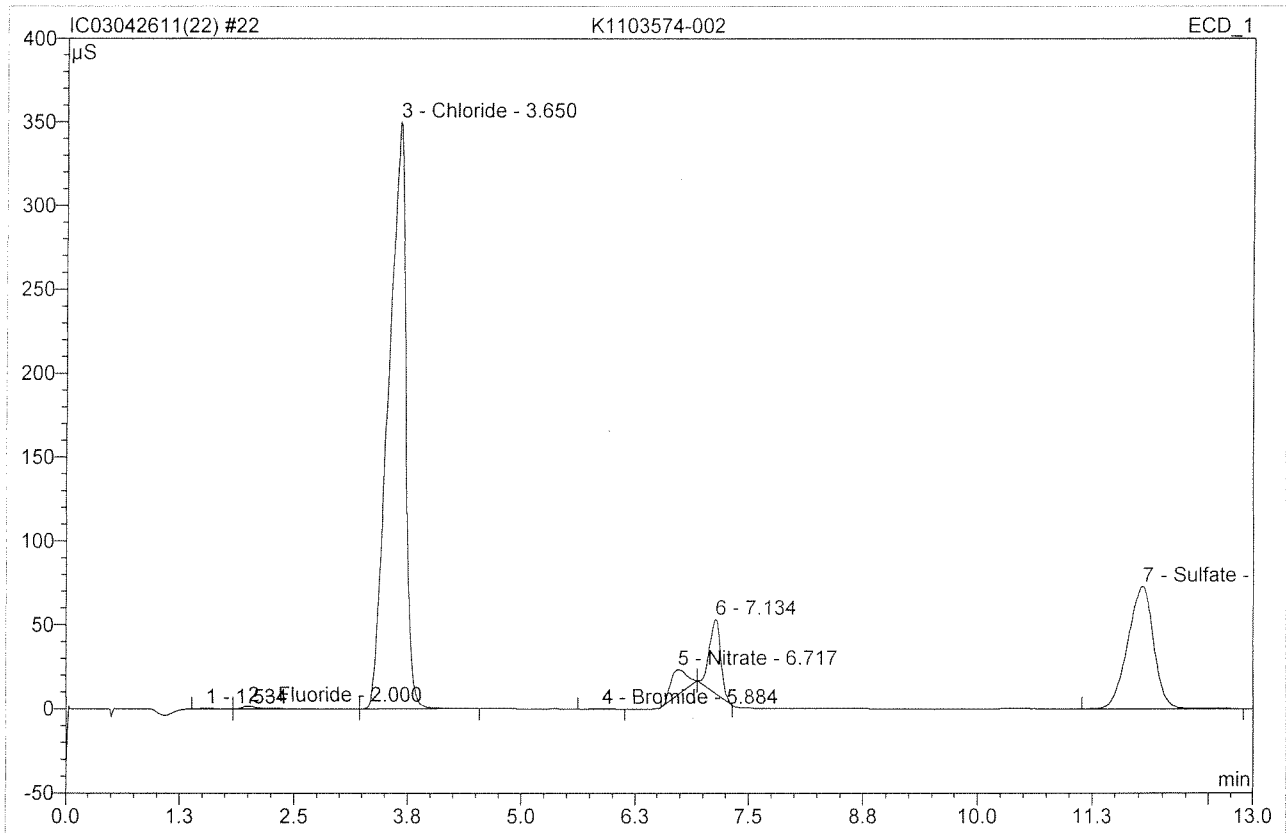
NO₂ < 0.10

Alter Initials nb

APR 26 2011

ayp/2/11

22 K1103574-002			
Sample Name:	K1103574-002	Injection Volume:	200.0
Vial Number:	22	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 11:10	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



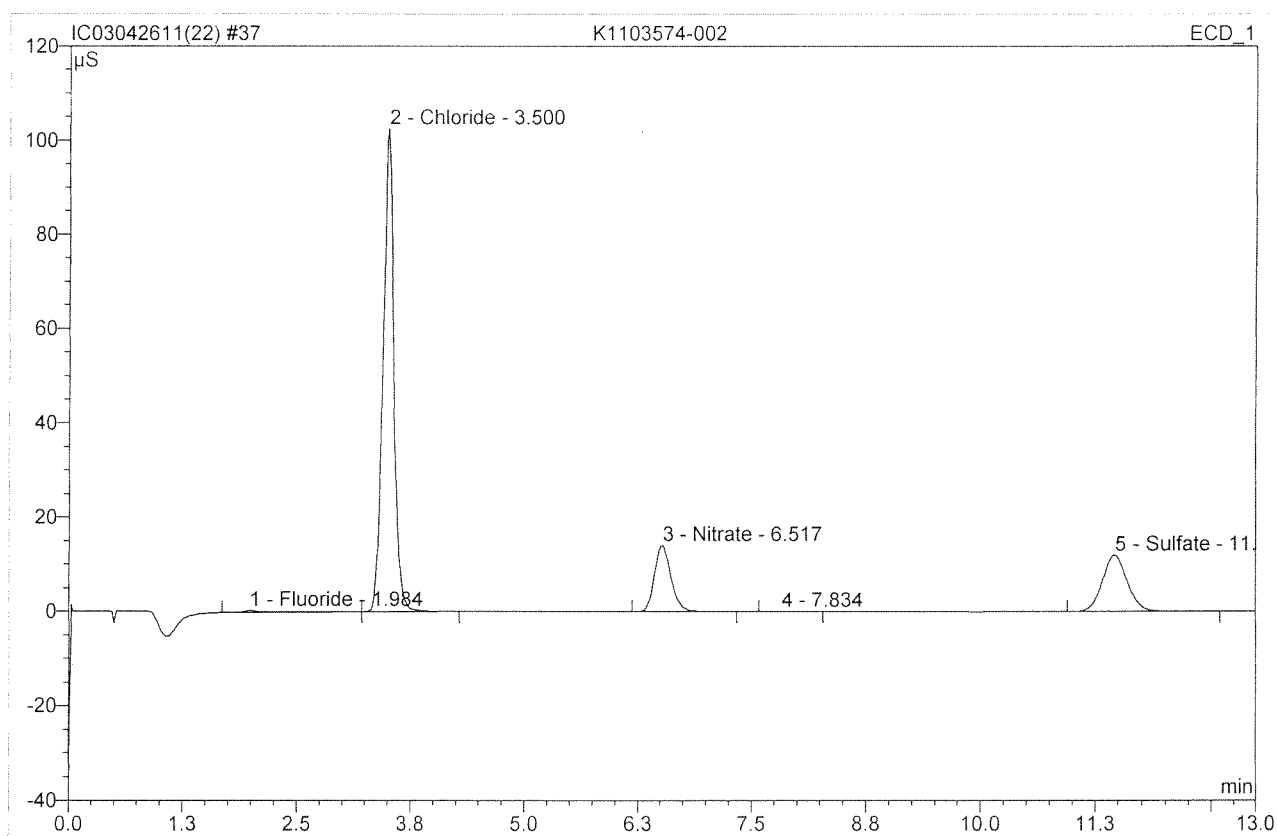
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.53	n.a.	0.113	0.039	0.04	n.a.	BMB
2	2.00	Fluoride	1.610	0.359	0.33	0.328	bMB
3	3.65	Chloride	350.200	77.197	70.13	91.307	bMB
4	5.88	Bromide	0.122	0.021	0.02	0.070	BMB
5	6.72	Nitrate	15.357	3.080	2.80	1.486	BMb
6	7.13	n.a.	44.367	6.447	5.86	n.a.	bMB
7	11.78	Sulfate	73.028	22.940	20.84	42.733	BMB
Total:			484.797	110.084	100.00	135.925	

Before

ADD 2 6 2011

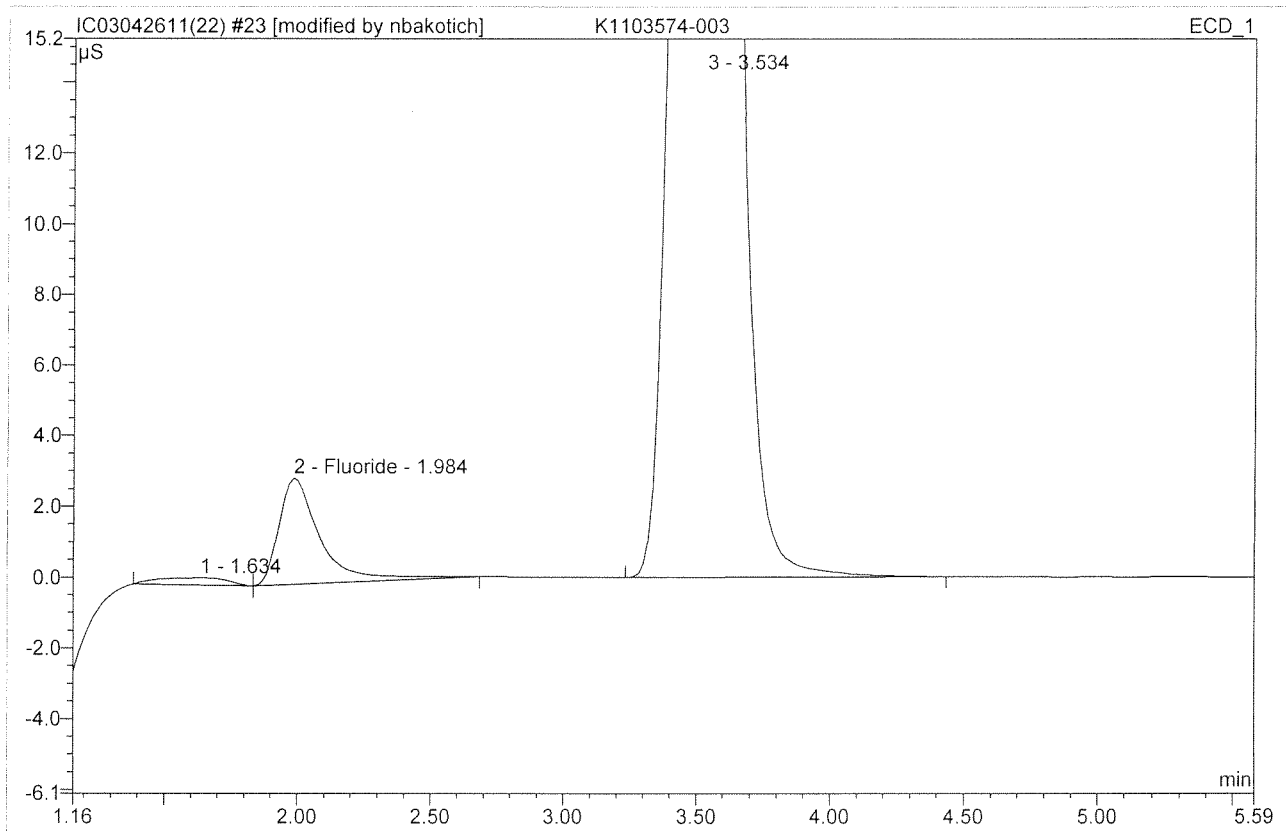
37 K1103574-002

Sample Name:	K1103574-002	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	4/26/2011 15:02	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	0.407	0.127	0.61	0.582	BMB
2	3.50	Chloride	102.489	14.120	67.26	83.506	bMB
3	6.52	Nitrate	14.076	2.951	14.06	7.119	BMB
4	7.83	n.a.	0.087	0.034	0.16	n.a.	BMB
5	11.47	Sulfate	12.019	3.761	17.92	35.036	BMB
Total:			129.079	20.994	100.00	126.242	

23 K1103574-003			
Sample Name:	K1103574-003	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 11:25	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



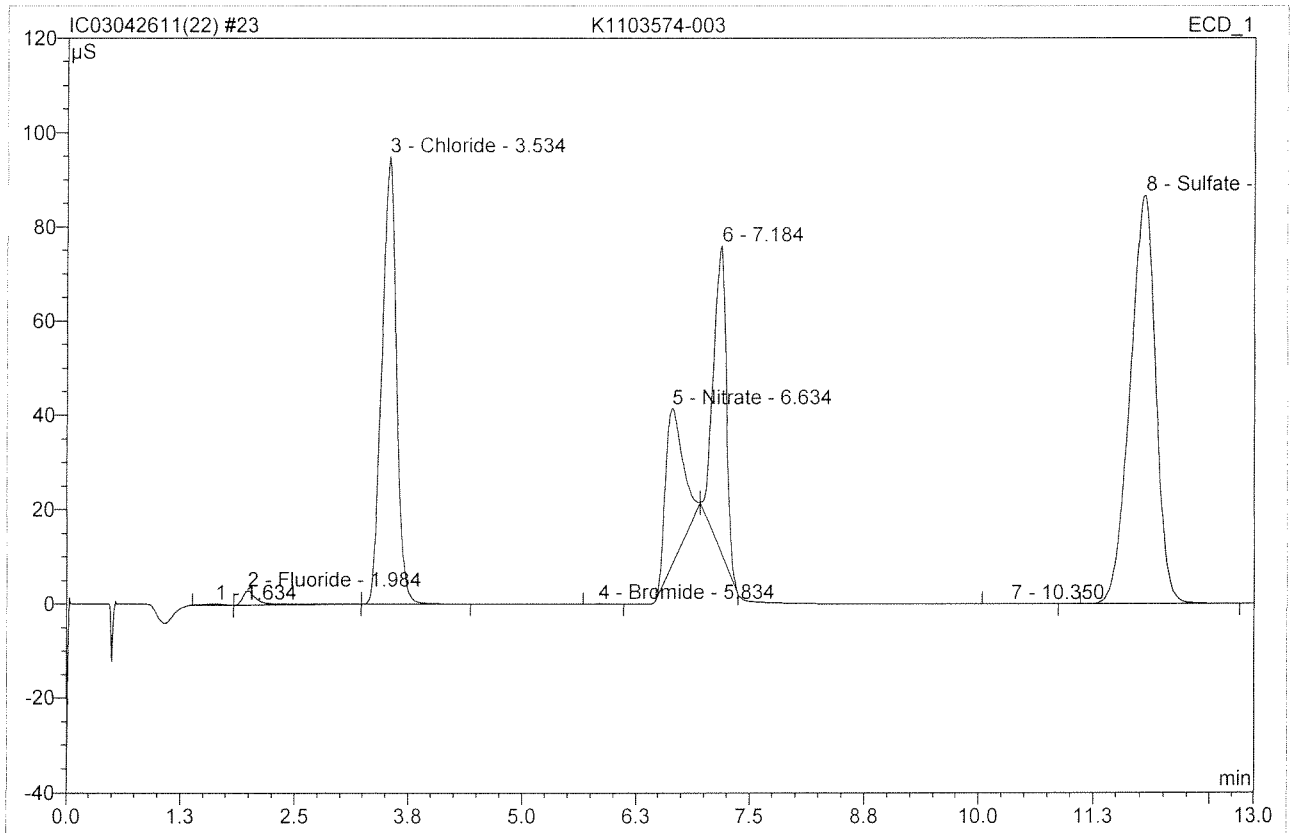
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.63	n.a.	0.203	0.060	0.10	n.a.	BMB
2	1.98	Fluoride	2.997	0.533	0.84	0.487	bMB*
3	3.53	n.a.	94.905	17.654	27.88	n.a.	BMB*
4	5.83	Bromide	0.108	0.019	0.03	0.063	BMB
5	6.63	Nitrate	33.324	7.227	11.41	3.487	BMb
6	7.18	n.a.	65.262	10.516	16.60	n.a.	bMB
7	10.35	n.a.	0.052	0.019	0.03	n.a.	BMB
8	11.80	Sulfate	86.620	27.302	43.11	50.860	BMB
Total:			283.471	63.330	100.00	54.898	

NO2 < 0.10

Area: 283.471
Initials: nb

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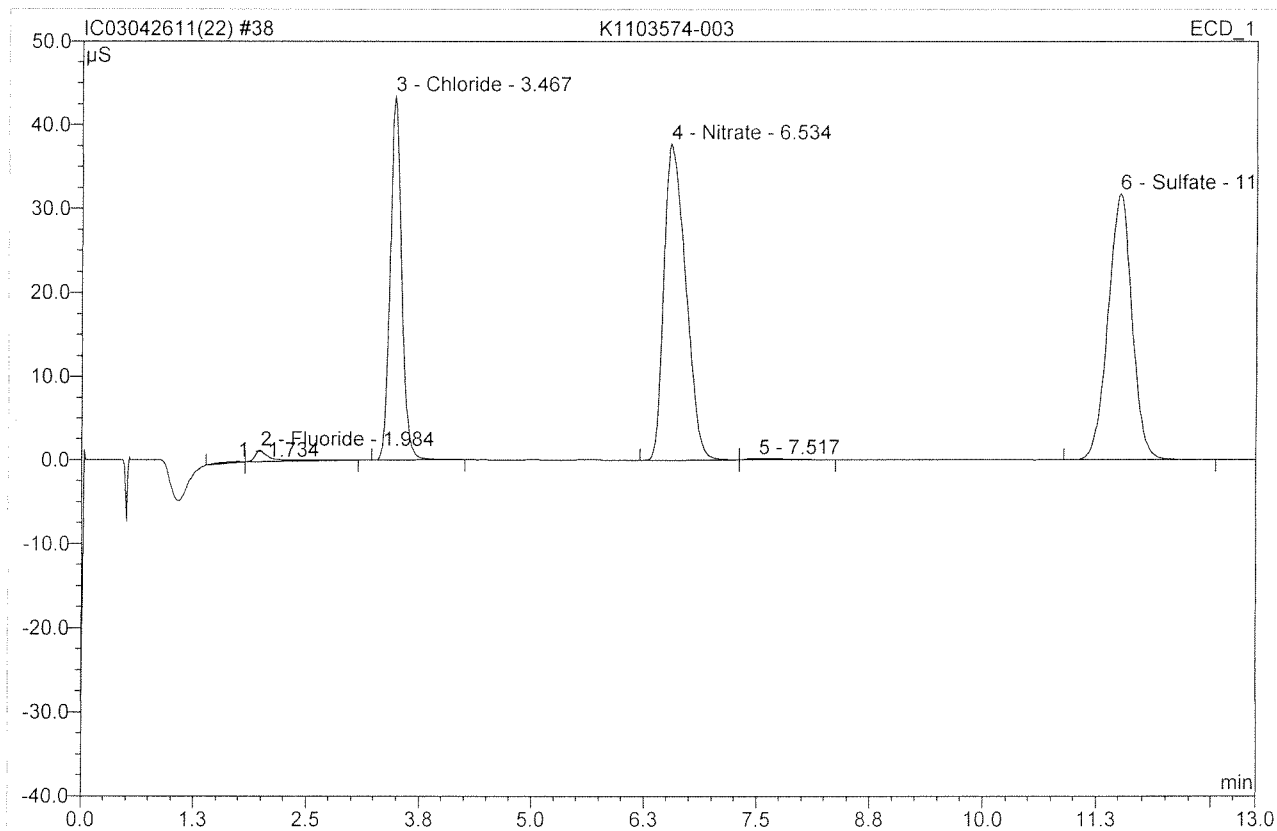
23 K1103574-003			
Sample Name:	K1103574-003	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 11:25	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.63	n.a.	0.203	0.060	0.10	n.a.	BMb
2	1.98	Fluoride	3.018	0.615	0.97	0.562	bMB
3	3.53	Chloride	94.905	17.654	27.84	20.880	bMB
4	5.83	Bromide	0.108	0.019	0.03	0.063	BMB
5	6.63	Nitrate	33.324	7.227	11.40	3.487	BMb
6	7.18	n.a.	65.262	10.516	16.58	n.a.	bMB
7	10.35	n.a.	0.052	0.019	0.03	n.a.	BMB
8	11.80	Sulfate	86.620	27.302	43.06	50.860	BMB
Total:			283.492	63.412	100.00	75.853	

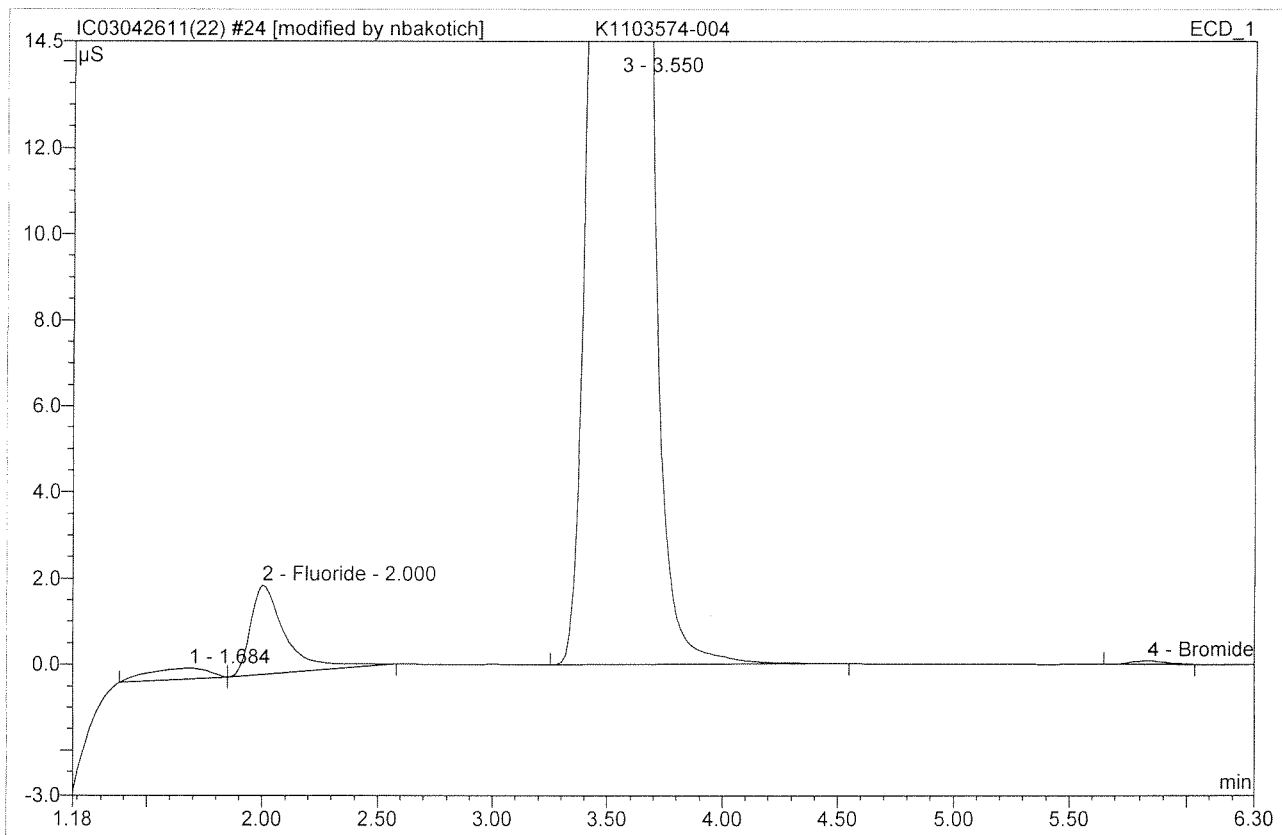
APR 26 2011

38 K1103574-003			
Sample Name:	K1103574-003	Injection Volume:	200.0
Vial Number:	38	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/26/2011 15:17	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.73	n.a.	0.114	0.050	0.18	n.a.	BMb
2	1.98	Fluoride	1.330	0.277	1.02	0.632	bMB
3	3.47	Chloride	43.479	6.376	23.55	18.854	BMB
4	6.53	Nitrate	37.723	10.591	39.12	12.774	BMb
5	7.52	n.a.	0.167	0.096	0.36	n.a.	bMB
6	11.50	Sulfate	31.779	9.683	35.77	45.095	BMB
Total:			114.591	27.073	100.00	77.355	

24 K1103574-004			
Sample Name:	K1103574-004	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 11:41	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



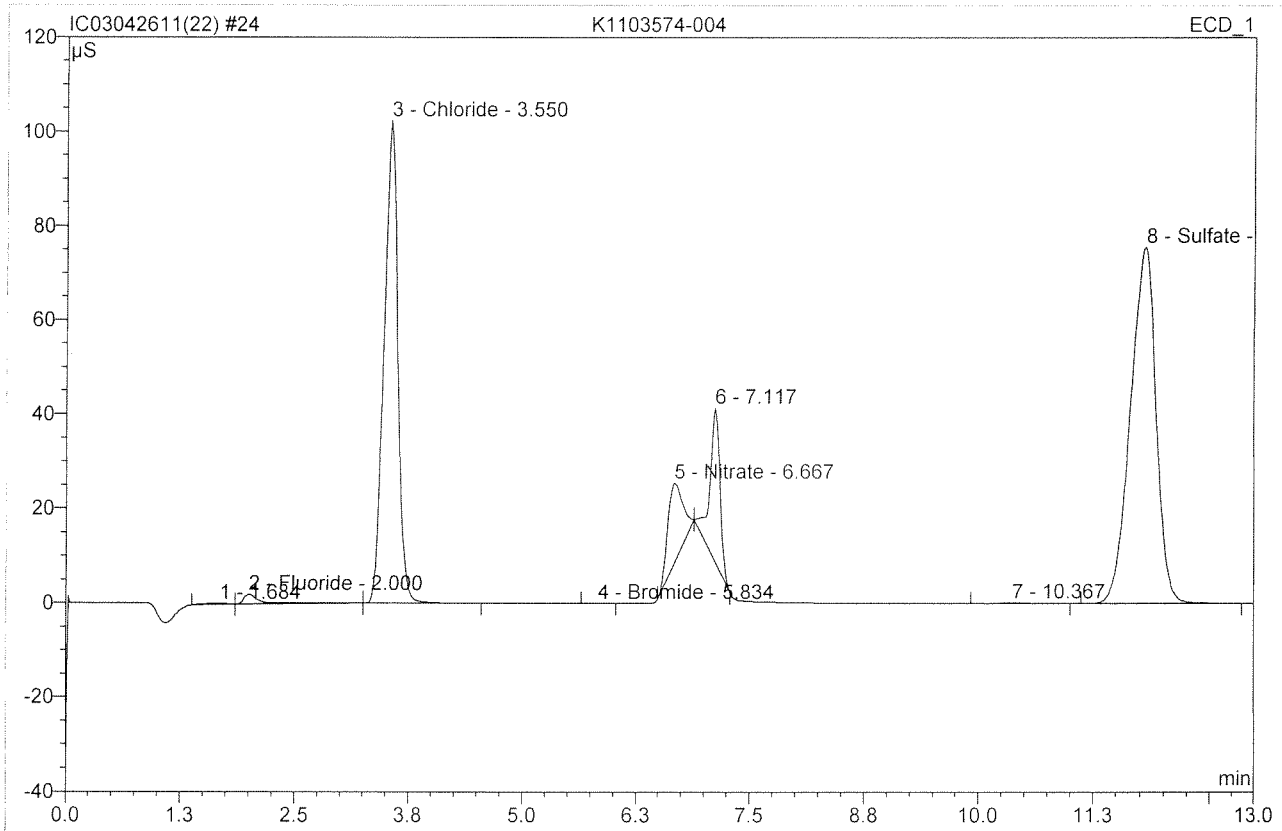
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	n.a.	0.249	0.079	0.16	n.a.	BMb
2	2.00	Fluoride	2.077	0.361	0.73	0.330	bMB*
3	3.55	n.a.	102.276	17.859	36.17	n.a.	BMB*
4	5.83	Bromide	0.078	0.013	0.03	0.042	BMB
5	6.67	Nitrate	17.064	3.169	6.42	1.529	BMb
6	7.12	n.a.	32.638	4.243	8.59	n.a.	bMB
7	10.37	n.a.	0.145	0.057	0.11	n.a.	BMB
8	11.80	Sulfate	75.555	23.601	47.79	43.965	BMB
Total:			230.083	49.381	100.00	45.867	

NO₂ CO₂

After Initials nb

[Handwritten signature]

24 K1103574-004			
Sample Name:	K1103574-004	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 11:41	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



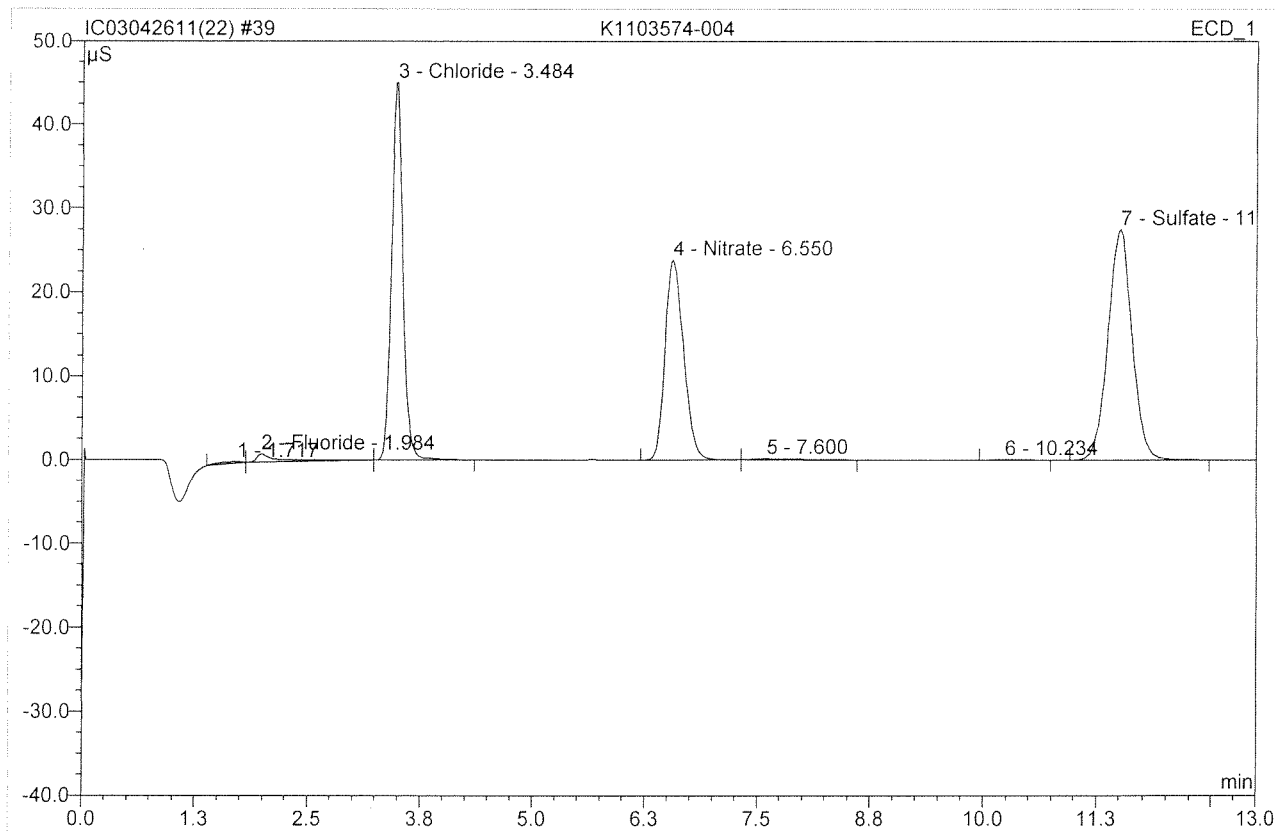
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	n.a.	0.249	0.079	0.16	n.a.	BMb
2	2.00	Fluoride	2.108	0.464	0.94	0.424	bMB
3	3.55	Chloride	102.276	17.859	36.09	21.124	bMB
4	5.83	Bromide	0.078	0.013	0.03	0.042	BMB
5	6.67	Nitrate	17.064	3.169	6.40	1.529	BMb
6	7.12	n.a.	32.638	4.243	8.57	n.a.	bMB
7	10.37	n.a.	0.145	0.057	0.11	n.a.	BMB
8	11.80	Sulfate	75.555	23.601	47.69	43.965	BMB
Total:			230.114	49.484	100.00	67.084	

Before

APR 26 2011

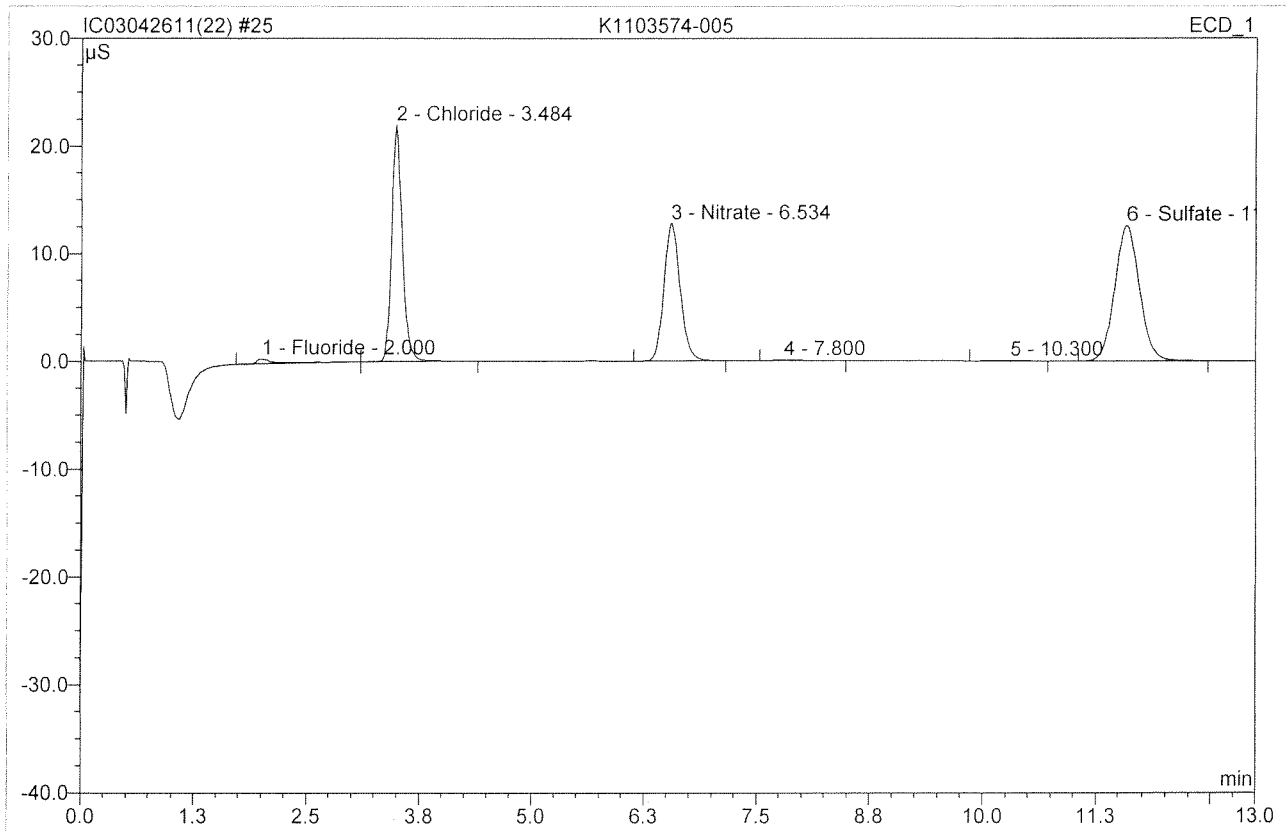
39 K1103574-004

Sample Name:	K1103574-004	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/26/2011 15:33	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	n.a.	0.140	0.057	0.27	n.a.	BMb
2	1.98	Fluoride	0.956	0.256	1.22	0.585	bMb
3	3.48	Chloride	45.060	6.530	31.02	19.309	bMB
4	6.55	Nitrate	23.832	5.748	27.31	6.933	BMb
5	7.60	n.a.	0.159	0.098	0.46	n.a.	bMB
6	10.23	n.a.	0.058	0.023	0.11	n.a.	BMB
7	11.50	Sulfate	27.461	8.337	39.61	38.826	BMB
Total:			97.666	21.049	100.00	65.653	

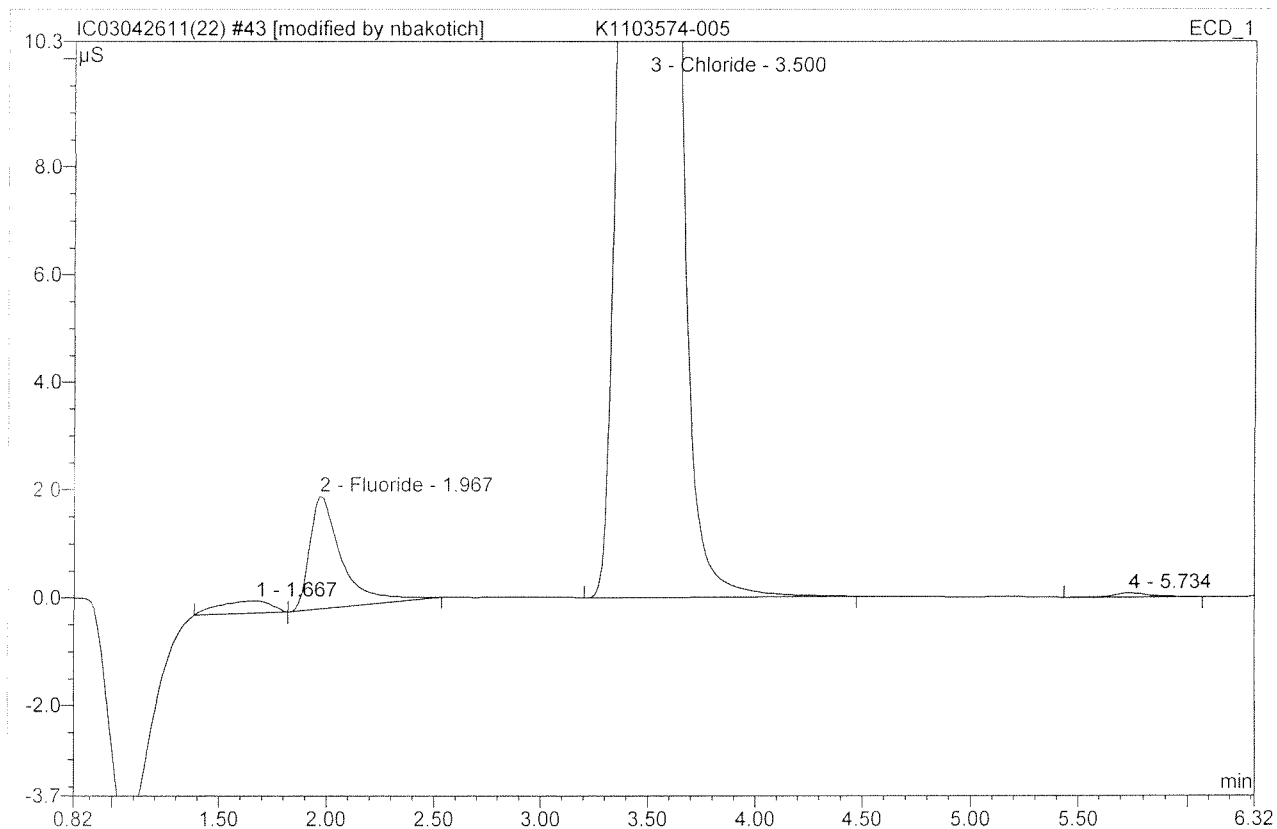
25 K1103574-005			
Sample Name:	K1103574-005	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	4/26/2011 11:56	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	0.459	0.107	1.10	0.488	BMB
2	3.48	Chloride	21.933	2.994	30.82	17.705	bMB
3	6.53	Nitrate	12.747	2.687	27.66	6.482	BMB
4	7.80	n.a.	0.077	0.038	0.39	n.a.	BMB
5	10.30	n.a.	0.042	0.017	0.17	n.a.	BMB
6	11.58	Sulfate	12.541	3.873	39.87	36.073	BMB
Total:			47.800	9.715	100.00	60.748	

NO₂ < 0.10

43 K1103574-005			
Sample Name:	K1103574-005	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 16:35	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
1	1.67	n.a.	0.228	0.066	0.14	n.a.	BMb
2	1.97	Fluoride	2.089	0.357	0.78	0.326	bMB*
3	3.50	Chloride	103.488	17.765	38.91	21.012	BMB*
4	5.73	n.a.	0.080	0.016	0.03	n.a.	BMB
5	6.57	Nitrate	18.375	3.272	7.17	1.578	BMb
6	6.87	n.a.	1.210	0.185	0.40	n.a.	bMb
7	7.05	n.a.	7.009	0.505	1.11	n.a.	bMB
8	10.23	n.a.	0.147	0.056	0.12	n.a.	BMb
9	11.57	Sulfate	75.410	23.431	51.33	43.649	bMB
Total:		<i>After Initials nb</i>	208.036	45.651	100.00	66.566	

NO2 20110

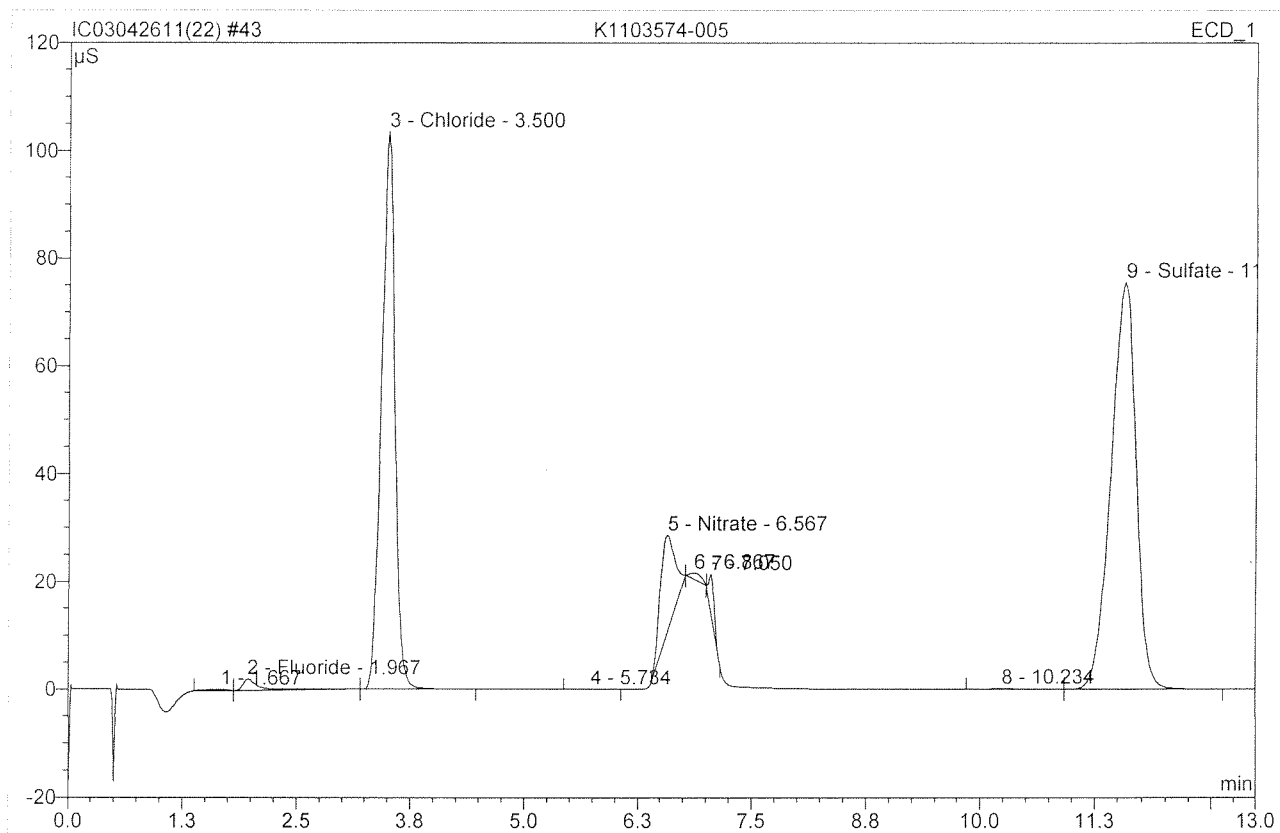
APR 27 2011

amb

default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect 225
 Other 20110

43 K1103574-005			
Sample Name:	K1103574-005	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 16:35	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000

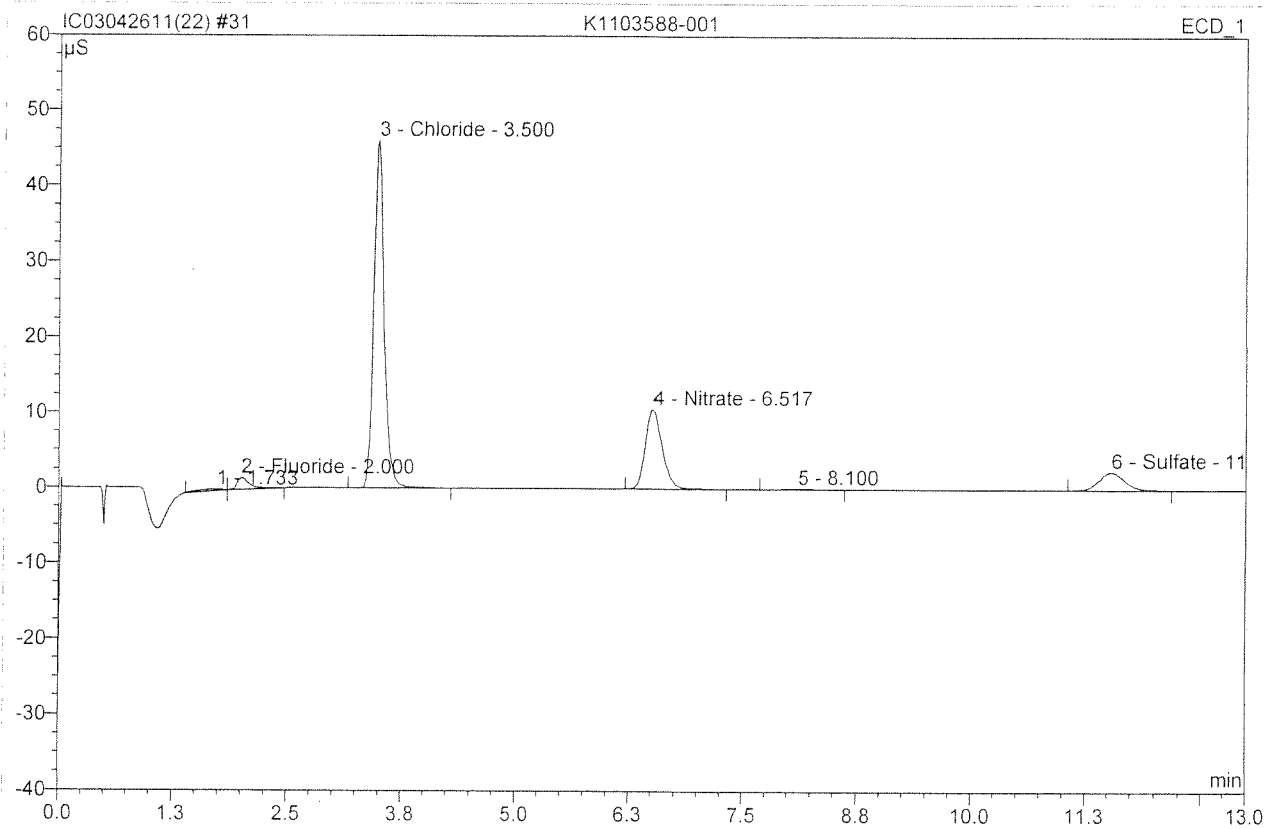


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.67	n.a.	0.228	0.066	0.14	n.a.	BMb
2	1.97	Fluoride	2.119	0.455	0.99	0.416	bMB
3	3.50	Chloride	103.488	17.765	38.83	21.012	bMB
4	5.73	n.a.	0.080	0.016	0.03	n.a.	BMB
5	6.57	Nitrate	18.375	3.272	7.15	1.578	BMb
6	6.87	n.a.	1.210	0.185	0.40	n.a.	bMb
7	7.05	n.a.	7.009	0.505	1.10	n.a.	bMB
8	10.23	n.a.	0.147	0.056	0.12	n.a.	BMb
9	11.57	Sulfate	75.410	23.431	51.22	43.649	bMB
Total:			208.066	45.750	100.00	66.655	

Before

31 K1103588-001

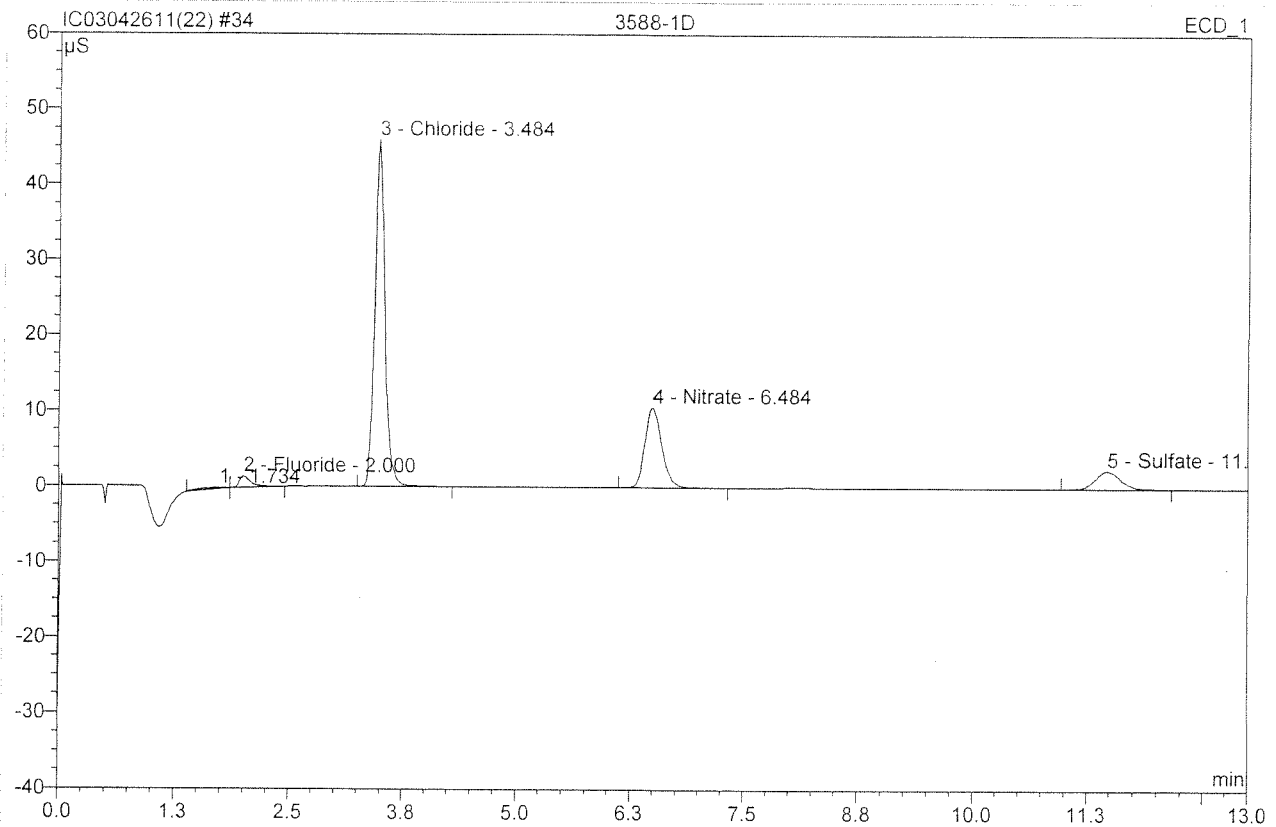
Sample Name:	K1103588-001	Injection Volume:	200.0
Vial Number:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 13:29	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.73	n.a.	0.163	0.065	0.70	n.a.	BMB
2	2.00	Fluoride <i>← 0.209 RPD</i>	1.551	0.229	2.46	0.209	bMB
3	3.50	Chloride <i>← 7.111 RPD</i>	46.059	6.012	64.70	7.111	BMB
4	6.52	Nitrate <i>← 1.058 RPD</i>	10.603	2.193	23.60	1.058	BMB
5	8.10	n.a.	0.045	0.019	0.20	n.a.	BMB
6	11.53	Sulfate <i>← 1.442 RPD</i>	2.391	0.774	8.33	1.442	BMB
Total:			60.812	9.291	100.00	9.820	

NO₂ 0.010 ← 0.010 RPD

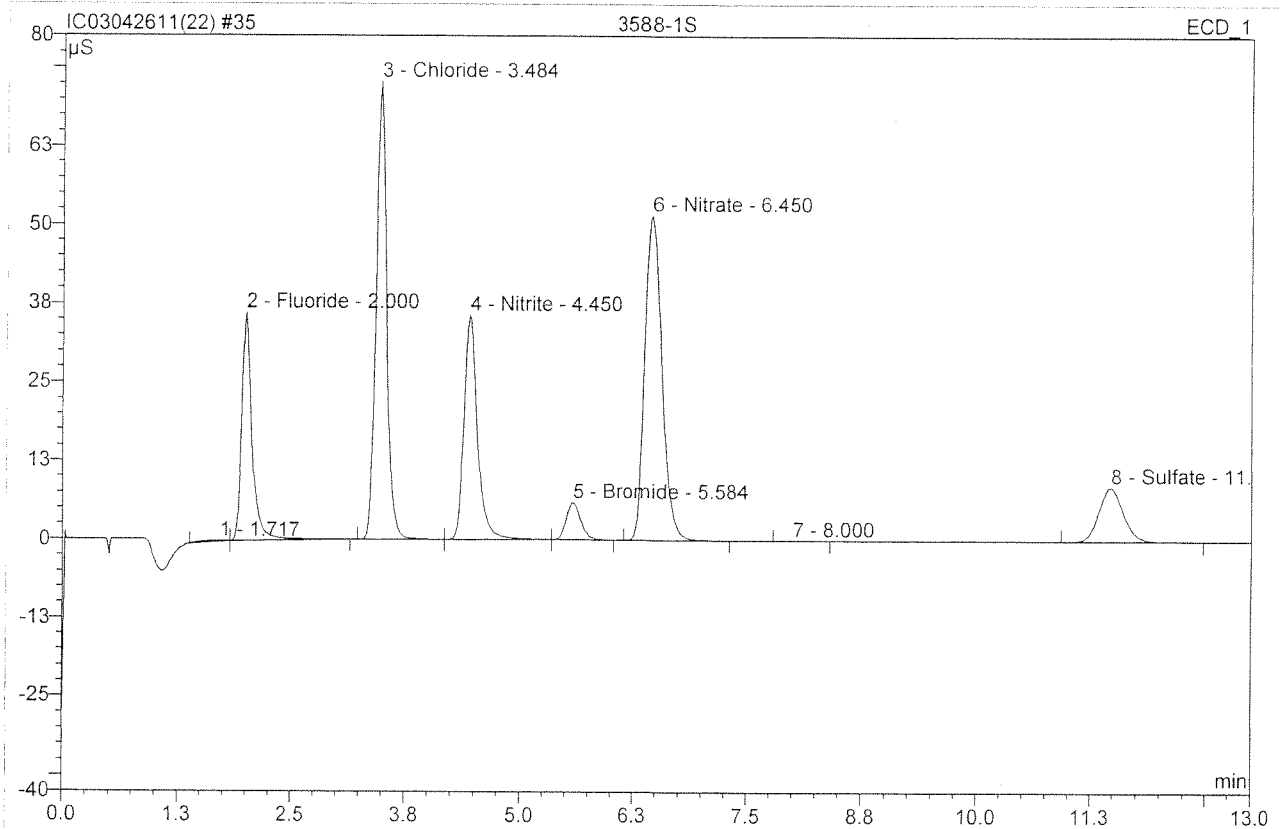
34 3588-1D			
D			
Sample Name:	3588-1D	Injection Volume:	200.0
Vial Number:	34	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 14:15	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.73	n.a.	0.165	0.073	0.79	n.a.	BMB
2	2.00	Fluoride	1.546	0.228	2.47	0.208	bMB
3	3.48	Chloride	45.935	5.975	64.72	7.067	BMB
4	6.48	Nitrate	10.574	2.188	23.70	1.056	BMB
5	11.47	Sulfate	2.381	0.769	8.32	1.432	BMB
Total:			60.601	9.232	100.00	9.762	

NO₂ < 0.00

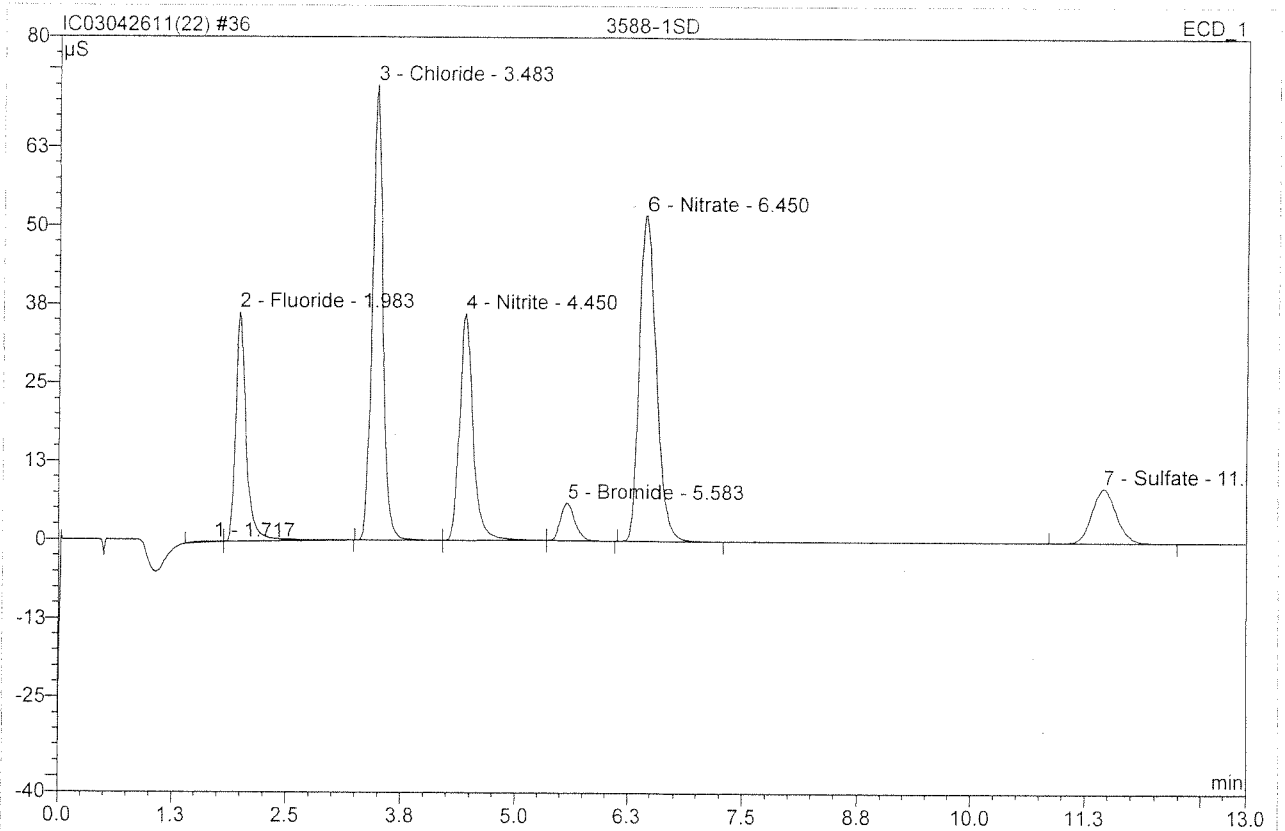
35 3588-1S			
MS			
Sample Name:	3588-1S	Injection Volume:	200.0
Vial Number:	35	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 14:31	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	n.a.	0.153	0.060	0.17	n.a.	BMB
2	2.00	Fluoride <i>REC-104</i>	36.177	4.761	13.58	4.351	bMB
3	3.48	Chloride <i>REC-110</i>	72.821	9.707	27.68	11.481	BMB
4	4.45	Nitrite <i>REC-97</i>	35.616	6.070	17.31	3.876	bMb
5	5.58	Bromide <i>REC-93</i>	5.938	1.095	3.12	3.705	bMB
6	6.45	Nitrate <i>REC-102</i>	51.616	10.653	30.38	5.140	BMB
7	8.00	n.a.	0.043	0.015	0.04	n.a.	BMB
8	11.47	Sulfate <i>REC-90</i>	8.642	2.709	7.73	5.047	BMB
Total:			211.006	35.071	100.00	33.600	

SP-101
41

36 3588-1SD			
MSD			
Sample Name:	3588-1SD	Injection Volume:	200.0
Vial Number:	36	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 14:46	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



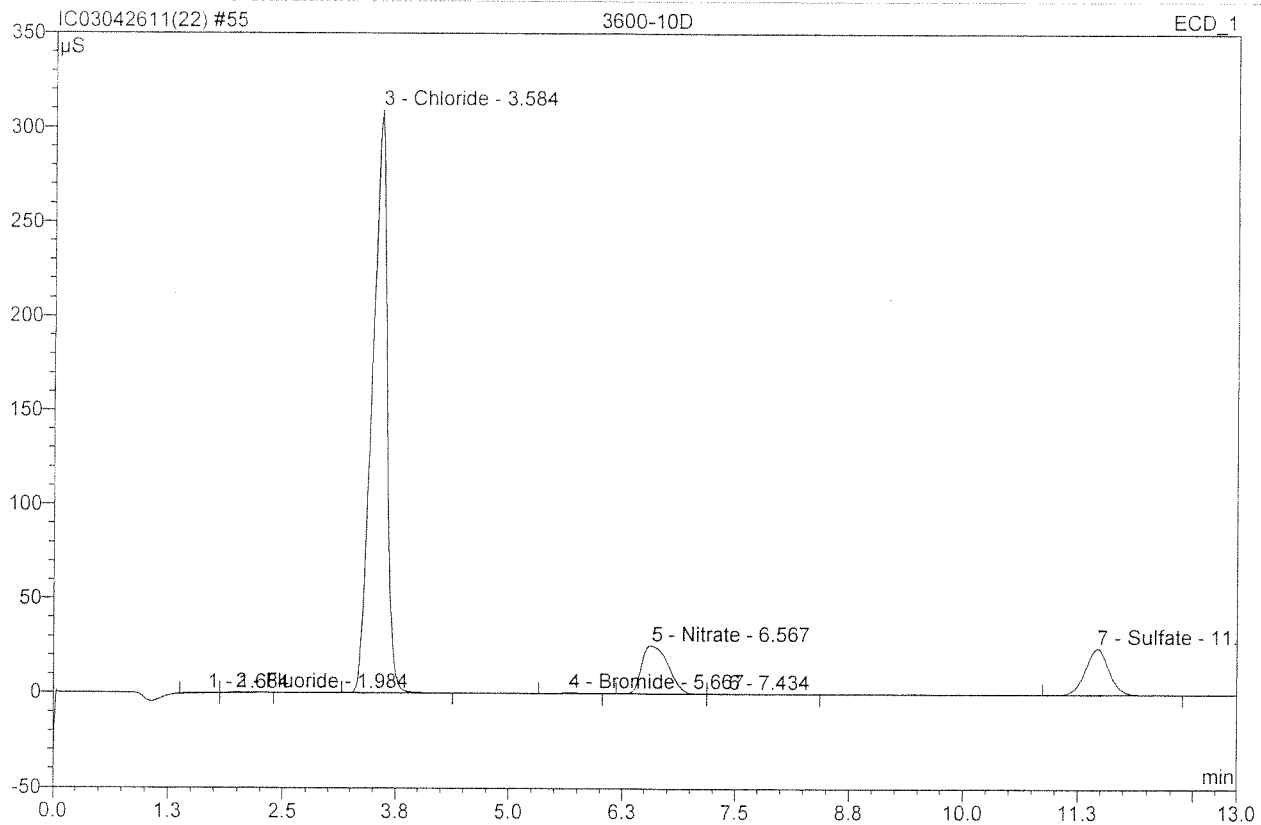
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	n.a.	0.124	0.046	0.13	n.a.	BMb
2	1.98	Fluoride <i>REC-106</i>	36.464	4.855	13.72	4.436	bMB
3	3.48	Chloride <i>REC-110</i>	72.481	9.721	27.46	11.498	BMb
4	4.45	Nitrite <i>REC-98</i>	36.089	6.154	17.38	3.929	bMB
5	5.58	Bromide <i>REC-94</i>	5.991	1.109	3.13	3.752	bMB
6	6.45	Nitrate <i>REC-114</i>	51.860	10.782	30.46	5.202	BMB
7	11.45	Sulfate <i>REC-91</i>	8.708	2.730	7.71	5.086	BMB
Total:			211.717	35.398	100.00	33.904	

*SPT W1
4*

55 3600-10D

D

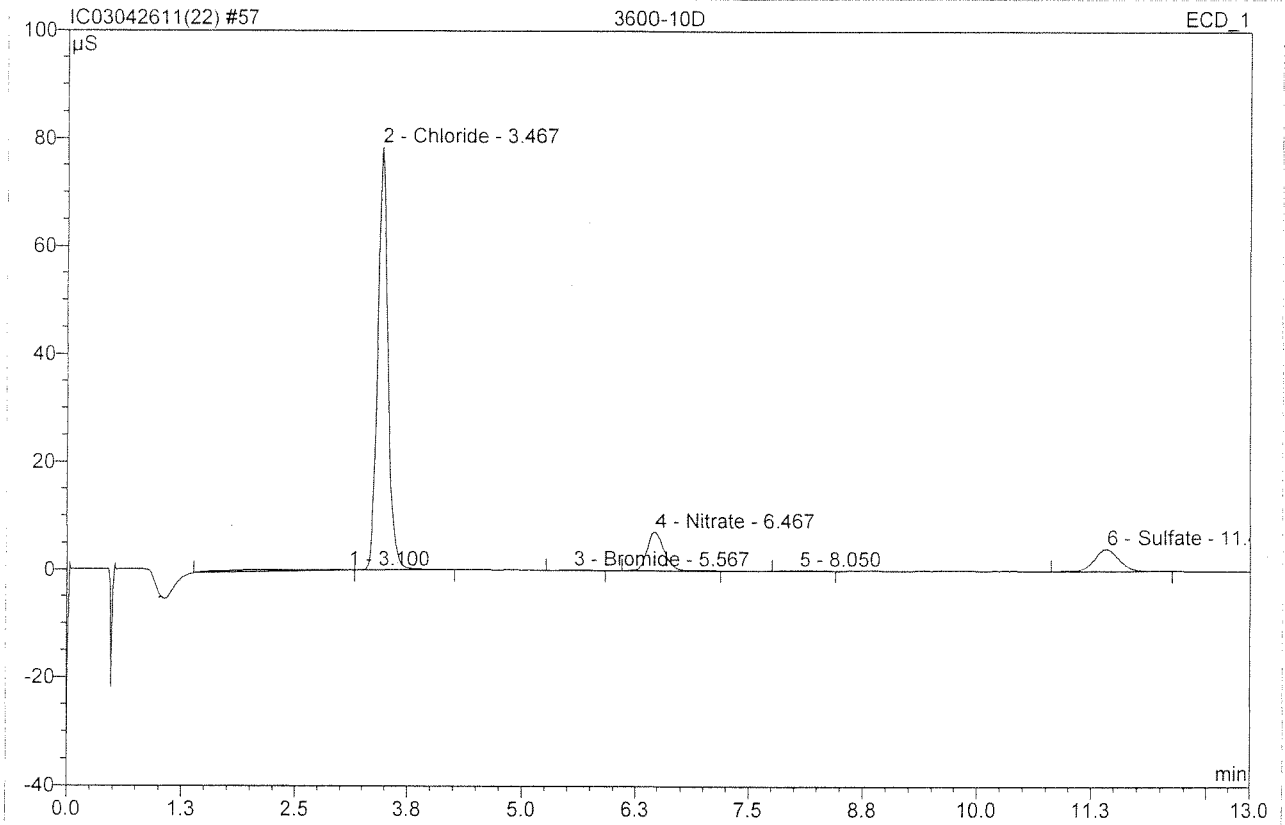
Sample Name:	3600-10D	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 19:40	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.68	n.a.	0.145	0.055	0.07	n.a.	BMB
2	1.98	Fluoride	0.380	0.075	0.10	0.068	bMB
3	3.58	Chloride	309.498	58.012	77.94	68.615	BMB
4	5.67	Bromide	0.505	0.098	0.13	0.331	BMB
5	6.57	Nitrate	25.772	8.541	11.48	4.121	BMb
6	7.43	n.a.	0.176	0.110	0.15	n.a.	bMB
7	11.47	Sulfate	24.672	7.536	10.13	14.039	BMB
Total:			361.148	74.427	100.00	87.174	

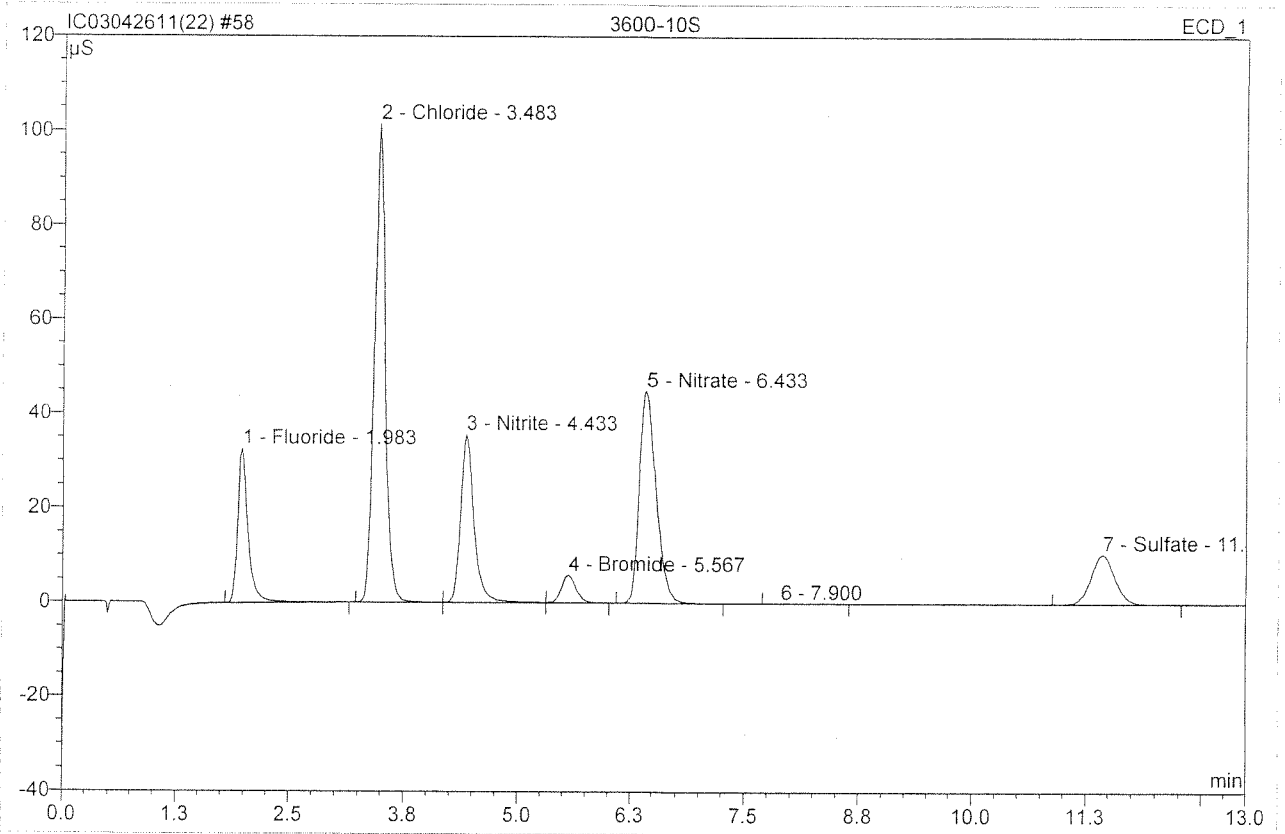
NO₂ 3600-10

57 3600-10D			
D			
Sample Name:	3600-10D	Injection Volume:	200.0
Vial Number:	57	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	4/26/2011 20:11	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.10	n.a.	0.025	0.381	2.82	n.a.	BMB
2	3.47	Chloride	78.380	10.313	76.18	60.992	bMB
3	5.57	Bromide	0.105	0.022	0.16	0.371	BMB
4	6.47	Nitrate	7.134	1.491	11.01	3.597	BMB
5	8.05	n.a.	0.038	0.015	0.11	n.a.	BMB
6	11.42	Sulfate	4.115	1.315	9.71	12.244	BMB
Total:			89.796	13.538	100.00	77.204	

58 3600-10S			
MS			
Sample Name:	3600-10S	Injection Volume:	200.0
Vial Number:	58	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	4/26/2011 20:27	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



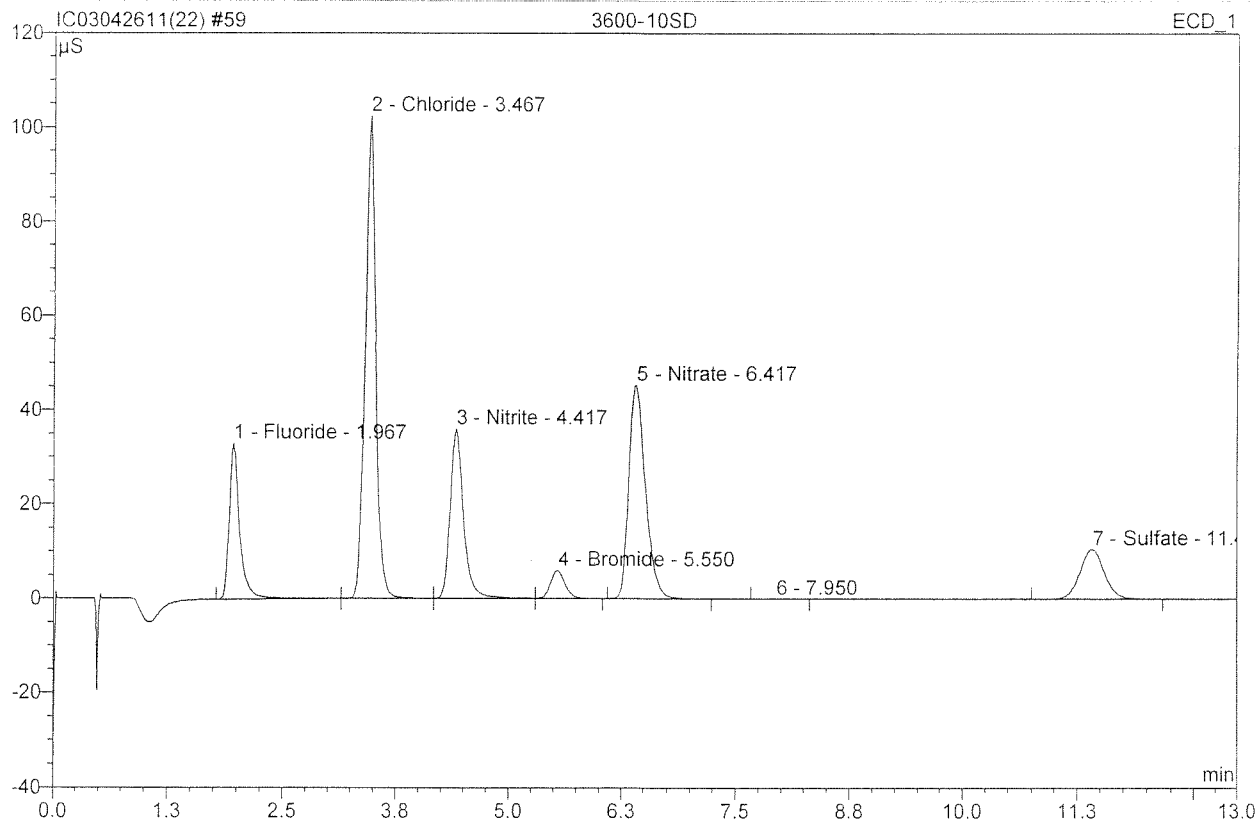
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride <i>REC-101</i>	32.642	4.402	11.54	20.114	BMB
2	3.48	Chloride <i>REC-107</i>	101.472	13.854	36.31	81.932	BMB
3	4.43	Nitrite <i>REC-98</i>	35.628	6.134	16.07	19.582	bMB
4	5.57	Bromide <i>REC-91</i>	5.865	1.099	2.88	18.595	bMB
5	6.43	Nitrate <i>REC-95</i>	44.918	9.369	24.55	22.600	BMB
6	7.90	n.a.	0.056	0.024	0.06	n.a.	BMB
7	11.43	Sulfate <i>REC-83</i>	10.545	3.277	8.59	30.520	BMB
Total:			231.127	38.159	100.00	193.344	

*spl 101
20*

59 3600-10SD

MSD

Sample Name:	3600-10SD	Injection Volume:	200.0
Vial Number:	59	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	4/26/2011 20:42	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.97	Fluoride <i>REL 197</i>	33.011	4.422	11.50	20.204	BMB
2	3.47	Chloride <i>REL 347</i>	102.440	13.967	36.31	82.599	bMb
3	4.42	Nitrite <i>REL 442</i>	36.003	6.202	16.12	19.799	bMb
4	5.55	Bromide <i>REL 555</i>	5.923	1.115	2.90	18.856	bMB
5	6.42	Nitrate <i>REL 642</i>	45.364	9.444	24.55	22.782	BMB
6	7.95	n.a.	0.041	0.013	0.03	n.a.	BMB
7	11.42	Sulfate <i>REL 1142</i>	10.612	3.305	8.59	30.782	BMB
Total:			233.393	38.468	100.00	195.022	

*spt 1/1
20*

Sequence # 1003042611(72)

Ion Chromatography Data Quality Report
Inorganics

Run # 243741

- 1. Holding times met for all samples analyzed? yes/no/NA
- 2. Are dilutions within upper limits of the curve? yes/no/NA
- 3. Are analysis/extraction stickers included on report? yes/no/NA
- 4. Are detection limits reported correctly? yes/no/NA
- 5. Are all quality control criteria met?
 - a. Method Blanks, CCV's, CCB's, LCS's, Dups, and Spikes analyzed at the proper frequency? yes/no/NA
 - b. Are CCV's and CCB's all within acceptance limits? yes/no/NA
 - c. Are results for Method Blanks all ND? yes/no/NA
 - d. Are all QC samples within acceptance criteria? (LCS% rec, MS% rec, Duplicate RPD's, etc.) yes/no/NA
 - e. Are all exceptions explained? yes/no/NA

6. Are all samples labelled correctly? yes/no/NA *3574 samples filtered prior to analysis*

CAS Standard Identification Codes and Abbreviated Footnotes for Chromatograms

- G1 Sample was analyzed past the end of recommended holding time. See Nonconformity sheet.
- G2 Sample was reanalyzed past holding time. Initial analysis was performed within recommended holding time.
- G4 Sample was received past the end of recommended holding time.
- R1 High RPD is because the duplicate sample results are less than three times the method reporting limit.
- i MRL is elevated because of matrix interferences and the sample required diluting.
- F Sample filtered primary to analysis.

LCS

Fluoride	True Value = 11.0 ppm	CAS ID # = <u>AN1-34-K</u>	Expires: <u>9.3.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0121-11-01</u>	Expires: <u>7.25.11</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN11-25-FF</u>	Expires: <u>4.26.11</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>6.9.11</u>
Nitrate	True Value = 15.2 ppm	CAS ID # = <u>AN1-34-F</u>	Expires: <u>7.26.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0121-11-01</u>	Expires: <u>7.25.11</u>

CCV

Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>8.7.11 4.28.11</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-34-H</u>	Expires: <u>4.28.11 8.7.11</u>
Nitrite	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>4.28.11</u>
Bromide	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-34-E</u>	Expires: <u>6.22.11</u>
Nitrate	True Value = 2.5 ppm	10K CAS ID # = <u>AN1-34-L</u>	Expires: <u>10.18.11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-34-I</u>	Expires: <u>8.7.11</u>

Spike

2.0ppm X dilution factor	CAS ID # = <u>AN11-78-2</u>	Expires: <u>4.26.11</u>
Fluoride	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>5 CCV</u>
Chloride	10K CAS ID # = <u>AN1-34-H</u>	Expires: <u>✓</u>
Nitrite	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>✓</u>
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>✓</u>
Nitrate	10K CAS ID # = <u>AN1-34-L</u>	Expires: <u>✓</u>
Sulfate	10K CAS ID # = <u>AN1-34-I</u>	Expires: <u>✓</u>

Analyst: MB Date: 4.26.11

First Review: J Date: 4.26.11

Final Review: u Date: 4/29/11

Analytical Results Summary

Instrument Name: K-JC-03

Analyst: NBAKOTICH

Analysis Lot: 243741

Method/Testcode: 300.0/Chloride

Up Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
103569-001	Chloride	N/A		Water	6.53 mg/L	5 mL	6.5 mg/L	2	0.06	2.0			4/26/11 09:22:00	N	V
103569-001	Nitrate as Nitrogen	N/A		Water	0.51 mg/L	5 mL	0.51 mg/L	2	0.008	0.10			4/26/11 09:22:00	N	V
103569-001	Sulfate	N/A		Water	110.74 mg/L	5 mL	111 mg/L	20	0.2	2.0			4/26/11 12:12:00	N	V
103570-001	Chloride	N/A		Water	8.33 mg/L	5 mL	8.3 mg/L	2	0.06	2.0			4/26/11 10:39:00	N	V
103570-001	Nitrate as Nitrogen	N/A		Water	0.60 mg/L	5 mL	0.60 mg/L	2	0.008	0.10			4/26/11 10:39:00	N	V
103570-001	Sulfate	N/A		Water	34.88 mg/L	5 mL	34.9 mg/L	5	0.05	0.50			4/26/11 12:27:00	N	V
103574-001	Chloride	N/A		Water	425.31 mg/L	5 mL	425 mg/L	50	2	10			4/26/11 16:50:00	N	IV
103574-001	Fluoride	N/A		Water	0.29 mg/L	5 mL	0.29 mg/L	1	0.006	0.40			4/26/11 10:54:00	N	IV
103574-001	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	1	0.004	0.10			4/26/11 10:54:00	N	IV
103574-001	Sulfate	N/A		Water	35.13 mg/L	5 mL	35.1 mg/L	5	0.05	1.0			4/26/11 17:06:00	N	IV
103574-002	Chloride	N/A		Water	83.51 mg/L	5 mL	83.5 mg/L	10	0.3	2.0			4/26/11 15:02:00	N	IV
103574-002	Fluoride	N/A		Water	0.26 mg/L	5 mL	0.26 mg/L	1	0.006	0.40			4/26/11 11:10:00	N	IV
103574-002	Nitrate as Nitrogen	N/A		Water	7.12 mg/L	5 mL	7.12 mg/L	10	0.04	0.50			4/26/11 15:02:00	N	IV
103574-002	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			4/26/11 11:10:00	N	IV
103574-002	Sulfate	N/A		Water	35.04 mg/L	5 mL	35.0 mg/L	10	0.1	2.0			4/26/11 15:02:00	N	IV
103574-003	Chloride	N/A		Water	18.85 mg/L	5 mL	18.9 mg/L	5	0.2	1.0			4/26/11 15:17:00	N	IV
103574-003	Fluoride	N/A		Water	0.49 mg/L	5 mL	0.49 mg/L	2	0.006	0.40			4/26/11 11:25:00	N	IV
103574-003	Nitrate as Nitrogen	N/A		Water	12.77 mg/L	5 mL	12.8 mg/L	5	0.02	0.25			4/26/11 15:17:00	N	IV
103574-003	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			4/26/11 11:25:00	N	IV
103574-003	Sulfate	N/A		Water	45.09 mg/L	5 mL	45.1 mg/L	5	0.05	1.0			4/26/11 15:17:00	N	IV
103574-004	Chloride	N/A		Water	19.31 mg/L	5 mL	19.3 mg/L	5	0.2	1.0			4/26/11 15:33:00	N	IV
103574-004	Fluoride	N/A		Water	0.33 mg/L	5 mL	0.33 mg/L	1	0.006	0.40			4/26/11 11:41:00	N	IV
103574-004	Nitrate as Nitrogen	N/A		Water	6.93 mg/L	5 mL	6.93 mg/L	5	0.02	0.25			4/26/11 15:33:00	N	IV
103574-004	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			4/26/11 11:41:00	N	IV
103574-004	Sulfate	N/A		Water	38.83 mg/L	5 mL	38.8 mg/L	5	0.05	1.0			4/26/11 15:33:00	N	IV
103574-005	Chloride	N/A		Water	0.00 mg/L	5 mL	2.0 mg/L	10	0.3	2.0			4/26/11 11:56:00	N	IV
103574-005	Fluoride	N/A		Water	0.33 mg/L	5 mL	0.33 mg/L	1	0.006	0.40			4/26/11 16:35:00	N	IV
103574-005	Nitrate as Nitrogen	N/A		Water	6.48 mg/L	5 mL	6.48 mg/L	10	0.04	0.50			4/26/11 11:56:00	N	IV
103574-005	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			4/26/11 16:35:00	N	IV
103574-005	Sulfate	N/A		Water	36.07 mg/L	5 mL	36.1 mg/L	10	0.1	2.0			4/26/11 11:56:00	N	IV
103588-001	Chloride	N/A		Drinking Water	7.11 mg/L	5 mL	7.11 mg/L	2	0.06	0.40			4/26/11 13:29:00	N	I
103588-001	Fluoride	N/A		Drinking Water	0.21 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			4/26/11 13:29:00	N	I
103588-001	Nitrate as Nitrogen	N/A		Drinking Water	1.06 mg/L	5 mL	1.06 mg/L	2	0.008	0.10			4/26/11 13:29:00	N	I

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: NBAKOTICH

Analysis Lot:

243741

Method/Testcode: 300.0/NO2

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
1103588-001	Nitrite as Nitrogen	N/A		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/26/11 13:29:00	N	I
1103588-001	Sulfate	N/A		Drinking Water	1.44 mg/L	5 mL	1.44 mg/L	2	0.02	0.40			4/26/11 13:29:00	N	I
1103589-001	Chloride	N/A		Water	4.57 mg/L	5 mL	4.57 mg/L	2	0.06	0.40			4/26/11 13:45:00	N	V
1103589-001	Nitrate as Nitrogen	N/A		Water	1.30 mg/L	5 mL	1.30 mg/L	2	0.008	0.10			4/26/11 13:45:00	N	V
1103589-001	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/26/11 13:45:00	N	V
1103589-001	Sulfate	N/A		Water	11.44 mg/L	5 mL	11.4 mg/L	2	0.02	0.40			4/26/11 13:45:00	N	V
1103589-002	Chloride	N/A		Water	45.67 mg/L	5 mL	45.7 mg/L	10	0.3	2.0			4/26/11 18:23:00	N	V
1103589-002	Nitrate as Nitrogen	N/A		Water	4.35 mg/L	5 mL	4.35 mg/L	2	0.008	0.10			4/26/11 14:00:00	N	V
1103589-002	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/26/11 14:00:00	N	V
1103589-002	Sulfate	N/A		Water	14.44 mg/L	5 mL	14.4 mg/L	2	0.02	0.40			4/26/11 14:00:00	N	V
1103592-002	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.04	0.20			4/26/11 17:36:00	N	V
1103592-002	Chloride	N/A		Water	3.72 mg/L	5 mL	3.72 mg/L	2	0.06	0.40			4/26/11 17:36:00	N	V
1103592-002	Fluoride	N/A		Water	0.09 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			4/26/11 17:36:00	N	V
1103592-003	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.04	0.20			4/26/11 17:52:00	N	V
1103592-003	Chloride	N/A		Water	4.87 mg/L	5 mL	4.87 mg/L	2	0.06	0.40			4/26/11 17:52:00	N	V
1103592-003	Fluoride	N/A		Water	0.09 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			4/26/11 17:52:00	N	V
1103592-004	Bromide	N/A		Water	0.00 mg/L	5 mL	0.20 mg/L	U 2	0.04	0.20			4/26/11 18:07:00	N	V
1103592-004	Chloride	N/A		Water	4.37 mg/L	5 mL	4.37 mg/L	2	0.06	0.40			4/26/11 18:07:00	N	V
1103592-004	Fluoride	N/A		Water	0.08 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			4/26/11 18:07:00	N	V
1103600-009	Chloride	N/A		Water	5.74 mg/L	5 mL	5.74 mg/L	2	0.06	0.40			4/26/11 18:38:00	N	V
1103600-009	Nitrate as Nitrogen	N/A		Water	1.56 mg/L	5 mL	1.56 mg/L	2	0.008	0.10			4/26/11 18:38:00	N	V
1103600-009	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/26/11 18:38:00	N	V
1103600-009	Sulfate	N/A		Water	11.77 mg/L	5 mL	11.8 mg/L	2	0.02	0.40			4/26/11 18:38:00	N	V
1103600-010	Chloride	N/A		Water	60.51 mg/L	5 mL	60.5 mg/L	10	0.3	2.0			4/26/11 19:56:00	Y	V
1103600-010	Nitrate as Nitrogen	N/A		Water	4.13 mg/L	5 mL	4.13 mg/L	2	0.008	0.10			4/26/11 15:48:00	Y	V
1103600-010	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			4/26/11 15:48:00	Y	V
1103600-010	Sulfate	N/A		Water	14.03 mg/L	5 mL	14.0 mg/L	2	0.02	0.40			4/26/11 15:48:00	Y	V
21103713-01	Chloride	MS	K1103588-001	Drinking Water	11.48 mg/L	5 mL	11.5 mg/L	2	0.06	0.40	109		4/26/11 14:31:00	N	I
21103713-01	Fluoride	MS	K1103588-001	Drinking Water	4.35 mg/L	5 mL	4.35 mg/L	2	0.006	0.40	109		4/26/11 14:31:00	N	I
21103713-01	Nitrate as Nitrogen	MS	K1103588-001	Drinking Water	5.14 mg/L	5 mL	5.14 mg/L	2	0.008	0.10	102		4/26/11 14:31:00	N	I
21103713-01	Nitrite as Nitrogen	MS	K1103588-001	Drinking Water	3.88 mg/L	5 mL	3.88 mg/L	2	0.004	0.10	97		4/26/11 14:31:00	N	I
21103713-01	Sulfate	MS	K1103588-001	Drinking Water	5.05 mg/L	5 mL	5.05 mg/L	2	0.02	0.40	90		4/26/11 14:31:00	N	I

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: NBAKOTICH

Analysis Lot: 243741

Method/Testcode: 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC Tier
21103713-02	Chloride	DMS	K1103588-001	Drinking Water	11.50 mg/L	5 mL	11.5 mg/L	2	0.06	0.40	110	<1	4/26/11 14:46:00	N I
21103713-02	Fluoride	DMS	K1103588-001	Drinking Water	4.44 mg/L	5 mL	4.44 mg/L	2	0.006	0.40	111	2	4/26/11 14:46:00	N I
21103713-02	Nitrate as Nitrogen	DMS	K1103588-001	Drinking Water	5.20 mg/L	5 mL	5.20 mg/L	2	0.008	0.10	104	1	4/26/11 14:46:00	N I
21103713-02	Nitrite as Nitrogen	DMS	K1103588-001	Drinking Water	3.93 mg/L	5 mL	3.93 mg/L	2	0.004	0.10	98	1	4/26/11 14:46:00	N I
21103713-02	Sulfate	DMS	K1103588-001	Drinking Water	5.09 mg/L	5 mL	5.09 mg/L	2	0.02	0.40	91	<1	4/26/11 14:46:00	N I
21103713-03	Chloride	DUP	K1103588-001	Drinking Water	7.07 mg/L	5 mL	7.07 mg/L	2	0.06	0.40		<1	4/26/11 14:15:00	N I
21103713-03	Fluoride	DUP	K1103588-001	Drinking Water	0.21 mg/L	5 mL	0.21 mg/L	2	0.006	0.40		NC	4/26/11 14:15:00	N I
21103713-03	Nitrate as Nitrogen	DUP	K1103588-001	Drinking Water	1.06 mg/L	5 mL	1.06 mg/L	2	0.008	0.10		<1	4/26/11 14:15:00	N I
21103713-03	Nitrite as Nitrogen	DUP	K1103588-001	Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10		NC	4/26/11 14:15:00	N I
21103713-03	Sulfate	DUP	K1103588-001	Drinking Water	1.43 mg/L	5 mL	1.43 mg/L	2	0.02	0.40		<1	4/26/11 14:15:00	N I
21103713-04	Bromide	LCS		Drinking Water	3.76 mg/L	5 mL	3.76 mg/L	2	0.04	0.20	94		4/26/11 09:53:00	N I
21103713-04	Chloride	LCS		Drinking Water	4.65 mg/L	5 mL	4.65 mg/L	1	0.03	0.20	93		4/26/11 09:06:00	N I
21103713-04	Fluoride	LCS		Drinking Water	11.02 mg/L	5 mL	11.0 mg/L	2	0.006	0.40	100		4/26/11 09:53:00	N I
21103713-04	Nitrate as Nitrogen	LCS		Drinking Water	15.41 mg/L	5 mL	15.4 mg/L	5	0.02	0.25	101		4/26/11 08:51:00	N I
21103713-04	Nitrite as Nitrogen	LCS		Drinking Water	100.16 mg/L	5 mL	100 mg/L	25	0.05	1.3	100		4/26/11 08:20:00	N I
21103713-04	Sulfate	LCS		Drinking Water	4.63 mg/L	5 mL	4.63 mg/L	1	0.01	0.20	93		4/26/11 09:06:00	N I
21103713-05	Bromide	MB		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	1	0.02	0.10			4/26/11 08:35:00	N I
21103713-05	Chloride	MB		Drinking Water	0.01 mg/L	5 mL	0.20 mg/L	1	0.03	0.20			4/26/11 08:35:00	N I
21103713-05	Fluoride	MB		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.003	0.20			4/26/11 08:35:00	N I
21103713-05	Nitrate as Nitrogen	MB		Drinking Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.004	0.050			4/26/11 08:35:00	N I
21103713-05	Nitrite as Nitrogen	MB		Drinking Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.002	0.050			4/26/11 08:35:00	N I
21103713-05	Sulfate	MB		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.01	0.20			4/26/11 08:35:00	N I
21103713-06	Chloride	MFS	K1103600-010	Water	81.93 mg/L	5 mL	81.9 mg/L	10	0.3	2.0	107		4/26/11 20:27:00	N V
21103713-06	Nitrate as Nitrogen	MFS	K1103600-010	Water	22.60 mg/L	5 mL	22.6 mg/L	10	0.04	0.50	92		4/26/11 20:27:00	N V
21103713-06	Nitrite as Nitrogen	MS	K1103600-010	Water	19.58 mg/L	5 mL	19.6 mg/L	10	0.02	0.50	98		4/26/11 20:27:00	N V
21103713-06	Sulfate	MS	K1103600-010	Water	30.52 mg/L	5 mL	30.5 mg/L	10	0.1	2.0	82		4/26/11 20:27:00	N V
21103713-07	Chloride	DMS	K1103600-010	Water	82.60 mg/L	5 mL	82.6 mg/L	10	0.3	2.0	110	<1	4/26/11 20:42:00	N V
21103713-07	Nitrate as Nitrogen	DMS	K1103600-010	Water	22.78 mg/L	5 mL	22.8 mg/L	10	0.04	0.50	93	<1	4/26/11 20:42:00	N V

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: NBAKOTICH

Analysis Lot: 243741

Method/Testcode: 300.0/NO3

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC Tier
21103713-07	Nitrite as Nitrogen	DMS	K1103600-010	Water	19.80 mg/L	5 mL	19.8 mg/L	10	0.02	0.50	99	1	4/26/11 20:42:00	N
21103713-07	Sulfate	DMS	K1103600-010	Water	30.78 mg/L	5 mL	30.8 mg/L	10	0.1	2.0	84	<1	4/26/11 20:42:00	N
21103713-08	Chloride	DUP	K1103600-010	Water	60.99 mg/L	5 mL	61.0 mg/L	10	0.3	2.0	<1	<1	4/26/11 20:11:00	N
21103713-08	Nitrate as Nitrogen	DUP	K1103600-010	Water	4.12 mg/L	5 mL	4.12 mg/L	2	0.008	0.10	<1	<1	4/26/11 19:40:00	N
21103713-08	Nitrite as Nitrogen	DUP	K1103600-010	Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10	NC	NC	4/26/11 19:40:00	N
21103713-08	Sulfate	DUP	K1103600-010	Water	14.04 mg/L	5 mL	14.0 mg/L	2	0.02	0.40	<1	<1	4/26/11 19:40:00	N
21103713-09	Bromide	CCV		Water	2.39 mg/L	5 mL	2.39 mg/L	1					4/26/11 07:49:00	N
21103713-09	Chloride	CCV		Water	4.73 mg/L	5 mL	4.73 mg/L	1					4/26/11 07:49:00	N
21103713-09	Fluoride	CCV		Water	5.20 mg/L	5 mL	5.20 mg/L	1					4/26/11 07:49:00	N
21103713-09	Nitrate as Nitrogen	CCV		Water	2.37 mg/L	5 mL	2.37 mg/L	1					4/26/11 07:49:00	N
21103713-09	Nitrite as Nitrogen	CCV		Water	2.56 mg/L	5 mL	2.56 mg/L	1					4/26/11 07:49:00	N
21103713-09	Sulfate	CCV		Water	4.69 mg/L	5 mL	4.69 mg/L	1					4/26/11 07:49:00	N
21103713-10	Bromide	CCV		Water	2.40 mg/L	5 mL	2.40 mg/L	1					4/26/11 10:08:00	N
21103713-10	Chloride	CCV		Water	4.68 mg/L	5 mL	4.68 mg/L	1					4/26/11 10:08:00	N
21103713-10	Fluoride	CCV		Water	5.21 mg/L	5 mL	5.21 mg/L	1					4/26/11 10:08:00	N
21103713-10	Nitrate as Nitrogen	CCV		Water	2.36 mg/L	5 mL	2.36 mg/L	1					4/26/11 10:08:00	N
21103713-10	Nitrite as Nitrogen	CCV		Water	2.57 mg/L	5 mL	2.57 mg/L	1					4/26/11 10:08:00	N
21103713-10	Sulfate	CCV		Water	4.70 mg/L	5 mL	4.70 mg/L	1					4/26/11 10:08:00	N
21103713-11	Bromide	CCV		Water	2.40 mg/L	5 mL	2.40 mg/L	1					4/26/11 12:58:00	N
21103713-11	Chloride	CCV		Water	4.68 mg/L	5 mL	4.68 mg/L	1					4/26/11 12:58:00	N
21103713-11	Fluoride	CCV		Water	5.22 mg/L	5 mL	5.22 mg/L	1					4/26/11 12:58:00	N
21103713-11	Nitrate as Nitrogen	CCV		Water	2.36 mg/L	5 mL	2.36 mg/L	1					4/26/11 12:58:00	N
21103713-11	Nitrite as Nitrogen	CCV		Water	2.56 mg/L	5 mL	2.56 mg/L	1					4/26/11 12:58:00	N
21103713-11	Sulfate	CCV		Water	4.66 mg/L	5 mL	4.66 mg/L	1					4/26/11 12:58:00	N
21103713-12	Bromide	CCV		Water	2.38 mg/L	5 mL	2.38 mg/L	1					4/26/11 16:04:00	N
21103713-12	Chloride	CCV		Water	4.71 mg/L	5 mL	4.71 mg/L	1					4/26/11 16:04:00	N
21103713-12	Fluoride	CCV		Water	5.23 mg/L	5 mL	5.23 mg/L	1					4/26/11 16:04:00	N
21103713-12	Nitrate as Nitrogen	CCV		Water	2.36 mg/L	5 mL	2.36 mg/L	1					4/26/11 16:04:00	N
21103713-12	Nitrite as Nitrogen	CCV		Water	2.54 mg/L	5 mL	2.54 mg/L	1					4/26/11 16:04:00	N
21103713-12	Sulfate	CCV		Water	4.65 mg/L	5 mL	4.65 mg/L	1					4/26/11 16:04:00	N
21103713-13	Bromide	CCV		Water	2.37 mg/L	5 mL	2.37 mg/L	1					4/26/11 19:09:00	N
21103713-13	Chloride	CCV		Water	4.68 mg/L	5 mL	4.68 mg/L	1					4/26/11 19:09:00	N
21103713-13	Fluoride	CCV		Water	5.21 mg/L	5 mL	5.21 mg/L	1					4/26/11 19:09:00	N
21103713-13	Nitrate as Nitrogen	CCV		Water	2.36 mg/L	5 mL	2.36 mg/L	1					4/26/11 19:09:00	N

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined

Analytical Results Summary

Instrument Name: K-IC-03

Analyst: NBAKOTICH

Analysis Lot:

243741

Method/Testcode: 300.0/NO2

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
21103713-13	Nitrite as Nitrogen	CCV		Water	2.53 mg/L	5 mL	2.53 mg/L	1					4/26/11 19:09:00	N	V
21103713-13	Sulfate	CCV		Water	4.66 mg/L	5 mL	4.66 mg/L	1					4/26/11 19:09:00	N	V
21103713-14	Bromide	CCV		Water	2.37 mg/L	5 mL	2.37 mg/L	1					4/26/11 21:28:00	N	V
21103713-14	Chloride	CCV		Water	5.13 mg/L	5 mL	5.13 mg/L	1					4/26/11 21:28:00	N	V
21103713-14	Fluoride	CCV		Water	5.09 mg/L	5 mL	5.09 mg/L	1					4/26/11 21:28:00	N	V
21103713-14	Nitrate as Nitrogen	CCV		Water	2.35 mg/L	5 mL	2.35 mg/L	1					4/26/11 21:28:00	N	V
21103713-14	Nitrite as Nitrogen	CCV		Water	2.55 mg/L	5 mL	2.55 mg/L	1					4/26/11 21:28:00	N	V
21103713-14	Sulfate	CCV		Water	4.64 mg/L	5 mL	4.64 mg/L	1					4/26/11 21:28:00	N	V
21103713-15	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10			4/26/11 08:04:00	N	V
21103713-15	Chloride	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 08:04:00	N	V
21103713-15	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 08:04:00	N	V
21103713-15	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050			4/26/11 08:04:00	N	V
21103713-15	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050			4/26/11 08:04:00	N	V
21103713-15	Sulfate	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 08:04:00	N	V
21103713-16	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10			4/26/11 10:24:00	N	V
21103713-16	Chloride	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 10:24:00	N	V
21103713-16	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 10:24:00	N	V
21103713-16	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050			4/26/11 10:24:00	N	V
21103713-16	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050			4/26/11 10:24:00	N	V
21103713-16	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 10:24:00	N	V
21103713-17	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10			4/26/11 13:14:00	N	V
21103713-17	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 13:14:00	N	V
21103713-17	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 13:14:00	N	V
21103713-17	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050			4/26/11 13:14:00	N	V
21103713-17	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050			4/26/11 13:14:00	N	V
21103713-17	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 13:14:00	N	V
21103713-18	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10			4/26/11 16:19:00	N	V
21103713-18	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 16:19:00	N	V
21103713-18	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 16:19:00	N	V
21103713-18	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050			4/26/11 16:19:00	N	V
21103713-18	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U	0.050	0.050			4/26/11 16:19:00	N	V
21103713-18	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 16:19:00	N	V
21103713-19	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L	U	0.10	0.10			4/26/11 19:25:00	N	V
21103713-19	Chloride	CCB		Water	0.01 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 19:25:00	N	V
21103713-19	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U	0.20	0.20			4/26/11 19:25:00	N	V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03 Analyst: NBAKOTICH

Analysis Event: 243741

Method/Testcode: 300.0/NO3

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
Q1103713-19	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/26/11 19:25:00	N	V
Q1103713-19	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/26/11 19:25:00	N	V
Q1103713-19	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/26/11 19:25:00	N	V
Q1103713-20	Bromide	CCB		Water	0.00 mg/L	5 mL	0.10 mg/L U	1	0.10	0.10			4/26/11 21:44:00	N	V
Q1103713-20	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/26/11 21:44:00	N	V
Q1103713-20	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/26/11 21:44:00	N	V
Q1103713-20	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/26/11 21:44:00	N	V
Q1103713-20	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			4/26/11 21:44:00	N	V
Q1103713-20	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.20	0.20			4/26/11 21:44:00	N	V
Q1103713-21	Bromide	N/A		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L U	2	0.04	0.20			4/26/11 13:29:00	N	I
Q1103713-21	Chloride	N/A		Drinking Water	7.11 mg/L	5 mL	7.11 mg/L	2	0.06	0.40			4/26/11 13:29:00	N	I
Q1103713-21	Fluoride	N/A		Drinking Water	0.21 mg/L	5 mL	0.21 mg/L J	2	0.006	0.40			4/26/11 13:29:00	N	I
Q1103713-21	Nitrate as Nitrogen	N/A		Drinking Water	1.06 mg/L	5 mL	1.06 mg/L	2	0.008	0.10			4/26/11 13:29:00	N	I
Q1103713-21	Nitrite as Nitrogen	N/A		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L U	2	0.004	0.10			4/26/11 13:29:00	N	I
Q1103713-21	Sulfate	N/A		Drinking Water	1.44 mg/L	5 mL	1.44 mg/L	2	0.02	0.40			4/26/11 13:29:00	N	I
Q1103713-22	Bromide	MS	KQ1103713-21	Drinking Water	3.71 mg/L	5 mL	3.71 mg/L	2	0.04	0.20			4/26/11 14:31:00	N	I
Q1103713-22	Chloride	MS	KQ1103713-21	Drinking Water	11.48 mg/L	5 mL	11.5 mg/L	2	0.06	0.40			4/26/11 14:31:00	N	I
Q1103713-22	Fluoride	MS	KQ1103713-21	Drinking Water	4.35 mg/L	5 mL	4.35 mg/L	2	0.006	0.40			4/26/11 14:31:00	N	I
Q1103713-22	Nitrate as Nitrogen	MS	KQ1103713-21	Drinking Water	5.14 mg/L	5 mL	5.14 mg/L	2	0.008	0.10			4/26/11 14:31:00	N	I
Q1103713-22	Nitrite as Nitrogen	MS	KQ1103713-21	Drinking Water	3.88 mg/L	5 mL	3.88 mg/L	2	0.004	0.10			4/26/11 14:31:00	N	I
Q1103713-22	Sulfate	MS	KQ1103713-21	Drinking Water	5.05 mg/L	5 mL	5.05 mg/L	2	0.02	0.40			4/26/11 14:31:00	N	I
Q1103713-23	Bromide	DMS	KQ1103713-21	Drinking Water	3.75 mg/L	5 mL	3.75 mg/L	2	0.04	0.20			4/26/11 14:46:00	N	I
Q1103713-23	Chloride	DMS	KQ1103713-21	Drinking Water	11.50 mg/L	5 mL	11.5 mg/L	2	0.06	0.40			4/26/11 14:46:00	N	I
Q1103713-23	Fluoride	DMS	KQ1103713-21	Drinking Water	4.44 mg/L	5 mL	4.44 mg/L	2	0.006	0.40			4/26/11 14:46:00	N	I
Q1103713-23	Nitrate as Nitrogen	DMS	KQ1103713-21	Drinking Water	5.20 mg/L	5 mL	5.20 mg/L	2	0.008	0.10			4/26/11 14:46:00	N	I
Q1103713-23	Nitrite as Nitrogen	DMS	KQ1103713-21	Drinking Water	3.93 mg/L	5 mL	3.93 mg/L	2	0.004	0.10			4/26/11 14:46:00	N	I
Q1103713-23	Sulfate	DMS	KQ1103713-21	Drinking Water	5.09 mg/L	5 mL	5.09 mg/L	2	0.02	0.40			4/26/11 14:46:00	N	I
Q1103713-24	Bromide	DUPLICATE	KQ1103713-21	Drinking Water	0.00 mg/L	5 mL	0.20 mg/L U	2	0.04	0.20			4/26/11 14:15:00	N	I

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-IC-03 Analyst: NBAKOTIGH Analysis Lot: 243741 Method/Testcode: 300.0/Chloride

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
Q1103713-24	Chloride	DUP	KQ1103713-21	Drinking Water	7.07 mg/L	5 mL	7.07 mg/L	2	0.06	0.40		<1	4/26/11 14:15:00	N 1
Q1103713-24	Fluoride	DUP	KQ1103713-21	Drinking Water	0.21 mg/L	5 mL	0.21 mg/L	2	0.006	0.40		<1	4/26/11 14:15:00	N 1
Q1103713-24	Nitrate as Nitrogen	DUP	KQ1103713-21	Drinking Water	1.06 mg/L	5 mL	1.06 mg/L	2	0.008	0.10		<1	4/26/11 14:15:00	N 1
Q1103713-24	Nitrite as Nitrogen	DUP	KQ1103713-21	Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10		NC	4/26/11 14:15:00	N 1
Q1103713-24	Sulfate	DUP	KQ1103713-21	Drinking Water	1.43 mg/L	5 mL	1.43 mg/L	2	0.02	0.40		<1	4/26/11 14:15:00	N 1

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Sequence: IC03042611(22)
Operator: nbakotich

Page 1 of 4
Printed: 4/27/2011 8:51:42 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 64

Created: 4/26/2011 7:48:08 AM by ACQWET10
Last Update: 4/26/2011 5:00:08 PM by ACQWET10











































No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lv2	Standard	2	200.0	epa300(22)	epa300	Finished	4/22/2011 2:16:41 PM
2	std3/lv3	Standard	1	200.0	epa300(22)	epa300	Finished	4/22/2011 2:33:08 PM
3	std4/lv4	Standard	2	200.0	epa300(22)	epa300	Finished	4/22/2011 2:49:36 PM
4	std5/lv5	Standard	3	200.0	epa300(22)	epa300	Finished	4/22/2011 3:05:03 PM
5	std6/lv6	Standard	4	200.0	epa300(22)	epa300	Finished	4/22/2011 3:20:31 PM
6	std7/lv7	Standard	5	200.0	epa300(22)	epa300	Finished	4/22/2011 3:35:59 PM
7	std8/lv8	Standard	6	200.0	epa300(22)	epa300	Finished	4/22/2011 3:51:26 PM
8	std1/lv1	Standard	7	200.0	epa300(22)	epa300	Finished	4/22/2011 4:06:54 PM
9	CCV1 AN11-88-A	Unknown	12	200.0	epa300(22)	epa300	Finished	4/26/2011 7:49:24 AM
10	CCB1	Unknown	13	200.0	epa300(22)	epa300	Finished	4/26/2011 8:04:52 AM
11	NO2 AN11-35-FF	Unknown	13	200.0	epa300(22)	epa300	Finished	4/26/2011 8:20:19 AM
12	MB	Unknown	14	200.0	epa300(22)	epa300	Finished	4/26/2011 8:35:47 AM
13	NO3	Unknown	14	200.0	epa300(22)	epa300	Finished	4/26/2011 8:51:15 AM
14	CLSO4	Unknown	15	200.0	epa300(22)	epa300	Finished	4/26/2011 9:06:43 AM
15	K1103569-001	Unknown	16	200.0	epa300(22)	epa300	Finished	4/26/2011 9:22:10 AM
16	SPKCHK AN11-78-A	Unknown	17	200.0	epa300(22)	epa300	Finished	4/26/2011 9:37:38 AM
17	FBR	Unknown	18	200.0	epa300(22)	epa300	Finished	4/26/2011 9:53:05 AM
18	CCV2	Unknown	18	200.0	epa300(22)	epa300	Finished	4/26/2011 10:08:33 AM
19	CCB2	Unknown	19	200.0	epa300(22)	epa300	Finished	4/26/2011 10:24:01 AM
20	K1103570-001	Unknown	20	200.0	epa300(22)	epa300	Finished	4/26/2011 10:39:28 AM
21	K1103574-001	Unknown	21	200.0	epa300(22)	epa300	Finished	4/26/2011 10:54:56 AM
22	K1103574-002	Unknown	22	200.0	epa300(22)	epa300	Finished	4/26/2011 11:10:24 AM
23	K1103574-003	Unknown	23	200.0	epa300(22)	epa300	Finished	4/26/2011 11:25:51 AM
24	K1103574-004	Unknown	24	200.0	epa300(22)	epa300	Finished	4/26/2011 11:41:19 AM
25	K1103574-005	Unknown	25	200.0	epa300(22)	epa300	Finished	4/26/2011 11:56:47 AM
26	K1103569-001	Unknown	26	200.0	epa300(22)	epa300	Finished	4/26/2011 12:12:15 PM
27	K1103570-001	Unknown	27	200.0	epa300(22)	epa300	Finished	4/26/2011 12:27:43 PM
28	RB	Unknown	28	200.0	epa300(22)	epa300	Finished	4/26/2011 12:43:10 PM
29	CCV3	Unknown	29	200.0	epa300(22)	epa300	Finished	4/26/2011 12:58:37 PM
30	CCB3	Unknown	30	200.0	epa300(22)	epa300	Finished	4/26/2011 1:14:05 PM
31	K1103588-001	Unknown	31	200.0	epa300(22)	epa300	Finished	4/26/2011 1:29:32 PM
32	K1103589-001	Unknown	32	200.0	epa300(22)	epa300	Finished	4/26/2011 1:45:00 PM
33	K1103589-002	Unknown	33	200.0	epa300(22)	epa300	Finished	4/26/2011 2:00:29 PM
34	3588-1D	Unknown	34	200.0	epa300(22)	epa300	Finished	4/26/2011 2:15:57 PM
35	3588-1S	Unknown	35	200.0	epa300(22)	epa300	Finished	4/26/2011 2:31:25 PM
36	3588-1SD	Unknown	36	200.0	epa300(22)	epa300	Finished	4/26/2011 2:46:52 PM
37	K1103574-002	Unknown	37	200.0	epa300(22)	epa300	Finished	4/26/2011 3:02:20 PM
38	K1103574-003	Unknown	38	200.0	epa300(22)	epa300	Finished	4/26/2011 3:17:47 PM
39	K1103574-004	Unknown	39	200.0	epa300(22)	epa300	Finished	4/26/2011 3:33:15 PM
40	K1103600-010	Unknown	40	200.0	epa300(22)	epa300	Finished	4/26/2011 3:48:42 PM
41	CCV4	Unknown	41	200.0	epa300(22)	epa300	Finished	4/26/2011 4:04:10 PM
42	CCB4	Unknown	42	200.0	epa300(22)	epa300	Finished	4/26/2011 4:19:38 PM

Sequence: IC03042611(22)
Operator: nbakotich

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Printed: 4/27/2011 8:51:43 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 64

Created: 4/26/2011 7:48:08 AM by ACQWET10
Last Update: 4/26/2011 5:00:08 PM by ACQWET10























No.	Name	Dil. Factor	Comment
1	 std2/lvl2	1.0000	
2	 std3/lvl3	1.0000	
3	 std4/lvl4	1.0000	
4	 std5/lvl5	1.0000	
5	 std6/lvl6	1.0000	
6	 std7/lvl7	1.0000	
7	 std8/lvl8	1.0000	
8	 std1/lvl1	1.0000	
9	 CCV1 AN11-88-A	1.0000	
10	 CCB1	1.0000	
11	 NO2 AN11-35-FF	25.0000	
12	 MB	1.0000	
13	 NO3	5.0000	
14	 CLSO4	1.0000	
15	 K1103569-001	2.0000	
16	 SPKCHK AN11-78-A	1.0000	
17	 FBR	2.0000	
18	 CCV2	1.0000	
19	 CCB2	1.0000	
20	 K1103570-001	2.0000	
21	 K1103574-001	2.0000	
22	 K1103574-002	2.0000	
23	 K1103574-003	2.0000	
24	 K1103574-004	2.0000	
25	 K1103574-005	10.0000	
26	 K1103569-001	20.0000	
27	 K1103570-001	5.0000	
28	 RB	1.0000	
29	 CCV3	1.0000	CCV3
30	 CCB3	1.0000	CCB3
31	 K1103588-001	2.0000	
32	 K1103589-001	2.0000	
33	 K1103589-002	2.0000	
34	 3588-1D	2.0000	D
35	 3588-1S	2.0000	MS
36	 3588-1SD	2.0000	MSD
37	 K1103574-002	10.0000	
38	 K1103574-003	5.0000	
39	 K1103574-004	5.0000	
40	 K1103600-010	2.0000	
41	 CCV4	1.0000	CCV4
42	 CCB4	1.0000	CCB4

Sequence: IC03042611(22)
Operator: nbakotich

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Printed: 4/27/2011 8:51:43 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 64























Created: 4/26/2011 7:48:08 AM by ACQWET10
Last Update: 4/26/2011 5:00:08 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	 K1103574-005	Unknown	43	200.0	epa300(22)	epa300	Finished	4/26/2011 4:35:05 PM
44	 K1103574-001	Unknown	44	200.0	epa300(22)	epa300	Finished	4/26/2011 4:50:33 PM
45	 K1103574-001	Unknown	45	200.0	epa300(22)	epa300	Finished	4/26/2011 5:06:01 PM
46	 K1103592-001	Unknown	46	200.0	epa300(22)	epa300	Finished	4/26/2011 5:21:28 PM
47	 K1103592-002	Unknown	47	200.0	epa300(22)	epa300	Finished	4/26/2011 5:36:56 PM
48	 K1103592-003	Unknown	48	200.0	epa300(22)	epa300	Finished	4/26/2011 5:52:24 PM
49	 K1103592-004	Unknown	49	200.0	epa300(22)	epa300	Finished	4/26/2011 6:07:52 PM
50	 K1103589-002	Unknown	50	200.0	epa300(22)	epa300	Finished	4/26/2011 6:23:20 PM
51	 K1103600-009	Unknown	51	200.0	epa300(22)	epa300	Finished	4/26/2011 6:38:48 PM
52	 RB	Unknown	52	200.0	epa300(22)	epa300	Finished	4/26/2011 6:54:15 PM
53	 CCV5	Unknown	53	200.0	epa300(22)	epa300	Finished	4/26/2011 7:09:43 PM
54	 CCB5	Unknown	54	200.0	epa300(22)	epa300	Finished	4/26/2011 7:25:14 PM
55	 3600-10D	Unknown	55	200.0	epa300(22)	epa300	Finished	4/26/2011 7:40:41 PM
56	 K1103600-010	Unknown	56	200.0	epa300(22)	epa300	Finished	4/26/2011 7:56:10 PM
57	 3600-10D	Unknown	57	200.0	epa300(22)	epa300	Finished	4/26/2011 8:11:38 PM
58	 3600-10S	Unknown	58	200.0	epa300(22)	epa300	Finished	4/26/2011 8:27:06 PM
59	 3600-10SD	Unknown	59	200.0	epa300(22)	epa300	Finished	4/26/2011 8:42:34 PM
60	 RB	Unknown	60	200.0	epa300(22)	epa300	Finished	4/26/2011 8:58:02 PM
61	 RB	Unknown	61	200.0	epa300(22)	epa300	Finished	4/26/2011 9:13:29 PM
62	 CCV6	Unknown	62	200.0	epa300(22)	epa300	Finished	4/26/2011 9:28:57 PM
63	 CCB6	Unknown	63	200.0	epa300(22)	epa300	Finished	4/26/2011 9:44:25 PM
64	 STOP	Unknown	64	200.0	shutdown 120	epa300	Finished	4/26/2011 9:59:53 PM

Sequence: IC03042611(22)
Operator: nbakotich

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 64

Created: 4/26/2011 7:48:08 AM by ACQWET10
Last Update: 4/26/2011 5:00:08 PM by ACQWET10

No.	Name	Dil. Factor	Comment
43	 K1103574-005	2.0000	
44	 K1103574-001	50.0000	
45	 K1103574-001	5.0000	
46	 K1103592-001	2.0000	
47	 K1103592-002	2.0000	
48	 K1103592-003	2.0000	
49	 K1103592-004	2.0000	
50	 K1103589-002	10.0000	
51	 K1103600-009	2.0000	
52	 RB	1.0000	
53	 CCV5	1.0000	CCV5
54	 CCB5	1.0000	CCB5
55	 3600-10D	2.0000	D
56	 K1103600-010	10.0000	
57	 3600-10D	10.0000	D
58	 3600-10S	10.0000	MS
59	 3600-10SD	10.0000	MSD
60	 RB	1.0000	
61	 RB	1.0000	
62	 CCV6	1.0000	CCV6
63	 CCB6	1.0000	CCB6
64	 STOP	1.0000	CCB6

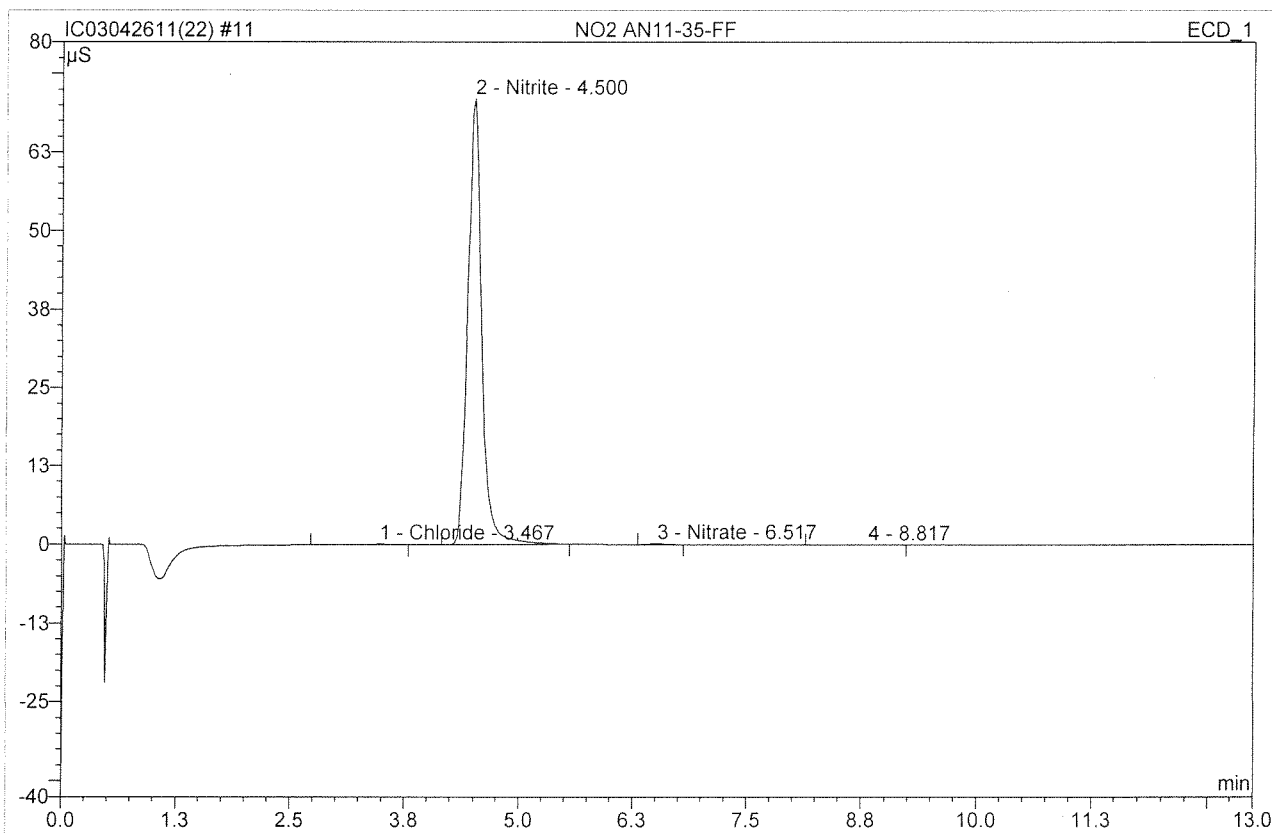
Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
3569-1			940		F			
					(Cl)	2.515		✓
					NO2			
					Br			
					(NO3)			✓
3570-1					(SO4)	↓	0.2515	✓
					F			
					(Cl)			✓
					NO2			
					Br			
3571-1					(NO3)			✓
					(SO4)	↓	115	✓
					F			✓
					(Cl)		0.115	
					NO2		115 MB126	✓
-2					Br			
					(NO3)		115	
					(SO4)	↓		
					F			✓
					(Cl)		0.515	✓
-3					NO2			✓
					Br			✓
					(NO3)		0.515	✓
					(SO4)	↓		✓
					F			✓
-4					(Cl)		115	✓
					NO2			✓
					Br			✓
					(NO3)		115	✓
					(SO4)		115	✓
-5					F	0.515	2.515	✓
					(Cl)			✓
					NO2		2.515	✓
					Br			✓
					(NO3)		115	✓
3588-1	1	x			(SO4)	↓	115	✓
					F	0.515		✓
					(Cl)			✓
					NO2			✓
					Br			✓
3589-1					(NO3)			✓
					(SO4)			✓
					F			✓
					(Cl)			✓
					NO2			✓
-2					Br			✓
					(NO3)			✓
					(SO4)			✓
					F		0.515	
					(Cl)			✓
-2					NO2			✓
					Br			
					(NO3)		0.515 ✓	✓
					(SO4)			✓
					F			✓

Service Request	Tier	QC	Hold Time	Due Date	Anions	Initial	Final	Done?
3592-1					F Cl NO2 Br NO3 SO4	2.515		
-2					F Cl NO2 Br NO3 SO4			
-3					F Cl NO2 Br NO3 SO4			
-4					F Cl NO2 Br NO3 SO4			
3600-9					F Cl NO2 Br NO3 SO4			
-10					F Cl NO2 Br NO3 SO4	0.515		✓ ✓ ✓
					F Cl NO2 Br NO3 SO4			
					F Cl NO2 Br NO3 SO4			
					F Cl NO2 Br NO3 SO4			
					F Cl NO2 Br NO3 SO4			

MS/MSD@10x

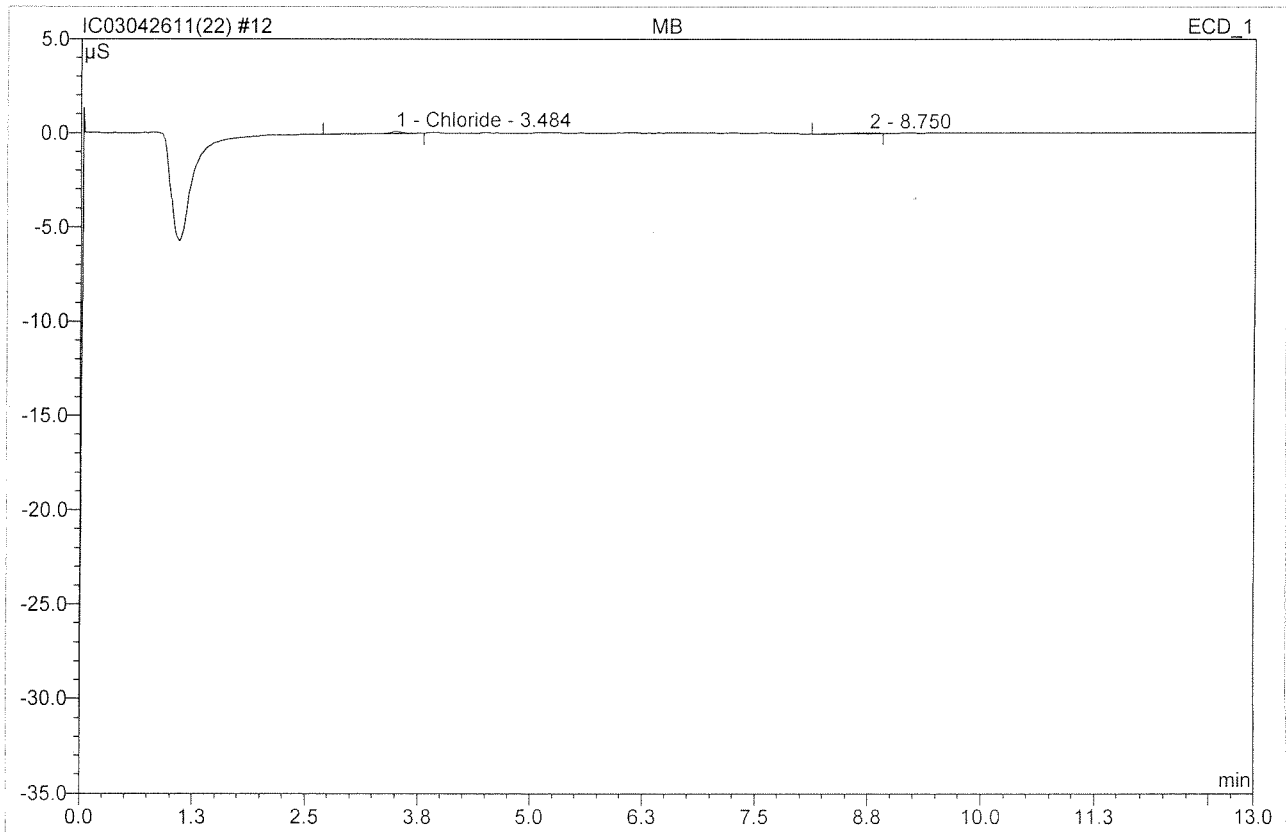
11 NO2 AN11-35-FF

Sample Name:	NO2 AN11-35-FF	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	4/26/2011 8:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



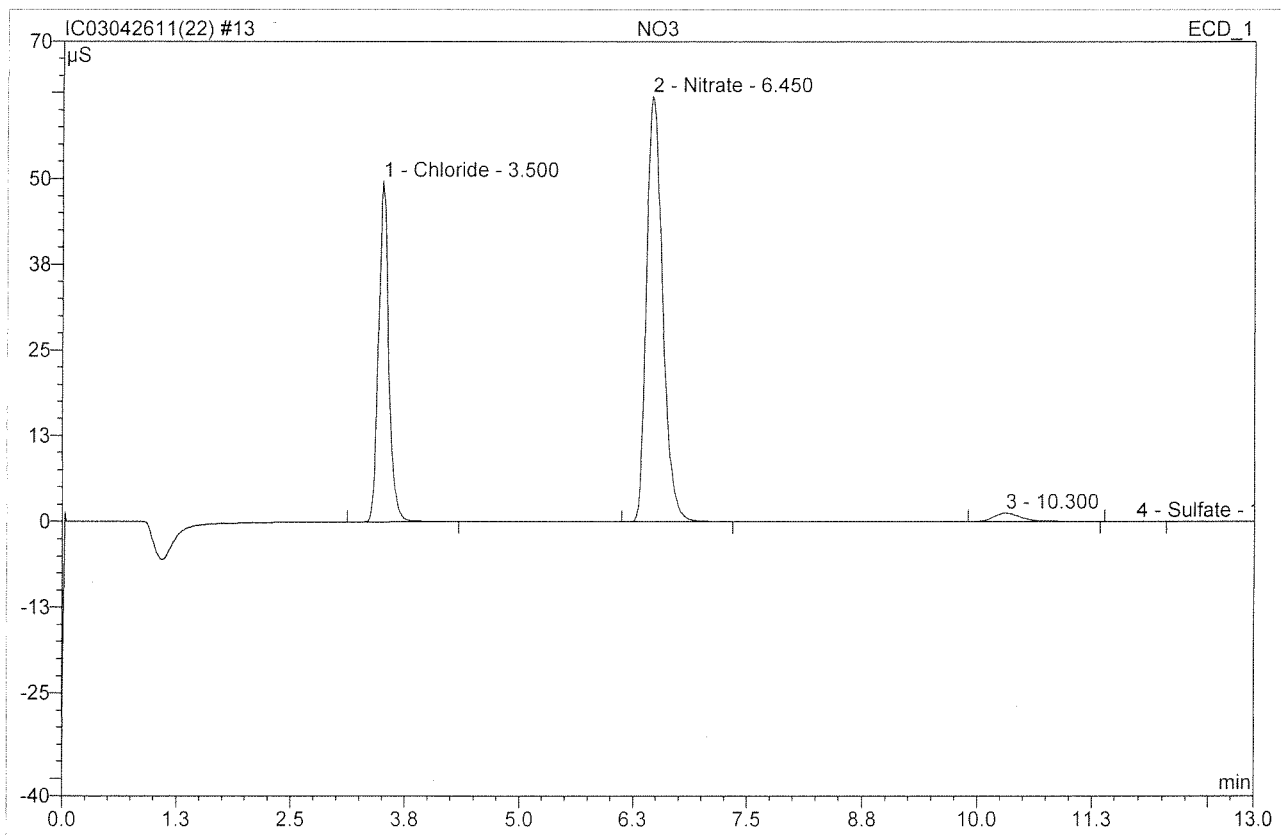
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.47	Chloride	0.100	0.017	0.13	0.246	BMB
2	4.50	Nitrite	70.979	12.550	99.42	100 100.158	BMB
3	6.52	Nitrate	0.154	0.032	0.25	0.191	BMB
4	8.82	n.a.	0.030	0.025	0.20	n.a.	BMB
Total:			71.264	12.623	100.00	100.594	

12 MB			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 8:35	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



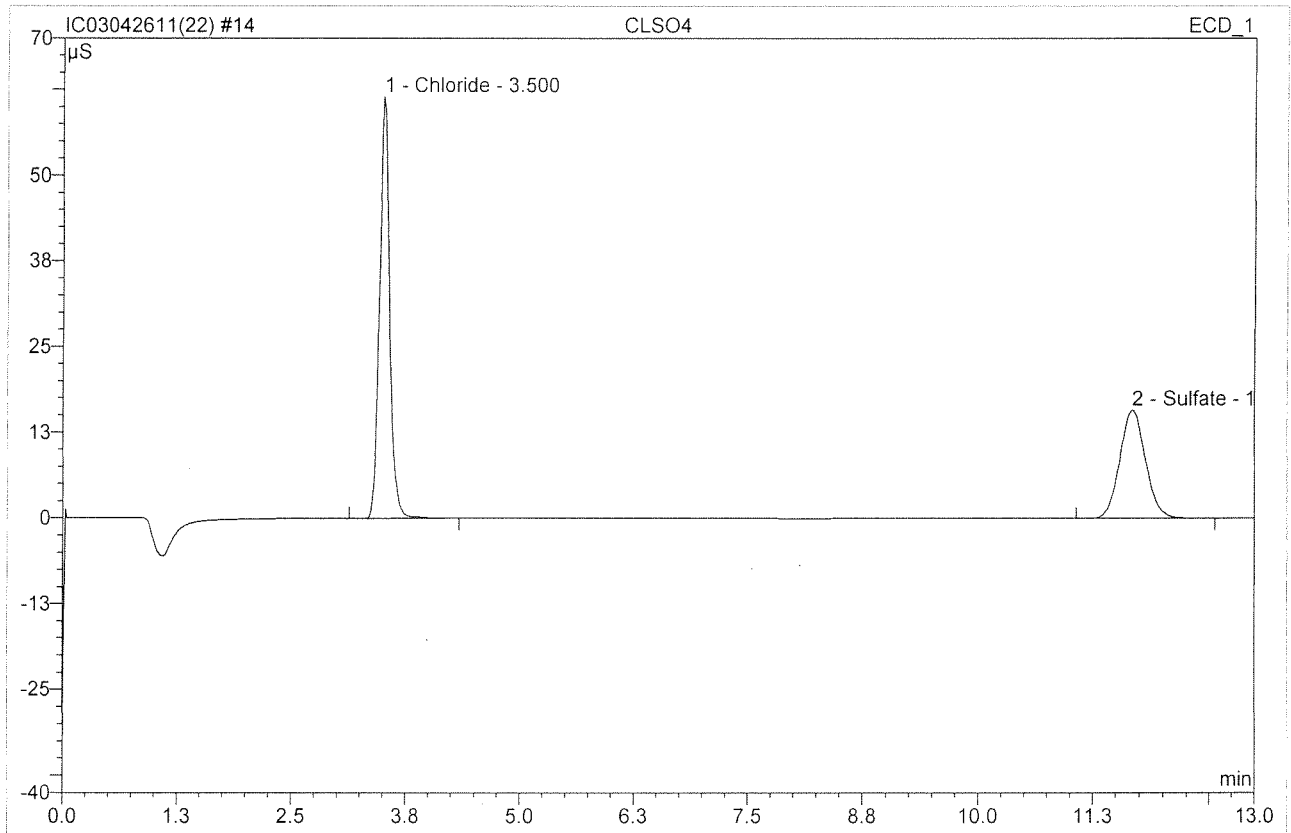
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.48	Chloride	0.111	0.020	56.73	0.012	BMB
2	8.75	n.a.	0.018	0.015	43.27	n.a.	BMB
Total:			0.129	0.035	100.00	0.012	

13 NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/26/2011 8:51	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



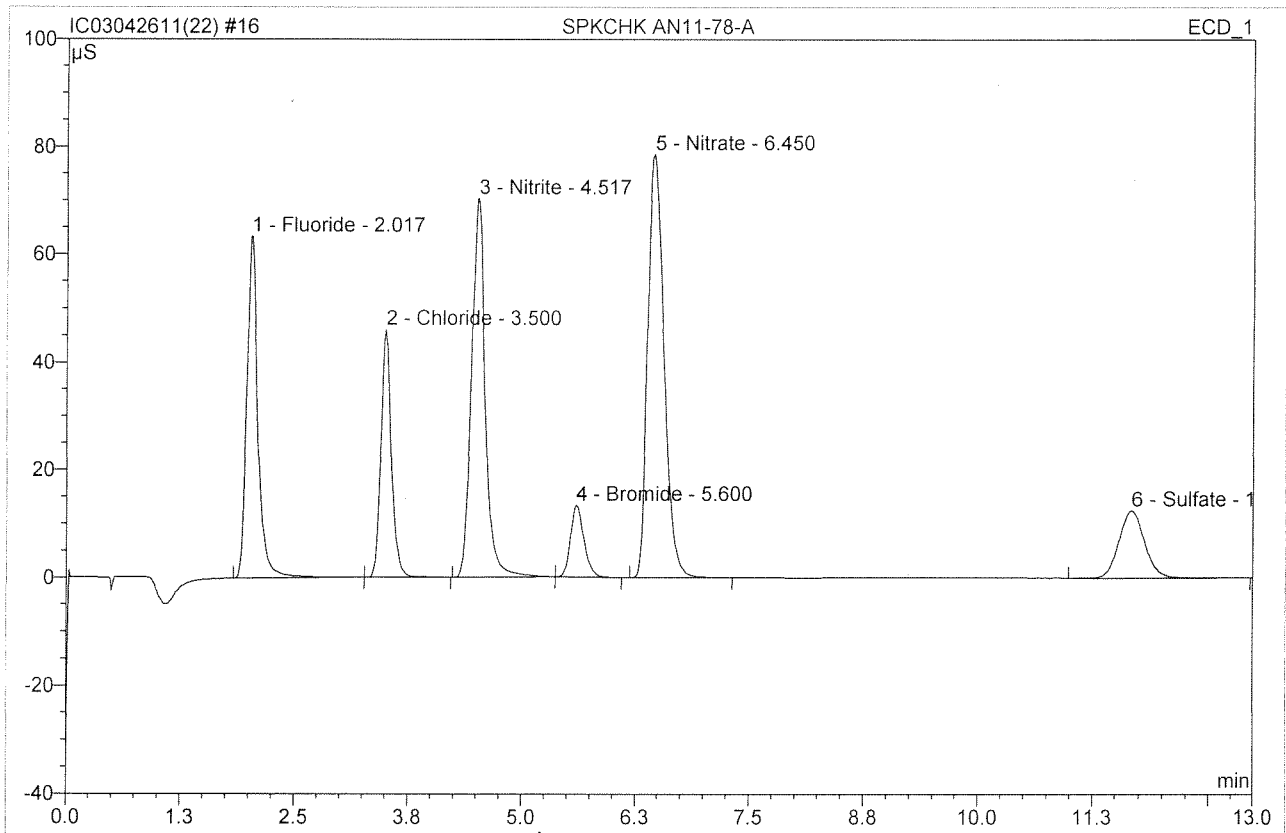
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.50	Chloride	49.653	6.407	32.62	18.945	BMB
2	6.45	Nitrate	61.976	12.778	65.05	15.413	BMB
3	10.30	n.a.	1.261	0.447	2.27	n.a.	BMB
4	11.72	Sulfate	0.043	0.013	0.06	0.059	BMB
Total:			112.933	19.645	100.00	34.417	

14 CLSO4			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 9:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.50	Chloride	61.534	7.856	61.22	93 ⁵ 4.646	BMB
2	11.67	Sulfate	15.734	4.976	38.78	93 ⁵ 4.635	BMB
Total:			77.267	12.832	100.00	9.281	

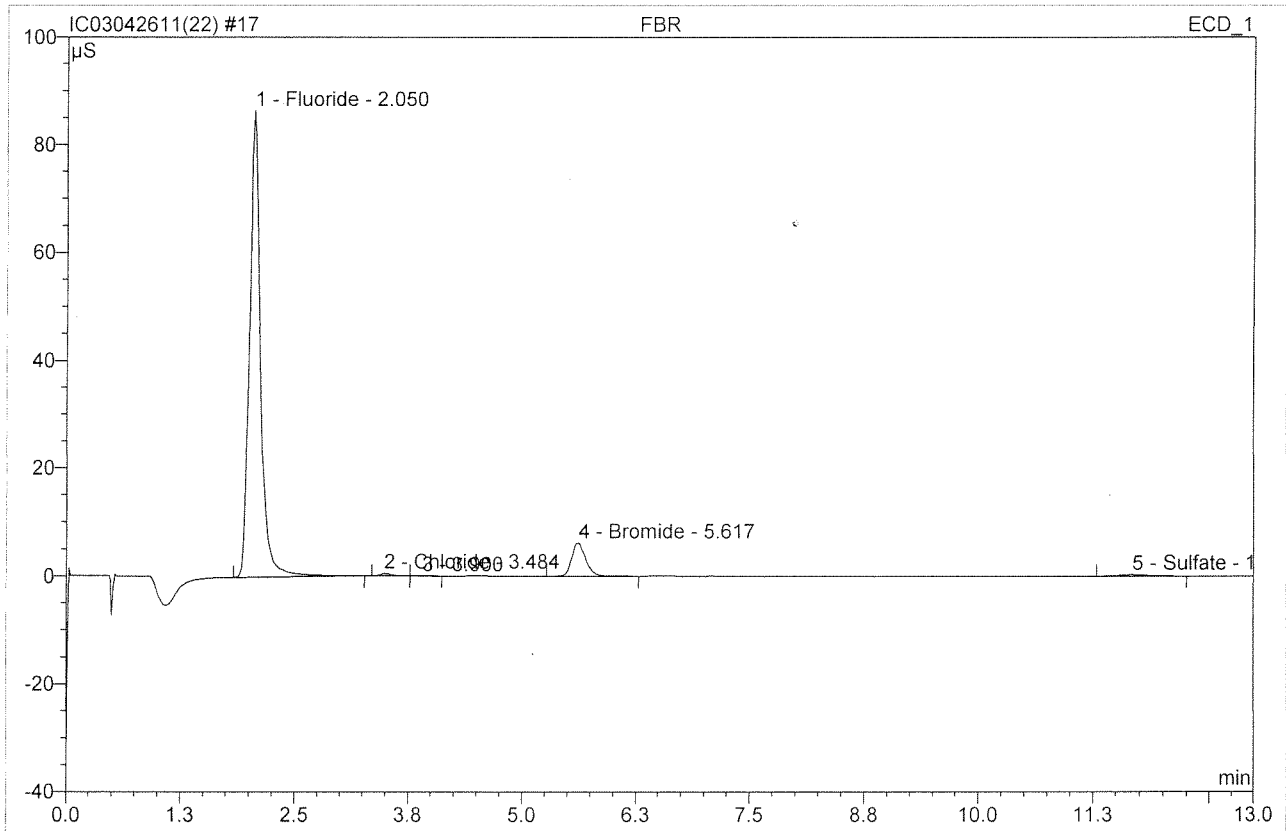
16 SPKCHK AN11-78-A			
Sample Name:	SPKCHK AN11-78-A	Injection Volume:	200.0
Vial Number:	17	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 9:37	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	63.474	8.964	17.92	4.096	BMb
2	3.50	Chloride	46.020	6.155	12.30	3.640	bMB
3	4.52	Nitrite	70.342	12.432	24.85	3.969	BMb
4	5.60	Bromide	13.318	2.309	4.62	3.906	bMB
5	6.45	Nitrate	78.566	16.207	32.40	3.910	BMB
6	11.67	Sulfate	12.499	3.961	7.92	3.689	BMB
Total:			284.218	50.027	100.00	23.209	

TV=4.0

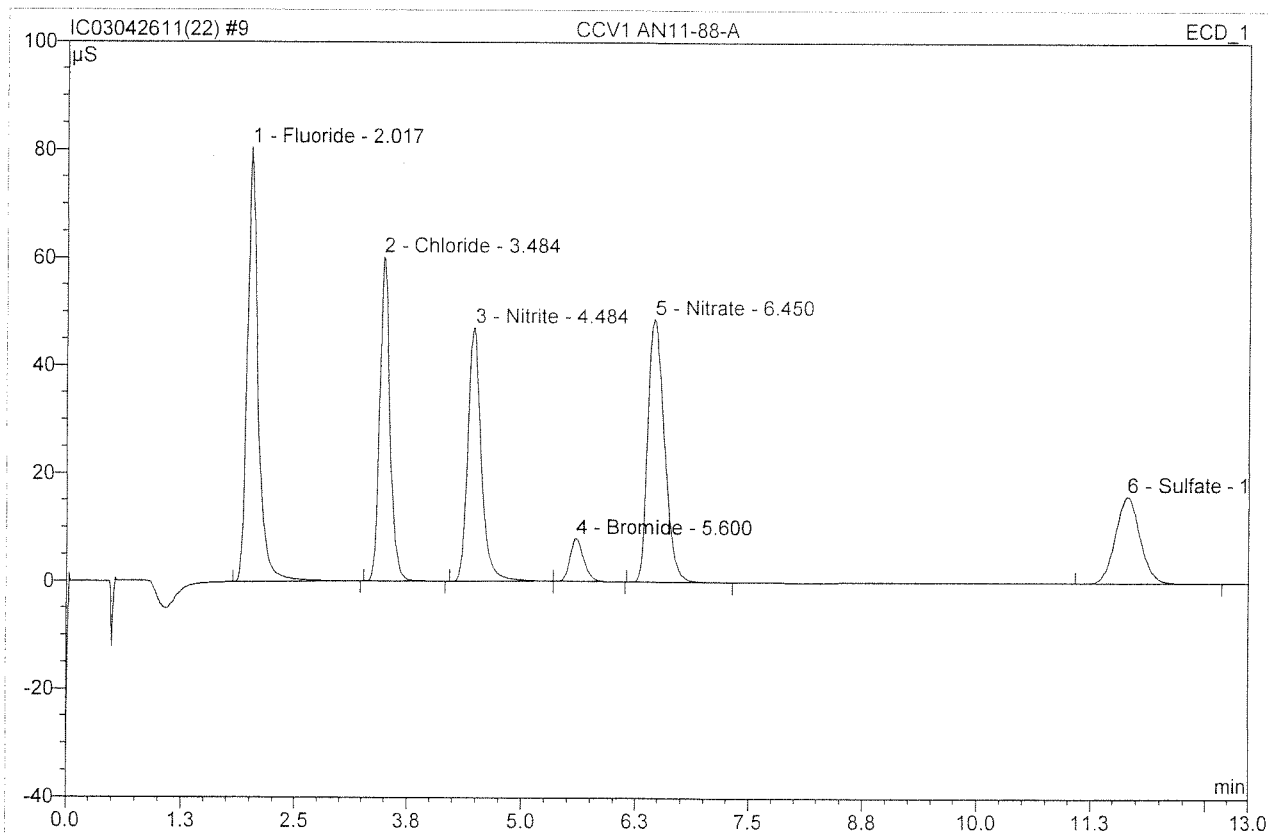
17 FBR			
Sample Name:	FBR	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/26/2011 9:53	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.05	Fluoride	86.449	12.064	90.41	11.024	BMB
2	3.48	Chloride	0.472	0.066	0.49	0.078	BMB
3	3.90	n.a.	0.071	0.010	0.08	n.a.	bMB
4	5.62	Bromide	6.194	1.112	8.33	3.761	BMB
5	11.67	Sulfate	0.255	0.091	0.68	0.170	BMB
Total:			93.440	13.343	100.00	15.033	

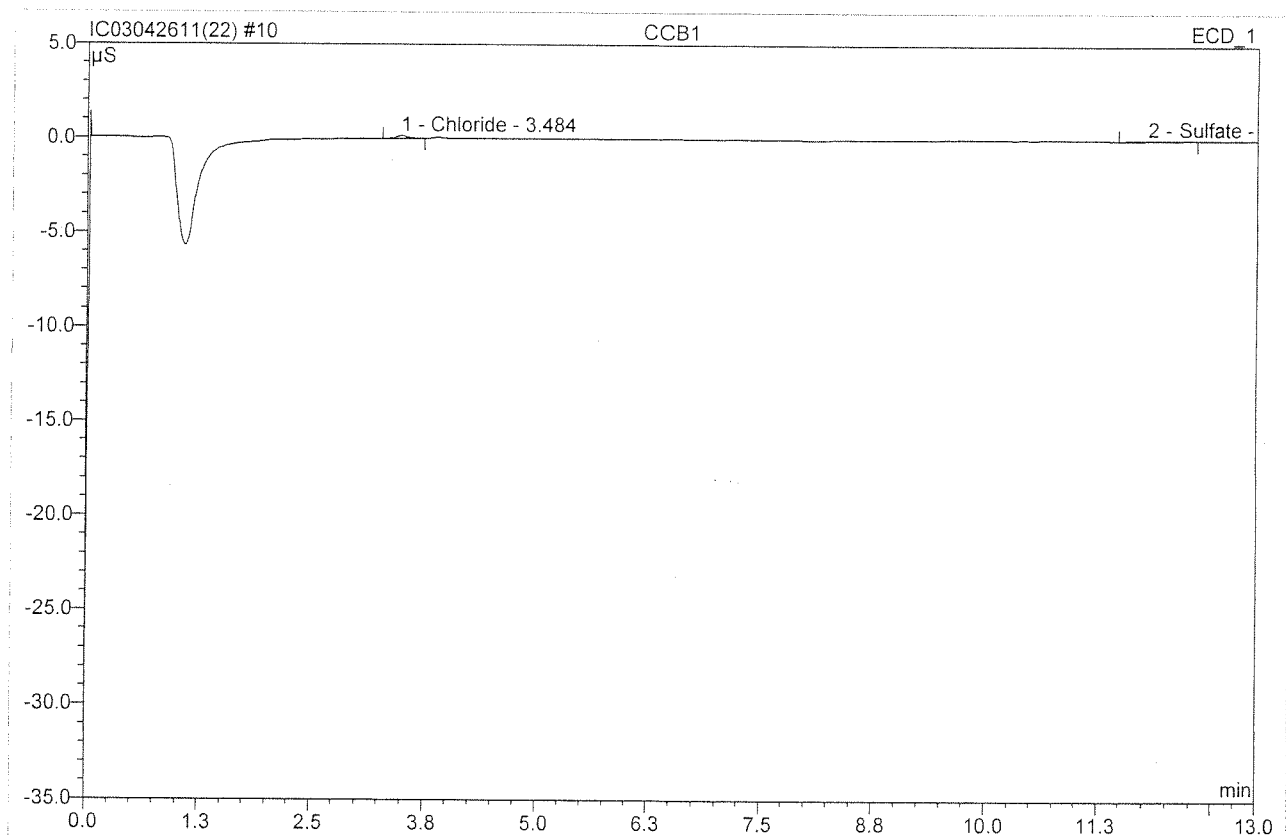
9 CCV1 AN11-88-A

Sample Name:	CCV1 AN11-88-A	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 7:49	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	80.625	11.373	26.04	100 5.196	BMB
2	3.48	Chloride	60.191	7.990	18.29	95 4.725	BMB
3	4.48	Nitrite	47.058	8.031	18.38	100 2.564	BMb
4	5.60	Bromide	8.019	1.414	3.24	75 2.392	bMB
5	6.45	Nitrate	48.760	9.835	22.51	95 2.373	BMB
6	11.65	Sulfate	16.052	5.039	11.54	95 4.693	BMB
Total:			260.706	43.683	100.00	21.944	

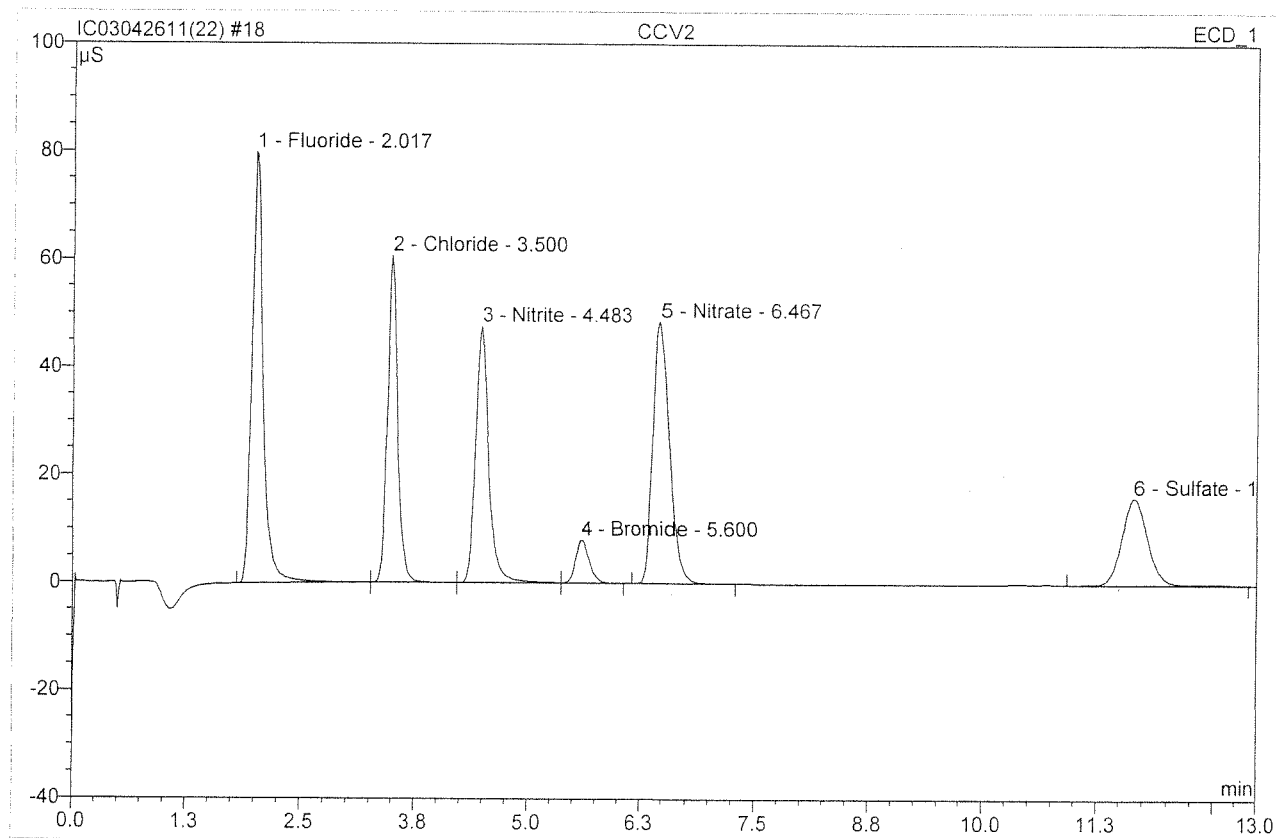
10 CCB1			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 8:04	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μ S	Area μ S*min	Rel.Area %	Amount	Type
1	3.48	Chloride	0.168	0.023	64.65	0.014	BMB
2	11.78	Sulfate	0.030	0.013	35.35	0.012	BMB
Total:			0.198	0.036	100.00	0.026	

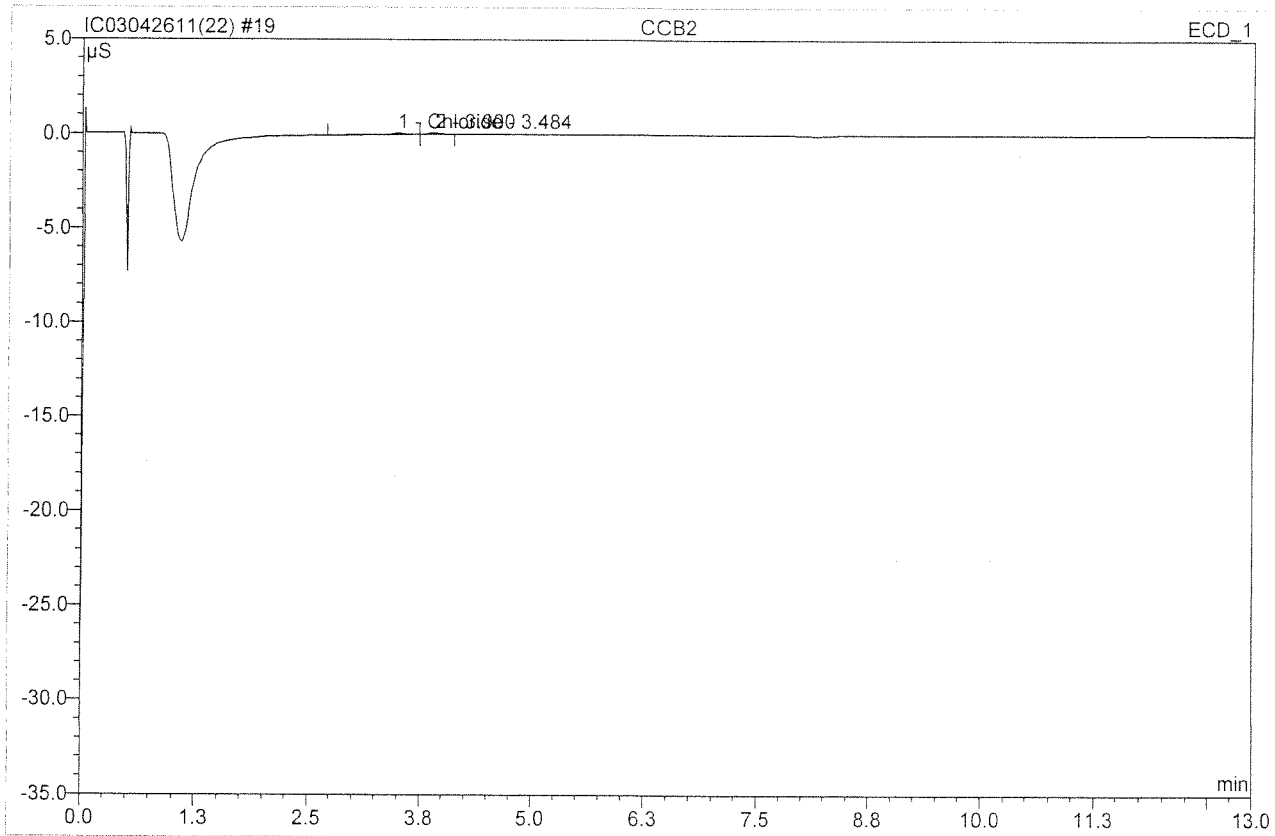
18 CCV2

Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 10:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



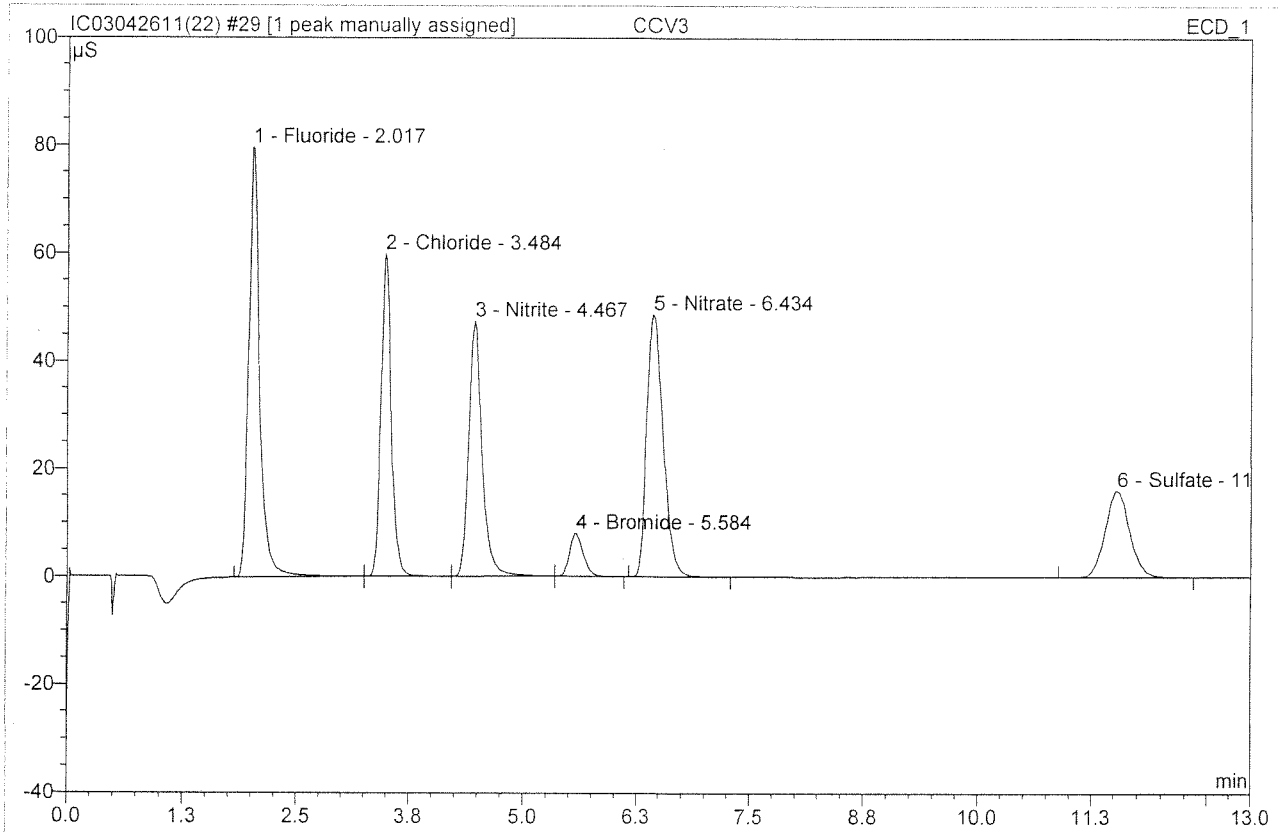
No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	2.02	Fluoride	79.936	11.404	26.15	5.210	BMb
2	3.50	Chloride	60.693	7.910	18.14	4.678	bMb
3	4.48	Nitrite	47.565	8.046	18.45	2.569	bMb
4	5.60	Bromide	8.031	1.418	3.25	2.398	bMB
5	6.47	Nitrate	48.545	9.775	22.42	2.358	BMB
6	11.65	Sulfate	16.034	5.050	11.58	4.704	BMB
Total:			260.804	43.603	100.00	21.917	

19 CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 10:24	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.48	Chloride	0.094	0.014	50.77	0.008	BMB
2	3.90	n.a.	0.086	0.014	49.23	n.a.	bMB
Total:			0.180	0.028	100.00	0.008	

29 CCV3			
CCV3			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 12:58	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	79.730	11.433	26.23	100-5.224	BMb
2	3.48	Chloride	59.757	7.917	18.16	94-4.682	bMb
3	4.47	Nitrite	47.453	8.031	18.43	100-2.564	bMb
4	5.58	Bromide	7.983	1.422	3.26	96-2.405	bMB^
5	6.43	Nitrate	48.771	9.783	22.45	94-2.360	BMB
6	11.53	Sulfate	16.125	4.998	11.47	93-4.655	BMB
Total:			259.820	43.584	100.00	21.889	

After Initials nb

cc 4/26/11

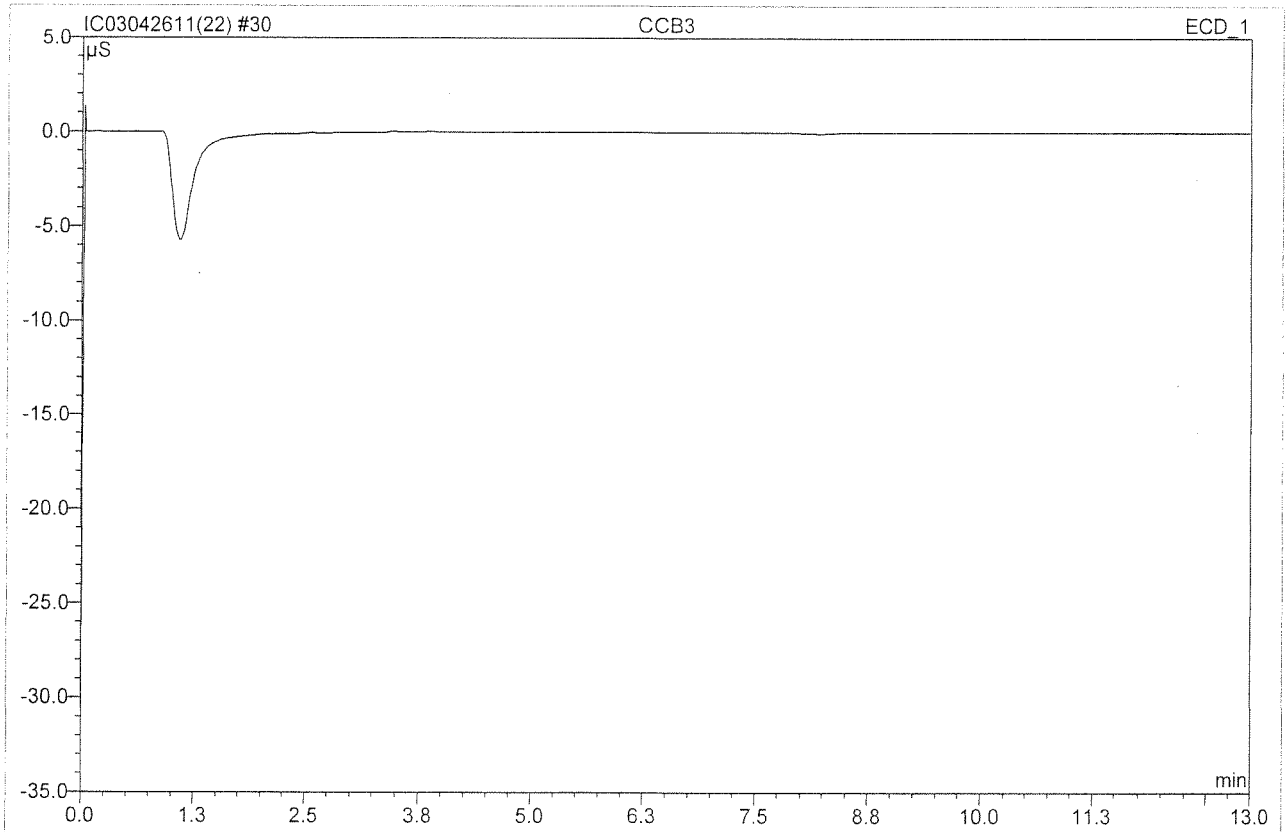
APR 26 2011

default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other _____

Chromeleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

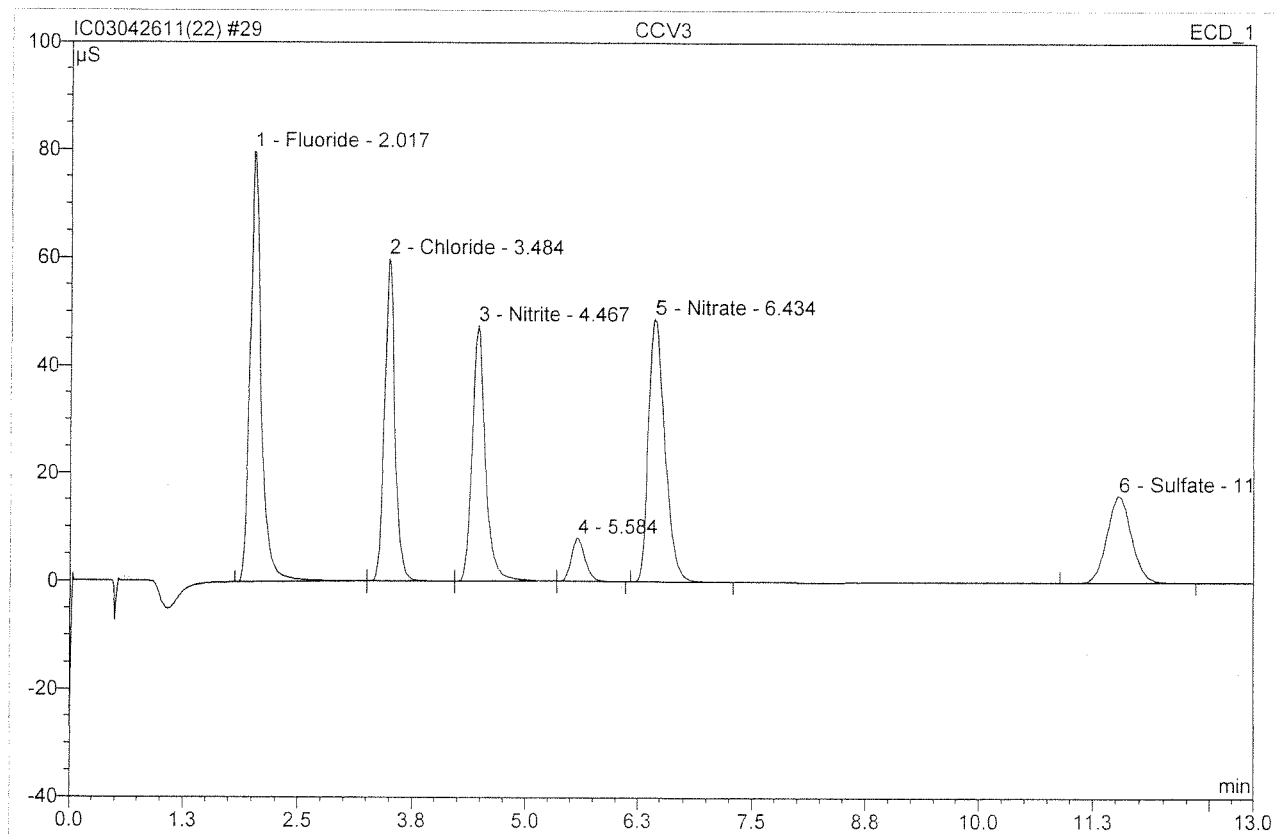
30 CCB3			
CCB3			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	30	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 13:14	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

29 CCV3**CCV3**

Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	29	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 12:58	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



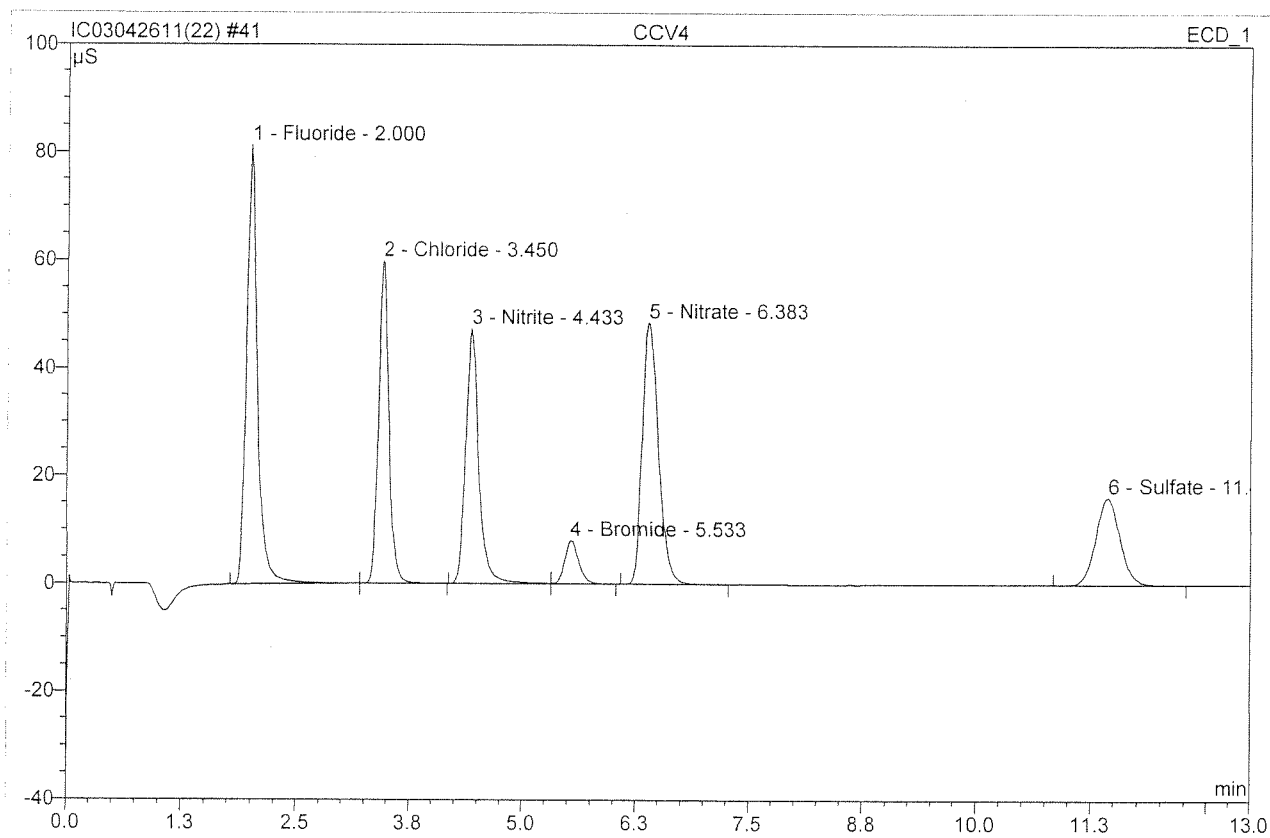
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	79.730	11.433	26.23	5.224	BMb
2	3.48	Chloride	59.757	7.917	18.16	4.682	bMb
3	4.47	Nitrite	47.453	8.031	18.43	2.564	bMb
4	5.58	n.a.	7.983	1.422	3.26	n.a.	bMB
5	6.43	Nitrate	48.771	9.783	22.45	2.360	BMB
6	11.53	Sulfate	16.125	4.998	11.47	4.655	BMB
Total:			259.820	43.584	100.00	19.485	

Before

APR 26 2011

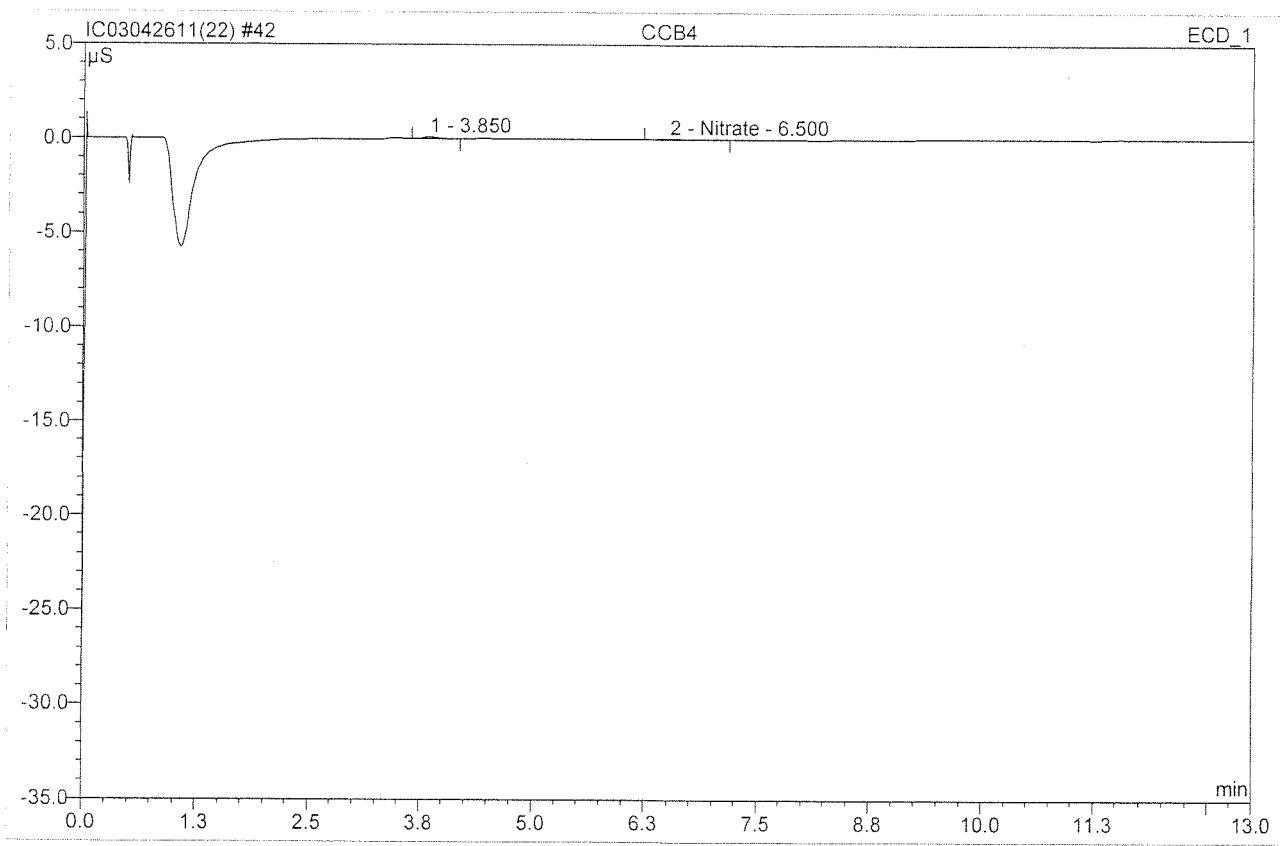
41 CCV4**CCV4**

Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 16:04	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	81.460	11.448	26.28	103-5.231	BMb
2	3.45	Chloride	59.792	7.969	18.29	94-4.713	bMB
3	4.43	Nitrite	47.285	7.958	18.27	102-2.540	BMb
4	5.53	Bromide	7.967	1.409	3.23	95-2.383	bMB
5	6.38	Nitrate	48.506	9.787	22.47	96-2.361	BMB
6	11.43	Sulfate	16.208	4.996	11.47	93-4.653	BMB
Total:			261.218	43.566	100.00	21.880	

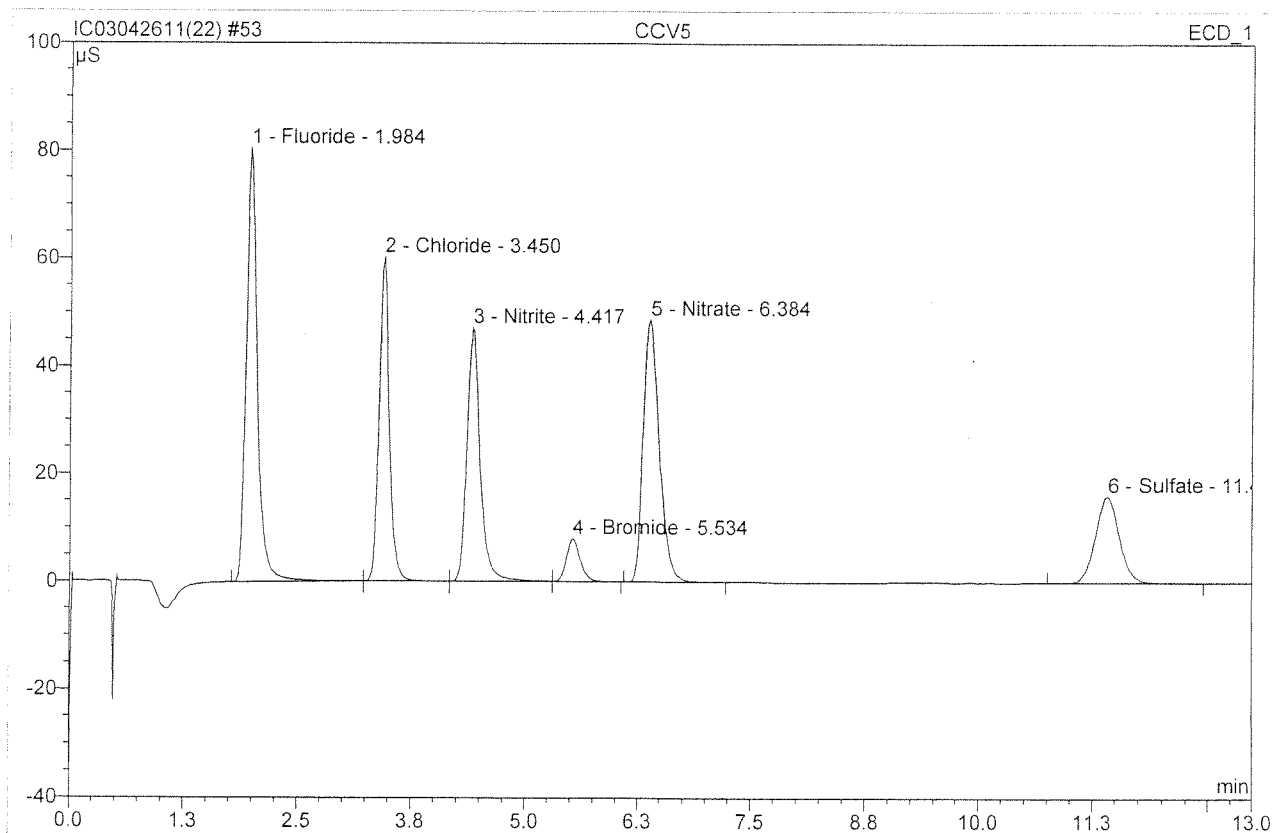
42 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	42	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 16:19	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.85	n.a.	0.100	0.016	60.98	n.a.	BMB
2	6.50	Nitrate	0.023	0.010	39.02	0.003	BMB
Total:			0.123	0.027	100.00	0.003	

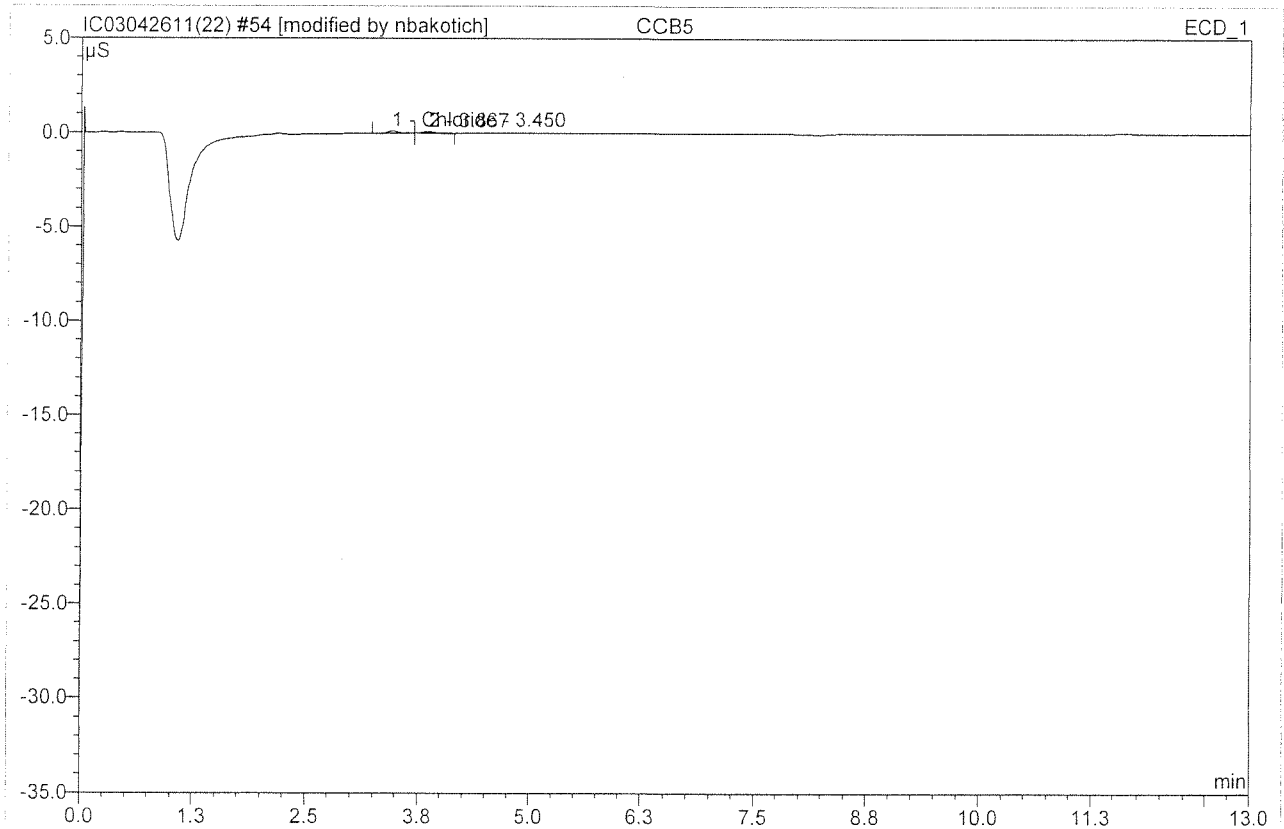
53 CCV5**CCV5**

Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	53	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 19:09	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	80.613	11.395	26.26	11.2/5.206	BMB
2	3.45	Chloride	60.202	7.910	18.23	9.1/4.678	bMb
3	4.42	Nitrite	47.025	7.922	18.25	10.1/2.529	bMb
4	5.53	Bromide	7.961	1.404	3.23	9.5/2.375	bMB
5	6.38	Nitrate	48.629	9.769	22.51	9.1/2.357	BMB
6	11.42	Sulfate	16.098	4.998	11.52	9.2/4.656	BMB
Total:			260.528	43.398	100.00	21.800	

54 CCB5			
CCB5			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 19:25	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	0.148	0.022	59.53	0.013	BMb*
2	3.87	n.a.	0.086	0.015	40.47	n.a.	bMB
Total:			0.234	0.037	100.00	0.013	

After Initials

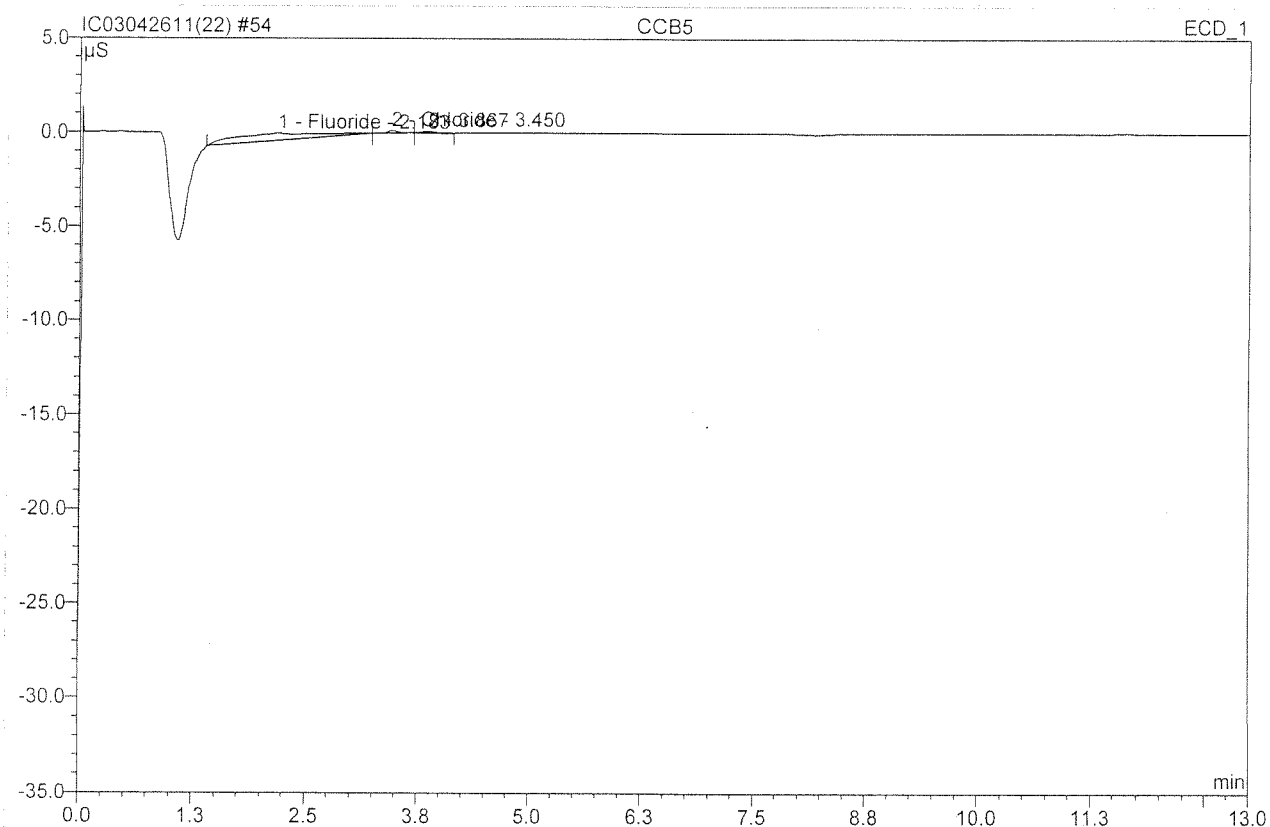
nbakotich

APR 27 2011

- Wrong Peak/Peak not Found
- Baseline/shoulder incorrect
- Other _____

54 CCB5**CCB5**

Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 19:25	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.18	Fluoride	0.401	0.432	92.08	0.197	BMB
2	3.45	Chloride	0.148	0.022	4.71	0.013	bMb
3	3.87	n.a.	0.086	0.015	3.20	n.a.	bMB
Total:			0.634	0.469	100.00	0.211	

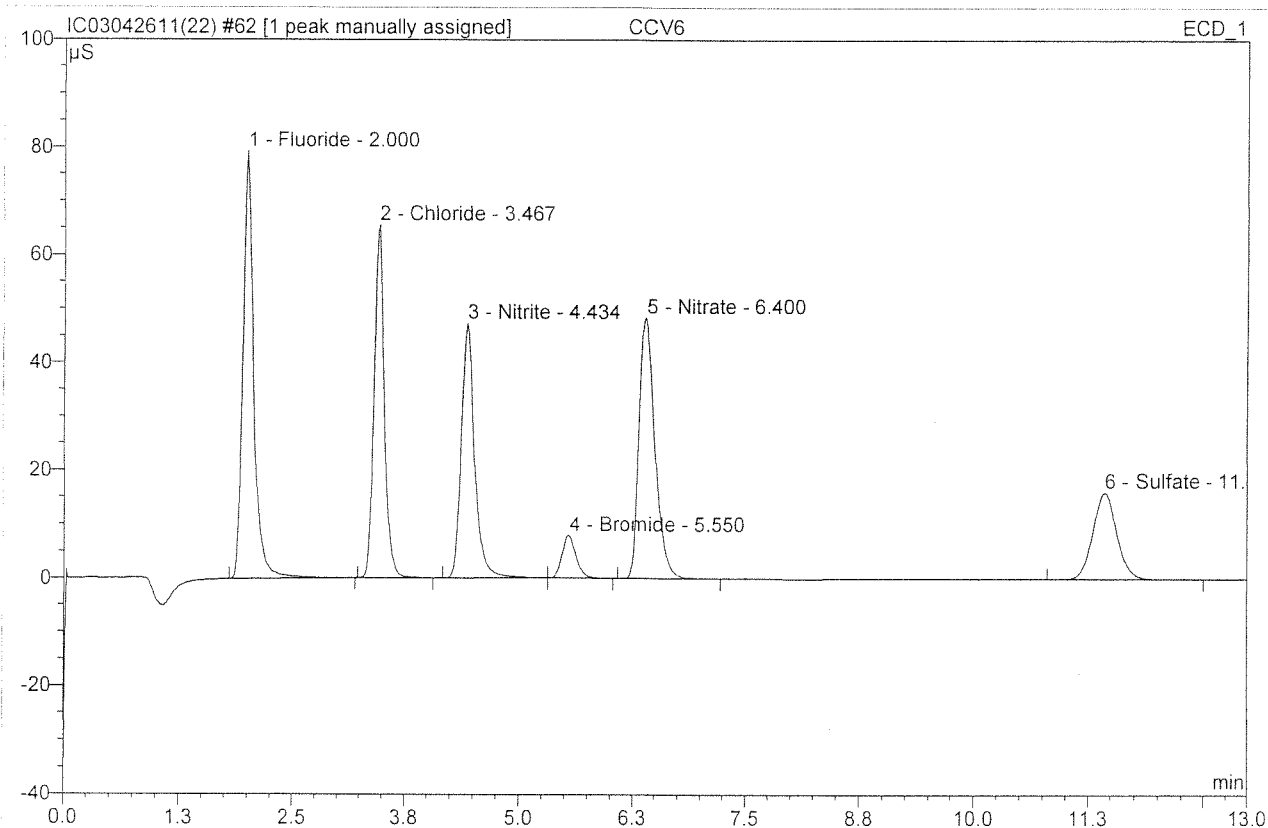
Before

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62 CCV6

CCV6

Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	62	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 21:28	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



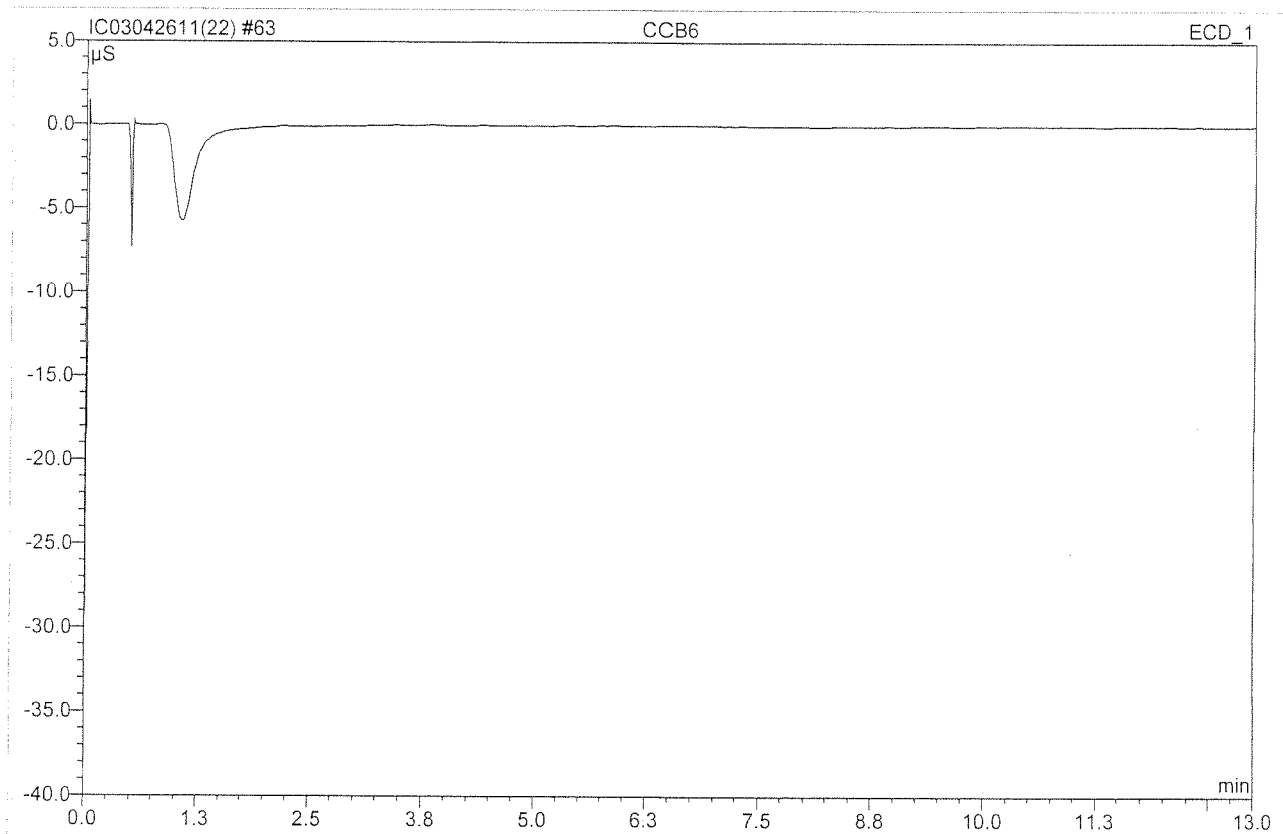
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.00	Fluoride	79.388	11.141	25.37	102 5.090	BMB
2	3.47	Chloride	65.582	8.682	19.77	103 5.134	BMB
3	4.43	Nitrite	47.232	7.973	18.15	102 2.545	BMB
4	5.55	Bromide	7.915	1.401	3.19	95 2.370	bMB
5	6.40	Nitrate	48.329	9.739	22.18	91 2.349	BMB^
6	11.43	Sulfate	16.104	4.984	11.35	73 4.642	BMB
Total:			264.550	43.920	100.00	22.132	

After Initials nb

APR 27 2011

Handwritten signature

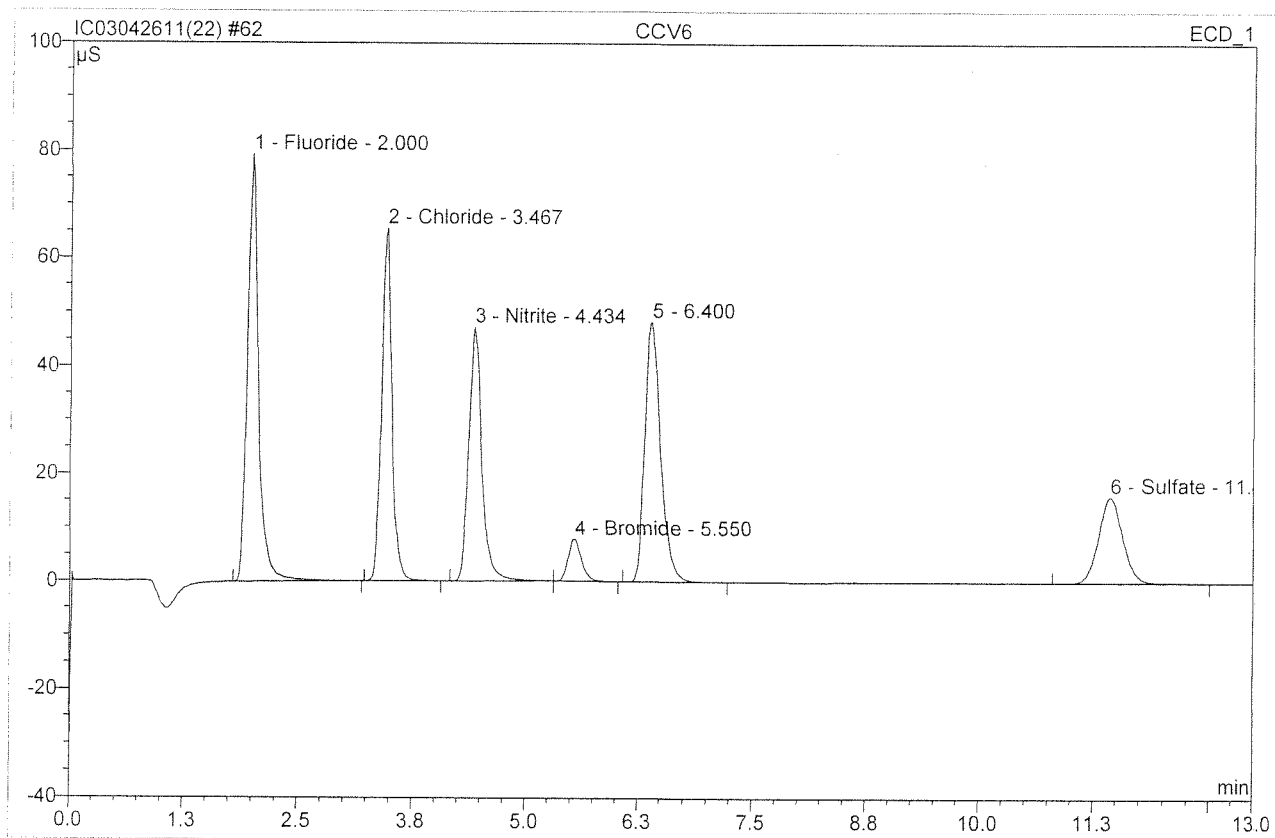
63 CCB6			
CCB6			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	63	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 21:44	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

62 CCV6**CCV6**

Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	62	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/26/2011 21:28	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	79.388	11.141	25.37	5.090	BMB
2	3.47	Chloride	65.582	8.682	19.77	5.134	BMB
3	4.43	Nitrite	47.232	7.973	18.15	2.545	BMb
4	5.55	Bromide	7.915	1.401	3.19	2.370	bMB
5	6.40	n.a.	48.329	9.739	22.18	n.a.	BMB
6	11.43	Sulfate	16.104	4.984	11.35	4.642	BMB
Total:			264.550	43.920	100.00	19.782	

Before

APR 27 2011

COLUMBIA ANALYTICAL SERVICES, INC.
Ion Chromatography Calibration Data

Sequence: IC03042211C(22)

Date: 04/22/11

Anion	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Level 7	Level 8	Corr.Coeff	Slope
F	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9768	2.1887
Cl	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9557	1.6909
NO2	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.9944	3.1325
Br	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.9338	0.5912
NO3	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.8405	4.1453
SO4	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9252	1.0736

All calibration standard concentrations are in mg/L, unless otherwise noted.
 Zero point forced through zero.

No.	Peak Name	Cal.Type	#Points	Rel.Std.Dev	Corr.Coeff.	Offset	Slope	Curve
				%	%			
1	Fluoride	Lin	7	2.5116	99.9768	0	2.1887	0
2	Chloride	Lin	8	4.8836	99.9557	0	1.6909	0
3	Nitrite	Lin	6	2.198	99.9944	0	3.1325	0
4	Bromide	Lin	6	6.2266	99.9338	0	0.5912	0
5	Nitrate	Lin	6	10.8585	99.8405	0	4.1453	0
6	Sulfate	Lin	8	5.775	99.9252	0	1.0736	0
Average:			6.83333	5.4089	99.9377	0	2.137	0

AN11-68-A 100PPM NO2, BR, NO3

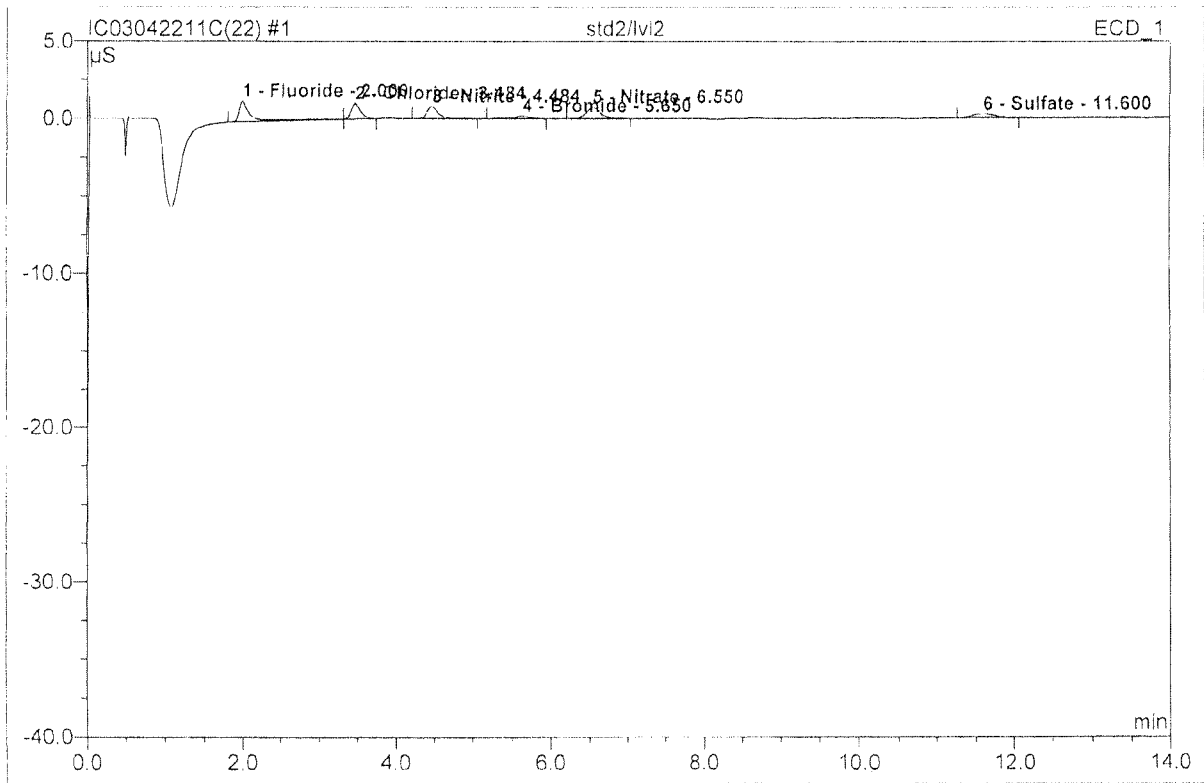
AN11-68-B 100PPM F, CL, SO4

mL added

	AN11-68-C	AN11-68-D	AN11-68-E	AN11-68-F	AN11-68-G	AN11-68-H	AN11-68-I	
	STD2	STD3	STD4	STD5	STD6	STD7	STD8	STD1
F	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
CL	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
SO4	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
NO2	0.050	0.100	0.500	1.000	2.00	5.00	--	0
NO3	0.050	0.100	0.500	1.000	2.00	5.00	--	0
BR	0.050	0.100	0.500	1.000	2.00	5.00	--	0

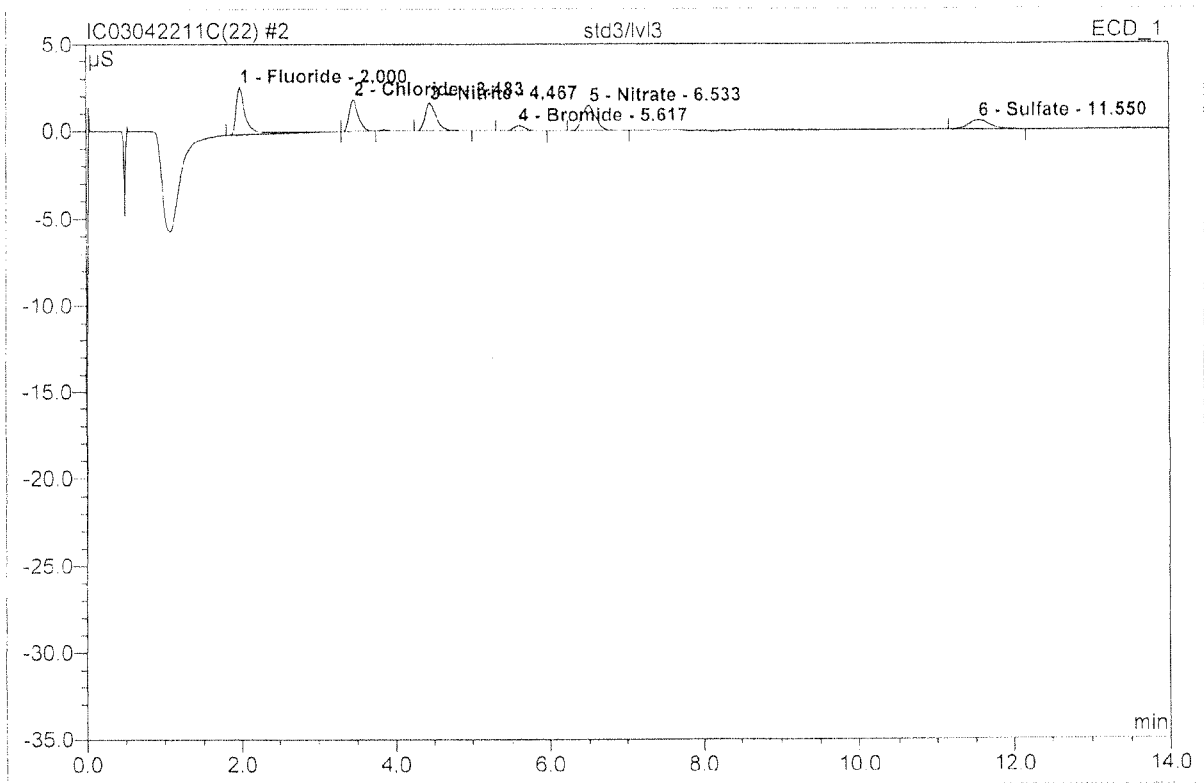
at 4.25 ml
cc 4/25/11

1 std2/lvl2			
Sample Name:	std2/lvl2	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:16	Sample Weight:	1.0000
Run Time (min):	14.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	1.362	0.247	30.61	0.113	BMB
2	3.48	Chloride	1.023	0.143	17.77	0.085	bMB
3	4.48	Nitrite	0.790	0.142	17.56	0.045	BMB
4	5.65	Bromide	0.152	0.031	3.84	0.052	BMB
5	6.55	Nitrate	0.740	0.156	19.34	0.038	BMB
6	11.60	Sulfate	0.270	0.088	10.89	0.082	BMB
Total:			4.338	0.806	100.00	0.414	

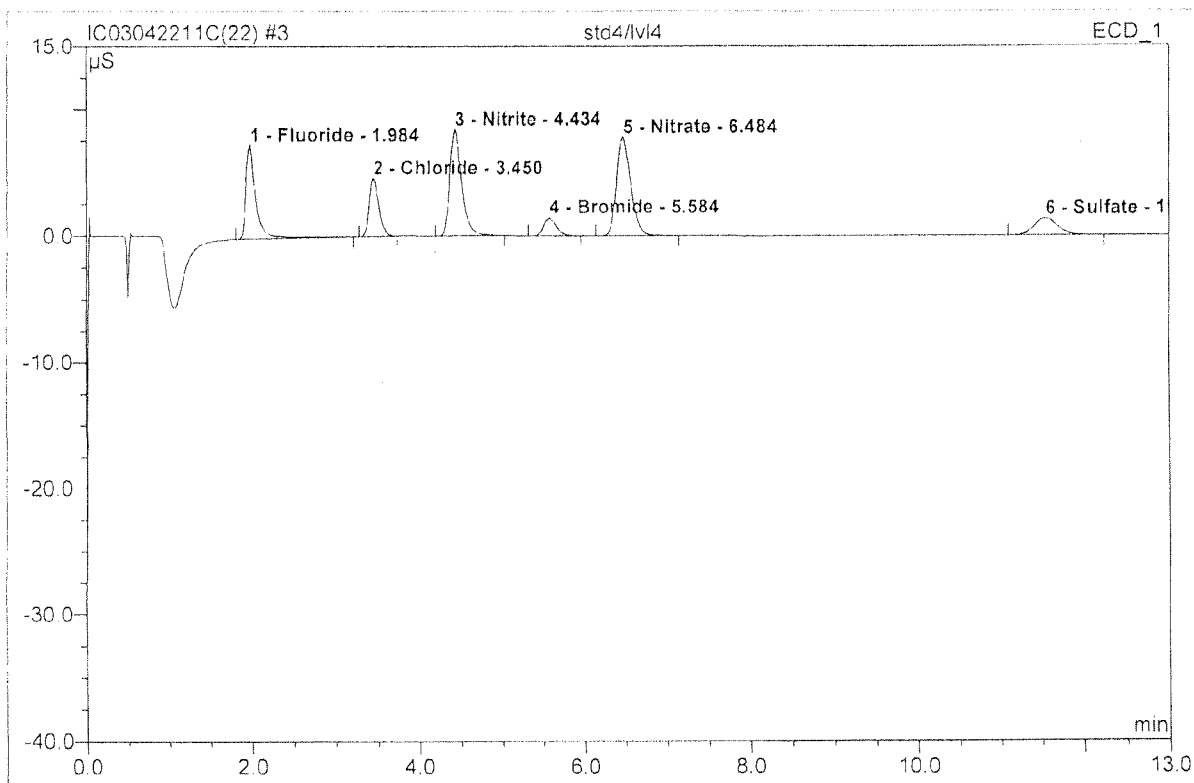
2 std3/lvl3			
Sample Name:	std3/lvl3	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:33	Sample Weight:	1.0000
Run Time (min):	14.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.00	Fluoride	2.733	0.430	28.80	0.196	BMB
2	3.48	Chloride	1.819	0.253	16.94	0.150	bMB
3	4.47	Nitrite	1.597	0.274	18.33	0.087	BMB
4	5.62	Bromide	0.299	0.055	3.70	0.093	BMB
5	6.53	Nitrate	1.467	0.307	20.57	0.074	BMB
6	11.55	Sulfate	0.523	0.174	11.67	0.162	BMB
Total:			8.437	1.493	100.00	0.763	

3 std4/lvl4

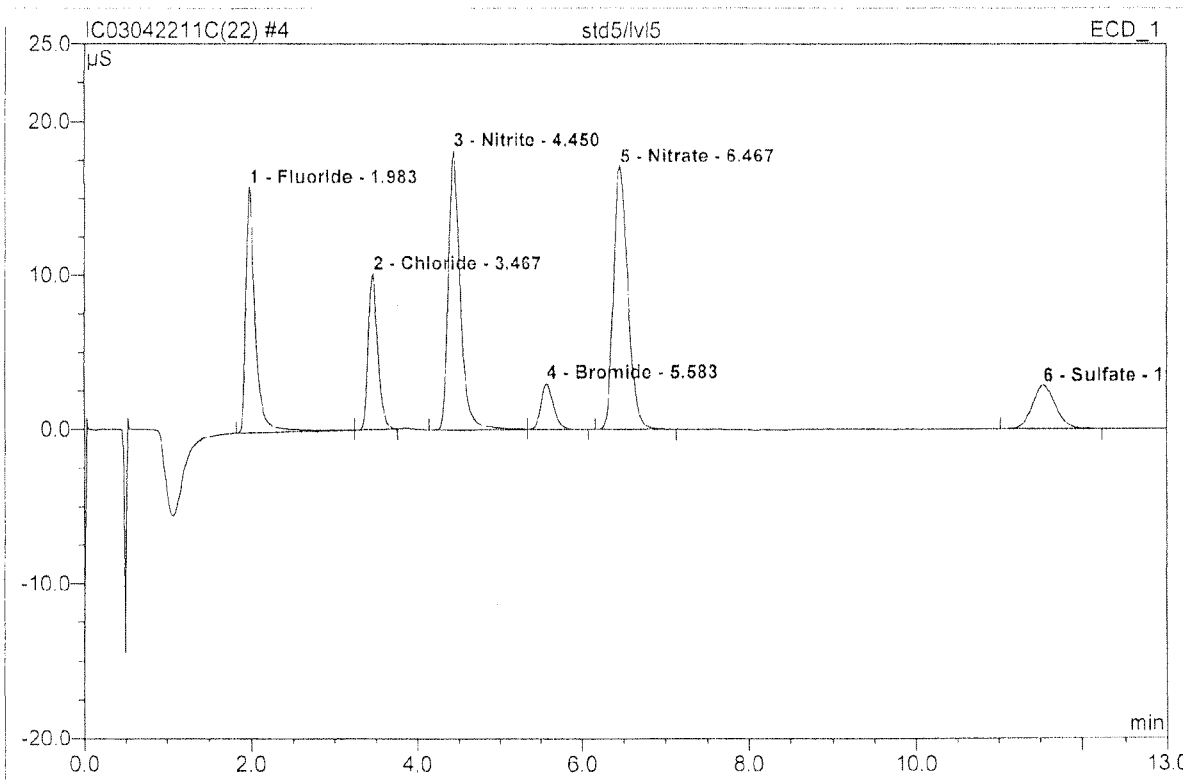
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 14:49	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	7.391	1.014	19.10	0.464	BMB
2	3.45	Chloride	4.603	0.629	11.85	0.372	BMB
3	4.43	Nitrite	8.416	1.406	26.46	0.449	BMB
4	5.58	Bromide	1.435	0.258	4.86	0.437	BMB
5	6.48	Nitrate	7.797	1.567	29.50	0.378	BMB
6	11.53	Sulfate	1.329	0.437	8.23	0.407	BMB
Total:			30.971	5.312	100.00	2.507	

4 std5/lv15

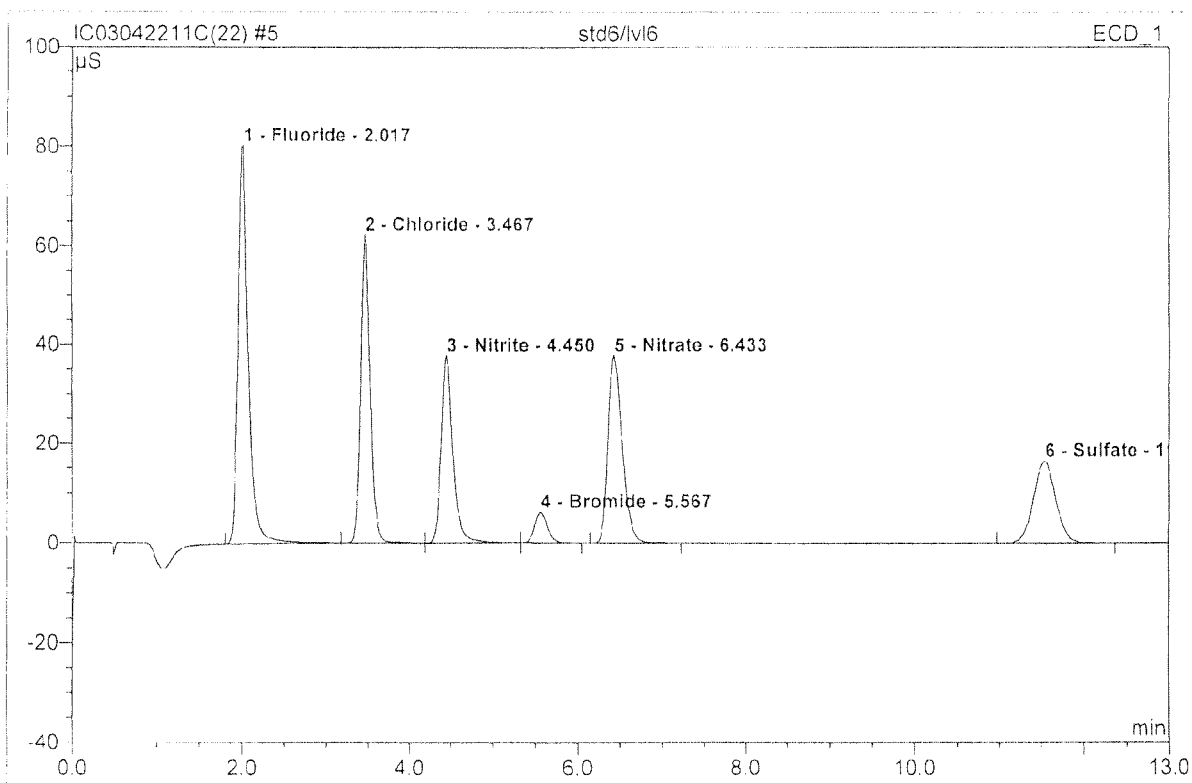
Sample Name:	std5/lv15	Injection Volume:	200.0
Vial Number:	3	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:05	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.98	Fluoride	15.962	2.099	18.63	0.959	BMb
2	3.47	Chloride	10.090	1.354	12.02	0.801	bMB
3	4.45	Nitrite	18.132	3.000	26.63	0.958	BMb
4	5.58	Bromide	2.975	0.532	4.73	0.901	bMB
5	6.47	Nitrate	17.099	3.378	29.99	0.815	BMB
6	11.53	Sulfate	2.769	0.900	7.99	0.838	BMB
Total:			67.028	11.263	100.00	5.271	

5 std6/lvl6

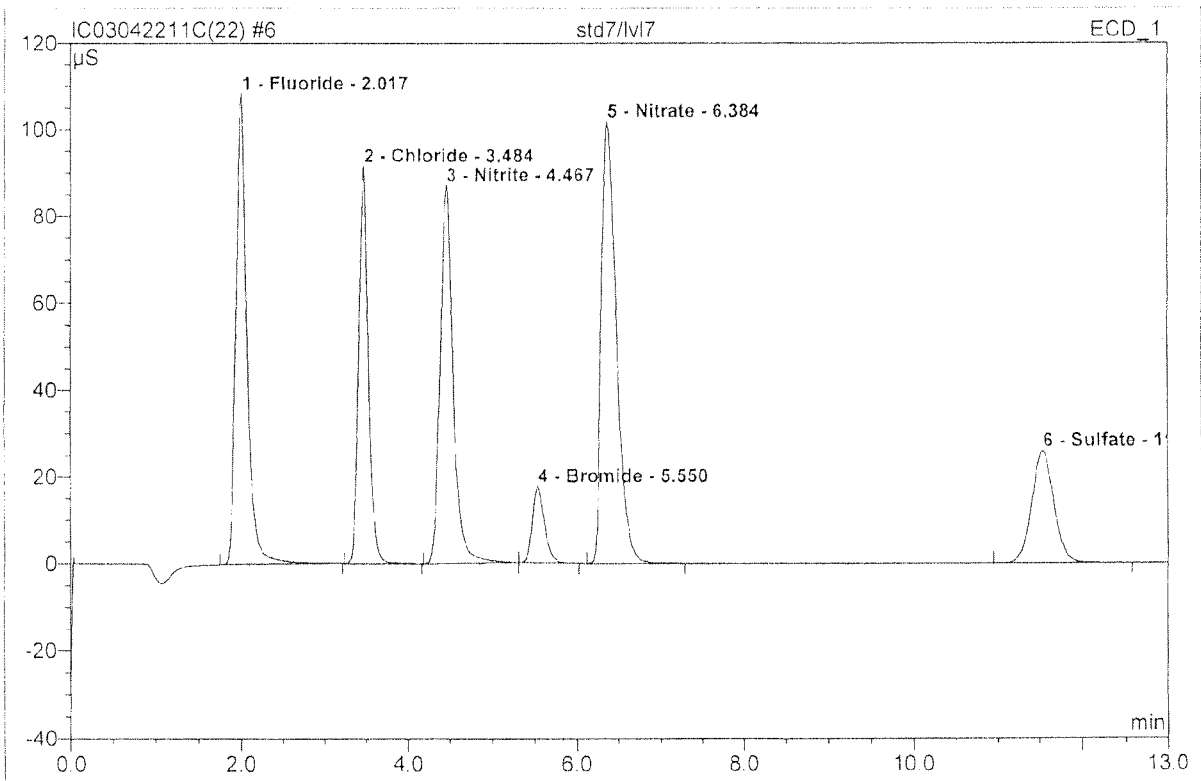
Sample Name:	std6/lvl6	Injection Volume:	200.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:20	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	80.363	11.246	28.70	5.139	BMB
2	3.47	Chloride	62.240	8.112	20.70	4.797	BMB
3	4.45	Nitrite	37.725	6.247	15.94	1.994	bMb
4	5.57	Bromide	6.258	1.103	2.81	1.866	bMB
5	6.43	Nitrate	37.726	7.429	18.96	1.792	BMB
6	11.55	Sulfate	16.353	5.052	12.89	4.705	BMB
Total:			240.665	39.189	100.00	20.293	

6 std7/lvl7

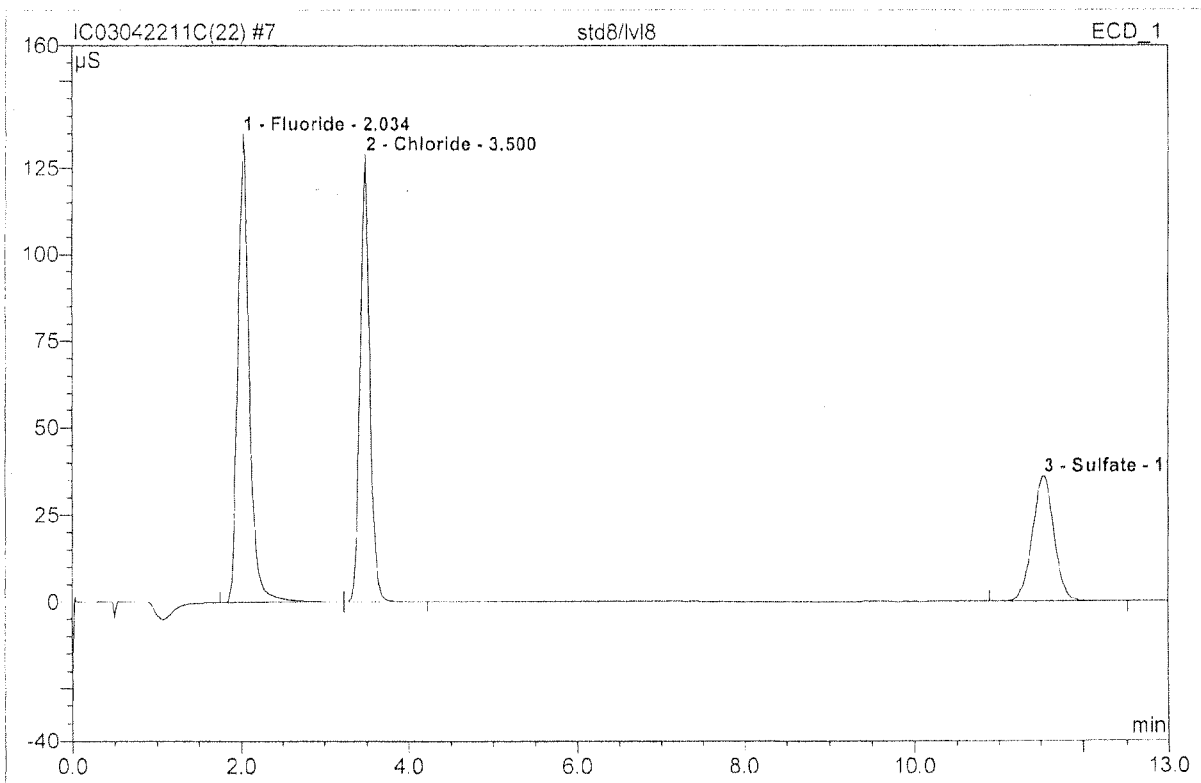
Sample Name:	std7/lvl7	Injection Volume:	200.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:35	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.02	Fluoride	108.532	16.601	21.55	7.585	BMB
2	3.48	Chloride	91.544	12.525	16.26	7.407	BMB
3	4.47	Nitrite	87.092	15.713	20.40	5.016	BMB
4	5.55	Bromide	17.617	3.003	3.90	5.080	bMB
5	6.38	Nitrate	101.819	21.278	27.62	5.133	BMB
6	11.55	Sulfate	25.898	7.920	10.28	7.377	BMB
Total:			432.501	77.040	100.00	37.598	

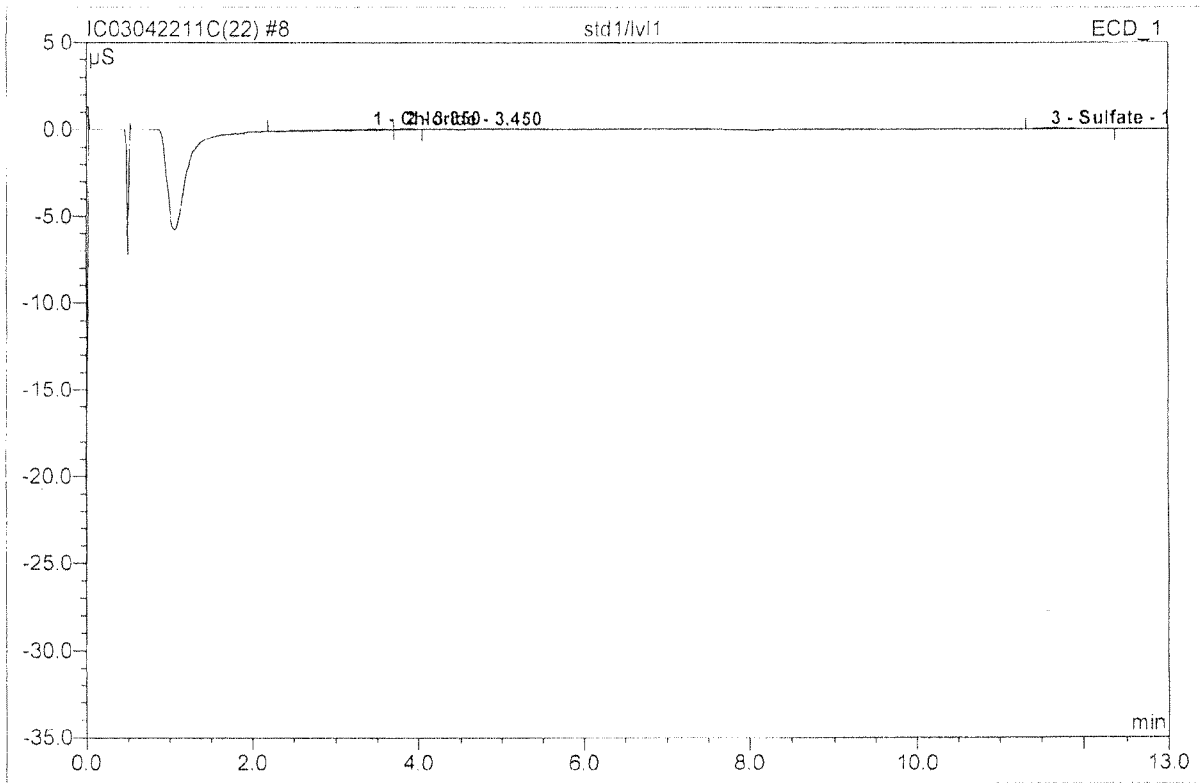
7 std8/lvl8

Sample Name:	std8/lvl8	Injection Volume:	200.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 15:51	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



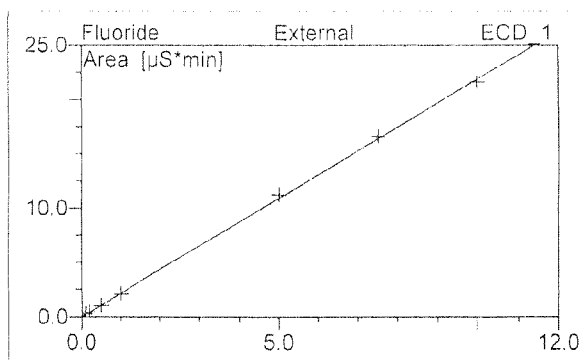
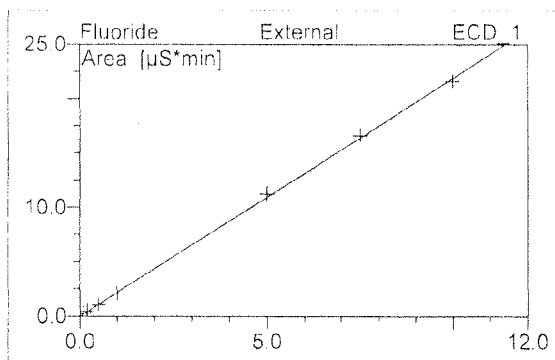
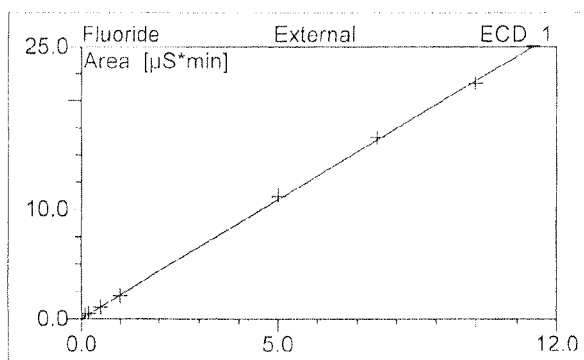
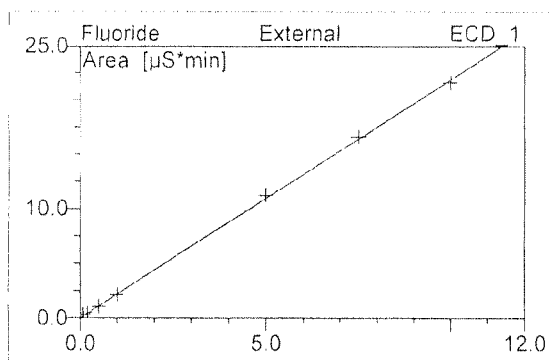
No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	2.03	Fluoride	134.891	21.609	43.33	9.873	BMB
2	3.50	Chloride	128.899	17.245	34.58	10.199	bMB
3	11.55	Sulfate	36.064	11.017	22.09	10.262	BMB
Total:			299.854	49.871	100.00	30.333	

8 std1/lvl1			
Sample Name:	std1/lvl1	Injection Volume:	200.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 16:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	0.047	0.011	22.71	0.007	BMB
2	3.85	n.a.	0.077	0.011	21.82	n.a.	bMB
3	11.62	Sulfate	0.071	0.028	55.47	0.026	BMB
Total:			0.195	0.050	100.00	0.032	

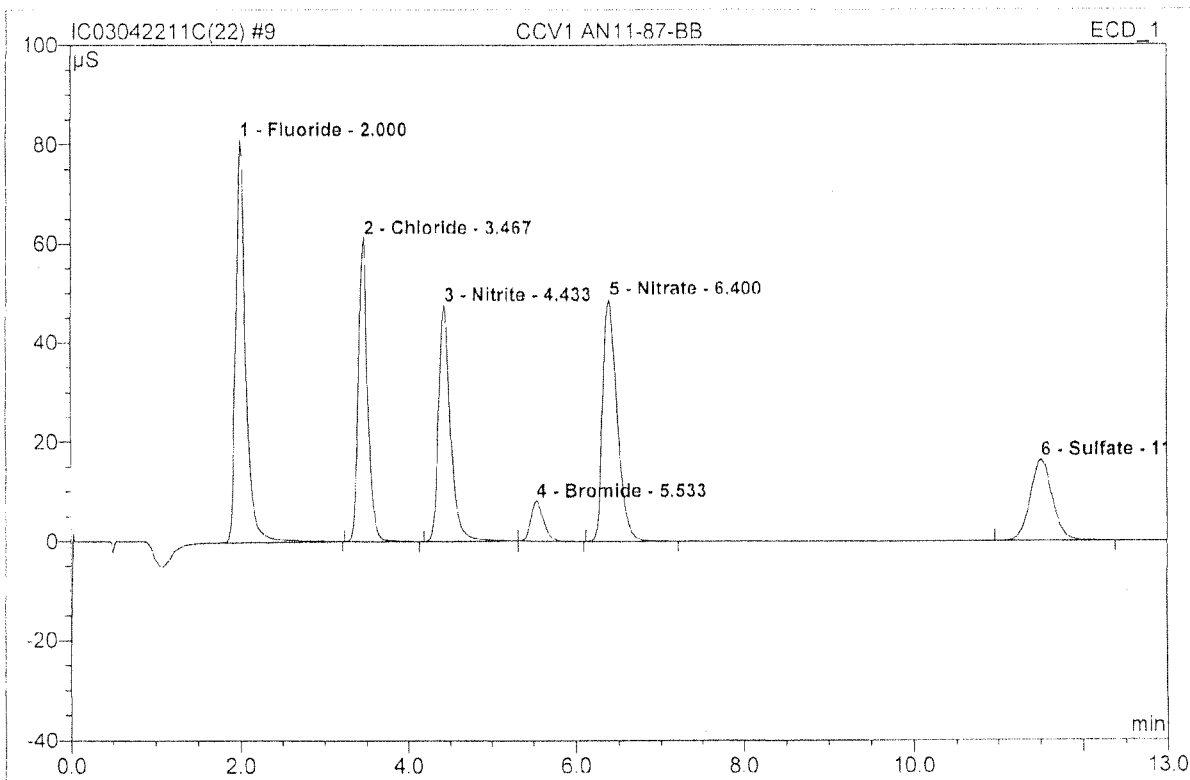
8 std1/lvl1			
Sample Name:	std1/lvl1	Injection Volume:	200.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 16:06	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Cal.Type	Points	Corr.Coeff. %	Offset	Slope	Curve
1	3.45	Chloride	Lin	8	99.9557	0.0000	1.6909	0.0000
2	3.85	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
3	11.62	Sulfate	Lin	8	99.9252	0.0000	1.0736	0.0000
Average:					99.9405	0.0000	1.3823	0.0000

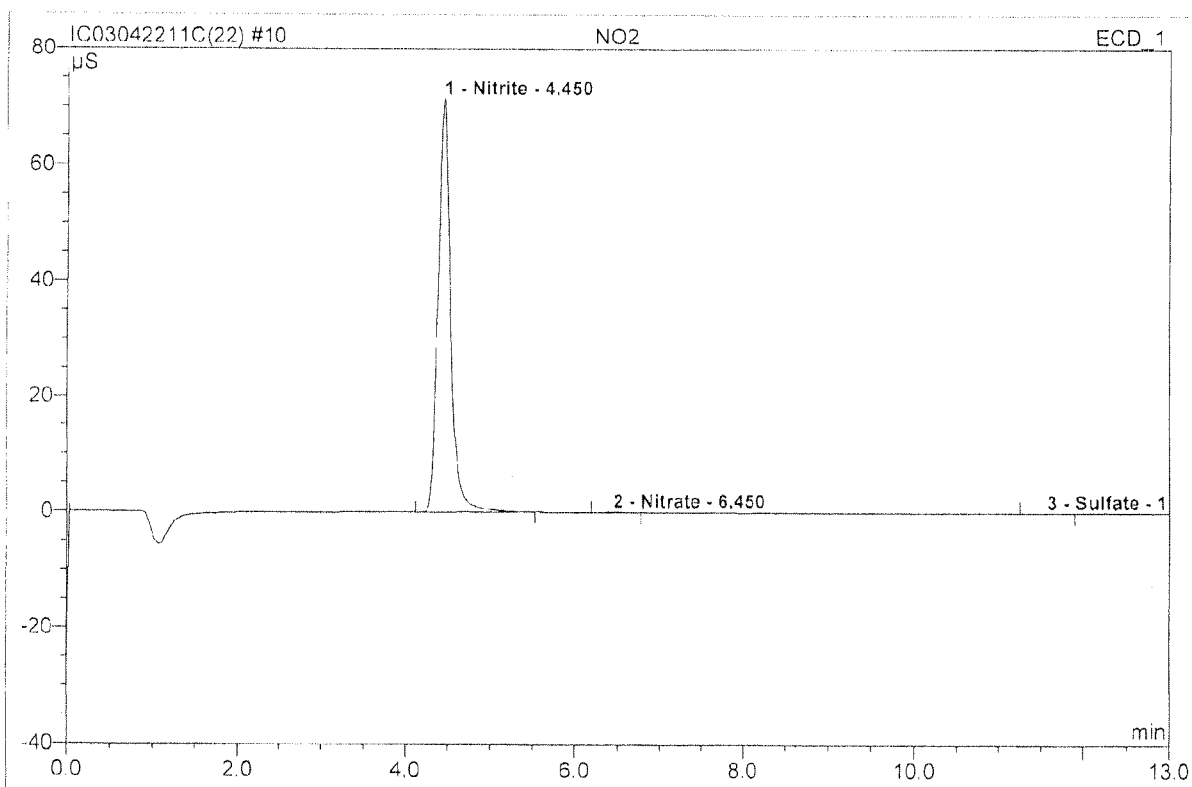
9 CCV1 AN11-87-BB

Sample Name:	CCV1 AN11-87-BB	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 16:22	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	2.00	Fluoride	81.028	11.211	26.01	5.122	BMB
2	3.47	Chloride	61.141	7.930	18.40	4.690	BMB
3	4.43	Nitrite	47.467	7.898	18.32	2.521	BMB
4	5.53	Bromide	7.997	1.390	3.23	2.351	bMB
5	6.40	Nitrate	48.706	9.656	22.40	2.329	BMB
6	11.52	Sulfate	16.250	5.018	11.64	4.674	BMB
Total:			262.589	43.103	100.00	21.688	

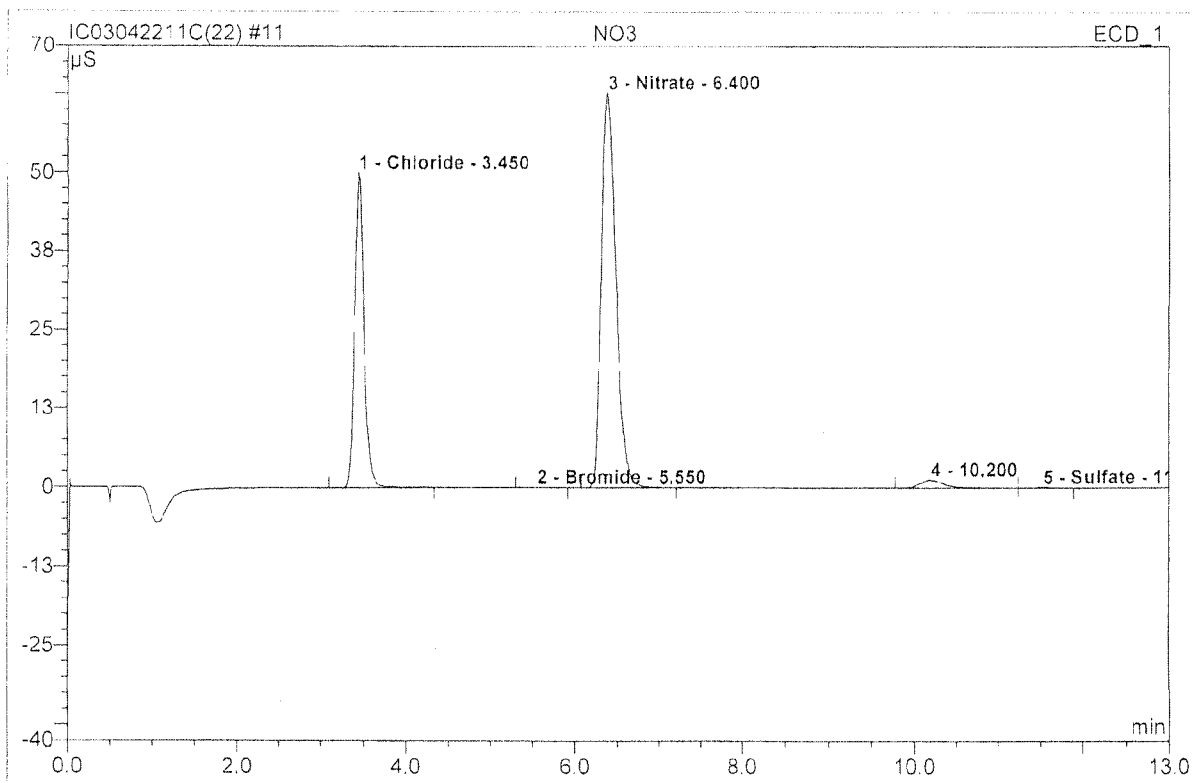
10 NO2			
Sample Name:	NO2	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	4/22/2011 16:37	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.45	Nitrite	71.486	12.533	99.72	100.022	BMB
2	6.45	Nitrate	0.123	0.025	0.20	0.152	BMB
3	11.57	Sulfate	0.034	0.010	0.08	0.240	BMB
Total:			71.643	12.568	100.00	100.413	

11 NO3

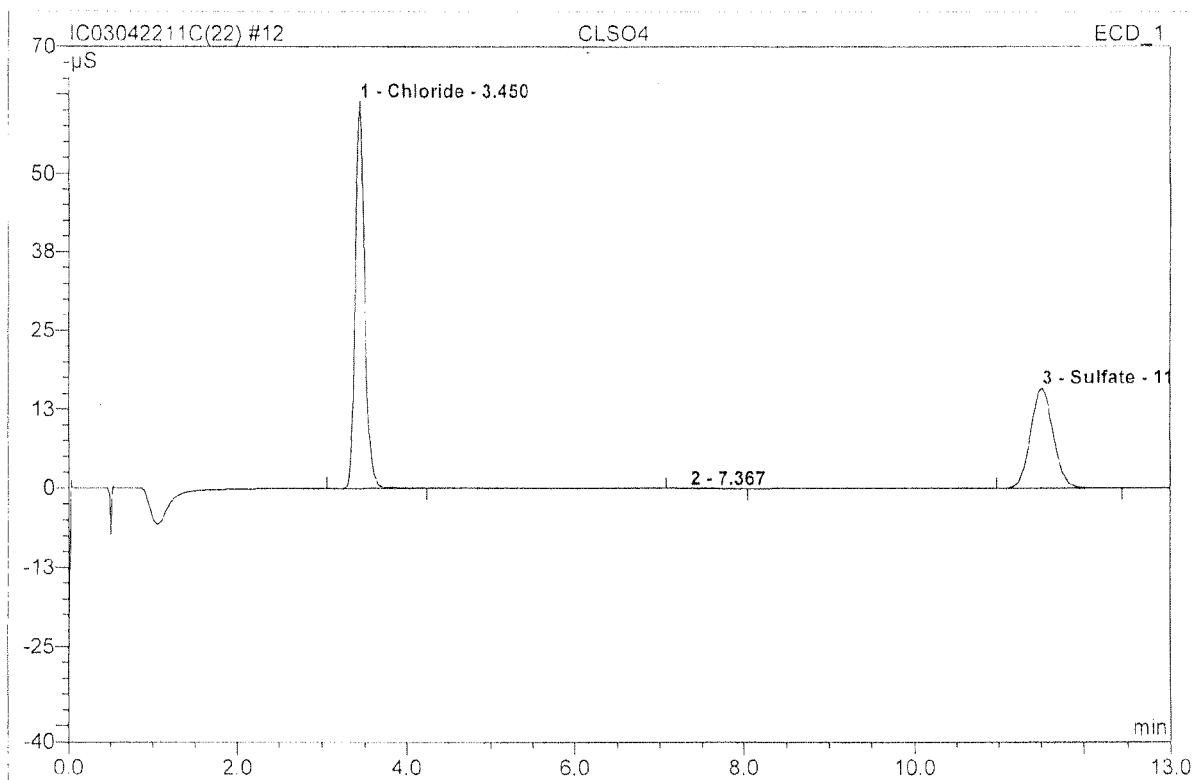
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	4/22/2011 16:53	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	49.960	6.399	32.70	18.922	BMB
2	5.55	Bromide	0.048	0.010	0.05	0.088	BMB
3	6.40	Nitrate	62.646	12.702	64.90	10} 15.321	BMB
4	10.20	n.a.	1.223	0.439	2.24	n.a.	BMB
5	11.53	Sulfate	0.064	0.021	0.11	0.100	bMB
Total:			113.941	19.572	100.00	34.431	

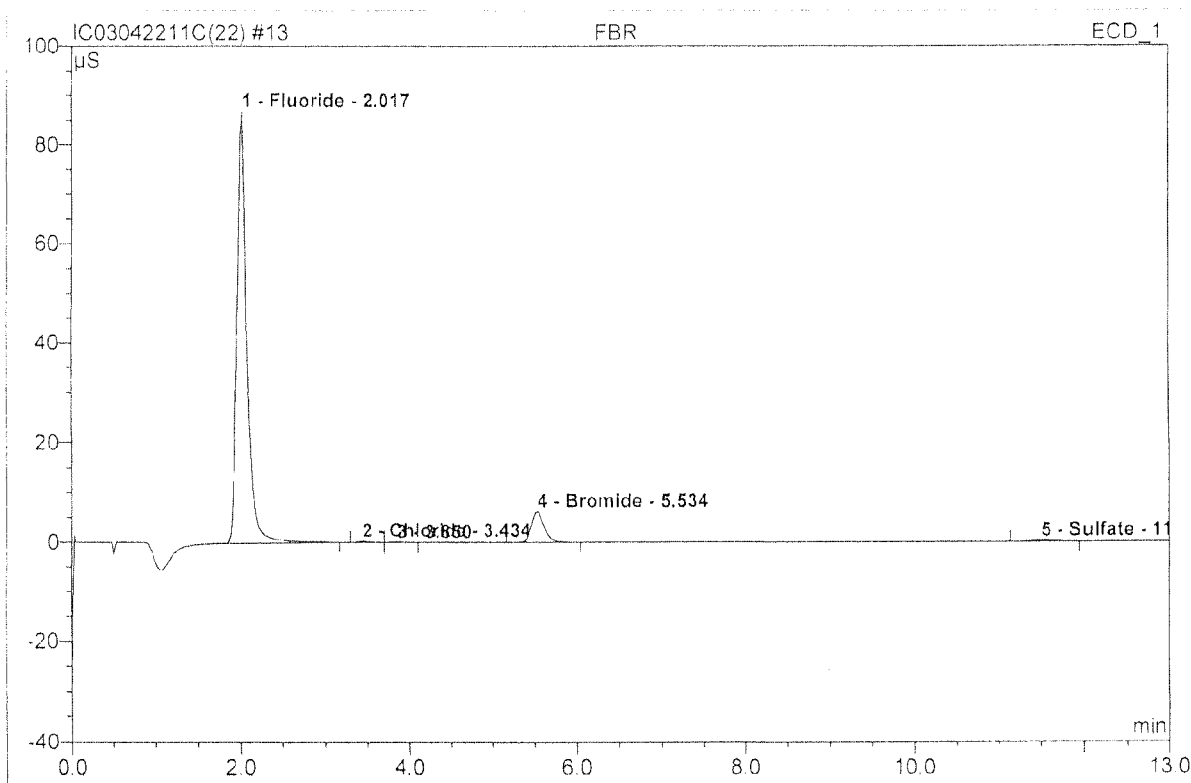
12 CLSO4

Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	4/22/2011 17:08	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.45	Chloride	61.459	7.776	61.23	4.599	BMB
2	7.37	n.a.	0.031	0.020	0.16	n.a.	BMB
3	11.52	Sulfate	15.818	4.904	38.61	4.567	BMB
Total:			77.308	12.700	100.00	9.166	

13 FBR			
Sample Name:	FBR	Injection Volume:	200.0
Vial Number:	16	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300(22)	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	4/22/2011 17:24	Sample Weight:	1.0000
Run Time (min):	13.00	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	2.02	Fluoride	87.015	11.882	90.76	10.858	BMB
2	3.43	Chloride	0.229	0.030	0.23	0.036	BMB
3	3.85	n.a.	0.086	0.013	0.10	n.a.	bMB
4	5.53	Bromide	6.210	1.091	8.34	3.692	BMB
5	11.50	Sulfate	0.234	0.074	0.57	0.139	BMB
Total:			93.774	13.091	100.00	14.724	

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 244974

Method/Testcode: 350.1/Ammonia D

h Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
103574-001	Ammonia as Nitrogen, Dissolved	N/A		Water	-0.01 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
103574-002	Ammonia as Nitrogen, Dissolved	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
103574-003	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
103574-004	Ammonia as Nitrogen, Dissolved	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
103574-005	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
103574-006	Ammonia as Nitrogen, Dissolved	N/A		Water	0.02 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
103574-007	Ammonia as Nitrogen, Dissolved	N/A		Water	4.80 mg/L	5 mL	4.80 mg/L	1	0.020	0.050			5/5/11 15:00:00	N	IV
103574-008	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
103574-009	Ammonia as Nitrogen, Dissolved	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
103668-002	Ammonia as Nitrogen	N/A		Water	0.80 mg/L	5 mL	0.80 mg/L	1	0.02	0.10			5/5/11 15:00:00	N	V
103668-001	Ammonia as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.029 mg/L J	1	0.020	0.050			5/5/11 15:00:00	N	II
103668-002	Ammonia as Nitrogen	N/A		Water	1.43 mg/L	5 mL	35.8 mg/L	25	0.5	1.3			5/5/11 15:00:00	N	II
103668-003	Ammonia as Nitrogen	N/A		Water	1.26 mg/L	5 mL	31.5 mg/L	25	0.5	1.3			5/5/11 15:00:00	N	II
103668-006	Ammonia as Nitrogen	N/A		Water	1.02 mg/L	5 mL	5.10 mg/L	5	0.10	0.25			5/5/11 15:00:00	N	II
103668-007	Ammonia as Nitrogen	N/A		Water	0.58 mg/L	5 mL	0.582 mg/L	1	0.020	0.050			5/5/11 15:00:00	N	II
103668-008	Ammonia as Nitrogen	N/A		Water	0.59 mg/L	5 mL	0.591 mg/L	1	0.020	0.050			5/5/11 15:00:00	N	II
103668-009	Ammonia as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.031 mg/L J	1	0.020	0.050			5/5/11 15:00:00	N	II
103668-011	Ammonia as Nitrogen	N/A		Water	0.08 mg/L	5 mL	0.082 mg/L	1	0.020	0.050			5/5/11 15:00:00	N	II
103668-012	Ammonia as Nitrogen	N/A		Water	1.69 mg/L	5 mL	16.9 mg/L	10	0.20	0.50			5/5/11 15:00:00	N	II
103668-013	Ammonia as Nitrogen	N/A		Water	1.25 mg/L	5 mL	31.3 mg/L	25	0.5	1.3			5/5/11 15:00:00	N	II
103944-001	Ammonia as Nitrogen	N/A		Water	0.10 mg/L	5 mL	0.101 mg/L	1	0.020	0.050			5/5/11 15:00:00	N	I
21104065-01	Ammonia as Nitrogen, Dissolved	MS	K1103574-001	Water	2.04 mg/L	5 mL	2.04 mg/L	1	0.020	0.050		102	5/5/11 15:00:00	N	IV
21104065-02	Ammonia as Nitrogen, Dissolved	DMS	K1103574-001	Water	2.06 mg/L	5 mL	2.06 mg/L	1	0.020	0.050		<1	5/5/11 15:00:00	N	IV
21104065-03	Ammonia as Nitrogen, Dissolved	DUP	K1103574-001	Water	-0.01 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050		NC	5/5/11 15:00:00	N	IV
21104065-04	Ammonia as Nitrogen	MS	K1103666-002	Water	2.86 mg/L	5 mL	2.86 mg/L	1	0.020	0.050		103	5/5/11 15:00:00	N	V
21104065-05	Ammonia as Nitrogen	DMS	K1103666-002	Water	2.85 mg/L	5 mL	2.85 mg/L	1	0.020	0.050		103	5/5/11 15:00:00	N	V
21104065-06	Ammonia as Nitrogen	DUP	K1103666-002	Water	0.79 mg/L	5 mL	0.794 mg/L	1	0.020	0.050		<1	5/5/11 15:00:00	N	V
21104065-10	Ammonia as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-10	Ammonia as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-10	Ammonia as Nitrogen, Dissolved	MB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.020	0.050			5/5/11 15:00:00	N	IV

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 5/6/11 8:25

Results Summary

05/05/11
Thanganu

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 244974

Method/Testcode: 350.1/Ammonia T

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC?	Tier
21104065-11	Ammonia as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-11	Ammonia as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-11	Ammonia as Nitrogen, Dissolved	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-12	Ammonia as Nitrogen	LCS		Water	1.35 mg/L	5 mL	13.5 mg/L	10	0.20	0.50	97		5/5/11 15:00:00	N	IV
21104065-12	Ammonia as Nitrogen	LCS		Water	1.35 mg/L	5 mL	13.5 mg/L	10	0.20	0.50	97		5/5/11 15:00:00	N	IV
21104065-12	Ammonia as Nitrogen, Dissolved	LCS		Water	1.35 mg/L	5 mL	13.5 mg/L	10	0.20	0.50	97		5/5/11 15:00:00	N	IV
21104065-13	Ammonia as Nitrogen	LCS		Water	1.35 mg/L	5 mL	13.5 mg/L	10	0.20	0.50	97		5/5/11 15:00:00	N	IV
21104065-13	Ammonia as Nitrogen	LCS		Water	1.35 mg/L	5 mL	13.5 mg/L	10	0.20	0.50	97		5/5/11 15:00:00	N	IV
21104065-13	Ammonia as Nitrogen, Dissolved	LCS		Water	1.35 mg/L	5 mL	13.5 mg/L	10	0.20	0.50	97		5/5/11 15:00:00	N	IV
21104065-14	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-14	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-14	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-15	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-15	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-15	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-16	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-16	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-16	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-17	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-17	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-17	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-18	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-18	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-18	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-19	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-19	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-19	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-20	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-20	Ammonia as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-20	Ammonia as Nitrogen, Dissolved	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N	IV
21104065-21	Ammonia as Nitrogen	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1	100%				5/5/11 15:00:00	N	IV

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Printed 5/6/11 8:25

Results Summary

Page 2 of 3

05/05/11
Thanganu

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 244974

Method/Testcode: SM 4500-NH3 G/Ammonia

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
21104065-21	Ammonia as Nitrogen	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1	100%				5/5/11 15:00:00	N IV
21104065-21	Ammonia as Nitrogen, Dissolved	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1					5/5/11 15:00:00	N IV
21104065-22	Ammonia as Nitrogen	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1					5/5/11 15:00:00	N IV
21104065-22	Ammonia as Nitrogen, Dissolved	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1					5/5/11 15:00:00	N IV
21104065-23	Ammonia as Nitrogen	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1					5/5/11 15:00:00	N IV
21104065-23	Ammonia as Nitrogen, Dissolved	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1					5/5/11 15:00:00	N IV
21104065-24	Ammonia as Nitrogen	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1					5/5/11 15:00:00	N IV
21104065-24	Ammonia as Nitrogen, Dissolved	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1					5/5/11 15:00:00	N IV
21104065-25	Ammonia as Nitrogen	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1					5/5/11 15:00:00	N IV
21104065-25	Ammonia as Nitrogen, Dissolved	CCV		Water	2.00 mg/L	5 mL	2.00 mg/L	1					5/5/11 15:00:00	N IV
21104065-26	Ammonia as Nitrogen	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1					5/5/11 15:00:00	N IV
21104065-26	Ammonia as Nitrogen, Dissolved	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1					5/5/11 15:00:00	N IV
21104065-27	Ammonia as Nitrogen	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1					5/5/11 15:00:00	N IV
21104065-27	Ammonia as Nitrogen, Dissolved	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1					5/5/11 15:00:00	N IV
21104065-28	Ammonia as Nitrogen	N/A		Water	-0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N II
21104065-29	Ammonia as Nitrogen	MS	KQ1104065-28	Water	2.04 mg/L	5 mL	2.04 mg/L	1	0.020	0.050	102		5/5/11 15:00:00	N II
21104065-30	Ammonia as Nitrogen	DMS	KQ1104065-28	Water	2.06 mg/L	5 mL	2.06 mg/L	1	0.020	0.050	103	<1	5/5/11 15:00:00	N II
21104065-31	Ammonia as Nitrogen	DUP	KQ1104065-28	Water	-0.01 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			5/5/11 15:00:00	N II

LC8 ID#: P03/3-79-1
Spike ID#: B3+LNH3/2-3-C
Curve, CV ID#: B3+LNH3/2-21-C
MB MS = 2.00
TV = 13.9
TV = 2.00
TV = 2.00

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Results Summary

05/10/11


BRAN+LUEBBE

Post-run report

Name of Run : 110505B
 Date of Report : 5/5/2011
 Date of Run : 5/5/2011
 Operator :
 Comment :

Name of Analysis : Ammonia
 System No. : 1
 Type of System : AA3
 Start/Stop time : 15:00 - 16:45

Channel : 2
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. : 1.0000
 Base : -24499
 Gain : 18
 Sensitivity : 0.4808
 Sample Limit 1 :
 Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0086
1	1	P Primer	4.9902
2	1	D Drift	4.9969
3	1	C 5.00	4.9979
4	2	C 2.00	2.0028
5	3	C 0.50	0.5100
6	4	C 0.05	0.0478
7	5	C 0	0.0001
8	0	B Baseline	-0.0086
9	1	H1 High	4.9901
10	0	L1 Low	-0.0036
11	0	L1 Low	-0.0035
12	5	QC2 CCB1	-0.0007
13	2	QC1 CCV1	1.9956
14	10	QC3 LCS1*10	1.3488
15	11	S MB MS	2.0380
16	0	N Null	-0.0038N
17	5	QC2 MB1	-0.0042
18	12	S k1103574-001	-0.0086
19	13	S k1103574-001d	-0.0075
20	14	S k1103574-001ms	2.0424
21	15	S k1103574-001msd	2.0597
22	16	S k1103574-002	0.0051
23	0	B Baseline	-0.0086
24	5	QC2 CCB2	-0.0022
25	2	QC1 CCV2	1.9964
26	17	S k1103574-003	0.0001

2.04 102%

diss.
 ↓

diss.

*05/05/11
 Ferguson*

27	18	S	k1103574-004	0.0176
28	19	S	k1103574-005	-0.0045
29	20	S	k1103574-006	0.0171
30	21	S	k1103574-007	4.8012
31	22	S	k1103574-008	-0.0031
32	23	S	k1103574-009	-0.0018
33	24	S	k1103666-002	0.7954
34	25	S	k1103666-002d	0.7943
35	0	B	BASELINE	-0.0086
36	5	QC2	CCB-3	-0.0029
37	2	QC1	CCV-3	1.9955
38	26	S	k1103666-002ms	2.8621
39	27	S	k1103666-002msd	2.8537
40	28	S	k1103668-001	0.0290
41	29	S	k1103668-002*25	1.4311
42	30	S	k1103668-003*25	1.2594
43	31	S	k1103668-004*50	2.0266
44	32	S	k1103668-004d*50	2.0289
45	33	S	k1103668-004ms*100	3.0433
46	34	S	k1103668-004msd*100	3.2263
47	0	B	Baseline	-0.0086
48	5	QC2	CCB4	0.0000
49	2	QC1	CCV4	1.9939
50	10	QC3	LCS2*10	1.3512
51	0	N	Null	-0.0064N
52	5	QC2	MB2	-0.0027
53	35	S	k1103668-005*50	19.4252*
54	36	S	k1103668-006*50	0.1157
55	37	S	k1103668-007*50	0.0307
56	38	S	k1103668-008*50	0.0196
57	39	S	k1103668-009*50	0.0060
58	40	S	k1103668-010*50	0.0210
59	0	B	Baseline	-0.0086
60	5	QC2	CCB5	-0.0013
61	2	QC1	CCV5	2.0002
62	41	S	k1103668-011*50	0.0112
63	42	S	k1103668-012*50	0.3591
64	43	S	k1103668-013*50	0.7771
65	44	S	rinse	-0.0018
66	45	S	k1103944-001	0.1011
67	46	S	rinse	-0.0021
68	47	S	k1103668-006*5	1.0190
69	48	S	k1103668-007	0.5823
70	49	S	k1103668-008	0.5908
71	0	B	Baseline	-0.0086
72	5	QC2	CCB6	-0.0017
73	2	QC1	CCV6	1.9919
74	50	S	k1103668-009	0.0306
75	51	S	k1103668-010	0.8490
76	52	S	k1103668-005*200	5.2708
77	53	S	k1103668-005*100	10.3803*
78	54	S	rinse	0.0032

miss
↓

NR (reanalyzed)

NR

NR
NR

05/05/11
Hawyer

79	55	S	k1103668-011	0.0821
80	56	S	k1103668-012*10	1.6876
81	57	S	k1103668-013*25	1.2526
82	58	S	rinse	-0.0032
83	0	B	Baseline	-0.0086
84	5	QC2	CCB7	-0.0036
85	2	QC1	CCV7	1.9902
86	1	D	Drift	4.9969
87	0	B	Baseline	-0.0086
88	0	B	FinalBase	-0.0086

QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.3

* ... Sample offscale
+ ... Result higher than sample limit
- ... Result lower than sample limit
P ... Standard passed
F ... Standard failed
N ... Value not calculated or not used
R ... Resample after offscale
M ... Peak marker moved manually
D ... Diluted sample

** <END OF REPORT> **

05/05/11
Frury

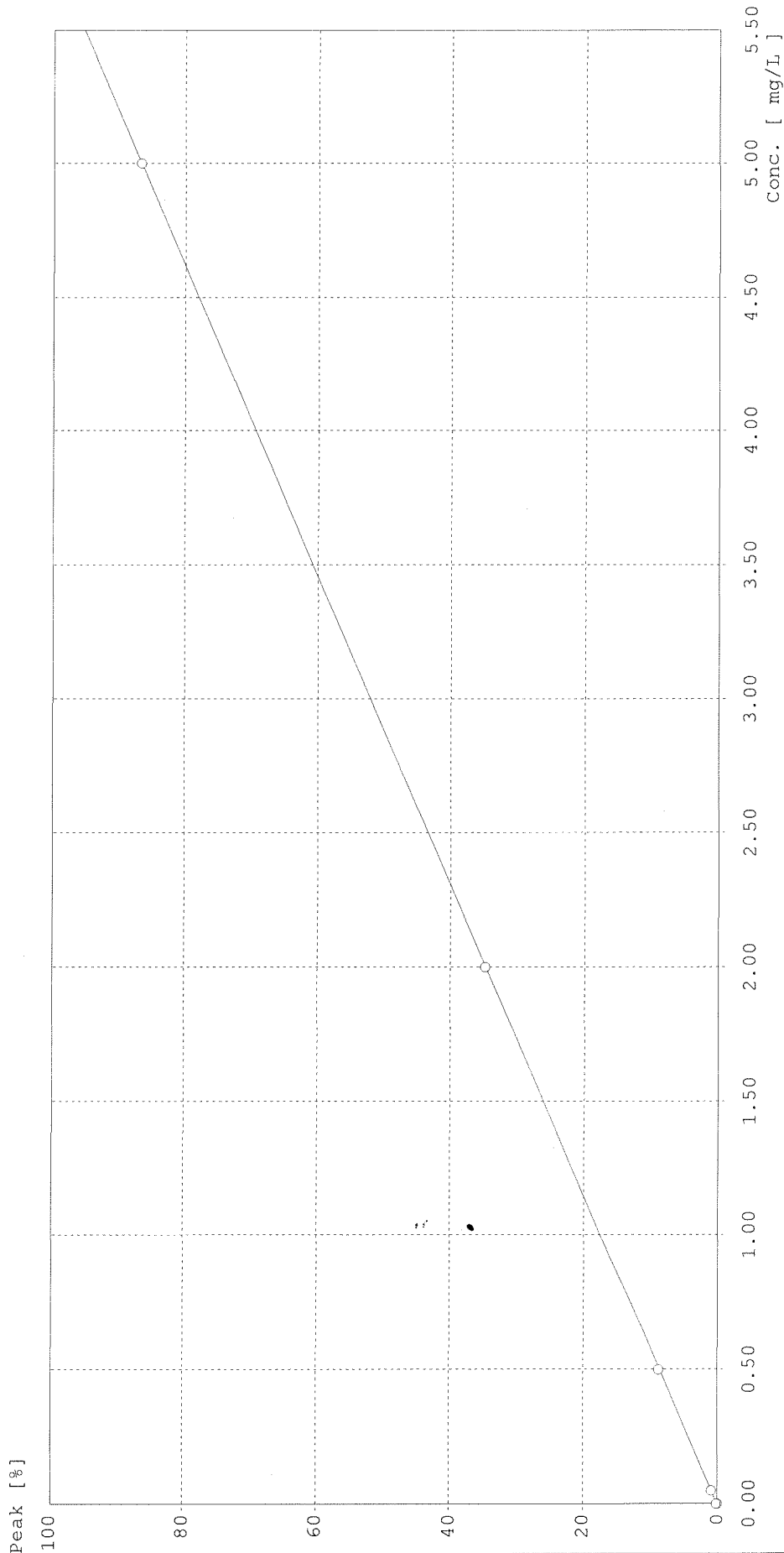
BRAN+LUEBBE

Calibration Curve

Name of run : l10505B.run
Comment :

Name of analysis : Ammonia

Channel : 2
Method : Method 2
Curve fit : linear a=-2.7934E-001 b=8.8136E-005
Corr. coeff. : 1.0000



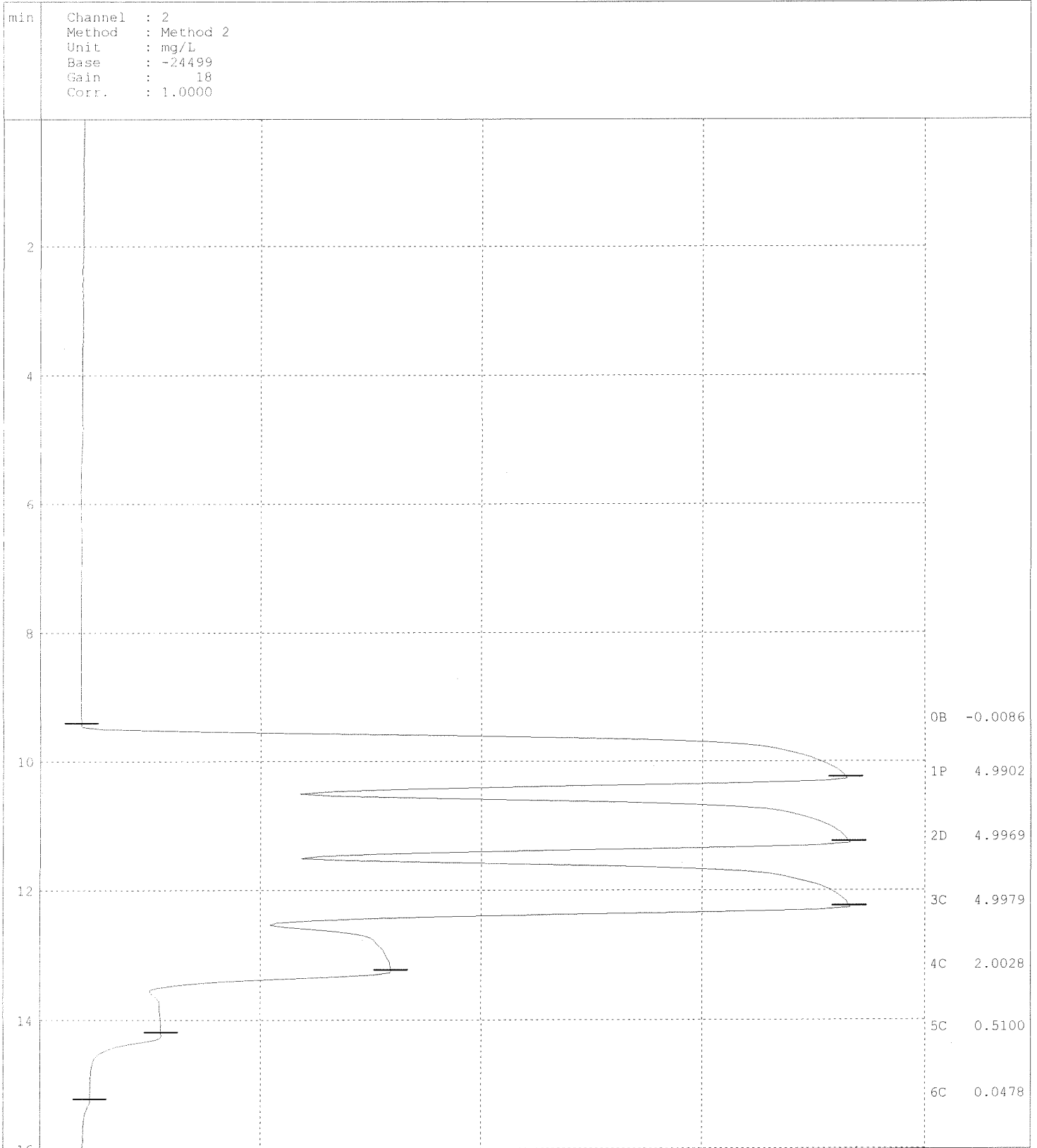
05/05/11
Huang

BRAN+LUEBBE

Post-run chart

Name of run : 110505B.RUN
Comment :

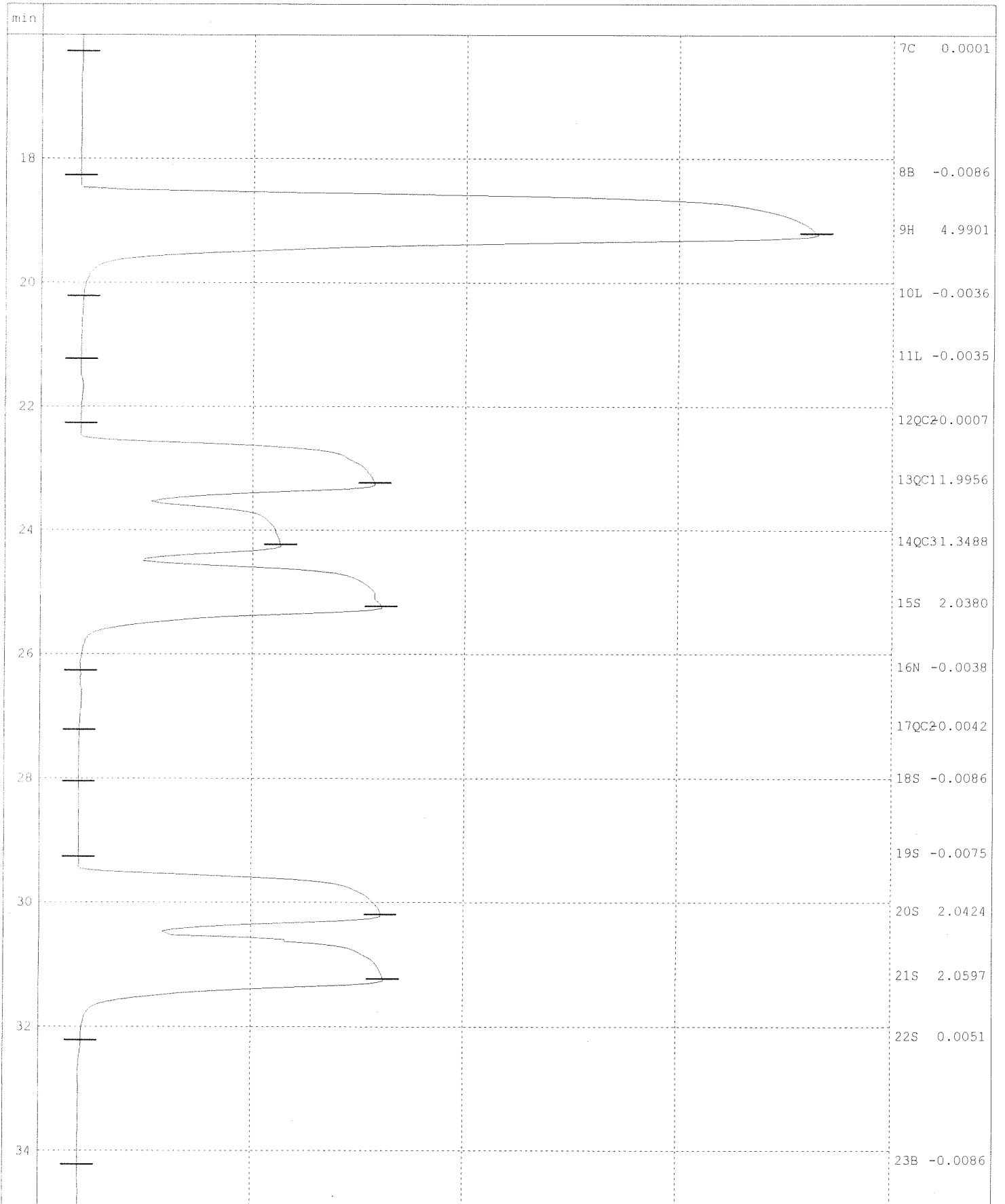
Name of analysis : Ammonia



05/05/11
Hussein

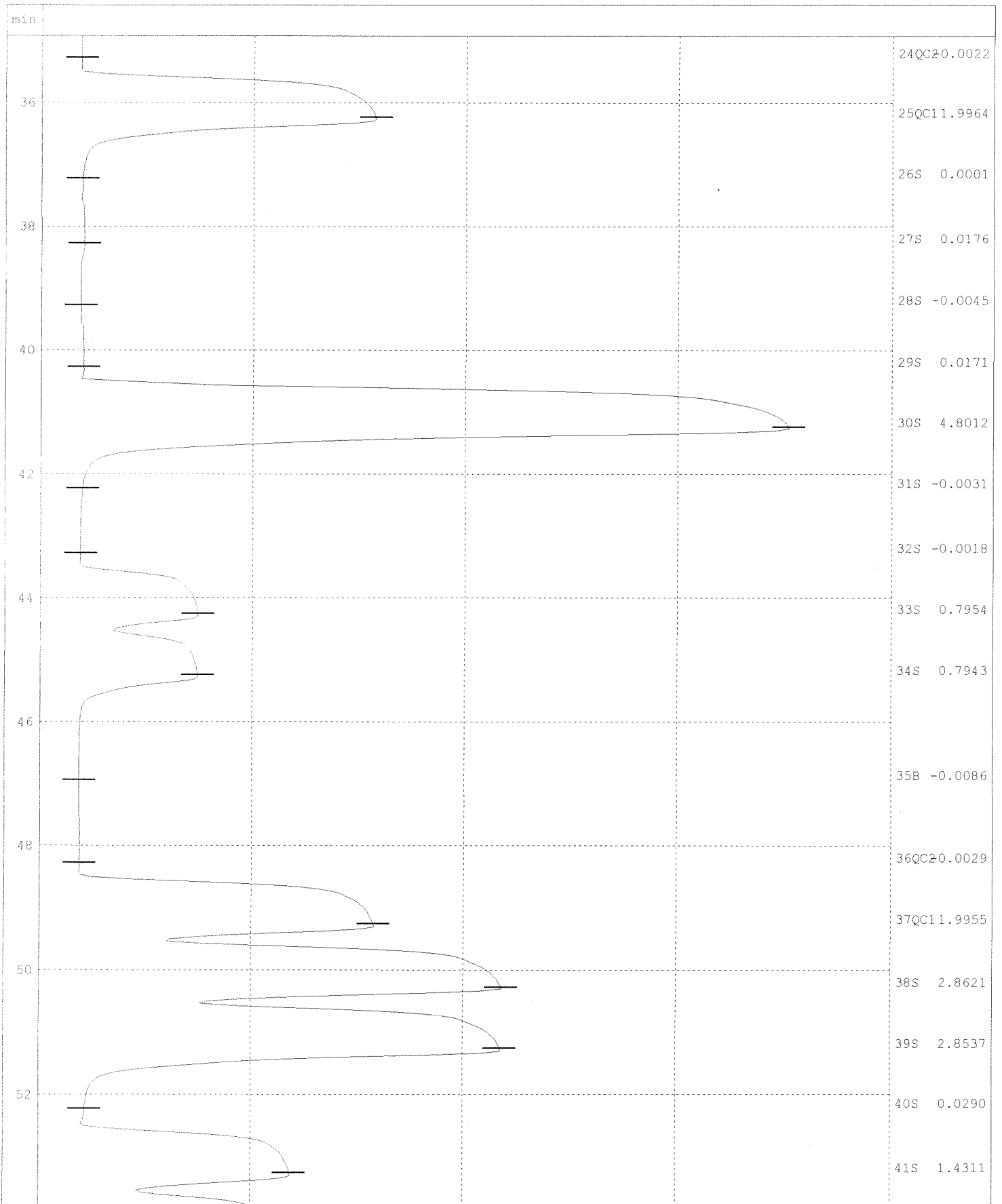
Name of run :110505B.RUN
Comment :

Name of analysis :Ammonia



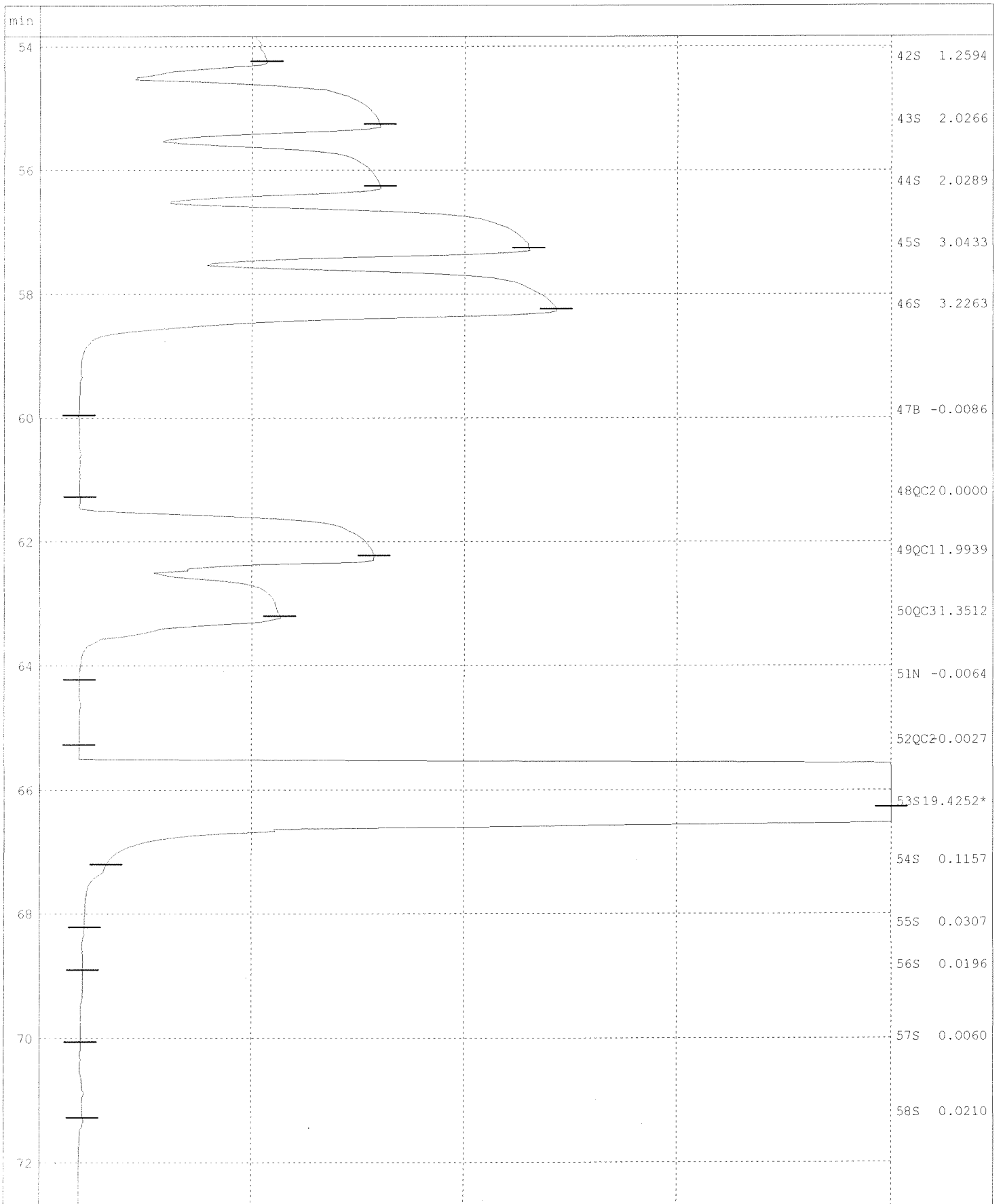
Name of run :110505B.RUN
 Comment :

Name of analysis :Ammonia



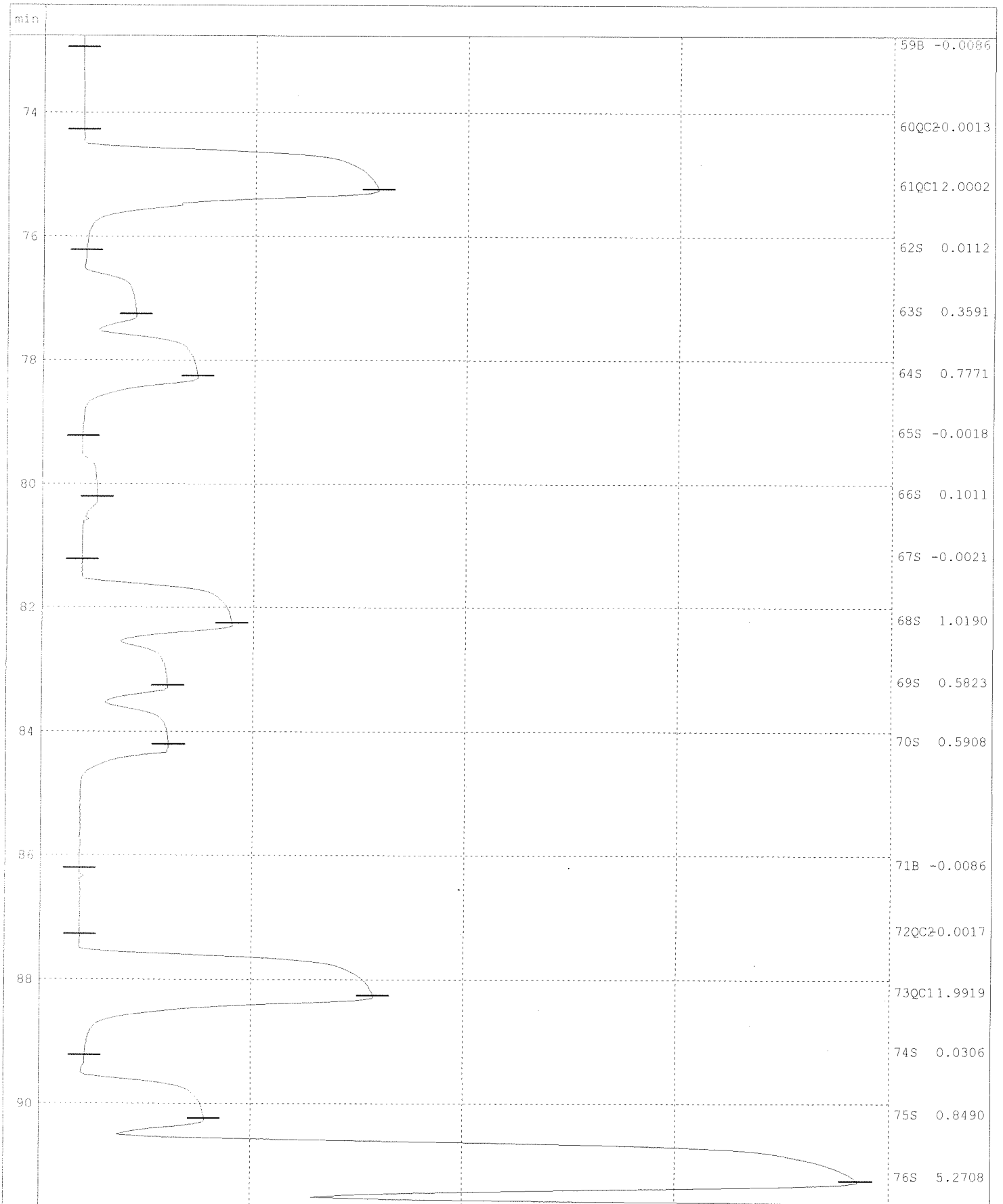
Name of run :110505B.RUN
 Comment :

Name of analysis :Ammonia



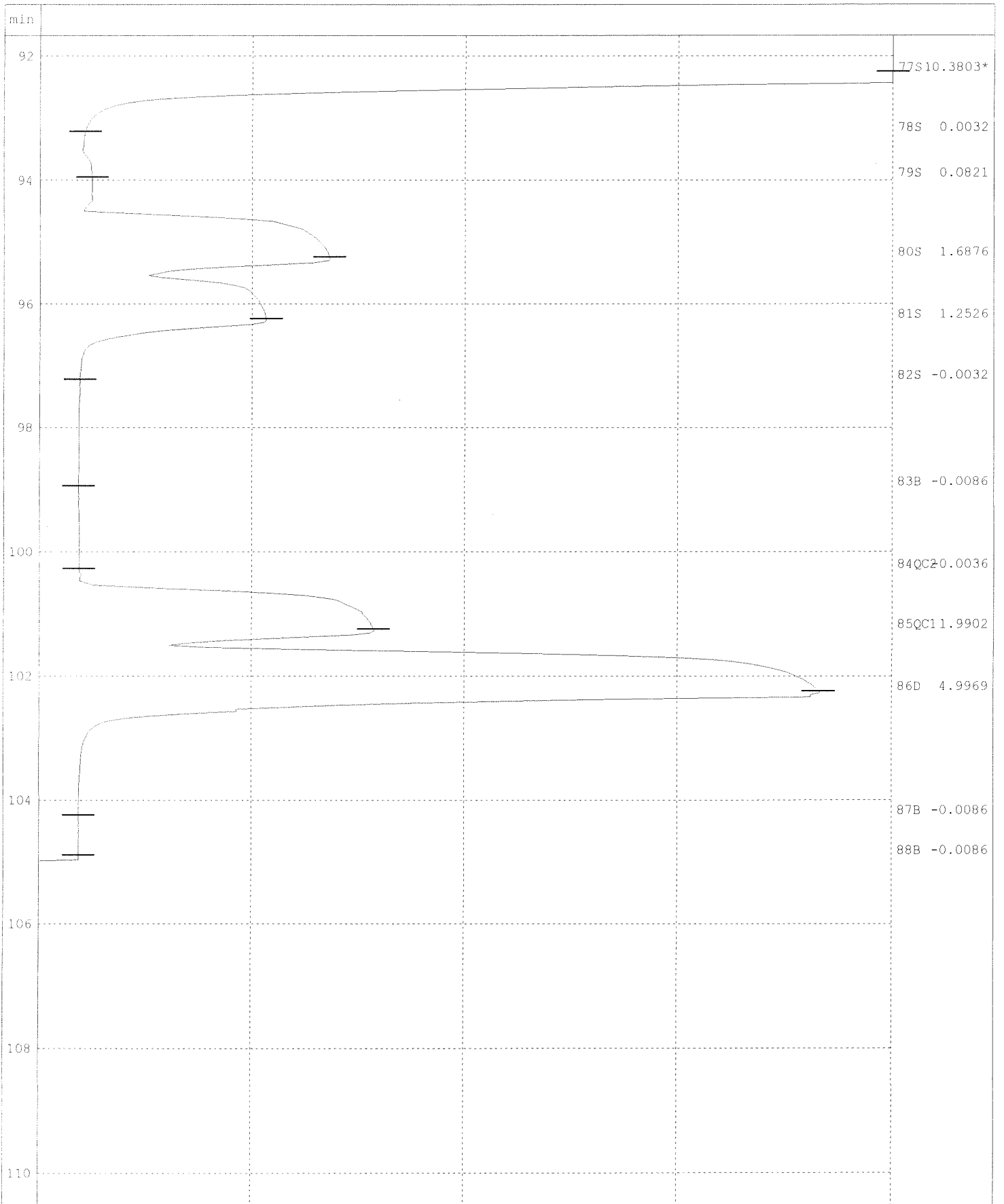
Name of run :110505B.RUN
Comment :

Name of analysis :Ammonia



Name of run :110505B.RUN
 Comment :

Name of analysis :Ammonia



245156

Original
 Work Request # (3509) 3621 3674
 Tier: II II IV
 Date Analyzed: 5/5/11
 Analyst: CV
 Analysis: Alkon met

**DATA QUALITY REPORT
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate? yes/no/NA
- 2. Holding times met for all analyses and for all samples? yes/no/NA
- 3. Are calculations correct? yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight) yes/no/NA
- 5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
- 6. Are all service requests that apply attached? yes/no/NA
- 7. Are all samples labelled correctly? yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
- 9. Are detection limits and units reported correctly? yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
- 11. Is the unused space on the benchsheet crossed out? yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

MRL = 2
 MPL = 1

Final Approved by: H Date: 5/19/11 DQREPORT

Analytical Results Summary

Instrument Name: K-PH-01

Analyst: CVECCHITTO

Analysis Lot:

245156

Method/Testcode: SM 2320 B/Alkalinity Titr

ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1103509-007	Alkalinity as CaCO ₃ , Total N/A			Water	-0.20 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			5/5/11 17:13:00	N II
1103574-008	Bicarbonate as CaCO ₃ N/A			Water	-0.40 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			5/5/11 17:13:00	N IV
1103574-009	Bicarbonate as CaCO ₃ N/A			Water	-0.1 mg/L	30 mL	-0.1 mg/L	1	3.0	9.0			5/5/11 17:13:00	N IV
1103621-001	Alkalinity as CaCO ₃ , Total N/A			Water	47.00 mg/L	30 mL	47.0 mg/L	1	3.0	9.0			5/5/11 17:13:00	N II
1103621-002	Alkalinity as CaCO ₃ , Total N/A			Water	46.00 mg/L	30 mL	46.0 mg/L	1	3.0	9.0			5/5/11 17:13:00	N II
1103621-003	Alkalinity as CaCO ₃ , Total N/A			Water	30.00 mg/L	30 mL	30.0 mg/L	1	3.0	9.0			5/5/11 17:13:00	N II
1103621-004	Alkalinity as CaCO ₃ , Total N/A			Water	40.20 mg/L	30 mL	40.2 mg/L	1	3.0	9.0			5/5/11 17:13:00	N II
Q1104099-01	Alkalinity as CaCO ₃ , Total DUP		K1103621-002	Water	47.20 mg/L	30 mL	47.2 mg/L	1	3.0	9.0		3	5/5/11 17:13:00	N II
Q1104099-02	Alkalinity as CaCO ₃ , Total LCS			Water	33.00 mg/L	30 mL	33.0 mg/L	1	3.0	9.0	101		5/5/11 17:13:00	N II
Q1104099-03	Alkalinity as CaCO ₃ , Total MB			Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			5/5/11 17:13:00	N II
Q1104099-03	Bicarbonate as CaCO ₃ MB			Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			5/5/11 17:13:00	N II
Q1104099-04	Alkalinity as CaCO ₃ , Total N/A			Water	46.00 mg/L	30 mL	46.0 mg/L	1	3.0	9.0			5/5/11 17:13:00	N II
Q1104099-04	Bicarbonate as CaCO ₃ N/A			Water	46.00 mg/L	30 mL	46.0 mg/L	1	3.0	9.0			5/5/11 17:13:00	N II
Q1104099-05	Alkalinity as CaCO ₃ , Total DUP		KQ1104099-04	Water	47.20 mg/L	30 mL	47.2 mg/L	1	3.0	9.0		3	5/5/11 17:13:00	N II
Q1104099-05	Bicarbonate as CaCO ₃ DUP		KQ1104099-04	Water	47.20 mg/L	30 mL	47.2 mg/L	1	3.0	9.0		3	5/5/11 17:13:00	N II

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

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Results Summary

Page 1 of 1

Analyte: Alkalinity

Method: 310.1 / SM20 2320 B

Regular Level _____
 High Level _____
 Low Level X _____

Analyst: _____ CV _____
 Probe: _____ RCI/1-79-E _____
 Date: 5/5/11
 Time: 5:13

pH meter cal: _____
 Buffer Log #: _____

pH meter ID# K-pH-1
 4.0 _____ 4
 7.0 _____ 7.00
 10.0 _____ 10
 Cond/1-75- p
 Cond/1-77- q
 Cond/1-79- 0

Table 403.1 Alkalinity Relationships

Result of titration	Hydroxide Alkalinity as CaCO3	Carbonate Alkalinity as CaCO3	Bicarbonate Concentration as CaCO3
P = 0	0.0	0.0	T
P < 1/2T	0.0	2P	T - 2P
P = 1/2T	0.0	2P	0
P > 1/2T	2P - T	2(T - P)	0
P = T	T	0.0	0

Reagents: concentration

HCl: 0.020 N
 LCS TV = 32.7 mg/L
 Lot # icca 1002358
 ERA S169-698
 Date _____

P = Phenolphthalein Alkalinity

T = Total Alkalinity

Phenolphthalein alkalinity = the quantity measured by titration to pH 8.3

Alkalinity, mg CaCO3 /L = (A_(mL acid used) x N_(HCl) x 50,000) /mL sample

Alkalinity Low level, mg CaCO3 /L = ((2A_(mL acid used to pH4.5) - B_(mL acid used to pH4.2)) x N_(HCl) x 50,000) /mL sample

R:\WETANAL\YESVALKTEMP\PLATE\alk page HL-LL-RL-revision 1

Service Request#	Sample Vol (mL)	pH Initial	Vol to pH 8.3	Vol to pH 4.5	Vol to pH 4.2	Phen. Alk. mg/L	OH- Alk. mg/L	Carb Alk. mg/L	Bicarb Alk. mg/L	Total Alk. mg/L	Low Level Alk. mg/L	Notes/Comments
1	MB-1	100.0	5.91	0.15	0.30					1.5	0.0	
2	LCS-1	50.0	8.83	1.65						33.0		9/8/08 = 101
3	K1103509-007	100.0	5.22	0.09	0.20					0.9	-0.2	
4	K1103621-001	50.0	7.78	2.35						47.0		
5	K1103621-002	50.0	7.37	2.30						46.0		X = 46.6
6	K1103621-002d	50.0	7.40	2.36						47.2		RPD = 2
7	K1103621-003	50.0	7.30	1.50						30.0		
8	K1103621-004	50.0	7.61	2.01						40.2		
9	K1103574-008	100.0	5.32	0.13	0.30					1.3	-0.4	
10	K1103574-009	100.0	5.17	0.10	0.21					1.0	-0.1	
11	Buffer check		4.03							#DIV/0!		
12										#DIV/0!		
13										#DIV/0!		
14										#DIV/0!		
15										#DIV/0!		
16										#DIV/0!		
17										#DIV/0!		
18										#DIV/0!		
19										#DIV/0!		
20										#DIV/0!		

245156

5/5/11

Original
Work Request # (351) 3589, 362, 374, 3617, 3649, 3677, 3842, 3904

Tier: II V V IV V V V V V

Date Analyzed: 5/4/11

Analyst: CV

Analysis: Atk on autotitrator

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: [Signature] Date: 5/3/11 DQREPORT

Analytical Results Summary

Instrument Name: K-pH-01

Analyst: CVECCHITTO

Analysis Lot:

244959

Method/Testcode: SM 2320 B/Alkalinity Titr

ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1103561-009	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	792.00 mg/L	30 mL	792 mg/L	1	3.0	9.0			5/4/11 14:20:00	N II
1103561-009	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	792.00 mg/L	30 mL	792 mg/L	1	3.0	9.0			5/4/11 14:20:00	N II
1103574-004	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	223.00 mg/L	30 mL	223 mg/L	1	3.0	9.0			5/4/11 14:20:00	N IV
1103574-005	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	224.00 mg/L	30 mL	224 mg/L	1	3.0	9.0			5/4/11 14:20:00	N IV
1103574-006	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	169.00 mg/L	30 mL	169 mg/L	1	3.0	9.0			5/4/11 14:20:00	N IV
1103574-007	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	194.00 mg/L	30 mL	194 mg/L	1	3.0	9.0			5/4/11 14:20:00	N IV
1103589-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	159.00 mg/L	30 mL	159 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103589-002	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	172.00 mg/L	30 mL	172 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103592-002	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	165.00 mg/L	30 mL	165 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103592-003	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	151.00 mg/L	30 mL	151 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103592-004	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	152.00 mg/L	30 mL	152 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103647-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	24.70 mg/L	30 mL	24.7 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103649-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	153.00 mg/L	30 mL	153 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103649-002	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	141.00 mg/L	30 mL	141 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103649-003	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	24.70 mg/L	30 mL	24.7 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103649-004	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	29.60 mg/L	30 mL	29.6 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103649-005	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	149.00 mg/L	30 mL	149 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103677-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	141.00 mg/L	30 mL	141 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	372.00 mg/L	30 mL	372 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-001	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	372.00 mg/L	30 mL	372 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-002	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	235.00 mg/L	30 mL	235 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-002	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	235.00 mg/L	30 mL	235 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-003	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	57.30 mg/L	30 mL	57.3 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-003	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	57.30 mg/L	30 mL	57.3 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-004	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	175.00 mg/L	30 mL	175 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-004	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	174.00 mg/L	30 mL	174 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-005	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	383.00 mg/L	30 mL	383 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103842-005	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	383.00 mg/L	30 mL	383 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103904-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	229.00 mg/L	30 mL	229 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-pH-01

Analyst: CVECCHITTO

Analysis Lot:

244959

Method/Testcode: SM 2320 B/Bicarb Alk

ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
1103904-001	Bicarbonate as CaCO3	N/A		Water	229.00 mg/L	30 mL	229 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103904-002	Alkalinity as CaCO3, Total	N/A		Water	95.00 mg/L	30 mL	95.0 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103904-002	Bicarbonate as CaCO3	N/A		Water	95.00 mg/L	30 mL	95.0 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103904-003	Alkalinity as CaCO3, Total	N/A		Water	49.00 mg/L	30 mL	49.0 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103904-003	Bicarbonate as CaCO3	N/A		Water	49.00 mg/L	30 mL	49.0 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103904-004	Alkalinity as CaCO3, Total	N/A		Water	139.00 mg/L	30 mL	139 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
1103904-004	Bicarbonate as CaCO3	N/A		Water	139.00 mg/L	30 mL	139 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
Q1104051-01	Alkalinity as CaCO3, Total	LCS		Water	33.40 mg/L	30 mL	33.4 mg/L	1	3.0	9.0	102		5/4/11 14:20:00	N II
Q1104051-01	Bicarbonate as CaCO3	LCS		Water	33.40 mg/L	30 mL	33.4 mg/L	1	3.0	9.0			5/4/11 14:20:00	N II
Q1104051-02	Alkalinity as CaCO3, Total	MB		Water	6.39 mg/L	30 mL	6.4 mg/L	1	3.0	9.0			5/4/11 14:20:00	N II
Q1104051-02	Bicarbonate as CaCO3	MB		Water	6.39 mg/L	30 mL	6.4 mg/L	1	3.0	9.0			5/4/11 14:20:00	N II
Q1104051-03	Alkalinity as CaCO3, Total	DUP	K1103592-002	Water	168.00 mg/L	30 mL	168 mg/L	1	3.0	9.0		2	5/4/11 14:20:00	N V
Q1104051-04	Bicarbonate as CaCO3	DUP	K1103574-005	Water	218.00 mg/L	30 mL	218 mg/L	1	3.0	9.0		3	5/4/11 14:20:00	N IV
Q1104051-05	Alkalinity as CaCO3, Total	DUP	K1103649-004	Water	27.80 mg/L	30 mL	27.8 mg/L	1	3.0	9.0		6	5/4/11 14:20:00	N V
Q1104051-06	Alkalinity as CaCO3, Total	LCS		Water	33.10 mg/L	30 mL	33.1 mg/L	1	3.0	9.0	101		5/4/11 14:20:00	N V
Q1104051-06	Bicarbonate as CaCO3	LCS		Water	33.10 mg/L	30 mL	33.1 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
Q1104051-07	Alkalinity as CaCO3, Total	MB		Water	6.15 mg/L	30 mL	6.2 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
Q1104051-07	Bicarbonate as CaCO3	MB		Water	6.15 mg/L	30 mL	6.2 mg/L	1	3.0	9.0			5/4/11 14:20:00	N V
Q1104051-08	Alkalinity as CaCO3, Total	DUP	K1103842-004	Water	181.00 mg/L	30 mL	181 mg/L	1	3.0	9.0		3	5/4/11 14:20:00	N V
Q1104051-08	Bicarbonate as CaCO3	DUP	K1103842-004	Water	179.00 mg/L	30 mL	179 mg/L	1	3.0	9.0		3	5/4/11 14:20:00	N V
Q1104051-09	Alkalinity as CaCO3, Total	DUP	K1103561-009	Water	827.00 mg/L	30 mL	827 mg/L	1	3.0	9.0		4	5/4/11 14:20:00	N II
Q1104051-09	Bicarbonate as CaCO3	DUP	K1103561-009	Water	827.00 mg/L	30 mL	827 mg/L	1	3.0	9.0		4	5/4/11 14:20:00	N II

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Rundate
5/11/11

2441459

Date: 05/05/2011
RunID = Z0504111453
InstrumentID = SN=1234A
Site Name = Your Company Name Here
Analyst = ACQWE
Test Name/ID = ALK
Titrant Name/ID = HCl 0.02N Ricca#1007361
Standard(s) Name/ID = LCS tv=32.7 ERA#S169-698

89.2
0

TestID	LIMS ID	MethID	SmplID	pH	SmplVol	Tot Vol	SmplResults	Units	Recv %	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Instr ID
ALK	MB-1	3	1	6.30	30		6.3917	ppm(l)		158.6 mV	58.75	00855	05-04-11	02:20	ACQWE	Z0504111453	SN=123
ALK	LCS-1	3	2	8.82	30		13.826	ppm(l)		-64.7 mV	58.75	00855	05-04-11	02:23	ACQWE	Z0504111453	SN=123
ALK	LCS-1	3	2	8.82	30		33.409	ppm(l)		158.6 mV	58.75	00855	05-04-11	02:23	ACQWE	Z0504111453	SN=123
ALK	K1103561-009.03*6	3	3	6.92	30		131.95	ppm(l)		158.6 mV	58.75	00855	05-04-11	02:27	ACQWE	Z0504111453	SN=123
ALK	K1103561-009d*6	3	4	7.05	30		137.84	ppm(l)		158.6 mV	58.75	00855	05-04-11	02:34	ACQWE	Z0504111453	SN=123
ALK	K1103589-001.02	3	5	7.77	30		159.12	ppm(l)		158.6 mV	58.75	00855	05-04-11	02:42	ACQWE	Z0504111453	SN=123
ALK	K1103589-002.02	3	6	7.77	30		171.53	ppm(l)		158.6 mV	58.75	00855	05-04-11	02:51	ACQWE	Z0504111453	SN=123
ALK	K1103592-002.04	3	7	7.77	30		165.28	ppm(l)		158.6 mV	58.75	00855	05-04-11	03:00	ACQWE	Z0504111453	SN=123
ALK	K1103592-002.04d	3	8	7.73	30		167.93	ppm(l)		158.6 mV	58.75	00855	05-04-11	03:08	ACQWE	Z0504111453	SN=123
ALK	K1103592-003.04	3	9	7.75	30		150.98	ppm(l)		158.6 mV	58.75	00855	05-04-11	03:17	ACQWE	Z0504111453	SN=123
ALK	K1103592-004.04	3	10	7.80	30		152.01	ppm(l)		158.6 mV	58.75	00855	05-04-11	03:25	ACQWE	Z0504111453	SN=123
ALK	K1103574-004.07	3	11	7.36	30		222.72	ppm(l)		158.6 mV	58.75	00855	05-04-11	03:34	ACQWE	Z0504111453	SN=123
ALK	K1103574-005.07	3	12	7.34	30		223.51	ppm(l)		158.6 mV	58.75	00855	05-04-11	03:45	ACQWE	Z0504111453	SN=123
ALK	K1103574-005.07d	3	13	7.47	30		218.19	ppm(l)		158.6 mV	58.75	00855	05-04-11	03:55	ACQWE	Z0504111453	SN=123
ALK	K1103574-006.07	3	14	7.06	30		169.17	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:06	ACQWE	Z0504111453	SN=123
ALK	K1103574-007.07	3	15	7.06	30		193.85	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:15	ACQWE	Z0504111453	SN=123
ALK	K1103574-008.07	3	16	5.85	30		5.8451	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:25	ACQWE	Z0504111453	SN=123
ALK	K1103574-009.07	3	17	6.08	30		6.1604	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:28	ACQWE	Z0504111453	SN=123
ALK	K1103647-001.03	3	18	7.09	30		24.683	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:31	ACQWE	Z0504111453	SN=123
ALK	K1103649-001.01	3	19	8.03	30		153.34	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:34	ACQWE	Z0504111453	SN=123
ALK	K1103649-002.01	3	20	7.99	30		140.78	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:43	ACQWE	Z0504111453	SN=123
ALK	K1103649-003.01	3	21	7.02	30		24.736	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:50	ACQWE	Z0504111453	SN=123
ALK	K1103649-004.01	3	22	7.16	30		29.614	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:54	ACQWE	Z0504111453	SN=123
ALK	K1103649-004.01d	3	23	7.09	30		27.820	ppm(l)		158.6 mV	58.75	00855	05-04-11	04:58	ACQWE	Z0504111453	SN=123
ALK	K1103649-005.01	3	24	7.95	30		148.71	ppm(l)		158.6 mV	58.75	00855	05-04-11	05:02	ACQWE	Z0504111453	SN=123
ALK	K1103677-001.10	3	25	8.02	30		141.10	ppm(l)		158.6 mV	58.75	00855	05-04-11	05:10	ACQWE	Z0504111453	SN=123
ALK	MB-2	3	26	6.07	30		6.1467	ppm(l)		158.6 mV	58.75	00855	05-04-11	05:18	ACQWE	Z0504111453	SN=123
ALK	LCS-2	3	27	8.73	30		10.391	ppm(l)		-64.7 mV	58.75	00855	05-04-11	05:21	ACQWE	Z0504111453	SN=123
ALK	LCS-2	3	27	8.73	30		33.069	ppm(l)		158.6 mV	58.75	00855	05-04-11	05:21	ACQWE	Z0504111453	SN=123
ALK	K1103842-001.03	3	28	7.01	30		371.83	ppm(l)		158.6 mV	58.75	00855	05-04-11	05:24	ACQWE	Z0504111453	SN=123
ALK	K1103842-002.03	3	29	9.37	30		43.943	ppm(l)		-64.7 mV	58.75	00855	05-04-11	05:41	ACQWE	Z0504111453	SN=123
ALK	K1103842-003.03	3	29	9.37	30		234.97	ppm(l)		158.6 mV	58.75	00855	05-04-11	05:41	ACQWE	Z0504111453	SN=123
ALK	K1103842-003.03	3	30	6.69	30		57.308	ppm(l)		158.6 mV	58.75	00855	05-04-11	05:53	ACQWE	Z0504111453	SN=123

Oct 5/11
the
35412-2 is in 2
1.005

264959

Test ID	LIMS ID	Meth ID	Smpl ID	pH	SmplVol	Tot Vol	Smpl Results	Units	Recv %	End Pt	Slope (mV)	Calc. C	Date	Time	Analyst	Run ID	Instr ID
ALK	K1103842-004.03	3	31	8.321	30		.57840	ppm(l)		-64.7 mV)	58.75	00855	05-04-11	05:58	ACQWE	Z0504111453	SN=123
ALK	K1103842-004.03	3	31	8.321	30		174.79	ppm(l)		158.6 mV)	58.75	00855	05-04-11	05:58	ACQWE	Z0504111453	SN=123
ALK	K1103842-004.03d	3	32	8.35	30		.99730	ppm(l)		-64.7 mV)	58.75	00855	05-04-11	06:07	ACQWE	Z0504111453	SN=123
ALK	K1103842-004.03d	3	32	8.35	30		181.34	ppm(l)		158.6 mV)	58.75	00855	05-04-11	06:07	ACQWE	Z0504111453	SN=123
ALK	K1103842-005.03	3	33	7.09	30		363.34	ppm(l)		158.6 mV)	58.75	00855	05-04-11	06:16	ACQWE	Z0504111453	SN=123
ALK	K1103904-001.03x2	3	34	7.73	30		114.41	ppm(l)		158.6 mV)	58.75	00855	05-04-11	06:34	ACQWE	Z0504111453	SN=123
ALK	K1103904-002.03x2	3	35	6.76	30		47.505	ppm(l)		158.6 mV)	58.75	00855	05-04-11	06:41	ACQWE	Z0504111453	SN=123
ALK	K1103904-003.03x2	3	36	6.62	30		24.480	ppm(l)		158.6 mV)	58.75	00855	05-04-11	06:45	ACQWE	Z0504111453	SN=123
ALK	K1103904-004.03x2	3	37	6.82	30		69.707	ppm(l)		158.6 mV)	58.75	00855	05-04-11	06:49	ACQWE	Z0504111453	SN=123
ALK	b	3	38	5.72	30		5.6367	ppm(l)		158.6 mV)	58.75	00855	05-04-11	06:54	ACQWE	Z0504111453	SN=123
ALK	b	3	39	5.88	30		5.8819	ppm(l)		158.6 mV)	58.75	00855	05-04-11	06:58	ACQWE	Z0504111453	SN=123
ALK	b	3	40	5.94	30		5.9121	ppm(l)		158.6 mV)	58.75	00855	05-04-11	07:01	ACQWE	Z0504111453	SN=123

Loss 1% Rec = 102

3561 - a \bar{x} = 810 RPD = 4

3512 - 2 \bar{x} = 167 RPD = 2

3514 - 5 \bar{x} = 221 RPD = 2

3649 - 4 \bar{x} = 2817 RPD = 6

Loss 2.9% Rec = 101

3842 - 4 \bar{x} = 178 RPD = 4

Bicarb = Alk
 unless initial pH > 8.3
 then bicarb = Alk - 2 (titrated volume to 8.3)

Work Request # (3392) 3453, 3509, 3561, 3574

2 17148

Tier: II III IV II IV

Date Analyzed: 6/3/11

Analyst: CV

Analysis: Alk amphotifer

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- 1. Is the method name and number correct and appropriate? yes/no/NA
- 2. Holding times met for all analyses and for all samples? yes/no/NA
- 3. Are calculations correct? yes/no/NA
- 4. Is the reporting basis correct? (Dry Weight) yes/no/NA
- 5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
- 6. Are all service requests that apply attached? yes/no/NA
- 7. Are all samples labelled correctly? yes/no/NA
- 8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
- 9. Are detection limits and units reported correctly? yes/no/NA
- 10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
- 11. Is the unused space on the benchsheet crossed out? yes/no/NA
- 12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: [Signature] Date: 6/4/11 DQREPORT

Analytical Results Summary

Instrument Name: K-pH-01

Analyst: CVECCHITTO

Analysis Lot: 244708

Method/Testcode: SM 2320 B/Alkalinity Tit

ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1103392-001	Alkalinity as CaCO3, Total N/A	N/A		Water	1899.00 mg/L	30 mL	1900 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103392-002	Alkalinity as CaCO3, Total N/A	N/A		Water	320.00 mg/L	30 mL	320 mg/L	2	6	18			5/3/11 10:04:00	N II
1103392-003	Alkalinity as CaCO3, Total N/A	N/A		Water	927.00 mg/L	30 mL	927 mg/L	2	6	18			5/3/11 10:04:00	N II
1103392-004	Alkalinity as CaCO3, Total N/A	N/A		Water	33.30 mg/L	30 mL	33.3 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103453-001	Alkalinity as CaCO3, Total N/A	N/A		Water	1361.00 mg/L	30 mL	1360 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103453-002	Alkalinity as CaCO3, Total N/A	N/A		Water	1503.00 mg/L	30 mL	1500 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103453-004	Alkalinity as CaCO3, Total N/A	N/A		Water	644.00 mg/L	30 mL	644 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103453-005	Alkalinity as CaCO3, Total N/A	N/A		Water	250.00 mg/L	30 mL	250 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-001	Alkalinity as CaCO3, Total N/A	N/A		Water	2369.00 mg/L	30 mL	2370 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-002	Alkalinity as CaCO3, Total N/A	N/A		Water	159.00 mg/L	30 mL	159 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-003	Alkalinity as CaCO3, Total N/A	N/A		Water	872.00 mg/L	30 mL	872 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-004	Alkalinity as CaCO3, Total N/A	N/A		Water	458.00 mg/L	30 mL	458 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-005	Alkalinity as CaCO3, Total N/A	N/A		Water	1282.00 mg/L	30 mL	1280 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-006	Alkalinity as CaCO3, Total N/A	N/A		Water	279.00 mg/L	30 mL	279 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-008	Alkalinity as CaCO3, Total N/A	N/A		Water	769.00 mg/L	30 mL	769 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-001	Alkalinity as CaCO3, Total N/A	N/A		Water	263.00 mg/L	30 mL	263 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-001	Bicarbonate as CaCO3 N/A	N/A		Water	263.00 mg/L	30 mL	263 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-002	Alkalinity as CaCO3, Total N/A	N/A		Water	255.00 mg/L	30 mL	255 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-002	Bicarbonate as CaCO3 N/A	N/A		Water	255.00 mg/L	30 mL	255 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-003	Alkalinity as CaCO3, Total N/A	N/A		Water	241.00 mg/L	30 mL	241 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-003	Bicarbonate as CaCO3 N/A	N/A		Water	241.00 mg/L	30 mL	241 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-004	Alkalinity as CaCO3, Total N/A	N/A		Water	152.00 mg/L	30 mL	152 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-004	Bicarbonate as CaCO3 N/A	N/A		Water	152.00 mg/L	30 mL	152 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-005	Alkalinity as CaCO3, Total N/A	N/A		Water	309.00 mg/L	30 mL	309 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-005	Bicarbonate as CaCO3 N/A	N/A		Water	209.00 mg/L	30 mL	209 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-006	Alkalinity as CaCO3, Total N/A	N/A		Water	1052.00 mg/L	30 mL	1050 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-006	Bicarbonate as CaCO3 N/A	N/A		Water	1052.00 mg/L	30 mL	1050 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-007	Alkalinity as CaCO3, Total N/A	N/A		Water	332.00 mg/L	30 mL	332 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-pH-01

Analyst: CVECHITTO

Analysis Lot:

244708

Method/Testcode: SM 2320 B/Bicarb Alk

<u>Lab Code</u>	<u>Target Analytes</u>	<u>QC</u>	<u>Parent Sample</u>	<u>Matrix</u>	<u>Raw Result</u>	<u>Sample Amt</u>	<u>Final Result</u>	<u>Dil</u>	<u>MDL</u>	<u>PQL</u>	<u>% Rec</u>	<u>% RSD</u>	<u>Date Analyzed</u>	<u>QC? Tier</u>
1103561-007	Bicarbonate as CaCO3	N/A		Water	332.00 mg/L	30 mL	332 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-008	Alkalinity as CaCO3, Total	N/A		Water	159.00 mg/L	30 mL	159 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-008	Bicarbonate as CaCO3	N/A		Water	159.00 mg/L	30 mL	159 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-010	Alkalinity as CaCO3, Total	N/A		Water	313.00 mg/L	30 mL	313 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-010	Bicarbonate as CaCO3	N/A		Water	313.00 mg/L	30 mL	313 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103574-001	Bicarbonate as CaCO3	N/A		Water	146.00 mg/L	30 mL	146 mg/L	1	3.0	9.0			5/3/11 10:04:00	N IV
1103574-002	Bicarbonate as CaCO3	N/A		Water	258.00 mg/L	30 mL	258 mg/L	1	3.0	9.0			5/3/11 10:04:00	N IV
1103574-003	Bicarbonate as CaCO3	N/A		Water	301.00 mg/L	30 mL	301 mg/L	1	3.0	9.0			5/3/11 10:04:00	N IV
Q1103989-01	Alkalinity as CaCO3, Total	LCS		Water	33.40 mg/L	30 mL	33.4 mg/L	1	3.0	9.0	102		5/3/11 10:04:00	N II
Q1103989-01	Bicarbonate as CaCO3	LCS		Water	33.40 mg/L	30 mL	33.4 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
Q1103989-02	Alkalinity as CaCO3, Total	MB		Water	5.80 mg/L	30 mL	5.8 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
Q1103989-02	Bicarbonate as CaCO3	MB		Water	5.80 mg/L	30 mL	5.8 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
Q1103989-03	Alkalinity as CaCO3, Total	DUP	K1103509-005	Water	1235.00 mg/L	30 mL	1240 mg/L	1	3.0	9.0		4	5/3/11 10:04:00	N II
Q1103989-04	Alkalinity as CaCO3, Total	DUP	K1103561-007	Water	337.00 mg/L	30 mL	337 mg/L	1	3.0	9.0		1	5/3/11 10:04:00	N II
Q1103989-04	Bicarbonate as CaCO3	DUP	K1103561-007	Water	337.00 mg/L	30 mL	337 mg/L	1	3.0	9.0		1	5/3/11 10:04:00	N II
Q1103989-06	Alkalinity as CaCO3, Total	MB		Water	5.96 mg/L	30 mL	6.0 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
Q1103989-06	Bicarbonate as CaCO3	MB		Water	5.96 mg/L	30 mL	6.0 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
Q1103989-07	Alkalinity as CaCO3, Total	LCS		Water	32.70 mg/L	30 mL	32.7 mg/L	1	3.0	9.0	100		5/3/11 10:04:00	N II
Q1103989-07	Bicarbonate as CaCO3	LCS		Water	32.70 mg/L	30 mL	32.7 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
Q1103989-08	Bicarbonate as CaCO3	DUP	K1103574-001	Water	154.00 mg/L	30 mL	154 mg/L	1	3.0	9.0		5	5/3/11 10:04:00	N IV

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-pH-01

Analyst: CVECCHITTO

Analysis Lot: 244708

Method/Testcode: SM 2320 B/Alkalinity Tit

lb Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1103392-001	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	1899.00 mg/L	30 mL	1900 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103392-002	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	320.00 mg/L	30 mL	320 mg/L	2	6	18			5/3/11 10:04:00	N II
1103392-003	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	927.00 mg/L	30 mL	927 mg/L	2	6	18			5/3/11 10:04:00	N II
1103392-004	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	33.30 mg/L	30 mL	33.3 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103453-001	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	1361.00 mg/L	30 mL	1360 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103453-002	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	1503.00 mg/L	30 mL	1500 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103453-004	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	644.00 mg/L	30 mL	644 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103453-005	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	250.00 mg/L	30 mL	250 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-001	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	2369.00 mg/L	30 mL	2370 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-002	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	159.00 mg/L	30 mL	159 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-003	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	872.00 mg/L	30 mL	872 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-004	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	458.00 mg/L	30 mL	458 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-005	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	1282.00 mg/L	30 mL	1280 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-006	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	279.00 mg/L	30 mL	279 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103509-008	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	769.00 mg/L	30 mL	769 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-001	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	263.00 mg/L	30 mL	263 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-001	Bicarbonate as CaCO3 N/A	N/A	Water	Water	263.00 mg/L	30 mL	263 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-002	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	255.00 mg/L	30 mL	255 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-002	Bicarbonate as CaCO3 N/A	N/A	Water	Water	255.00 mg/L	30 mL	255 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-003	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	241.00 mg/L	30 mL	241 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-003	Bicarbonate as CaCO3 N/A	N/A	Water	Water	241.00 mg/L	30 mL	241 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-004	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	152.00 mg/L	30 mL	152 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-004	Bicarbonate as CaCO3 N/A	N/A	Water	Water	152.00 mg/L	30 mL	152 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-005	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	309.00 mg/L	30 mL	309 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-005	Bicarbonate as CaCO3 N/A	N/A	Water	Water	209.00 mg/L	30 mL	209 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-006	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	1052.00 mg/L	30 mL	1050 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-006	Bicarbonate as CaCO3 N/A	N/A	Water	Water	1052.00 mg/L	30 mL	1050 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
1103561-007	Alkalinity as CaCO3, Total N/A	N/A	Water	Water	332.00 mg/L	30 mL	332 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-pH-01 Analyst: C/VECCHITTO Analysis Lot: 244708 Method/Testcode: SM 2320 B/Bicarb Alk

Id Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
103561-007	Bicarbonate as CaCO3	N/A		Water	332.00 mg/L	30 mL	332 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
103561-008	Alkalinity as CaCO3, Total	N/A		Water	159.00 mg/L	30 mL	159 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
103561-008	Bicarbonate as CaCO3	N/A		Water	159.00 mg/L	30 mL	159 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
103561-010	Alkalinity as CaCO3, Total	N/A		Water	313.00 mg/L	30 mL	313 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
103561-010	Bicarbonate as CaCO3	N/A		Water	313.00 mg/L	30 mL	313 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
103574-001	Bicarbonate as CaCO3	N/A		Water	146.00 mg/L	30 mL	146 mg/L	1	3.0	9.0			5/3/11 10:04:00	N IV
103574-002	Bicarbonate as CaCO3	N/A		Water	258.00 mg/L	30 mL	258 mg/L	1	3.0	9.0			5/3/11 10:04:00	N IV
103574-003	Bicarbonate as CaCO3	N/A		Water	301.00 mg/L	30 mL	301 mg/L	1	3.0	9.0			5/3/11 10:04:00	N IV
21103989-01	Alkalinity as CaCO3, Total	LCS		Water	33.40 mg/L	30 mL	33.4 mg/L	1	3.0	9.0	102		5/3/11 10:04:00	N II
21103989-01	Bicarbonate as CaCO3	LCS		Water	33.40 mg/L	30 mL	33.4 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
21103989-02	Alkalinity as CaCO3, Total	MB		Water	5.80 mg/L	30 mL	5.8 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
21103989-02	Bicarbonate as CaCO3	MB		Water	5.80 mg/L	30 mL	5.8 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
21103989-03	Alkalinity as CaCO3, Total	DUP	K1103509-005	Water	1235.00 mg/L	30 mL	1240 mg/L	1	3.0	9.0		4	5/3/11 10:04:00	N II
21103989-04	Alkalinity as CaCO3, Total	DUP	K1103561-007	Water	337.00 mg/L	30 mL	337 mg/L	1	3.0	9.0		1	5/3/11 10:04:00	N II
21103989-04	Bicarbonate as CaCO3	DUP	K1103561-007	Water	337.00 mg/L	30 mL	337 mg/L	1	3.0	9.0		1	5/3/11 10:04:00	N II
21103989-06	Alkalinity as CaCO3, Total	MB		Water	5.96 mg/L	30 mL	6.0 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
21103989-06	Bicarbonate as CaCO3	MB		Water	5.96 mg/L	30 mL	6.0 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
21103989-07	Alkalinity as CaCO3, Total	LCS		Water	32.70 mg/L	30 mL	32.7 mg/L	1	3.0	9.0	100		5/3/11 10:04:00	N II
21103989-07	Bicarbonate as CaCO3	LCS		Water	32.70 mg/L	30 mL	32.7 mg/L	1	3.0	9.0			5/3/11 10:04:00	N II
21103989-08	Bicarbonate as CaCO3	DUP	K1103574-001	Water	154.00 mg/L	30 mL	154 mg/L	1	3.0	9.0		5	5/3/11 10:04:00	N IV

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Date: 05/04/2011

RunID = Z0503111023

InstrumentID = SN=1234A

Site Name = Your Company Name Here

Analyst = ACQWE

Test Name/ID = Alk

Titrant Name/ID = HCl 0.02N Ricca #1007361

Standard(s) Name/ID = LCS TV=32.7 ERA#S169-698

Run date 5/3/11

11/2/12 hrs

2111706

Test ID	LIMS ID	Meth ID	Smpl ID	pH	Smpl Vol	Smpl Results	Units	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Instr ID
Alk	MB-1	3	1	5.96	30	5.7955	ppmL	0.174 mL (152.7 mV)	57.35	00855	05-02-11	22:04	ACQWE	Z0503111023	SN=123
Alk	LCS-1	3	2	8.84	30	13.546	ppmL	0.406 mL (-65.2 mV)	57.35	00855	05-02-11	22:06	ACQWE	Z0503111023	SN=123
Alk	LCS-1	3	2	8.84	30	33.403	ppmL	1.001 mL (152.7 mV)	57.35	00855	05-02-11	22:06	ACQWE	Z0503111023	SN=123
Alk	K1103392-001.05	3	3	7.58	30				57.35	00855	05-02-11	22:10	ACQWE	Z0503111023	SN=123
Alk	K1103392-001.05x2	3	4	7.76	30				57.35	00855	05-02-11	22:39	ACQWE	Z0503111023	SN=123
Alk	K1103392-002.05x2	3	5	7.19	30	160.04	ppmL	4.797 mL (152.7 mV)	57.35	00855	05-02-11	23:09	ACQWE	Z0503111023	SN=123
Alk	K1103392-003.05x2	3	6	7.41	30	463.43	ppmL	13.890 mL (152.7 mV)	57.35	00855	05-02-11	23:17	ACQWE	Z0503111023	SN=123
Alk	K1103392-004.05	3	7	6.47	30	33.266	ppmL	0.997 mL (152.7 mV)	57.35	00855	05-02-11	23:38	ACQWE	Z0503111023	SN=123
Alk	K1103453-001.04x6	3	8	7.25	30	226.91	ppmL	6.801 mL (152.7 mV)	57.35	00855	05-02-11	23:42	ACQWE	Z0503111023	SN=123
Alk	K1103453-002.04x6	3	9	7.28	30	250.55	ppmL	7.510 mL (152.7 mV)	57.35	00855	05-02-11	23:53	ACQWE	Z0503111023	SN=123
Alk	K1103453-004.04x2	3	10	7.66	30	322.36	ppmL	9.662 mL (152.7 mV)	57.35	00855	05-03-11	00:05	ACQWE	Z0503111023	SN=123
Alk	K1103453-005.04	3	11	7.30	30	250.00	ppmL	7.493 mL (152.7 mV)	57.35	00855	05-03-11	00:20	ACQWE	Z0503111023	SN=123
Alk	K1103509-001.05x6	3	12	7.35	30	394.81	ppmL	11.834 mL (152.7 mV)	57.35	00855	05-03-11	00:32	ACQWE	Z0503111023	SN=123
Alk	K1103509-002.05	3	13	7.23	30	159.26	ppmL	4.773 mL (152.7 mV)	57.35	00855	05-03-11	00:50	ACQWE	Z0503111023	SN=123
Alk	K1103509-003.05x2	3	14	7.06	30	436.38	ppmL	13.080 mL (152.7 mV)	57.35	00855	05-03-11	00:58	ACQWE	Z0503111023	SN=123
Alk	K1103509-004.05	3	15	7.59	30	457.76	ppmL	13.720 mL (152.7 mV)	57.35	00855	05-03-11	01:17	ACQWE	Z0503111023	SN=123
Alk	K1103509-005.x6	3	16	7.45	30	213.59	ppmL	6.402 mL (152.7 mV)	57.35	00855	05-03-11	01:38	ACQWE	Z0503111023	SN=123
Alk	K1103509-005.x6d	3	17	7.42	30	205.81	ppmL	6.169 mL (152.7 mV)	57.35	00855	05-03-11	01:48	ACQWE	Z0503111023	SN=123
Alk	K1103509-006.05x6	3	18	8.56	30	46.445	ppmL	1.392 mL (-65.2 mV)	57.35	00855	05-03-11	01:58	ACQWE	Z0503111023	SN=123
Alk	K1103509-007.05	3	19	6.03	30	5.8908	ppmL	0.177 mL (152.7 mV)	57.35	00855	05-03-11	02:28	ACQWE	Z0503111023	SN=123
Alk	K1103509-008.05x2	3	20	7.55	30	384.51	ppmL	11.525 mL (152.7 mV)	57.35	00855	05-03-11	02:31	ACQWE	Z0503111023	SN=123
Alk	K1103561-001.03	3	21	7.11	30	262.82	ppmL	7.878 mL (152.7 mV)	57.35	00855	05-03-11	02:48	ACQWE	Z0503111023	SN=123
Alk	K1103561-002.03	3	22	7.29	30	255.27	ppmL	7.651 mL (152.7 mV)	57.35	00855	05-03-11	03:01	ACQWE	Z0503111023	SN=123
Alk	K1103561-003.03	3	23	7.59	30	240.56	ppmL	7.210 mL (152.7 mV)	57.35	00855	05-03-11	03:13	ACQWE	Z0503111023	SN=123
Alk	K1103561-004.03	3	24	7.21	30	152.23	ppmL	4.563 mL (152.7 mV)	57.35	00855	05-03-11	03:25	ACQWE	Z0503111023	SN=123
Alk	K1103561-005.03	3	25	7.60	30	309.23	ppmL	9.269 mL (152.7 mV)	57.35	00855	05-03-11	03:33	ACQWE	Z0503111023	SN=123
Alk	MB-2	3	26	6.16	30	5.9641	ppmL	0.179 mL (152.7 mV)	57.35	00855	05-03-11	03:47	ACQWE	Z0503111023	SN=123
Alk	LCS-2	3	27	8.57	30	6.1688	ppmL	0.185 mL (-65.2 mV)	57.35	00855	05-03-11	03:50	ACQWE	Z0503111023	SN=123
Alk	LCS-2	3	27	8.57	30	32.667	ppmL	0.979 mL (152.7 mV)	57.35	00855	05-03-11	03:50	ACQWE	Z0503111023	SN=123
Alk	K1103561-006.03x6	3	28	7.32	30	175.38	ppmL	5.257 mL (152.7 mV)	57.35	00855	05-03-11	03:54	ACQWE	Z0503111023	SN=123
Alk	K1103561-007.03	3	29	7.48	30	332.08	ppmL	9.954 mL (152.7 mV)	57.35	00855	05-03-11	04:03	ACQWE	Z0503111023	SN=123
Alk	K1103561-007.03d	3	30	7.37	30	336.54	ppmL	10.087 mL (152.7 mV)	57.35	00855	05-03-11	04:18	ACQWE	Z0503111023	SN=123
Alk	K1103561-008.03	3	31	7.19	30	158.51	ppmL	4.751 mL (152.7 mV)	57.35	00855	05-03-11	04:34	ACQWE	Z0503111023	SN=123

241705

Test ID	LIMS ID	Meth ID	Smpl ID	pH	SmpVol	SmplResults	Units	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Instr ID
HL Alk	K1103561-009.03	3	32	7.7	30				57.35	00855	05-03-11	04:42	ACQWE	Z0503111023	SN=123
Alk	K1103561-010.03	3	33	7.66	30	313.41	ppm(f)	9.394 mL (152.7 mV)	57.35	00855	05-03-11	05:11	ACQWE	Z0503111023	SN=123
Alk	K1103574-001.07	3	34	7.58	30	145.80	ppm(f)	4.370 mL (152.7 mV)	57.35	00855	05-03-11	05:26	ACQWE	Z0503111023	SN=123
Alk	K1103574-001.07d	3	35	7.56	30	153.53	ppm(f)	4.602 mL (152.7 mV)	57.35	00855	05-03-11	05:34	ACQWE	Z0503111023	SN=123
Alk	K1103574-002.07	3	36	7.97	30	257.81	ppm(f)	7.727 mL (152.7 mV)	57.35	00855	05-03-11	05:42	ACQWE	Z0503111023	SN=123
Alk	K1103574-003.07	3	37	7.55	30	301.40	ppm(f)	9.034 mL (152.7 mV)	57.35	00855	05-03-11	05:55	ACQWE	Z0503111023	SN=123
Alk	K1103453-001x2	3	38	7.90	30				57.35	00855	05-03-11	06:09	ACQWE	Z0503111023	SN=123
K11034	K1103453-001x2d	K11034	39	8.09	30				57.35	00855	05-03-11	06:38	ACQWE	Z0503111023	SN=123
Alk	K1103392-001x6	3	40	8.31	30	1.1351	ppm(f)	0.034 mL (-65.2 mV)	57.35	00855	05-03-11	07:07	ACQWE	Z0503111023	SN=123
Alk	K1103392-001x6	3	40	8.31	30	316.55	ppm(f)	9.488 mL (152.7 mV)	57.35	00855	05-03-11	07:07	ACQWE	Z0503111023	SN=123

Work Request # Original (K2574)
 Tier: IV
 Date Analyzed: 4/27/11
 Analyst: IF
 Analysis: NO₂ (SM 4100 NO₂B) RW # 243925

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

- | | | |
|-----|---|------------------|
| 1. | Is the method name and number correct and appropriate? | <u>yes/no/NA</u> |
| 2. | Holding times met for all analyses and for all samples? | <u>yes/no/NA</u> |
| 3. | Are calculations correct? | <u>yes/no/NA</u> |
| 4. | Is the reporting basis correct? (Dry Weight) | <u>yes/no/NA</u> |
| 5. | All quality control criteria met? | <u>yes/no/NA</u> |
| a. | Is the calibration curve correlation coefficient ≥ 0.995 ? | <u>yes/no/NA</u> |
| b. | MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? | <u>yes/no/NA</u> |
| c. | Are ICVs, CCVs, and CCBs all within acceptance limits? | <u>yes/no/NA</u> |
| d. | Are results for methods blanks all ND? | <u>yes/no/NA</u> |
| e. | Are all QC samples within acceptance criteria?
(LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) | <u>yes/no/NA</u> |
| f. | Are all exceptions explained? | <u>yes/no/NA</u> |
| 6. | Are all service requests that apply attached? | <u>yes/no/NA</u> |
| 7. | Are all samples labelled correctly? | <u>yes/no/NA</u> |
| 8. | Have all instructions on the service request been followed?
(e.g. Special MRLs, QC on a specific sample) | <u>yes/no/NA</u> |
| 9. | Are detection limits and units reported correctly? | <u>yes/no/NA</u> |
| 10. | Are proper Analysis/Extraction stickers included on report? | <u>yes/no/NA</u> |
| 11. | Is the unused space on the benchsheet crossed out? | <u>yes/no/NA</u> |
| 12. | Was analysis turned in by the due date? (n-2) (If not record SR#) | <u>yes/no/NA</u> |

COMMENTS:

2. K2574 - 004.005 - received samples past hold time
 SWITCHED METHOD FROM 353.2/NO₂ TO SM 4100 NO₂B)

Final Approved by: [Signature] Date: 5/2/11 DQREPORT

Analytical Results Summary

Sm 4500-NO2 B

Instrument Name: K-FIA-01

Analyst: IFRANKS

Analysis Lot: 243925

Method/Testcode: 3532/NO2

mk 5/24/11

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
K1103574-001	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV
K1103574-002	Nitrite as Nitrogen	N/A		Water	0.01 mg/L	50 mL	0.007 mg/L J	1	0.005	0.050			4/27/11 12:30:00	N IV
K1103574-003	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV
K1103574-004	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV
K1103574-005	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV
K1103574-006	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV
K1103574-007	Nitrite as Nitrogen	N/A		Water	0.01 mg/L	50 mL	0.007 mg/L J	1	0.005	0.050			4/27/11 12:30:00	N IV
K1103574-008	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV
K1103574-009	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV
KQ1103856-01	Nitrite as Nitrogen	MB		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV
KQ1103856-02	Nitrite as Nitrogen	LCS		Water	0.54 mg/L	50 mL	0.543 mg/L	1	0.005	0.050	109		4/27/11 12:30:00	N IV
KQ1103856-03	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.050	0.050			4/27/11 12:30:00	N IV
KQ1103856-04	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.050	0.050			4/27/11 12:30:00	N IV
KQ1103856-05	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.050	0.050			4/27/11 12:30:00	N IV
KQ1103856-06	Nitrite as Nitrogen	CCV		Water	0.10 mg/L	50 mL	0.104 mg/L	1					4/27/11 12:30:00	N IV
KQ1103856-07	Nitrite as Nitrogen	CCV		Water	0.09 mg/L	50 mL	0.0927 mg/L	1					4/27/11 12:30:00	N IV
KQ1103856-08	Nitrite as Nitrogen	CCV		Water	0.10 mg/L	50 mL	0.0952 mg/L	1					4/27/11 12:30:00	N IV
KQ1103856-09	Nitrite as Nitrogen	MS	K1103574-001	Water	0.10 mg/L	50 mL	0.0987 mg/L	1	0.005	0.050	99		4/27/11 12:30:00	N IV
KQ1103856-10	Nitrite as Nitrogen	DMS	K1103574-001	Water	0.10 mg/L	50 mL	0.0995 mg/L	1	0.005	0.050	100	<1	4/27/11 12:30:00	N IV
KQ1103856-11	Nitrite as Nitrogen	DUP	K1103574-001	Water	0.00 mg/L	50 mL	0.050 mg/L U	1	0.005	0.050			4/27/11 12:30:00	N IV

WF 4/30/11

0.01 0.002

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

1230 PM

DU520 S/N: 0112U2001732 1.03
 27-APR-11 12:32:54 SCA Group 2858
 Wavelength: 543.0 nm
 Formula: A=a+bC a: -0.0040 b: 2.7123

IF 4/27/11
 NO2 K7574, K3649NR

Sample	Net A	Dil X	mg/L
0001	CCB1 0.000	1.0000	0.0015
0002	CCU1 0.278	1.0000	0.1039
0003	MB 0.001	1.0000	0.0020
0004	LES 1.469	1.0000	0.5432
0005	K7574-1 0.002	1.0000	0.0021
0006	-10 0.002	1.0000	0.0023
0007	-105 0.264	1.0000	0.0987
0008	-105A 0.266	1.0000	0.0995
0009	-2 0.014	1.0000	0.0065
0010	-3 0.001	1.0000	0.0017
0011	-4 0.001	1.0000	0.0018
0012	-5 0.000	1.0000	0.0016
0013	CCB2 0.001	1.0000	0.0019
0014	0.172	1.0000	0.0647
0015	0.296	1.0000	0.1106
0016	CCU2 0.248	1.0000	0.0927
0017	K7574-6 0.001	1.0000	0.0019
0018	-7 0.015	1.0000	0.0069
0019	-8 0.000	1.0000	0.0015
0020	-9 0.000	1.0000	0.0016
0021	K7649-1 0.001	1.0000	0.0010
0022	-2 0.000	1.0000	0.0014
0023	-3 0.001	1.0000	0.0019
0024	-4 0.000	1.0000	0.0016
0025	-5 0.002	1.0000	0.0008
0026	CCB3 0.001	1.0000	0.0016
0027	CCU3 0.254	1.0000	0.0952

NOT REPORTED
 SWITCHED METHOD FROM
 354.1 TO 300

CURVE ID#: Coln/2-73-G
 CCU CD#: Coln/2-73-H TV= 0.1 PPM
 LES ID#: Coln/2-59-J TV= 0.5 PPM
 SPIKE CD#: ANI-33-EE
 SPIKE / SPIKE Dup = 0.1 PPM

1230 PM

IF 4/27/11

NO₂, K3574, K3649

DU520 S/N: 0112U2001732 1.03
27-APR-11 12:32:36 SCA
Wavelength: 543.0 nm
Formula: A=a+bC a: -0.0040 b: 2.7123

mg/L Net A r2=1.000 Var=0.0000

0.0000	0.000
0.0100	0.023
0.0300	0.074
0.0600	0.152
0.1000	0.269
0.2000	0.544
0.6000	1.622

Work Request # ^{Original} (K3562) K3563 K3574 K3693 K3844 K3977 T919
 Tier: I I I I I I I
 Date Analyzed: 05/06/11
 Analyst: Huyon
 Analysis: NO₂/NO₃-N - 353.2

245068

**DATA QUALITY REPORT
 INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

Final Approved by: A Date: 5/6/11 DQREPORT

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 245068

Method/Testcode: 353.2/N/NO2 NO3 T

h Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
103562-001	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.18 mg/L	5 mL	0.176 mg/L	1	0.009	0.050			5/6/11 10:02:00	N V
103563-001	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.89 mg/L	5 mL	0.888 mg/L	1	0.009	0.050			5/6/11 10:02:00	N V
103574-001	Nitrate+ Nitrite as Nitrogen	N/A		Water	3.15 mg/L	5 mL	31.5 mg/L	10	0.09	0.50			5/6/11 10:02:00	N IV
103574-002	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.81 mg/L	5 mL	8.13 mg/L	10	0.09	0.50			5/6/11 10:02:00	N IV
103574-003	Nitrate+ Nitrite as Nitrogen	N/A		Water	1.32 mg/L	5 mL	13.2 mg/L	10	0.09	0.50			5/6/11 10:02:00	N IV
103574-004	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.76 mg/L	5 mL	7.62 mg/L	10	0.09	0.50			5/6/11 10:02:00	N IV
103574-005	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.76 mg/L	5 mL	7.65 mg/L	10	0.09	0.50			5/6/11 10:02:00	N IV
103574-006	Nitrate+ Nitrite as Nitrogen	N/A		Water	1.24 mg/L	5 mL	31.1 mg/L	25	0.3	1.3			5/6/11 10:02:00	N IV
103574-007	Nitrate+ Nitrite as Nitrogen	N/A		Water	3.05 mg/L	5 mL	76.3 mg/L	25	0.3	1.3			5/6/11 10:02:00	N IV
103574-008	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.024 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
103574-009	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.06 mg/L	5 mL	0.063 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
103693-001	Nitrate+ Nitrite as Nitrogen	N/A		Water	2.76 mg/L	5 mL	2.76 mg/L	1	0.009	0.050			5/6/11 10:02:00	N I
103844-001	Nitrate+ Nitrite as Nitrogen	N/A		Water	2.84 mg/L	5 mL	2.84 mg/L	1	0.009	0.050			5/6/11 10:02:00	N I
103977-001	Nitrate+ Nitrite as Nitrogen	N/A		Water	3.11 mg/L	5 mL	3.11 mg/L	1	0.009	0.050			5/6/11 10:02:00	N I
103977-002	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.36 mg/L	5 mL	0.358 mg/L	1	0.009	0.050			5/6/11 10:02:00	N I
1104087-01	Nitrate+ Nitrite as Nitrogen	MS	K1103574-001	Water	3.23 mg/L	5 mL	80.7 mg/L	25	0.3	1.3	98		5/6/11 10:02:00	N IV
1104087-02	Nitrate+ Nitrite as Nitrogen	DMS	K1103574-001	Water	3.20 mg/L	5 mL	80.0 mg/L	25	0.3	1.3	97		5/6/11 10:02:00	N IV
1104087-03	Nitrate+ Nitrite as Nitrogen	DUP	K1103574-001	Water	3.15 mg/L	5 mL	31.5 mg/L	10	0.09	0.50		<1	5/6/11 10:02:00	N IV
1104087-04	Nitrate+ Nitrite as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-05	Nitrate+ Nitrite as Nitrogen	LCS		Water	1.67 mg/L	5 mL	16.7 mg/L	10	0.09	0.50	95		5/6/11 10:02:00	N IV
1104087-06	Nitrate+ Nitrite as Nitrogen	CCB		Water	0.01 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-07	Nitrate+ Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-08	Nitrate+ Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.015 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-09	Nitrate+ Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-10	Nitrate+ Nitrite as Nitrogen	CCB		Water	0.01 mg/L	5 mL	0.014 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-11	Nitrate+ Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-12	Nitrate+ Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-13	Nitrate+ Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-14	Nitrate+ Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-15	Nitrate+ Nitrite as Nitrogen	CCV		Water	1.95 mg/L	5 mL	1.95 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-16	Nitrate+ Nitrite as Nitrogen	CCV		Water	1.95 mg/L	5 mL	1.95 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
1104087-17	Nitrate+ Nitrite as Nitrogen	CCV		Water	1.94 mg/L	5 mL	1.94 mg/L	1	0.009	0.050			5/6/11 10:02:00	N IV
00519-002	Nitrate+ Nitrite as Nitrogen	N/A		Water	1.03 mg/L	5 mL	1.03 mg/L	1	0.009	0.050			5/6/11 10:02:00	N I
00519-003	Nitrate+ Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			5/6/11 10:02:00	N I

R3574 - dss

Indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

LCS ID#: P03/3-79-1 TV = 11.7
Spiked ID#: B + LNO₃/2-1-F TV = 50.0
Curve, CV ID#: B + LNO₃/2-21-C TV = 2.00
IGV ID#: B + LNO₃/2-41-D TV = 2.00

05/06/11
Thang
 Page 1 of 1

BRAN+LUEBBE

Post-run report

Name of Run : 110506B
 Date of Report : 5/6/2011
 Date of Run : 5/6/2011
 Operator :
 Comment :

Name of Analysis :NO2+NO3
 System No. :1
 Type of System :AA3
 Start/Stop time :10:02 - 11:34

Channel : 2
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. : 1.0000
 Base : -26409
 Gain : 5
 Sensitivity : 1.8062
 Sample Limit 1 :
 Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	0.0020
1	1	P primer	4.9498
2	1	D Drift	4.9637
3	1	C 5.00	5.0064
4	2	C 2.00	1.9833
5	3	C 0.50	0.5018
6	4	C 0.05	0.0553
7	5	C 0	0.0033
8	1	H1 High	5.0037
9	0	L1 Low	0.0077
10	0	L1 Low	0.0078
11	9	QC3 ICV	1.8923
12	5	QC2 ICB	0.0070
13	5	QC2 CCB1	0.0057
14	2	QC1 CCV1	1.9696
15	10	QC4 LCS1*10	1.6736
16	11	S MB MS	1.9828
17	0	N Null	-0.0011N
18	5	QC2 MB1	0.0033
19	12	S k1103574-001	13.3466*
20	13	S k1103574-001d	13.2946*
21	14	S k1103574-001ms	13.2861*
22	15	S k1103574-001msd	13.2774*
23	16	S k1103574-002	13.2690*
24	0	B Baseline	0.0020
25	5	QC2 CCB2	0.0011
26	2	QC1 CCV2	1.9669

1.89 95%
 <0.05
 1.98 99%

dis J } NR

05/06/11
 [Signature]

27	17	S	k1103574-003	13.2691*
28	18	S	k1103574-004	13.2263*
29	19	S	k1103574-005	13.2204*
30	20	S	k1103574-006	13.2133*
31	21	S	k1103574-007	13.2074*
32	22	S	k1103574-008	0.3569
33	23	S	k1103574-009	0.0625
34	24	S	t1100519-002	1.0254
35	25	S	t1100519-003	0.0330
36	0	B	Baseline	0.0020
37	5	QC2	CCB3	0.0151
38	2	QC1	CCV3	1.9675
39	26	S	k1103562-001	0.1762
40	27	S	k1103563-001	0.8881
41	28	S	k1103693-001	2.7576
42	29	S	k1103844-001	2.8447
43	30	S	k1103977-001	3.1094
44	31	S	k1103977-002	0.3575
45	32	S	rinse	0.0074
46	33	S	k1103574-001*10	3.1508
47	34	S	k1103574-001d*10	3.1518
48	0	B	Baseline	0.0020
49	5	QC2	CCB4	0.0044
50	2	QC1	CCV4	1.9484
51	35	S	k1103574-001ms*10	5.1594*
52	36	S	k1103574-001msd*10	5.1053*
53	37	S	k1103574-002*25	0.3400
54	38	S	k1103574-002*25	0.3263
55	39	S	k1103574-003*25	0.5204
56	40	S	k1103574-004*25	0.3028
57	41	S	k1103574-005*25	0.3043
58	42	S	k1103574-006*25	1.2446
59	43	S	k1103574-007*25	3.0502
60	0	B	Baseline	0.0020
61	5	QC2	CCB5	0.0142
62	2	QC1	CCV5	1.9495
63	44	S	k1103574-008	0.0236
64	45	S	k1103574-001ms*25	3.2274
65	46	S	k1103574-001msd*25	3.1995
66	47	S	rinse	0.0188
67	48	S	k1103574-002*10	0.8134
68	49	S	k1103574-003*10	1.3165
69	50	S	k1103574-004*10	0.7624
70	51	S	k1103574-005*10	0.7646
71	0	B	Baseline	0.0020
72	5	QC2	CCB6	0.0044
73	2	QC1	CCV6	1.9380
74	1	D	Drift	4.9637
75	0	B	Baseline	0.0020
76	0	B	FinalBase	0.0020

disc

NR

NR

05/06/11
Haugen

QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	
QC 6	Unused	
QC 7	Unused	
QC 8	Unused	
QC 9	Unused	
QC10	Unused	

CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.3

* ... Sample offscale
+ ... Result higher than sample limit
- ... Result lower than sample limit
P ... Standard passed
F ... Standard failed
N ... Value not calculated or not used
R ... Resample after offscale
M ... Peak marker moved manually
D ... Diluted sample

** <END OF REPORT> **

05/06/11
Huygens

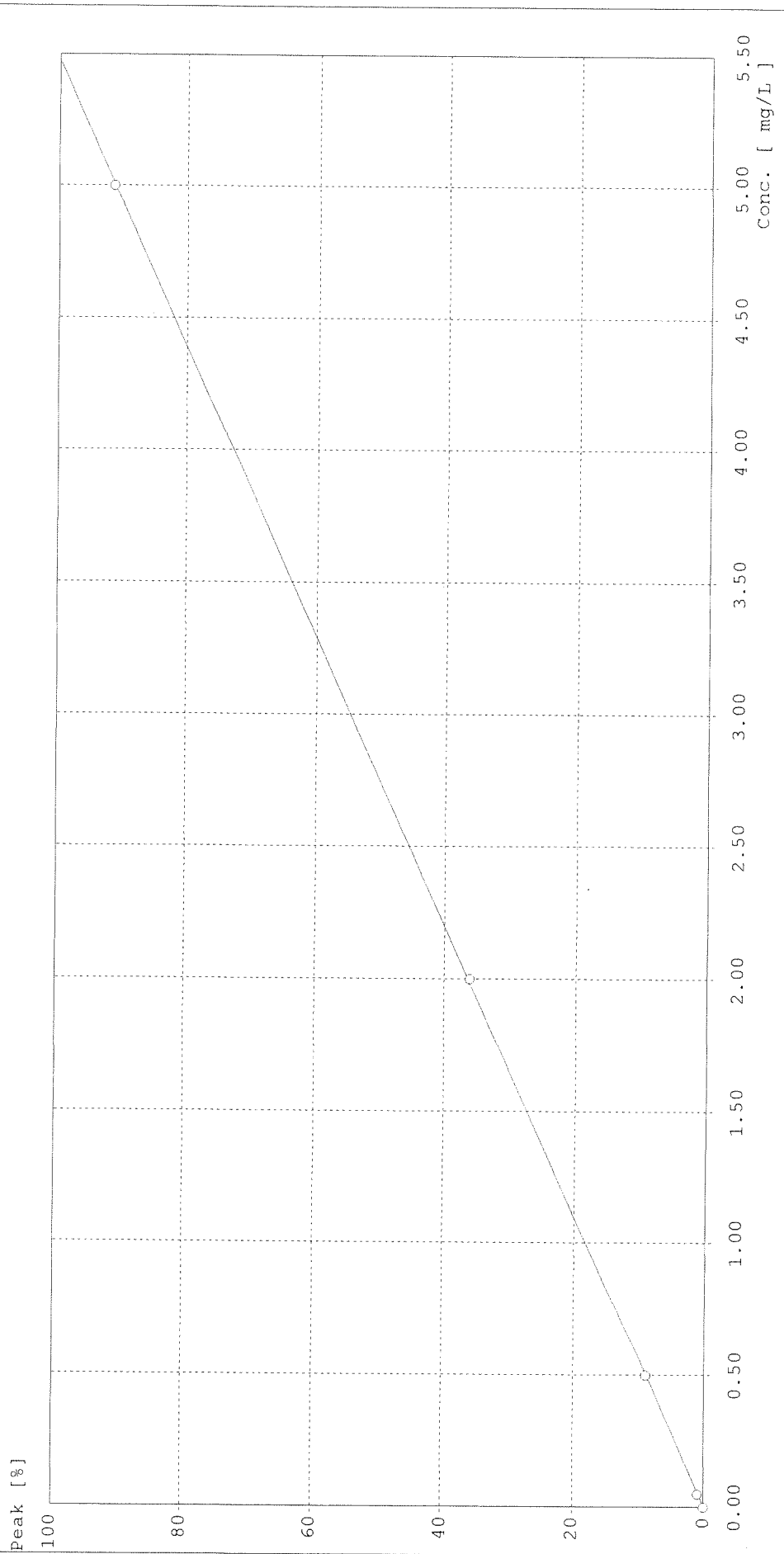
BRAN+LUEBBE

Calibration Curve

Name of run : 110506B.run
Comment :

Name of analysis : NO2+NO3

Channel : 2
Method : Method 2
Curve fit : linear a=-2.6373E-001 b=8.3591E-005
Corr. coeff. : 1.0000



05/06/11
Flourens

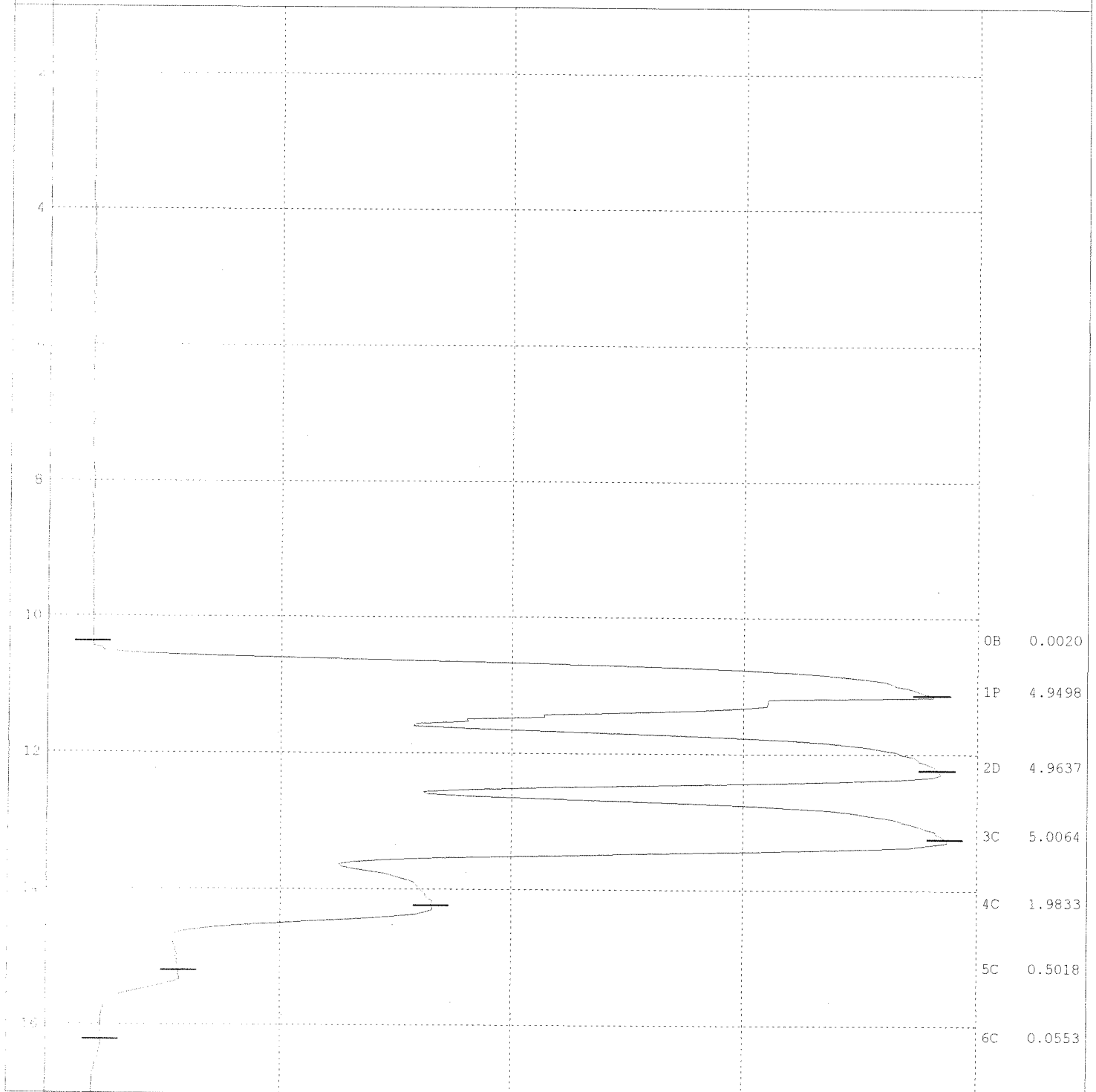
BRAN+LUEBBE

Post-run chart

Name of run : 110506B.RUN
Comment :

Name of analysis : NO2+NO3

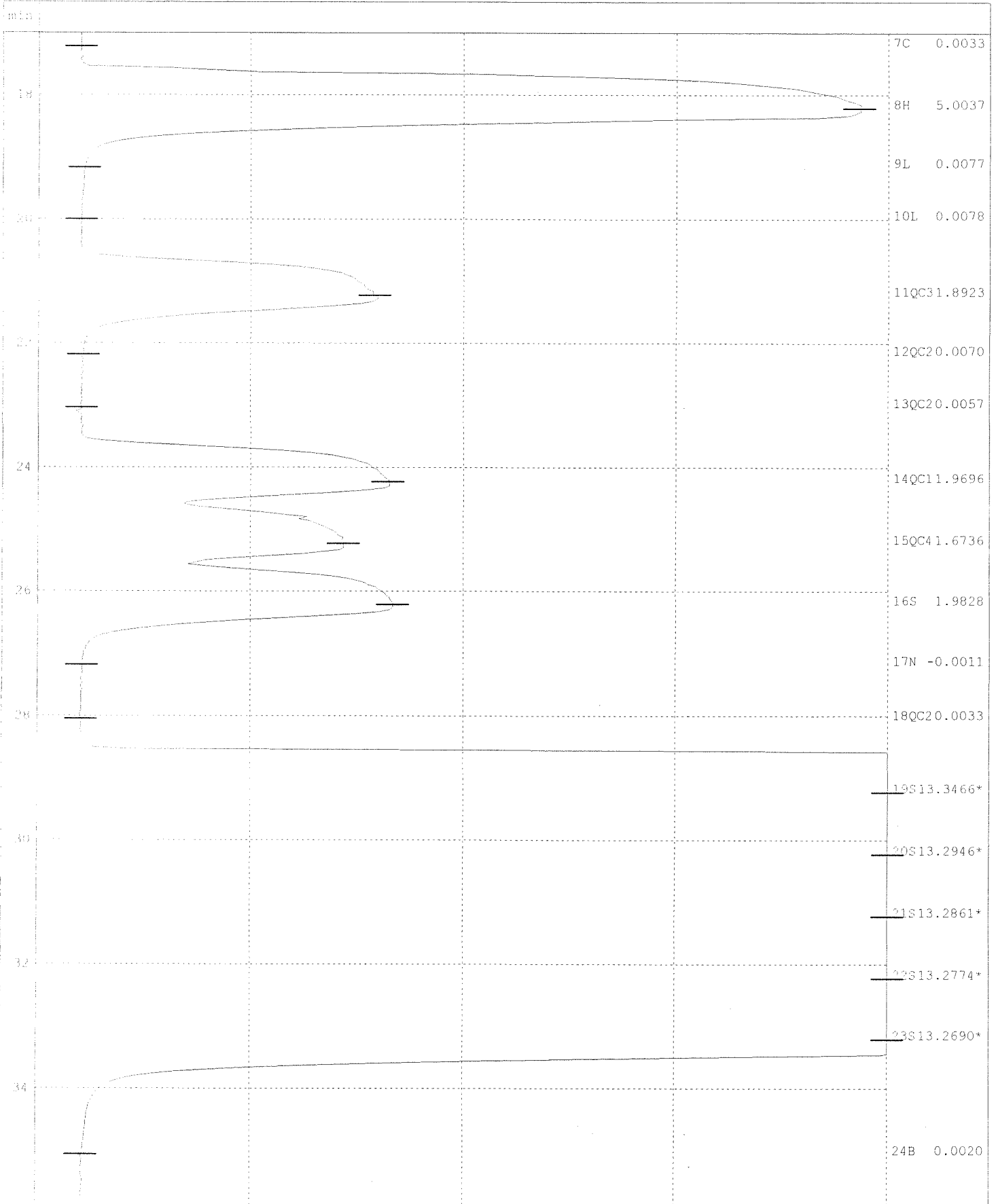
mit. Channel : 2
Method : Method 2
Unit : mg/L
Base : -26409
Gain : 5
Corr. : 1.0000



05/06/11
Handwritten signature

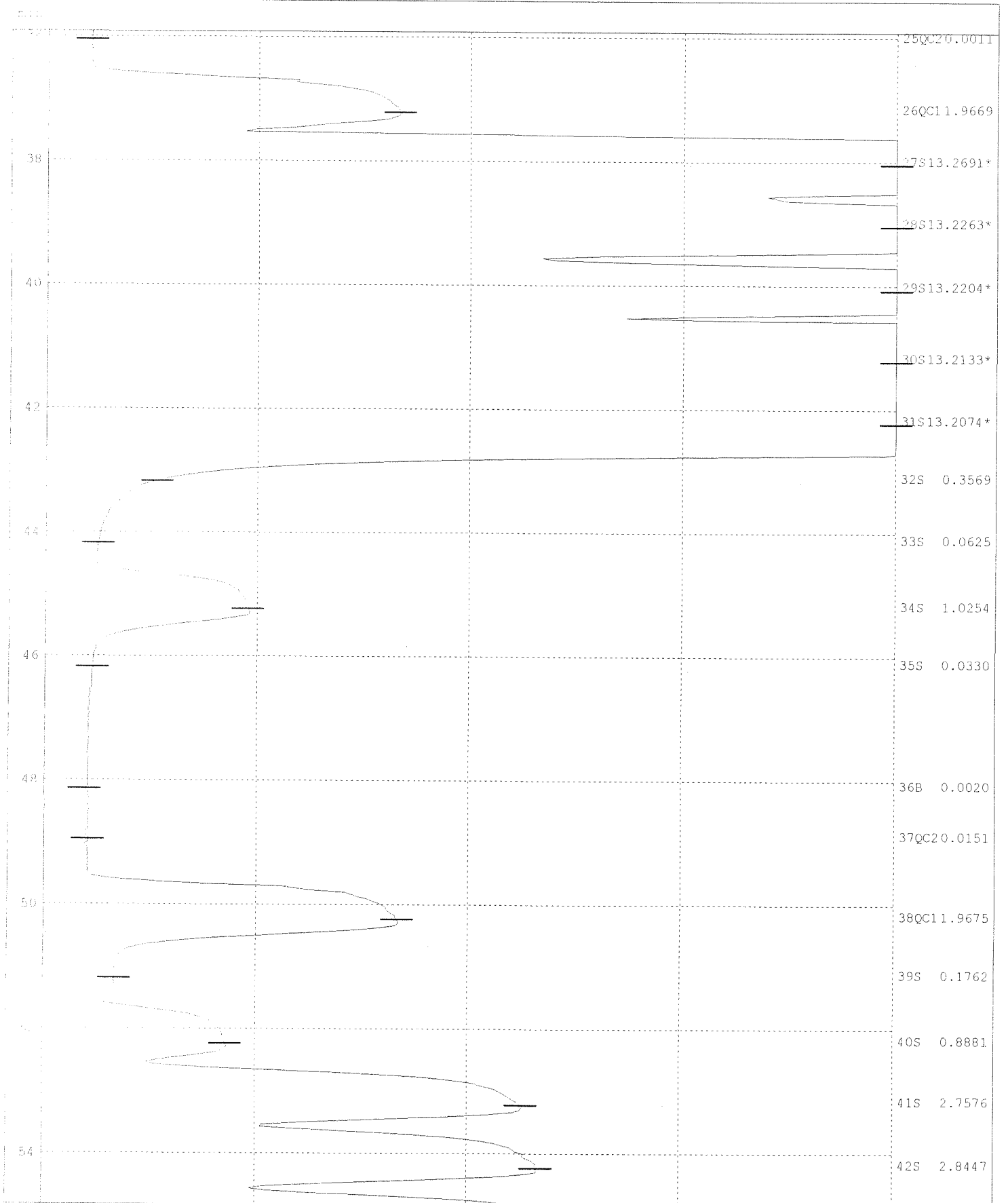
Name of run :110506B.RUN
Comment :

Name of analysis :NO2+NO3



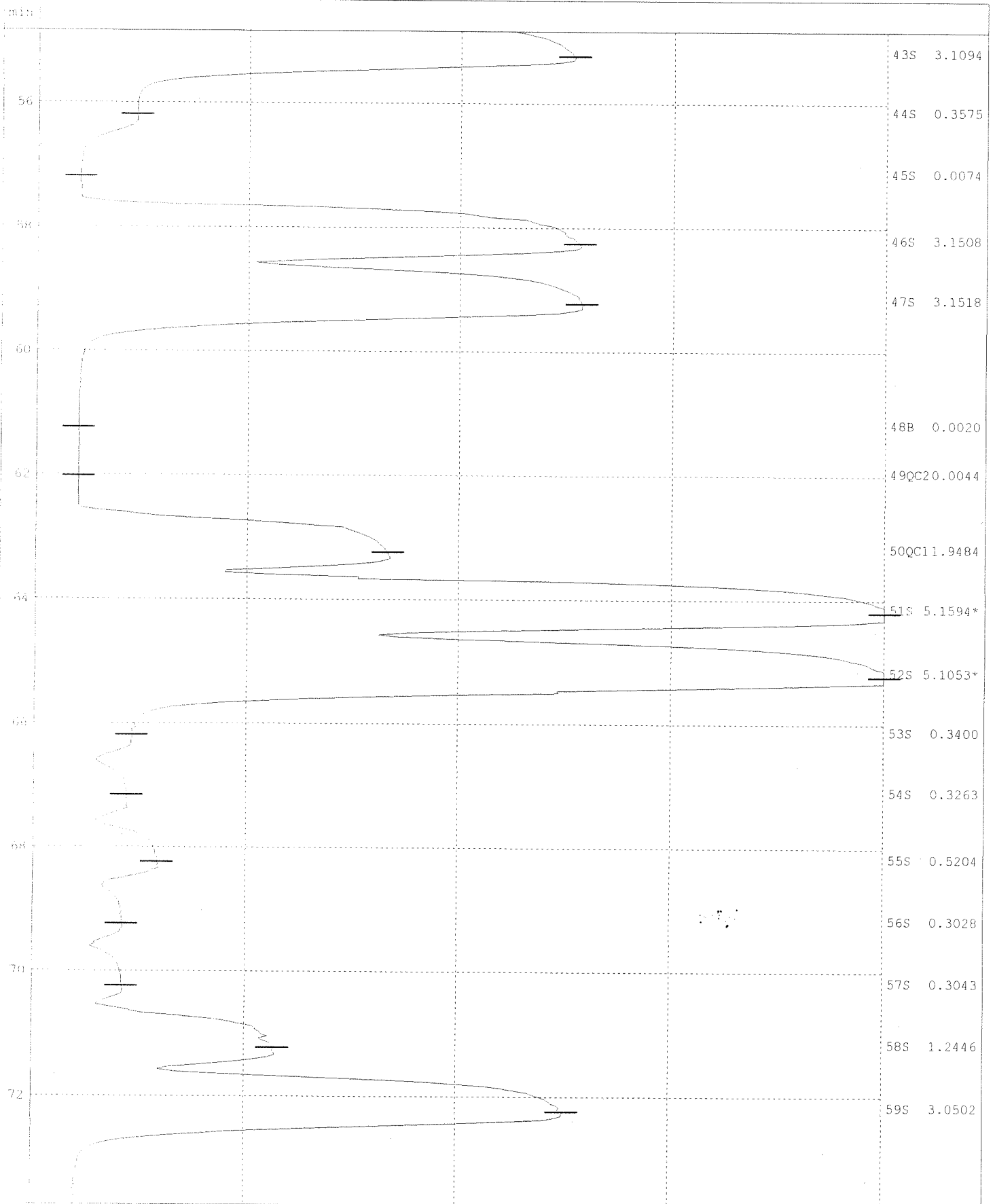
Name of run :110506B.RUN
Comment :

Name of analysis :NO2+NO3



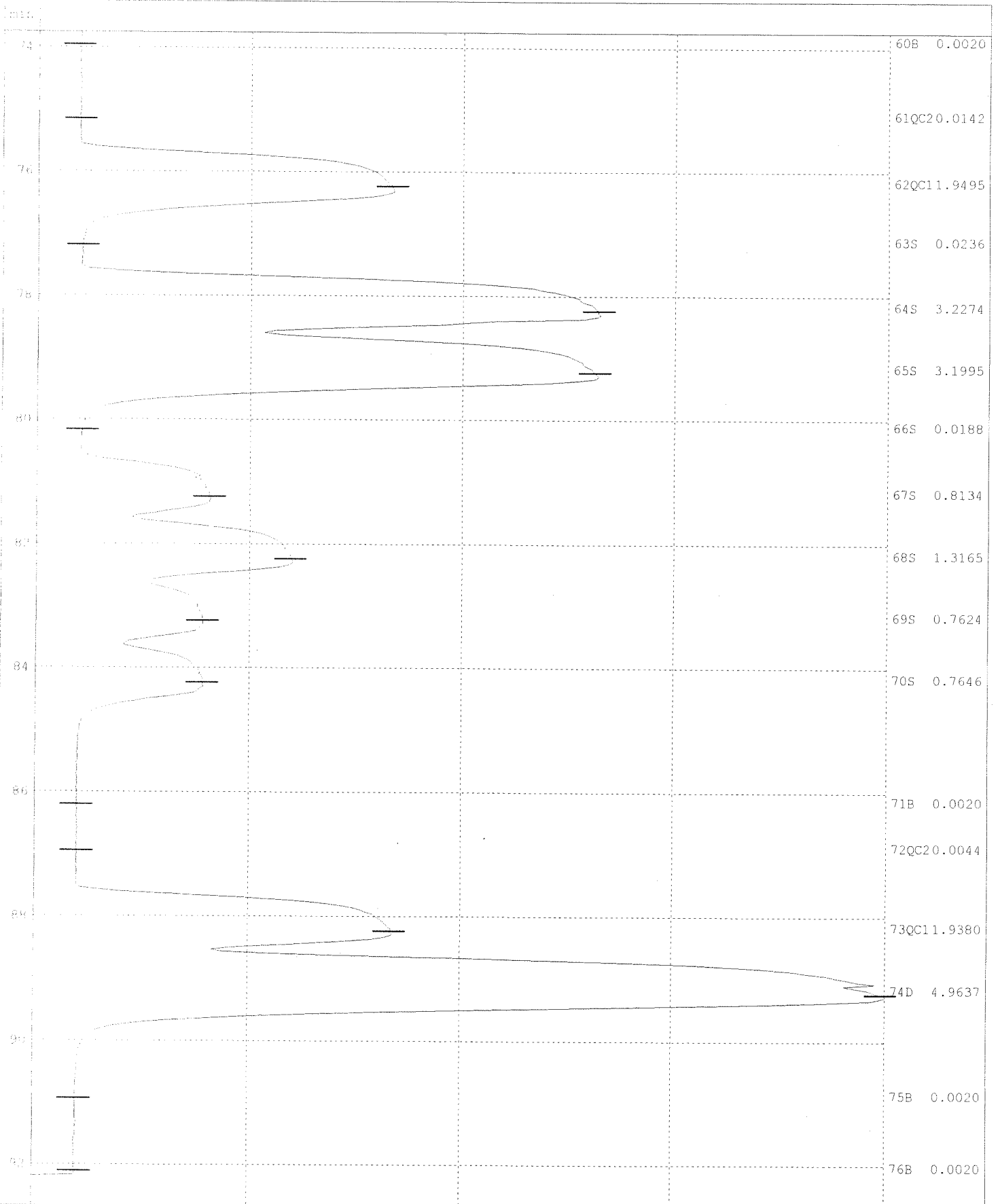
Name of run :110506B.RUN
Comment :

Name of analysis :NO2+NO3



Name of run :110506B.RUN
Comment :

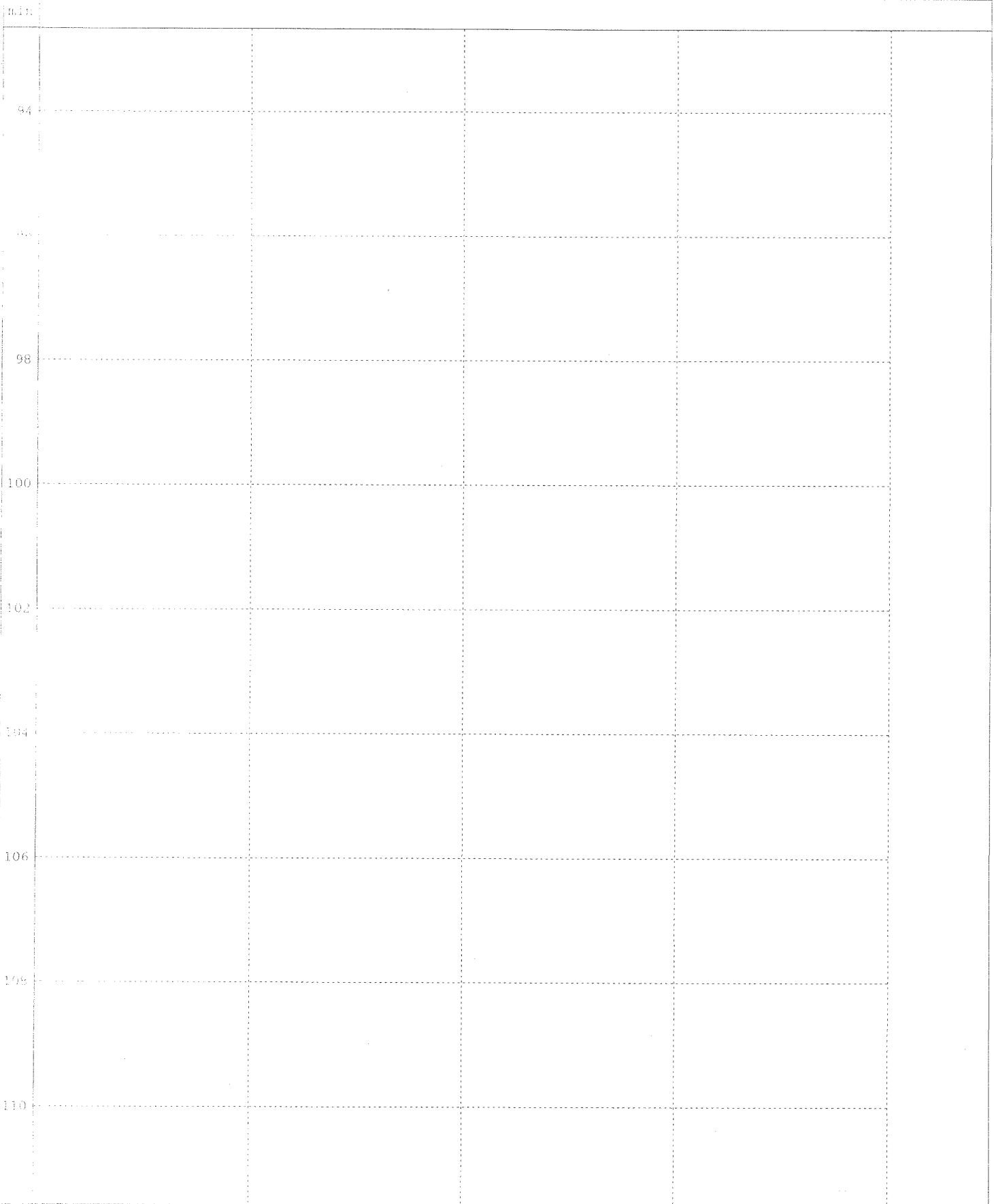
Name of analysis :NO2+NO3



Name of run :110506B.RUN
Comment :

Name of analysis :NO2+NO3

76B 0.0020



Work Request # ^{Original} (3561) 3569 3570 3574 3588 3589 3592 3716
 Tier: II II II IV I II II II
 Date Analyzed: 5/2/11
 Analyst: BL for BK
 Analysis: TDS 244538

**DATA QUALITY REPORT
INORGANICS**

Explain any "no" responses to questions below, and any corrective actions in the comments section below.

1. Is the method name and number correct and appropriate? yes/no/NA
2. Holding times met for all analyses and for all samples? yes/no/NA
3. Are calculations correct? yes/no/NA
4. Is the reporting basis correct? (Dry Weight) yes/no/NA
5. All quality control criteria met? yes/no/NA
 - a. Is the calibration curve correlation coefficient ≥ 0.995 ? yes/no/NA
 - b. MBs, CCVs, CCBs, LCSs, Dups, and Spikes, analyzed at proper frequency? yes/no/NA
 - c. Are ICVs, CCVs, and CCBs all within acceptance limits? yes/no/NA
 - d. Are results for methods blanks all ND? yes/no/NA
 - e. Are all QC samples within acceptance criteria? (LCS % rec, MS/DMS % rec, DUP or MS/DMS RPDs, etc.) yes/no/NA
 - f. Are all exceptions explained? yes/no/NA
6. Are all service requests that apply attached? yes/no/NA
7. Are all samples labelled correctly? yes/no/NA
8. Have all instructions on the service request been followed? (e.g. Special MRLs, QC on a specific sample) yes/no/NA
9. Are detection limits and units reported correctly? yes/no/NA
10. Are proper Analysis/Extraction stickers included on report? yes/no/NA
11. Is the unused space on the benchsheet crossed out? yes/no/NA
12. Was analysis turned in by the due date? (n-2) (If not record SR#) yes/no/NA

COMMENTS:

2. 3561, 3570 - past holding time. See NCAR
 - All samples with a "*" - The second wt. did not confirm initial wt within 0.0005g. All samples are past holding time now, so they were not re-analyzed. See NCAR
 - 3716-1 dup - initial wt. did not confirm the second wt at all.
 12. 3569, 3570, 3716 - past due date

Final Approved by: [Signature] Date: 5/16/11 DQREPORT

3561-9, 3716-1, 3716-2 - TDS & cond.
 3561-8, 3716-2 TDS too low compared w. cond. } will re-analyze for confirmation

Analytical Results Summary

Instrument Name: K-Balance-31

Analyst: BKIRBY

Analysis Lot: 244538

Method/Testcode: SM 2540 C/TDS

ab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
1103561-004	Solids, Total Dissolved	N/A		Water	250.00 mg/L	100 ml	250 mg/L	1	10	10			5/2/11 00:00	N	II
1103561-005	Solids, Total Dissolved	N/A		Water	376.00 mg/L	100 ml	376 mg/L	1	10	10			5/2/11 00:00	N	II
1103561-006	Solids, Total Dissolved	N/A		Water	1109.30 mg/L	75 ml	1110 mg/L	1	14	14			5/2/11 00:00	N	II
1103561-007	Solids, Total Dissolved	N/A		Water	418.00 mg/L	100 ml	418 mg/L	1	10	10			5/2/11 00:00	N	II
1103561-008	Solids, Total Dissolved	N/A		Water	237.30 mg/L	75 ml	237 mg/L	1	14	14			5/2/11 00:00	N	II
1103561-009	Solids, Total Dissolved	N/A		Water	871.00 mg/L	100 ml	871 mg/L	1	10	10			5/2/11 00:00	N	II
1103561-010	Solids, Total Dissolved	N/A		Water	388.00 mg/L	100 ml	388 mg/L	1	10	10			5/2/11 00:00	N	II
1103569-001	Solids, Total Dissolved	N/A		Water	246.00 mg/L	100 ml	246 mg/L	1	10	20			5/2/11 00:00	N	V
1103570-001	Solids, Total Dissolved	N/A		Water	142.00 mg/L	100 ml	142 mg/L	1	10	20			5/2/11 00:00	N	V
1103574-001	Solids, Total Dissolved	N/A		Water	1189.30 mg/L	75 ml	1190 mg/L	1	14	14			5/2/11 00:00	N	IV
1103574-002	Solids, Total Dissolved	N/A		Water	532.00 mg/L	100 ml	532 mg/L	1	10	10			5/2/11 00:00	N	IV
1103574-003	Solids, Total Dissolved	N/A		Water	488.00 mg/L	100 ml	488 mg/L	1	10	10			5/2/11 00:00	N	IV
1103574-004	Solids, Total Dissolved	N/A		Water	412.00 mg/L	100 ml	412 mg/L	1	10	10			5/2/11 00:00	N	IV
1103574-005	Solids, Total Dissolved	N/A		Water	430.00 mg/L	100 ml	430 mg/L	1	10	10			5/2/11 00:00	N	IV
1103574-006	Solids, Total Dissolved	N/A		Water	1708.00 mg/L	75 ml	1710 mg/L	1	14	14			5/2/11 00:00	N	IV
1103574-007	Solids, Total Dissolved	N/A		Water	2214.00 mg/L	50 ml	2210 mg/L	1	20	20			5/2/11 00:00	N	IV
1103574-008	Solids, Total Dissolved	N/A		Water	14.00 mg/L	200 ml	14.0 mg/L	1	5.0	5.0			5/2/11 00:00	N	IV
1103574-009	Solids, Total Dissolved	N/A		Water	15.50 mg/L	200 ml	15.5 mg/L	1	5.0	5.0			5/2/11 00:00	N	IV
1103588-001	Solids, Total Dissolved	N/A		Drinking Water	79.00 mg/L	100 ml	79 mg/L	1	10	10			5/2/11 00:00	N	I
1103589-001	Solids, Total Dissolved	N/A		Water	213.00 mg/L	100 ml	213 mg/L	1	10	10			5/2/11 00:00	N	V
1103589-002	Solids, Total Dissolved	N/A		Water	352.00 mg/L	100 ml	352 mg/L	1	10	10			5/2/11 00:00	N	V
1103592-002	Solids, Total Dissolved	N/A		Water	203.00 mg/L	100 ml	203 mg/L	1	10	10			5/2/11 00:00	N	V
1103592-003	Solids, Total Dissolved	N/A		Water	205.00 mg/L	100 ml	205 mg/L	1	10	10			5/2/11 00:00	N	V
1103592-004	Solids, Total Dissolved	N/A		Water	199.00 mg/L	100 ml	199 mg/L	1	10	10			5/2/11 00:00	N	V
1103716-001	Solids, Total Dissolved	N/A		Water	1863.00 mg/L	100 ml	1860 mg/L	1	10	20			5/2/11 00:00	N	V
1103716-002	Solids, Total Dissolved	N/A		Water	652.00 mg/L	75 ml	652 mg/L	1	14	27			5/2/11 00:00	N	V
1103716-003	Solids, Total Dissolved	N/A		Water	37.30 mg/L	150 ml	37 mg/L	1	7	13			5/2/11 00:00	N	V
1103716-004	Solids, Total Dissolved	N/A		Water	47.20 mg/L	193 ml	47 mg/L	1	6	10			5/2/11 00:00	N	V
Q1103931-01	Solids, Total Dissolved	MB		Water	1.00 mg/L	200 ml	10 mg/L	U	1	5			5/2/11 00:00	N	II
Q1103931-02	Solids, Total Dissolved	MB		Water	2.00 mg/L	200 ml	10 mg/L	U	1	5			5/2/11 00:00	N	II
Q1103931-03	Solids, Total Dissolved	LCS		Water	1674.00 mg/L	50 ml	1670 mg/L	1	20	40		96	5/2/11 00:00	N	II
Q1103931-09	Solids, Total Dissolved	LCS		Water	1726.00 mg/L	50 ml	1730 mg/L	1	20	40		99	5/2/11 00:00	N	II
Q1103931-10	Solids, Total Dissolved	DUP	K1103561-004	Water	233.00 mg/L	100 ml	233 mg/L	1	10	20			5/2/11 00:00	N	II
Q1103931-11	Solids, Total Dissolved	DUP	K1103570-001	Water	136.00 mg/L	100 ml	136 mg/L	1	10	20			5/2/11 00:00	N	V
Q1103931-12	Solids, Total Dissolved	DUP	K1103716-001	Water	1944.00 mg/L	100 ml	1940 mg/L	1	10	20			5/2/11 00:00	N	V
Q1103931-13	Solids, Total Dissolved	DUP	K1103592-003	Water	202.00 mg/L	100 ml	202 mg/L	1	10	20			5/2/11 00:00	N	V

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

COLUMBIA ANALYTICAL SERVICES, INC.

538
24467
BK
5/19/11

Work Order #.:

Method: EPA SM 2540 C

Analysis:

Total Dissolved Solids

Sample #	Crucible #	Conductivity	Sample Volume (ml)	Wt. Cru. + Dry sample (1) (g)	Wt. Cru. + Dry sample (2) (g)	Wt. Cru. + Dry sample (3) (g)	Wt. Crucible (g)	Wt. Dry Sample (g)	TDS (mg/L)	TDS (mg/L) reported
MB	25A		200	118.2810	118.2813		118.2808	0.0002	1.00	<5
MB	12Z		200	115.9914	115.9908	*	115.9910	0.0004	2.00	<5
LCS	32Y		50	75.4655	75.4655		75.3818	0.0837	1674	1670
LCS	2Y		50	87.5235	87.5229	*	87.4372	0.0863	1726	1730
K1103561-004	16Y	286	100	82.4872	82.4880	*	82.4622	0.0250	250	250
K1103561-005	39	550	100	78.5477	78.5474		78.5101	0.0376	376	376
K1103561-006	CRITTER	1500	75	71.0210	71.0214		70.9378	0.0832	1109	1110
K1103561-007	31	610	100	78.8117	78.8109	*	78.7699	0.0418	418	418
K1103561-008	B17	1235	75	86.4976	86.4971		86.4798	0.0178	237	237
K1103561-009	TREE	305	100	78.0009	77.9998	*	77.9138	0.0871	871	871
K1103561-010	21	550	100	75.5874	75.5874		75.5486	0.0388	388	388
K1103569-001	25	350	100	78.0410	78.0404	*	78.0164	0.0246	246	246
K1103570-001	34	200	100	74.5465	74.5473	*	74.5323	0.0142	142	142
K1103574-001	A8	1840	75	88.9340	88.9348	*	88.8448	0.0892	1189	1189
K1103574-002	NC7	840	100	76.2510	76.2509		76.1958	0.0552	552	552
K1103574-003	B30	722	100	73.7703	73.7702		73.7215	0.0488	488	488
K1103574-004	20	596	100	79.9800	79.9808	*	79.9388	0.0412	412	412
K1103574-005	C	546	100	73.1798	73.1801		73.1368	0.0430	430	430
K1103574-006	TINCA	2520	75	77.1732	77.1725	*	77.0451	0.1281	1708	1710
K1103574-007	40	3250	50	74.3519	74.3513	*	74.2412	0.1107	2214	2210
K1103574-008	GIRL	18	200	71.5269	71.5275	*	71.5241	0.0028	14	14.0
K1103574-009	HORSE	3	200	76.2547	76.2554	*	76.2516	0.0031	16	15.5
K1103588-001	MAXWELL	80	100	67.4177	67.4169	*	67.4098	0.0079	79	79.0
1103561-004DU	20		100	73.6306	73.6308		73.6073	0.0233	233	233
1103570-001DU	34Y		100	76.1498	76.1502		76.1362	0.0136	136	136

Calculation: Dissolved Solids (mg/L) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

Balance#31

APG #:4033 Lot# 361010 ID# TDS-1-32-L T.V. =1740 % Rec = 96/99

Wt (1) Start	5/3/2011 8:00	Wt (2) Start	5/4/2011 8:30	Wt (3) Start	
Stop	5/3/2011 18:00	Stop	5/4/2011 11:45	Stop	
Wt (1) Start	180	Wt (2) Start	180	Wt (3) Start	K-BALANCE # 31
Temp Stop	180	Temp Stop	180	Temp Stop	date time

Analyzed By: bk

Date Analyzed: 5/2/2011

Reviewed By:

Date Reviewed:

COLUMBIA ANALYTICAL SERVICES, INC.

Work Order #.: _____

Method: EPA SM 2540 C

Analysis: _____ Total Dissolved Solids

229/11

Sample #	Crucible #	Conductivity	Sample Volume (ml)	Wt, Cru. + Dry sample (1) (g)	Wt, Cru. + Dry sample (2) (g)	Wt, Cru. + Dry sample (3) (g)	Wt. Crucible (g)	Wt. Dry Sample (g)	TDS (mg/L)	TDS (mg/L.) reported
I103716-001DU	38Y		100	72.6737	118.2813	*	72.4793	0.1944	1944	1940
K1103589-001	37Y	287	100	69.0227	69.0232		69.0014	0.0213	213	213
K1103589-002	41	480	100	75.5982	75.5981		75.5630	0.0352	352	352
K1103592-002	18	205	100	84.2714	84.2714		84.2511	0.0203	203	203 ✓
K1103592-003	39y	313	100	70.5605	70.5608		70.5400	0.0205	205	205
K1103592-004	27	288	100	72.6183	72.6179		72.5984	0.0199	199	199
K1103716-001	duanne	753	100	75.4912	75.4906	*	75.3049	0.1863	1863	1860 ✓
K1103716-002	III	1987	75	73.7710	73.7705		73.7221	0.0489	652	652 -
K1103716-003	DE	60	150	68.0878	68.0873		68.0822	0.0056	37	37.3
K1103716-004	11Z	50	193	137.3874	137.3879		137.3783	0.0091	47	47.2
I103592-003DU	33	313	100	76.4902	76.4907		76.4700	0.0202	202	202

Calculation: Dissolved Solids (mg/L.) = Wt. Dry Sample (g) x 1000 x 1000 / Volume (ml)

K-BALANCE-#31

date time

Analyzed By: bk

Date Analyzed: 5/2/2011

Reviewed By: *[Signature]*

Date Reviewed: 5/16/11

Columbia Analytical Services, Inc.

Nonconformity and Corrective Action Report

NCAR No: Assigned by QA

PROCEDURE (SOP or METHOD): TDS SM 2540C EVENT DATE: 5/2/11

EVENT: Missed Holding Time QC Failure Lab Error (spilled sample, spiking error, etc.)
 Method Blank Contamination Login Error Project Management Error
 Equipment Failure Unacceptable PT Sample Result
 SOP Deviation Other (describe):

INCLUDE NUMBER OF SAMPLES / PROJECTS / CUSTOMERS / SYSTEMS AFFECTED
K1103561, 3569,3570, 3574, 3588,3716, 3632,3649, 3657, 3664, 3666, and 3668.

DETAILED DESCRIPTION
Sample confirmation weights did not confirm within 0.0005g with the second or third weight. Most of the samples in question confirmed within 0.001 g. Samples were past their recommended holding time so re-analysis was not performed. Quality assurance data (LCS, Duplicates) were within acceptance criteria

ORIGINATOR: HLJ DATE: 5/16/11
PROJECT MANAGER(S): CL, MS, JC NOTIFIED BY: HLJ DATE: 5/16/11

ROOT CAUSE OF NON-CONFORMITY (POTENTIAL CAUSES COULD BE TRAINING, COMMUNICATION, SPECIFICATIONS, EQUIPMENT, KNOWLEDGE)

What is the cause of the error or finding:
Training, analyst was not aware of the specific criteria of confirmation of weight within 0.0005 g

CORRECTIVE ACTION AND OUTCOME

Re-establishment of conformity must be demonstrated and documented. Describe the steps that were taken, or are planned to be taken, to correct the particular Nonconformity and prevent its recurrence. Include Project Manager Instructions here.
Analyst was informed of the discrepancy, re-trained on SOP/Methodology specifically addressing confirmation of weights within 0.0005 g.
Is the data to be flagged in the Analytical Report with an appropriate qualifier? No Yes

APPROVAL AND NOTIFICATION

Supervisor Verification and Approval of Corrective Action HLJ 5/16/11 Date: _____
Comments: see above

QA PM Verification and Approval of Corrective Action _____ Date: _____
Comments:

Project Manager Verification and Approval of Corrective Action _____ Date: _____
Comments:

Customer Notified by Telephone Fax E-mail Narrative Not notified
(Attach record or cite reference where record is located.)

Metals

Columbia Analytical Services

- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent
Project Name: Heglar Kronquist
Project No.: 0907194.000.0901

Service Request: K1103574

<u>Sample Name:</u>	<u>Lab Code:</u>
<u>MW-1D</u>	<u>K1103574-001DDISS</u>
<u>MW-1</u>	<u>K1103574-001DISS</u>
<u>MW-1S</u>	<u>K1103574-001SDISS</u>
<u>MW-2</u>	<u>K1103574-002DISS</u>
<u>MW-5</u>	<u>K1103574-003DISS</u>
<u>MW-6</u>	<u>K1103574-004DISS</u>
<u>MW-7</u>	<u>K1103574-005DISS</u>
<u>MW-3</u>	<u>K1103574-006DISS</u>
<u>MW-4</u>	<u>K1103574-007DISS</u>
<u>EB-042511</u>	<u>K1103574-008DISS</u>
<u>EB-042611</u>	<u>K1103574-009DISS</u>
<u>Method Blank</u>	<u>K1103574-MB</u>

Comments:

Approved By: 3C

Date: 6/2/11

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
Project No.: 0907194.000.0901 Date Collected: 04/25/11
Project Name: Heglar Kronquist Date Received: 04/26/11
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-1 Lab Code: K1103574-001DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	111000		
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	32400		
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	60700		
Sodium	200.7	200	20	1.0	05/23/11	05/24/11	166000		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
Project No.: 0907194.000.0901 Date Collected: 04/25/11
Project Name: Heglar Kronquist Date Received: 04/26/11
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-2 Lab Code: K1103574-002DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	97800		
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	33500		
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	5610		
Sodium	200.7	200	20	1.0	05/23/11	05/24/11	28300		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
Project No.: 0907194.000.0901 Date Collected: 04/25/11
Project Name: Heglar Kronquist Date Received: 04/26/11
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-5 Lab Code: K1103574-003DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	80300		
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	32100		
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	4150		
Sodium	200.7	200	20	1.0	05/23/11	05/24/11	32200		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
Project No.: 0907194.000.0901 Date Collected: 04/25/11
Project Name: Heglar Kronquist Date Received: 04/26/11
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-6 Lab Code: K1103574-004DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	69400		
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	23300		
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	5150		
Sodium	200.7	200	20	1.0	05/23/11	05/24/11	24000		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
Project No.: 0907194.000.0901 Date Collected: 04/25/11
Project Name: Heglar Kronquist Date Received: 04/26/11
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-7 Lab Code: K1103574-005DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	70100		
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	23800		
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	5210		
Sodium	200.7	200	20	1.0	05/23/11	05/24/11	24200		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
Project No.: 0907194.000.0901 Date Collected: 04/26/11
Project Name: Heglar Kronquist Date Received: 04/27/11
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-3 Lab Code: K1103574-006DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	168000		
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	51500		
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	30100		
Sodium	200.7	20000	2000	100.0	05/23/11	05/25/11	274000		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
Project No.: 0907194.000.0901 Date Collected: 04/26/11
Project Name: Heglar Kronquist Date Received: 04/27/11
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: MW-4 Lab Code: K1103574-007DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	341000		
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	103000		
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	55100		
Sodium	200.7	20000	2000	100.0	05/23/11	05/25/11	254000		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
Project No.: 0907194.000.0901 Date Collected: 04/26/11
Project Name: Heglar Kronquist Date Received: 04/27/11
Matrix: WATER Units: ug/L
Basis: NA

Sample Name: EB-042611 Lab Code: K1103574-009DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	8.3	J	
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	1.0	J	
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	40	U	
Sodium	200.7	200	20	1.0	05/23/11	05/24/11	70	J	

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1103574
 Project No.: 0907194.000.0901 Date Collected:
 Project Name: Heglar Kronquist Date Received:
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: Method Blank Lab Code: K1103574-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Calcium	200.7	50.0	6.0	1.0	05/23/11	05/24/11	6.3	J	
Magnesium	200.7	20.0	0.3	1.0	05/23/11	05/24/11	0.3	U	
Potassium	200.7	400	40	1.0	05/23/11	05/24/11	40	U	
Sodium	200.7	200	20	1.0	05/23/11	05/24/11	20	U	

% Solids: 0.0

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Hegljar Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium	5000	4807	96	2500	2509	100	2486	99	200.7
Calcium	12500	12574	101	25000	25752	103	24974	100	200.7
Magnesium	5000	5011	100	2000	1989	99	2111	106	200.7
Magnesium	12500	12456	100	25000	25400	102	25033	100	200.7
Potassium	12500	12203	98	10000	10111	101	9937	99	200.7
Sodium	12500	12051	96	10000	10072	101	9748	97	200.7

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium				2500	2363	95	2453	98	200.7
Calcium				25000	24779	99	25063	100	200.7
Magnesium				2000	2033	102	2093	105	200.7
Magnesium				25000	24611	98	24958	100	200.7
Potassium				10000	9708	97	9933	99	200.7
Sodium				10000	9460	95	9624	96	200.7

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium				2500	2482	99	2488	100	200.7
Calcium				25000	25063	100	25264	101	200.7
Magnesium				2000	2100	105	1970	98	200.7
Magnesium				25000	25006	100	24991	100	200.7
Potassium				10000	9919	99	9909	99	200.7
Sodium				10000	9768	98	9757	98	200.7

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium				2500	2372	95			200.7
Calcium				25000	24546	98			200.7
Magnesium				2000	2050	102			200.7
Magnesium				25000	24905	100			200.7
Potassium				10000	9848	98			200.7
Sodium				10000	9397	94			200.7

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium	5000	4931	99	2500	2499	100	2493	100	200.7
Calcium	12500	13087	105	25000	25581	102	25523	102	200.7
Magnesium	5000	4937	99	2000	1965	98	1982	99	200.7
Magnesium	12500	12928	103	25000	25355	101	25227	101	200.7
Potassium	12500	12847	103	10000	10044	100	10055	101	200.7
Sodium	12500	12826	103	10000	9946	99	9885	99	200.7

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICV Source: Inorganic Ventures

CCV Source: CAS MIXED

Concentration Units: ug/L

Analyte	Initial Calibration			Continuing Calibration					Method
	True	Found	%R(1)	True	Found	%R(1)	Found	%R(1)	
Calcium				2500	2528	101			200.7
Calcium				25000	25726	103			200.7
Magnesium				2000	1988	99			200.7
Magnesium				25000	25599	102			200.7
Potassium				10000	10118	101			200.7
Sodium				10000	10075	101			200.7

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglars Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
				True	Found	%R	Found	%R
Calcium				50.00	50.48	101		
Magnesium				20.00	16.60	83		
Potassium				400.00	404.50	101		
Sodium				200.00	182.50	91		

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial			Final	
				True	Found	%R	Found	%R
Calcium				50.00	41.51	83		
Magnesium				20.00	17.40	87		
Potassium				400.00	380.62	95		
Sodium				200.00	204.05	102		

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
		C	1	C	2	C	3	C	
Calcium	8.1	J	10.2	J	9.7	J	14.4	J	200.7
Magnesium	1.3	J	3.0	J	3.2	J	2.5	J	200.7
Potassium	40	U	40	U	40	U	50	J	200.7
Sodium	20	U	20	U	20	U	20	U	200.7

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	Continuing Calibration Blank						Method	
		C	1	C	2	C	3		C
Calcium			6.7	J	6.8	J	8.4	J	200.7
Magnesium			2.8	J	3.1	J	3.2	J	200.7
Potassium			42	J	40	U	40	U	200.7
Sodium			20	U	20	U	20	U	200.7

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank	Continuing Calibration Blank						Method	
		C	1	C	2	C	3		C
Calcium			7.5	J					200.7
Magnesium			3.4	J					200.7
Potassium			40	U					200.7
Sodium			20	U					200.7

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
	C	U	1	C	2	C	3	C	
Calcium	6.0	U	6.2	J	6.0	U	6.8	J	200.7
Magnesium	1.3	J	2.3	J	4.4	J	4.1	J	200.7
Potassium	40	U	40	U	40	U	40	U	200.7
Sodium	20	U	20	U	20	U	20	U	200.7

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-02

ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Calcium	500000	500000	473673	476554.3	95.3			
Magnesium	500000	500000	501240	506779.5	101.4			
Potassium			4	-42.8				
Sodium			19	20.6				

80-120% control criteria is not applicable to interfering elements (Al, Ca, Fe, Mg).

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-02

ICS Source: Inorganic Ventures

Concentration Units: ug/L

Analyte	True		Initial Found			Final Found		
	Sol.A	Sol.AB	Sol.A	Sol.AB	%R	Sol.A	Sol.AB	%R
Calcium	500000	500000	508387	507390.6	101.5			
Magnesium	500000	500000	526409	525605.6	105.1			
Potassium			-69	-59.2				
Sodium			34	26.9				

80-120% control criteria is not applicable to interfering elements (Al, Ca, Fe, Mg).

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Units: UG/L

Project Name: Heglär Kronquist

Basis: NA

Matrix: WATER

% Solids: 0.0

Sample Name: MW-1S

Lab Code: K1103574-001SDISS

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Calcium		124000	111000	10000.00	130.0		200.7
Magnesium	70 - 130	42600	32400	10000.00	102.0		200.7
Potassium		72500	60700	10000.00	118.0		200.7
Sodium		176000	166000	10000.00	100.0		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 6 -

DUPLICATES

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Units: UG/L

Project Name: Heglär Kronquist

Basis: NA

Matrix: WATER

% Solids: 0.0

Sample Name: MW-1D

Lab Code: K1103574-001DDISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Calcium	20	111000		111000		0.0		200.7
Magnesium	20	32400		32300		0.3		200.7
Potassium	20	60700		60900		0.3		200.7
Sodium	20	166000		162000		2.4		200.7

An empty field in the Control Limit column indicates the control limit is not applicable.

Metals

- 7 -

LABORATORY CONTROL SAMPLE

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglars Kronquist

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Calcium	12500	12300	98.4					
Magnesium	12500	12300	98.4					
Potassium	12500	12200	97.6					
Sodium	12500	11900	95.2					

Metals

- 9 -

ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Units: UG/L

Project Name: Heglar Kronquist

Sample Name: MW-1L

Lab Code: K1103574-001L DISS

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Calcium	110985.30	114391.20	3.1		P
Magnesium	32364.80	32637.75	0.8		P
Potassium	60740	60734	0		P
Sodium	165583.90	160808.80	2.9		P

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICP/ICP-MS ID #: K-ICP-AES-02

GFAA ID #:

AA ID #:

Analyte	Wave-length (nm)	Back-ground	MRL ug/L	MDL ug/L	M
Calcium	211.2		50	6.0	P
Magnesium	202.5		20	0.3	P
Potassium	766.49		400	40.0	P
Sodium	589.5		200	20.0	P

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Al	Ca	Fe	Mg	As
Aluminum	237.312	0.0000000	0.0000000	0.0006350	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	-0.0001090	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.773	0.0000000	0.0000000	0.0011600	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0001010	0.0000000	0.0000000
Calcium	211.276	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	-0.0000260	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	324.754	0.0000000	0.0000000	-0.0000260	0.0000000	0.0000000
Iron	271.441	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0001140	0.0000000	0.0000000	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.582	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.930	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.030	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	-0.0000740	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	0.0000000	0.0007010	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.612	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000740	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	323.452	0.0000000	0.0000000	0.0000250	0.0000000	0.0000000
Vanadium	310.230	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	206.200	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		Co	Cr	Cu	Mn	Mo
Aluminum	237.312	-0.0037980	-0.0033950	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0131320	0.0000000	0.0000000	-0.0170290
Arsenic	189.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000510
Beryllium	313.042	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Boron	249.773	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Calcium	211.276	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0013420
Copper	324.754	0.0000000	0.0000000	0.0000000	0.0000000	0.0001660
Iron	271.441	0.0815870	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0000000	0.0005610	0.0000000	-0.0014670
Lithium	670.784	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Magnesium	202.582	0.0695310	0.0000000	0.0000000	0.0000000	0.0000000
Manganese	293.930	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Molybdenum	202.030	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0003250	0.0000000	0.0000000	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	0.0000000	-0.2315800	0.0000000	0.0031710
Potassium	766.490	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silicon	251.612	0.0000000	0.0000000	0.0000000	-0.0019550	0.0346950
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0001660	-0.0004050
Sodium	589.592	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0040310	0.0000000	0.0000000	0.0000000	0.0000000
Tin	189.989	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Titanium	323.452	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	310.230	0.0000000	-0.0002710	0.0000000	0.0000000	0.0000000
Zinc	206.200	0.0000000	-0.0013270	0.0000000	0.0000000	-0.0001480

Comments:

Metals

- 11B -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Wave-length (nm)	Interelement Correction Factors for:		
		Ni	Ti	V
Aluminum	237.312	0.0000000	0.0000000	0.0000000
Antimony	206.838	0.0000000	0.0000000	0.0000000
Arsenic	189.042	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	-0.0005630
Beryllium	313.042	0.0000000	-0.0000770	0.0002550
Boron	249.773	0.0000000	0.0000000	0.0000000
Cadmium	226.502	-0.0000840	0.0000000	0.0000000
Calcium	211.276	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	-0.0002700
Cobalt	228.616	0.0000000	0.0017170	0.0000000
Copper	324.754	0.0000000	0.0000000	-0.0001920
Iron	271.441	0.0000000	0.0000000	-0.1662750
Lead	220.353	0.0000000	0.0000000	0.0000000
Lithium	670.784	0.0000000	0.0000000	0.0000000
Magnesium	202.582	0.0000000	0.0000000	0.0000000
Manganese	293.930	0.0000000	0.0000000	0.0000000
Molybdenum	202.030	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000
Phosphorus	214.914	0.0000000	0.0000000	0.0000000
Potassium	766.490	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000
Silicon	251.612	0.0000000	0.0072650	0.0000000
Silver	328.068	0.0000000	0.0001620	0.0000000
Sodium	589.592	0.0000000	0.0000000	0.0000000
Strontium	407.771	0.0000000	0.0000000	0.0000000
Thallium	190.864	0.0000000	0.0000000	0.0019330
Tin	189.989	0.0000000	-0.0030900	0.0000000
Titanium	323.452	0.0004260	0.0000000	0.0000000
Vanadium	310.230	0.0000000	0.0000000	0.0000000
Zinc	206.200	0.0000000	0.0000000	0.0000000

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Calcium	5.000	1800000	200.7
Magnesium	5.000	900000	200.7
Potassium	5.000	450000	200.7
Sodium	5.000	180000	200.7

Comments:

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1103574-001DDISS	05/23/11	50.0	50.0
K1103574-001DISS	05/23/11	50.0	50.0
K1103574-001SDISS	05/23/11	50.0	50.0
K1103574-002DISS	05/23/11	50.0	50.0
K1103574-003DISS	05/23/11	50.0	50.0
K1103574-004DISS	05/23/11	50.0	50.0
K1103574-005DISS	05/23/11	50.0	50.0
K1103574-006DISS	05/23/11	50.0	50.0
K1103574-007DISS	05/23/11	50.0	50.0
K1103574-008DISS	05/23/11	50.0	50.0
K1103574-009DISS	05/23/11	50.0	50.0
K1103574-MB	05/23/11	50.0	50.0
LCSW	05/23/11	50.0	50.0

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Run Number: 052411BICP02

Project Name: Heglars Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 05/24/11

End Date: 05/24/11

Sample No.	D/F	Time	% R	Analytes																									
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V	Z N	C N		
Blank	1.00	16:33							X						X				X			X							
STDB	1.00	16:36							X						X				X			X							
STDA	1.00	16:39							X						X														
ICV1	1.00	16:42							X						X				X			X							
ICV1	1.00	16:46							X						X														
ICB1	1.00	16:49							X						X				X			X							
CRA1	1.00	16:52							X						X				X			X							
ZZZZZ	1.00	16:55																											
CCV1	1.00	16:59							X						X				X			X							
CCV1	1.00	17:05							X						X														
CCB1	1.00	17:10							X						X				X			X							
ICS-A1	1.00	17:13							X						X				X			X							
ZZZZZ	1.00	17:16																											
ICS-AB1	1.00	17:20							X						X				X			X							
ZZZZZ	1.00	17:23																											
CCV2	1.00	17:26							X						X				X			X							
CCV2	1.00	17:29							X						X														
CCB2	1.00	17:32							X						X				X			X							
ZZZZZ	1.00	17:35																											
ZZZZZ	1.00	17:39																											
ZZZZZ	1.00	17:42																											
ZZZZZ	1.00	17:45																											
ZZZZZ	5.00	17:48																											
ZZZZZ	1.00	17:51																											
ZZZZZ	1.00	17:54																											
ZZZZZ	1.00	17:58																											
ZZZZZ	1.00	18:01																											
ZZZZZ	1.00	18:04																											
CCV3	1.00	18:07							X						X				X			X							
CCV3	1.00	18:10							X						X														
CCB3	1.00	18:14							X						X				X			X							
ZZZZZ	1.00	18:17																											

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Run Number: 052411BICP02

Project Name: Heglur Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 05/24/11

End Date: 05/24/11

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S G	A G	N A	T L	V L	Z N	C N				
ZZZZZZ	1.00	18:20																													
ZZZZZZ	1.00	18:23																													
ZZZZZZ	1.00	18:26																													
ZZZZZZ	1.00	18:30																													
ZZZZZZ	1.00	18:33																													
ZZZZZZ	1.00	18:36																													
ZZZZZZ	1.00	18:39																													
ZZZZZZ	1.00	18:42																													
ZZZZZZ	1.00	18:46																													
ZZZZZZ	1.00	18:49																													
ZZZZZZ	5.00	18:52																													
CCV4	1.00	18:55							X					X				X			X										
CCV4	1.00	18:58							X					X																	
CCB4	1.00	19:01							X					X					X			X									
ZZZZZZ	1.00	19:05																													
ZZZZZZ	1.00	19:08																													
ZZZZZZ	1.00	19:11																													
ZZZZZZ	1.00	19:14																													
ZZZZZZ	1.00	19:17																													
ZZZZZZ	1.00	19:21																													
ZZZZZZ	1.00	19:24																													
ZZZZZZ	1.00	19:27																													
ZZZZZZ	1.00	19:30																													
ZZZZZZ	1.00	19:33																													
ZZZZZZ	1.00	19:36																													
CCV5	1.00	19:40							X					X				X			X										
CCV5	1.00	19:43							X					X																	
CCB5	1.00	19:46							X					X					X			X									
ZZZZZZ	1.00	19:49																													
K1103574-MB	1.00	19:52							X					X					X			X									
LCSW	1.00	19:56							X					X					X			X									
K1103574-001DISS	1.00	19:59							X					X					X			X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Run Number: 052411BICP02

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 05/24/11

End Date: 05/24/11

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K	S E	A G	N A	T L	V	Z N	C N				
K1103574-001LDISS	5.00	20:02							X						X				X			X									
K1103574-001DDISS	1.00	20:05							X						X				X			X									
K1103574-001SDISS	1.00	20:08							X						X				X			X									
K1103574-002DISS	1.00	20:11							X						X				X			X									
K1103574-003DISS	1.00	20:15							X						X				X			X									
K1103574-004DISS	1.00	20:18							X						X				X			X									
K1103574-005DISS	1.00	20:21							X						X				X			X									
CCV6	1.00	20:24							X						X				X			X									
CCV6	1.00	20:27							X						X																
CCB6	1.00	20:30							X						X				X			X									
ZZZZZZ	1.00	20:33																													
ZZZZZZ	1.00	20:37																													
K1103574-006DISS	1.00	20:40							X						X				X												
K1103574-007DISS	1.00	20:43							X						X				X												
ZZZZZZ	1.00	20:46																													
K1103574-009DISS	1.00	20:50							X						X				X			X									
ZZZZZZ	1.00	20:53																													
ZZZZZZ	1.00	20:56																													
ZZZZZZ	1.00	20:59																													
ZZZZZZ	1.00	21:02																													
ZZZZZZ	1.00	21:05																													
ZZZZZZ	1.00	21:08																													
CCV7	1.00	21:12							X						X				X			X									
CCV7	1.00	21:15							X						X																
CCB7	1.00	21:18							X						X				X			X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Run Number: 052511AICP02

Project Name: Heglur Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 05/25/11

End Date: 05/25/11

Sample No.	D/F	Time	% R	Analytes																											
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	A L	T L	V L	Z N	C N				
Blank	1.00	11:54							X					X					X			X									
STDB	1.00	11:57						X						X					X			X									
STDA	1.00	12:01						X						X																	
ICV2	1.00	12:04						X						X					X			X									
ZZZZZZ	1.00	12:07																													
ICV2	1.00	12:10						X						X																	
ZZZZZZ	1.00	12:14																													
ICB2	1.00	12:17						X						X					X			X									
CRA2	1.00	12:20						X						X					X			X									
ZZZZZZ	1.00	12:23																													
ZZZZZZ	1.00	12:27																													
CCV1	1.00	12:34						X						X					X			X									
CCV1	1.00	12:40						X						X																	
CCB1	1.00	12:45						X						X					X			X									
ICS-A2	1.00	12:48						X						X					X			X									
ZZZZZZ	1.00	12:51																													
ICS-AB2	1.00	12:55						X						X					X			X									
ZZZZZZ	1.00	12:58																													
CCV2	1.00	13:01						X						X					X			X									
CCV2	1.00	13:04						X						X																	
CCB2	1.00	13:07						X						X					X			X									
ZZZZZZ	1.00	13:11																													
ZZZZZZ	10.00	13:14																													
ZZZZZZ	1.00	13:17																													
K1103574-008DISS	1.00	13:20						X						X					X			X									
K1103574-006DISS	00.00	13:23																									X				
K1103574-007DISS	00.00	13:26																									X				
ZZZZZZ	1.00	13:30																													
ZZZZZZ	1.00	13:33																													
ZZZZZZ	1.00	13:36																													
ZZZZZZ	1.00	13:39																													
CCV3	1.00	13:42						X						X					X			X									

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals
 - 14 -
 ANALYSIS RUN LOG

Client: Exponent

Service Request: K1103574

Project No.: 0907194.000.0901

Run Number: 052511AICP02

Project Name: Heglur Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 05/25/11

End Date: 05/25/11

Sample No.	D/F	Time	% R	Analytes																																	
				A L	S B	A S	B A	B E	C D	C A	C R	C O	C U	F E	P B	M G	M N	H G	N I	K E	S E	A G	N A	T L	V L	Z N	C N										
CCV3	1.00	13:45								X															X												
CCB3	1.00	13:48								X															X											X	

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Columbia Analytical Services Preparation Information Benchsheet

Prep Run: 134421 **Prep Workflow:** MetDigAqICP **Status:** Prepped **Prep Date:** 05/23/2011
Team: Metals **Prep Method:** EPA CLP- **Current Step:** Digestion 13:35
Analyst: JJones **Prep Method:** METALS **Due Date:** 05/29/2011
Rush/NPDES: NPDES **Prep Method:** ILM04.0

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1104745-01	Method Blank		50 mL	50 mL			Metals T	1%HNO3, 5%HCl
KQ1104745-02	Lab Control Sample		50 mL	50 mL	0.25 mL 0.25 mL 0.5 mL 0.25 mL	20255 26786 28373 29917	Metals T	1%HNO3, 5%HCl
K1103574-001	MW-1	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-001: KQ1104745-03	Duplicate	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-001: KQ1104745-04	Matrix Spike	.09	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL	28373 28451 28474 29031	Metals D	1%HNO3, 5%HCl
K1103574-002	MW-2	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-003	MW-5	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-004	MW-6	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-005	MW-7	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-006	MW-3	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-007	MW-4	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-008	EB-042511	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1103574-009	EB-042611	.09	50 mL	50 mL			Metals D	1%HNO3, 5%HCl
K1104239-001	MW-1a	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-001: KQ1104745-05	Duplicate	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-001: KQ1104745-06	Matrix Spike	.06	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL	28373 28451 28474 29031	Metals T	1%HNO3, 5%HCl
K1104239-002	MW-1b	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-003	MW-2a	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-004	MW-2b	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-005	MW-3	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl

K1104239-006	MW-4	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-007	MW-5	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-008	MW-6	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-009	MW-7	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-010	MW-8	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl
K1104239-011	MW-10	.06	50 mL	50 mL			Metals T	1%HNO3, 5%HCl

26 Total Samples consisting of 20 Client Samples, 4 Client QC Samples, 2 Batch QC Samples associated with the current Prep Run.

Spiking Solutions

Name	Type	ID	Expires	Name	Type	ID	Expires
K-MET QCP-CICV-1	Spike	26786	12/1/2011	K-MET SS3	Spike	28474	9/27/2011
K-MET QCP-CICV-2	Spike	29917	5/1/2012	K-MET SS4	Spike	28373	9/26/2011
K-MET QCP-CICV-3	Spike	20255	5/1/2012	K-MET SS5	Spike	29031	10/19/2011
K-MET SS1	Spike	28451	9/27/2011				

Preparation Materials

Step	Name	ID	Step	Name	ID
Digestion	K-MET 50ml Centrifuge Tube	22573	Digestion	K-MET HCL	29832
Digestion	K-MET HNO3	26990			

Preparation Hardware / Equipment

Step	Name	Property	Value
Digestion	K-BlockDigester-06	Temperature	96 deg C

Preparation Steps

Step	Started	Finished	By	Assisted By	Training?	Comments
Digestion	23-MAY-11 13:35	23-MAY-11 16:35	JJones		N	

Comments

Review

Reviewed by:  Date: 5/25/11

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mls Added
K-MET SS1 28451	HNO3	50.0	1000ml	-	0.500
	Al	100*	1000ml	200	
	Ag	100*	1000ml	5	
	Ba	100*	1000ml	200	
	Be	100*	1000ml	5	
	Cd	100*	1000ml	5	
	Co	100*	1000ml	50	
	Cr	100*	1000ml	20	
	Cu	100*	1000ml	25	
	Fe	100*	1000ml	100	
	Pb	100*	1000ml	50	
	Mn	100*	1000ml	50	
	Ni	100*	1000ml	50	
	Sb	50	1000ml	50	
V	100*	1000ml	50		
Zn	100*	1000ml	50		
K-MET SS2	HNO3	25.0	500ml	-	
	As	2.0	500ml	4	
	Cd	2.0	500ml	4	
	Pb	2.0	500ml	4	
	Se	2.0	500ml	4	
	Tl	2.0	500ml	4	
	Cu	2.0	500ml	4	
K-MET SS3 28474	HNO3	25.0	500ml	-	0.500
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
K-MET SS4 28373	HNO3	25	500ml	-	0.500
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5 29031	HNO3	10.0	200ml	-	0.500
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	

K-MET CFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cu	2.5	1000ml	2.5	
K-MET QCP-CICV-1 26786	Ca, Mg, Na, K	no dilution	-	2500	0.250
	Al, Ba	no dilution	-	1000	
	Fe	no dilution	-	500	
	Co, Mn, Ni, V, Zn	no dilution	-	250	
	Cu, Ag	no dilution	-	125	
	Cr	no dilution	-	100	
	Be	no dilution	-	25	
K-MET QCP-CICV-2 29917	Sb	no dilution	-	500	0.250
K-MET QCP-CICV-3 20255	As, Pb, Se, Tl	no dilution	-	500	0.250
	Cd	no dilution	-	250	

* Denotes volume of mixed stock standard.

** Denotes 10,000 ppm individual stock standards.

Standard	mls of standard	ppm	Logbook #	Exp. Date

Service Request # K1103574
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. ICV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. ICB below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. CRI/LLICV standard analyzed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. ICS standards within 20% of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. All preceding CCVs within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Following CCV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bracketing CCBs below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Method Blank below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. MS-MSD or Dup-MS and LCS within CAS control limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. All analytes within instrument linear range	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12. Adequate rinse out time allowed between samples to eliminate memory effect	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Run terminated early	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: B, WSS10511
Saved As: 052411/ICP02 StarLIMS #: 247375
6010C/200.7 Calibration: Rerun #8
6010C: NR LL Al, LL Sn Dilute #6, #7

Primary Review by WS Date 5/25/11

Secondary Review by mmr Date 5/26/11

Method:	2011A	Sample Name:	Blank	Operator:	
Comment:					
Run Time:	05/24/11 16:33	Type:	Std	Mode:	IR
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	
Line	237.312 {141}	206.833 {162}	189.042 {177}	233.527 {144}	
Avg	.1368	.0111	.0525	-.00023	
Stddev	.0059	.0078	.0157	.00012	
%RSD	4.333	70.75	29.82	52.530	
#1	.1410	.0166	.0636	-.00031	
#2	.1326	.0055	.0414	-.00014	
Elem	Be3130	B 2497	Cd2265	Ca2112	
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}	
Avg	-.00163	.7019	.0002	.4656	
Stddev	.00015	.0218	.0000	.0100	
%RSD	9.5188	3.110	15.06	2.146	
#1	-.00173	.7173	.0002	.4727	
#2	-.00152	.6865	.0003	.4586	
Elem	Ca3179	Cr2677	Co2286	Cu3247	
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}	
Avg	-.0871	-.0003	.0005	-.0152	
Stddev	.0449	.0001	.0001	.0254	
%RSD	51.62	31.92	18.47	167.1	
#1	-.0553	-.0002	.0006	.0028	
#2	-.1188	-.0004	.0005	-.0332	
Elem	Fe2599	Fe2714	Pb2203	Mg2025	
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}	
Avg	.0030	.0007	.0001	.1064	
Stddev	.0000	.0000	.0000	.0019	
%RSD	.8580	4.155	15.54	1.789	
#1	.0030	.0008	.0001	.1050	
#2	.0030	.0007	.0001	.1077	
Elem	Mg2795	Mn2576	Mn2939	Mo2020	
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}	
Avg	.51410	.00153	-.0009	.0003	
Stddev	.01168	.00005	.0001	.0000	
%RSD	2.2715	3.0129	14.42	9.329	
#1	.50584	.00150	-.0009	.0003	
#2	.52236	.00156	-.0010	.0002	
Elem	Ni2316	K 7664	Se1960	Ag3280	
Line	231.604 {145}	766.490 { 44}	196.090 {171}	328.068 {102}	
Avg	.0000	-.2778	-.0345	.0359	
Stddev	.000	.0879	.0137	.0274	
%RSD	21690.	31.65	39.55	76.14	
#1	.0001	-.2157	-.0249	.0166	
#2	-.0001	-.3400	-.0442	.0553	

Sample Name: Blank Run Time: 05/24/11 16:33

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0043	.0005	.0048	.0008
Stddev	.0010	.0000	.0001	.0000
%RSD	23.76	6.001	1.674	.4366

#1	.0050	.0006	.0049	.0008
#2	.0035	.0005	.0048	.0008

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0822	.1796	.00539	.0003
Stddev	.0009	.0507	.00012	.0001
%RSD	1.141	28.24	2.1991	25.86

#1	.0815	.1437	.00547	.0003
#2	.0829	.2155	.00531	.0002

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	.44362	.00254
Stddev	.02545	.00029
%RSD	5.7362	11.447

#1	.46162	.00233
#2	.42563	.00274

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	183.55
Stddev	1.78
%RSD	.97098

#1	184.81
#2	182.29

WS
5/24/11
check spec

Method: 2011A Sample Name: STDB *ICP8-92-C* Operator:
 Comment:
 Run Time: 05/24/11 16:36 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Ba2335	Be3130	Ca2112
Line	237.312 {141}	233.527 {144}	313.042 {107}	211.276 {159}
Avg	15.67	2.8158	.45838	35.43
Stddev	.19	.0155	.00137	.34
%RSD	1.182	.55105	.29790	.9489

#1	15.53	2.8048	.45741	35.19
#2	15.80	2.8268	.45934	35.67

Elem	Fe2714	Mg2025	Mn2939	K_7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	.6915	46.41	.7205	171.5
Stddev	.0014	.13	.0012	.2
%RSD	.2092	.2804	.1650	.1017

#1	.6905	46.32	.7214	171.4
#2	.6925	46.50	.7197	171.6

Elem	Na5895	P_2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	3.252	34.91	76.70	343.03
Stddev	.004	.22	.50	.78
%RSD	.1388	.6346	.6498	.22707

#1	3.255	34.76	76.35	342.48
#2	3.249	35.07	77.06	343.58

Elem	Sr4077
Line	407.771 { 82}
Avg	9.7366
Stddev	.0191
%RSD	.19610

#1	9.7501
#2	9.7231

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	185.98
Stddev	.88
%RSD	.47178

#1	185.36
#2	186.60

Method: 2011A Sample Name: STDA *ICP8-93-A* Operator:
 Comment:
 Run Time: 05/24/11 16:39 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Sb2068	As1890	B_2497	Cd2265
Line	206.833 {162}	189.042 {177}	249.773 {134}	226.502 {148}
Avg	12.58	8.120	35.33	.2226
Stddev	.03	.048	.07	.0021
%RSD	.2017	.5921	.2060	.9387

#1	12.56	8.086	35.38	.2211
#2	12.60	8.154	35.28	.2241

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	38.38	.1042	.1696	18.82
Stddev	.00	.0006	.0006	.06
%RSD	.0049	.5593	.3703	.3218

#1	38.39	.1037	.1691	18.86
#2	38.38	.1046	.1700	18.78

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.3623	.0840	1441.2	2.4621
Stddev	.0005	.0007	.3	.0011
%RSD	.1416	.8101	.02039	.04484

#1	.3626	.0835	1441.4	2.4613
#2	.3619	.0844	1441.0	2.4629

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.1355	.1513	7.473	20.34
Stddev	.0010	.0010	.007	.02
%RSD	.7460	.6835	.1002	.1155

#1	.1348	.1505	7.479	20.33
#2	.1362	.1520	7.468	20.36

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.0772	.1510	.1274	.18786
Stddev	.0010	.0011	.0015	.00206
%RSD	1.309	.7069	1.196	1.0951

#1	.0764	.1503	.1263	.18641
#2	.0779	.1518	.1285	.18932

Elem	Tl1908
Line	190.864 {176}
Avg	.0714
Stddev	.0004
%RSD	.6111

#1	.0710
#2	.0717

Sample Name: STDA Run Time: 05/24/11 16:39

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	186.73
Stddev	.98
%RSD	.52643

#1	187.42
#2	186.03

Method: 2011A

Sample Name: ICV1

IUP8-40-B

Operator:

Comment:

Run Time: 05/24/11 16:42 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.972	2.421	2.529	5.0472	.12779	-.0002
Stddev	.019	.005	.012	.0455	.00089	.0003
%RSD	.3828	.2244	.4776	.90090	.69358	114.0
#1	4.985	2.425	2.521	5.0151	.12842	.0000
#2	4.958	2.417	2.538	5.0794	.12717	-.0004
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.253	12.57	.5063	1.254	.6086	2.438
Stddev	.002	.09	.0015	.004	.0091	.003
%RSD	.1753	.7105	.2946	.2997	1.490	.1056
#1	1.255	12.51	.5052	1.251	.6151	2.440
#2	1.252	12.64	.5073	1.256	.6022	2.436
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.531	12.46	1.2455	2.015	1.245	12.20
Stddev	.009	.03	.0002	.005	.006	.10
%RSD	.3763	.2672	.01687	.2387	.5240	.8115
#1	2.524	12.43	1.2453	2.012	1.241	12.27
#2	2.538	12.48	1.2456	2.018	1.250	12.13
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.522	.6068	12.05	.0077	1.238	1.252
Stddev	.008	.0047	.19	.0133	.018	.001
%RSD	.3130	.7810	1.587	173.1	1.434	.0690
#1	2.528	.6101	12.19	.0171	1.251	1.251
#2	2.516	.6034	11.92	-.0017	1.226	1.252
Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 05/24/11 16:42

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0355	-.0428	1.9857	2.529	.00009	.00544
Stddev	.0001	.0009	.0204	.040	.00063	.00004
%RSD	.3875	2.137	1.0282	1.584	710.41	.82699
#1	.0354	-.0422	2.0002	2.501	.00054	.00547
#2	.0356	-.0435	1.9713	2.557	-.00036	.00541
Check ?	None	None	QC Pass	QC Pass	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.11					
Stddev	.54					
%RSD	.29421					
#1	184.72					
#2	185.49					

Method: 2011A Sample Name: ICVB1 *ICP8-97-C* Operator:
 Comment:
 Run Time: 05/24/11 16:46 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.021	.0115	.0016	.00328	-.00004	1.934
Stddev	.025	.0117	.0298	.00019	.00007	.003
%RSD	2.475	101.8	1830.	5.9497	194.36	.1675
#1	1.003	.0197	.0227	.00341	-.00008	1.931
#2	1.039	.0032	-.0194	.00314	.00001	1.936
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0013	4.807	.0091	-.0001	.0003	10.14
Stddev	.0003	.030	.0000	.0009	.0040	.01
%RSD	24.34	.6189	.4637	720.7	1527.	.0670
#1	.0015	4.786	.0091	-.0007	-.0026	10.14
#2	.0010	4.828	.0091	.0005	.0031	10.15
Check ?	None	QC Pass	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%
Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0075	5.0112	10.03	.0033	.0002	.0481
Stddev	.0172	.0189	.05	.0024	.0005	.0018
%RSD	227.6	.37640	.5409	72.70	241.5	3.783
#1	-.0046	4.9979	9.987	.0051	.0006	.0494
#2	.0197	5.0245	10.06	.0016	-.0001	.0468
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0147	-.0008	1.749	5.021	.0006	.0007
Stddev	.0013	.0002	.005	.040	.0014	.0001
%RSD	8.881	23.98	.2783	.7972	253.1	16.58
#1	.0156	-.0007	1.745	4.993	.0015	.0008
#2	.0138	-.0010	1.752	5.050	-.0004	.0006
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 05/24/11 16:46

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.871	5.047	-.00080	.0223	1.9892	1.9606
Stddev	.031	.020	.00005	.0119	.0087	.0112
%RSD	.6338	.4044	5.6481	53.32	.43728	.56858
#1	4.849	5.032	-.00083	.0307	1.9831	1.9527
#2	4.893	5.061	-.00077	.0139	1.9954	1.9685
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.98					
Stddev	.28					
%RSD	.15049					
#1	184.17					
#2	183.78					

Method:	2011A	Sample Name:	ICB	Operator:		
Comment:						
Run Time:	05/24/11 16:49	Type:	QC	Mode:	CONC	Corr.Fact: 1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	
Units	ppm	ppm	ppm	ppm	ppm	
Avg	-.0053	-.0115	-.0013	.00139	-.00009	
Stddev	.0063	.0054	.0079	.00058	.00003	
%RSD	118.5	47.21	615.8	41.528	34.381	
#1	-.0009	-.0154	.0043	.00098	-.00007	
#2	-.0098	-.0077	-.0069	.00180	-.00012	
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.0000	.0000	.0000	.00000	.00000	
Range	±.0500	±.0500	±.1000	±.00500	±.00500	
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286	
Units	ppm	ppm	ppm	ppm	ppm	
Avg	.0014	-.0005	.0081	.0022	-.0004	
Stddev	.0005	.0003	.0010	.0002	.0000	
%RSD	37.77	53.00	12.56	6.914	7.547	
#1	.0010	-.0007	.0074	.0021	-.0004	
#2	.0018	-.0003	.0088	.0023	-.0004	
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.0000	.0000	.0000	.0000	.0000	
Range	±.0500	±.0050	±.0500	±.0050	±.0100	
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	
Avg	.0002	.0050	.0051	.00130	.00380	
Stddev	.0015	.0019	.0070	.00017	.00122	
%RSD	661.0	38.91	135.3	13.324	31.989	
#1	.0012	.0064	.0101	.00142	.00466	
#2	-.0008	.0036	.0002	.00117	.00294	
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.0000	.0000	.0000	.00000	.00000	
Range	±.0100	±.0200	±.0500	±.02000	±.00500	
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	
Avg	-.0004	.0009	.0153	.0202	-.0019	
Stddev	.0015	.0003	.0528	.0039	.0010	
%RSD	337.5	34.34	345.7	19.29	50.47	
#1	-.0015	.0011	.0526	.0175	-.0012	
#2	.0006	.0007	-.0221	.0230	-.0026	
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.0000	.0000	.0000	.0000	.0000	
Range	±.0100	±.0200	±.4000	±.1000	±.0100	

Sample Name: ICB Run Time: 05/24/11 16:49

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0077	-.0005	-.0004	.0003	-.0122
Stddev	.0002	.0080	.0003	.0002	.0093
%RSD	2.819	1617.	61.55	57.55	76.17
#1	-.0078	.0051	-.0002	.0002	-.0056
#2	-.0075	-.0061	-.0006	.0004	-.0188
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0022	-.00108	-.0021	.00009	.00058
Stddev	.0001	.00201	.0105	.00070	.00010
%RSD	3.254	187.21	507.1	790.08	17.562
#1	.0023	-.00250	-.0095	.00058	.00065
#2	.0022	.00035	.0054	-.00041	.00051
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572				
Units	Cts/S				
Avg	183.61				
Stddev	.14				
%RSD	.07628				
#1	183.71				
#2	183.51				

Method: 2011A Sample Name: LLICV Operator:
 Comment:
 Run Time: 05/24/11 16:52 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	Q .0793	.0412	.0724	.00495	.00489
Stddev	.0101	.0023	.0042	.00007	.00002
%RSD	12.70	5.488	5.850	1.4974	.40778

#1	.0864	.0428	.0754	.00490	.00488
#2	.0722	.0396	.0694	.00501	.00491

Check ?	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0482	.0049	.0505	.0058	.0102
Stddev	.0001	.0008	.0005	.0025	.0003
%RSD	.2845	15.98	1.027	42.13	2.790

#1	.0483	.0044	.0501	.0076	.0100
#2	.0481	.0055	.0508	.0041	.0104

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0050	.0500	.0050	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0116	.0187	.0444	.01660	.00444
Stddev	.0014	.0009	.0085	.00008	.00000
%RSD	11.66	4.940	19.16	.48677	.05213

#1	.0106	.0193	.0504	.01654	.00444
#2	.0126	.0180	.0383	.01666	.00444

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.0500	.02000	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0101	.0198	.4045	.0828	.0091
Stddev	.0017	.0010	.0004	.0013	.0008
%RSD	17.35	5.216	.0880	1.568	8.479

#1	.0088	.0191	.4048	.0838	.0086
#2	.0113	.0205	.4042	.0819	.0097

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.4000	.1000	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLICV Run Time: 05/24/11 16:52

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.1825	Q .0338	.0087	.0094	.1876
Stddev	.0040	.0033	.0009	.0002	.0014
%RSD	2.168	9.699	10.72	1.840	.7276

#1	.1797	.0315	.0093	.0093	.1886
#2	.1853	.0361	.0080	.0095	.1866

Check ?	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.2000	.0500	.0100	.0100	.2000
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.4298	.00817	Q .0554	.00922	.00908
Stddev	.0024	.00131	.0222	.00046	.00007
%RSD	.5531	16.039	40.13	5.0413	.82268

#1	.4281	.00724	.0711	.00889	.00903
#2	.4315	.00910	.0397	.00955	.00913

Check ?	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.000%	30.00%	30.000%	30.000%

Int. Std.	Sc3572
Units	Cts/S
Avg	187.18
Stddev	.36
%RSD	.19492

#1	186.92
#2	187.44

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rerun
WS
5/24/11*

Method: 2011A Sample Name: LLICV

Operator:

Comment:

Run Time: 05/24/11 16:55 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	Q .0704	.0521	.0810	.00486	.00491
Stddev	.0126	.0085	.0031	.00021	.00000
%RSD	17.95	16.33	3.777	4.3760	.06725

#1	.0793	.0461	.0831	.00501	.00491
#2	.0615	.0581	.0788	.00471	.00491

Check ?	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0485	.0051	.0449	.0053	.0098
Stddev	.0010	.0009	.0033	.0019	.0004
%RSD	2.133	17.30	7.373	35.20	4.310

#1	.0493	.0057	.0426	.0067	.0095
#2	.0478	.0044	.0473	.0040	.0101

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0050	.0500	.0050	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0115	.0180	.0545	.01684	.00431
Stddev	.0027	.0004	.0039	.00006	.00001
%RSD	23.40	2.062	7.147	.38227	.12505

#1	.0134	.0178	.0572	.01680	.00432
#2	.0096	.0183	.0517	.01689	.00431

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.0500	.02000	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0099	.0196	.4140	.0792	.0110
Stddev	.0009	.0018	.0254	.0247	.0015
%RSD	8.978	9.434	6.127	31.23	13.94

#1	.0106	.0209	.3961	.0617	.0121
#2	.0093	.0183	.4319	.0966	.0099

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.4000	.1000	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLICV Run Time: 05/24/11 16:55

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.1820	Q .0324	.0095	.0098	.1983
Stddev	.0047	.0008	.0020	.0001	.0195
%RSD	2.576	2.525	21.32	.9461	9.844
#1	.1787	.0318	.0109	.0098	.1845
#2	.1853	.0329	.0080	.0097	.2121
Check ?	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.2000	.0500	.0100	.0100	.2000
Range	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.4294	.00702	.0754	.00980	.00914
Stddev	.0045	.00044	.0041	.00021	.00001
%RSD	1.051	6.2149	5.495	2.1831	.12294
#1	.4262	.00671	.0783	.00995	.00915
#2	.4326	.00733	.0724	.00965	.00913
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572				
Units	Cts/S				
Avg	188.51				
Stddev	.44				
%RSD	.23253				
#1	188.82				
#2	188.20				

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/24/11 16:59 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.137	.0107	-.0016	2.5348	.05075	-.0008
Stddev	.022	.0053	.0107	.0178	.00031	.0006
%RSD	.4346	49.36	665.3	.70263	.60340	76.52

#1	5.126	.0164	.0054	2.5158	.05071	-.0008
#2	5.128	.0087	-.0065	2.5548	.05117	-.0016
#3	5.171	.0044	-.0143	2.5245	.05043	-.0010
#4	5.124	.0131	.0089	2.5440	.05070	.0000

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	5.000%			5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	25.75	.0041	-.0012	-.0002	25.72
Stddev	.0006	.16	.0014	.0006	.0015	.20
%RSD	62.78	.6028	33.11	49.61	710.1	.7881

#1	.0006	25.54	.0033	-.0011	-.0007	25.52
#2	.0018	25.88	.0059	-.0020	-.0014	25.95
#3	.0010	25.85	.0028	-.0009	.0019	25.59
#4	.0004	25.73	.0043	-.0007	-.0006	25.83

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0021	25.40	5.100	-.0003	-.0044	10.11
Stddev	.0073	.09	.037	.0009	.0010	.04
%RSD	341.0	.3425	.7234	296.4	23.66	.3804

#1	.0020	25.32	5.073	-.0007	-.0034	10.09
#2	-.0059	25.49	5.141	-.0007	-.0042	10.17
#3	.0117	25.46	5.065	-.0008	-.0041	10.10
#4	.0007	25.33	5.121	.0010	-.0059	10.09

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		5.000%	5.000%			5.000%

Sample Name: CCVB Run Time: 05/24/11 16:59

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0230	-.0009	10.07	-.0037	.0045	.0016
Stddev	.0164	.0029	.10	.0075	.0010	.0007
%RSD	71.47	313.8	.9756	202.4	20.98	45.97

#1	.0359	.0015	9.989	-.0008	.0059	.0013
#2	.0045	-.0051	10.19	-.0146	.0044	.0027
#3	.0138	.0001	9.991	-.0023	.0041	.0013
#4	.0378	-.0002	10.12	.0028	.0037	.0012

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			5.000%			

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.17	2.555	-.00025	.0220	.50375	.50701
Stddev	.02	.007	.00217	.0138	.00109	.00398
%RSD	.2327	.2844	862.21	62.63	.21594	.78505

#1	10.14	2.547	-.00052	.0297	.50257	.50396
#2	10.18	2.560	.00290	.0030	.50490	.51173
#3	10.19	2.562	-.00174	.0211	.50313	.50348
#4	10.17	2.551	-.00165	.0342	.50442	.50888

Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	186.42
Stddev	1.13
%RSD	.60360

#1	187.01
#2	185.05
#3	187.61
#4	186.03

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/24/11 17:05 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4989	2.485	2.490	.45957	.54656	.5037
Stddev	.0110	.021	.023	.00117	.00083	.0015
%RSD	2.209	.8362	.9356	.25417	.15104	.2911
#1	.4828	2.475	2.461	.46032	.54659	.5021
#2	.5079	2.465	2.487	.45902	.54639	.5033
#3	.5024	2.488	2.518	.46074	.54762	.5037
#4	.5024	2.513	2.494	.45821	.54562	.5056
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		5.000%	5.000%			5.000%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5019	2.509	.4968	.4971	.5076	.5049
Stddev	.0013	.009	.0039	.0014	.0024	.0027
%RSD	.2535	.3762	.7899	.2899	.4721	.5274
#1	.5028	2.504	.4998	.4966	.5091	.5085
#2	.5032	2.522	.4963	.4992	.5041	.5051
#3	.5009	2.507	.4997	.4960	.5092	.5033
#4	.5008	2.501	.4915	.4965	.5080	.5026
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.472	1.9894	.99979	.9877	.4969	5.018
Stddev	.010	.0053	.00284	.0014	.0020	.007
%RSD	.4095	.26635	.28400	.1447	.3947	.1439
#1	2.467	1.9892	.99567	.9867	.4984	5.024
#2	2.468	1.9915	1.0019	.9898	.4983	5.024
#3	2.488	1.9947	1.0002	.9868	.4968	5.012
#4	2.466	1.9822	1.0014	.9875	.4942	5.011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	5.000%	5.0000%	5.0000%	5.000%	5.000%	

Sample Name: CCVA Run Time: 05/24/11 17:05

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.476	.5022	.4918	2.436	.5001	.4987
Stddev	.009	.0055	.0039	.013	.0006	.0017
%RSD	.3610	1.090	.7994	.5380	.1198	.3389
#1	2.487	.4984	.4886	2.417	.4998	.4991
#2	2.469	.5101	.4902	2.444	.4997	.4992
#3	2.469	.4987	.4975	2.438	.5010	.4963
#4	2.480	.5017	.4910	2.444	.4999	.5003
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	5.000%	5.000%		5.000%	5.000%	5.000%
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0253	.8469	.49479	4.931	.50360	.49481
Stddev	.0227	.0027	.00231	.016	.00101	.00133
%RSD	89.61	.3195	.46647	.3304	.20109	.26928
#1	.0012	.8469	.49569	4.939	.50397	.49661
#2	.0207	.8493	.49725	4.909	.50337	.49374
#3	.0235	.8431	.49440	4.947	.50472	.49504
#4	.0558	.8483	.49180	4.928	.50232	.49387
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			5.0000%	5.000%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.21					
Stddev	.33					
%RSD	.17488					
#1	188.73					
#2	189.50					
#3	189.30					
#4	189.31					

Method: 2011A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/24/11 17:10 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125	.0104	-.0004	.00065	.00014	-.0028
Stddev	.0013	.0008	.0030	.00027	.00001	.0003
%RSD	10.15	7.315	715.8	41.741	5.3311	11.91
#1	.0116	.0109	-.0026	.00085	.00014	-.0026
#2	.0134	.0099	.0017	.00046	.00013	-.0031
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0102	.0022	-.0016	.0019	.0042
Stddev	.0006	.0046	.0001	.0009	.0034	.0005
%RSD	152.4	44.70	4.139	57.13	179.6	12.30
#1	.0000	.0070	.0022	-.0023	-.0005	.0045
#2	-.0008	.0135	.0023	-.0010	.0043	.0038
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0086	.00303	.00107	.0012	.0005	.0270
Stddev	.0014	.00002	.00014	.0009	.0010	.0025
%RSD	16.14	.52447	12.699	71.36	217.6	9.271
#1	.0096	.00302	.00098	.0006	-.0002	.0253
#2	.0076	.00304	.00117	.0018	.0012	.0288
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175	-.0019	-.0015	.0000	-.0009	.0000
Stddev	.0078	.0002	.0001	.0047	.0003	.0010
%RSD	44.68	10.12	8.449	295500.	32.07	5468.
#1	.0230	-.0020	-.0014	-.0033	-.0007	-.0007
#2	.0120	-.0018	-.0016	.0033	-.0011	.0007
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 05/24/11 17:10

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0123	.0024	-.00245	.0066	-.00039	.00024
Stddev	.0047	.0011	.00107	.0099	.00022	.00002
%RSD	38.53	45.98	43.798	149.9	55.574	6.4797
#1	-.0156	.0016	-.00321	.0136	-.00024	.00025
#2	-.0089	.0032	-.00169	-.0004	-.00054	.00023
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.48					
Stddev	2.50					
%RSD	1.3702					
#1	184.24					
#2	180.71					

Method: 2011A

Sample Name: ICSA *ICP9-2-B*

Operator:

Comment:

Run Time: 05/24/11 17:13 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	492.1	.0843	-.0638	-.00031	.00002	-.0273
Stddev	1.8	.0062	.0110	.00015	.00001	.0009
%RSD	.3646	7.378	17.22	49.320	24.954	3.401
#1	490.8	.0887	-.0560	-.00020	.00003	-.0266
#2	493.3	.0799	-.0715	-.00041	.00002	-.0279
Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	473.7	.0041	.0004	-.0034	186.3
Stddev	.0000	1.3	.0002	.0000	.0012	.5
%RSD	4.925	.2831	6.028	10.69	35.98	.2418
#1	-.0009	472.7	.0040	.0003	-.0043	186.6
#2	-.0010	474.6	.0043	.0004	-.0026	185.9
Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	501.2	-.01462	-.0089	-.0056	.0038
Stddev	.0089	.8	.00019	.0004	.0014	.0011
%RSD	1425.	.1583	1.3326	4.737	24.85	29.51
#1	.0057	501.8	-.01448	-.0086	-.0046	.0030
#2	-.0069	500.7	-.01475	-.0092	-.0066	.0046
Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0038	.0031	.0189	-.0253	-.0058	.0020
Stddev	.0117	.0012	.0000	.0051	.0007	.0005
%RSD	312.4	36.83	.1654	20.26	12.07	22.81
#1	-.0121	.0040	.0189	-.0289	-.0053	.0017
#2	.0045	.0023	.0189	-.0217	-.0063	.0023
Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 05/24/11 17:13

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1666	-.0180	-.00083	.0254	.01074	.06947
Stddev	.0005	.0008	.00004	.0159	.00047	.00005
%RSD	.3139	4.358	4.4686	62.39	4.4030	.07124
#1	-.1662	-.0185	-.00080	.0142	.01040	.06950
#2	-.1670	-.0174	-.00085	.0366	.01107	.06943
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	175.23					
Stddev	.33					
%RSD	.18636					
#1	175.46					
#2	175.00					

Method: 2011A Sample Name: ICSEA

Operator:

Comment:

Run Time: 05/24/11 17:16 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	495.1	.0645	-.0510	.00003	-.00001	-.0331
Stddev	.6	.0078	.0262	.00021	.00002	.0011
%RSD	.1248	12.03	51.26	688.50	195.19	3.405

#1	495.5	.0590	-.0325	-.00012	-.00003	-.0339
#2	494.6	.0700	-.0696	.00018	.00000	-.0323

Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	475.0	.0047	-.0006	-.0044	188.7
Stddev	.0012	3.3	.0002	.0008	.0013	.5
%RSD	87.91	.6983	3.287	132.9	28.74	.2717

#1	-.0005	472.7	.0048	-.0012	-.0035	189.0
#2	-.0022	477.4	.0046	.0000	-.0053	188.3

Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	505.0	-.01481	-.0123	-.0081	-.0432
Stddev	.0141	.5	.00008	.0003	.0001	.0226
%RSD	618.4	.0968	.52590	2.297	.6738	52.22

#1	.0077	505.3	-.01487	-.0121	-.0081	-.0272
#2	-.0123	504.6	-.01476	-.0125	-.0081	-.0591

Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0056	.0005	.0201	-.0382	-.0044	.0029
Stddev	.0039	.0002	.0018	.0000	.0035	.0005
%RSD	69.86	35.37	8.896	.0423	80.54	15.40

#1	-.0084	.0007	.0213	-.0382	-.0068	.0033
#2	-.0028	.0004	.0188	-.0382	-.0019	.0026

Check ?	None	None	None	None	None	None
Value						
Range						

WS5/24/11

Sample Name: ICSA Run Time: 05/24/11 17:16

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1633	-.0165	-.00071	.0368	.01028	.07125
Stddev	.0061	.0029	.00067	.0036	.00003	.00075
%RSD	3.747	17.76	94.755	9.826	.27002	1.0475
#1	-.1590	-.0144	-.00023	.0394	.01030	.07178
#2	-.1677	-.0186	-.00119	.0342	.01026	.07072
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	174.69					
Stddev	1.02					
%RSD	.58565					
#1	173.97					
#2	175.41					

WS
5/24/11

Method: 2011A Sample Name: ICSAB *ICP9-1-B* Operator:
 Comment:
 Run Time: 05/24/11 17:20 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	501.7	1.015	-.0445	.43324	.51177	-.0273
Stddev	.5	.008	.0163	.00169	.00430	.0011
%RSD	.0995	.7632	36.74	.38919	.84110	4.115

#1	501.3	1.009	-.0329	.43204	.50872	-.0281
#2	502.0	1.020	-.0560	.43443	.51481	-.0265

Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8460	476.6	.4692	.4456	.4364	186.0
Stddev	.0085	5.5	.0013	.0027	.0029	.5
%RSD	1.004	1.146	.2713	.6086	.6552	.2674

#1	.8400	472.7	.4683	.4437	.4385	185.6
#2	.8520	480.4	.4701	.4475	.4344	186.4

Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9019	506.8	.40603	-.0103	.8673	-.0428
Stddev	.0173	.6	.00332	.0001	.0037	.0480
%RSD	1.920	.1202	.81878	.9292	.4250	112.2

#1	.9141	506.3	.40368	-.0103	.8647	-.0768
#2	.8896	507.2	.40838	-.0104	.8699	-.0089

Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.9337	.0206	-.0257	.4707	.8504
Stddev	.0378	.0032	.0020	.0118	.0014	.0104
%RSD	55890.	.3377	9.949	46.05	.2891	1.227

#1	-.0268	.9314	.0220	-.0341	.4717	.8430
#2	.0267	.9359	.0191	-.0173	.4698	.8577

Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

Sample Name: ICSAB Run Time: 05/24/11 17:20

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0988	-.0139	.00106	.0423	.01057	.07000
Stddev	.0125	.0042	.00125	.0416	.00029	.00007
%RSD	12.65	30.44	117.90	98.33	2.7618	.09295
#1	-.1076	-.0169	.00195	.0717	.01037	.07004
#2	-.0899	-.0109	.00018	.0129	.01078	.06995
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	178.41					
Stddev	.41					
%RSD	.22772					
#1	178.70					
#2	178.12					

Method: 2011A Sample Name: ICSAB

Operator:

Comment:

Run Time: 05/24/11 17:23 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	503.3	1.037	-.0522	.43747	.52063	-.0245
Stddev	2.1	.012	.0013	.00284	.00552	.0034
%RSD	.4115	1.128	2.406	.64852	1.0597	14.05

#1	504.8	1.029	-.0513	.43948	.52454	-.0270
#2	501.9	1.045	-.0531	.43547	.51673	-.0221

Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8710	483.2	.4754	.4535	.4463	189.9
Stddev	.0028	3.5	.0066	.0015	.0005	.4
%RSD	.3199	.7293	1.381	.3304	.1195	.2015

#1	.8729	480.7	.4800	.4546	.4467	190.2
#2	.8690	485.7	.4707	.4524	.4459	189.6

Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9193	509.4	.41762	-.0157	.8827	-.0552
Stddev	.0105	.8	.00230	.0023	.0060	.0041
%RSD	1.145	.1648	.55010	14.38	.6783	7.422

#1	.9267	508.8	.41924	-.0141	.8869	-.0581
#2	.9119	510.0	.41599	-.0173	.8785	-.0523

Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0093	.9325	.0208	-.0238	.4772	.8764
Stddev	.0144	.0052	.0014	.0073	.0024	.0046
%RSD	154.4	.5584	6.510	30.86	.4940	.5194

#1	.0009	.9362	.0218	-.0186	.4789	.8731
#2	-.0194	.9288	.0198	-.0290	.4756	.8796

Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

WS 5/24/11

Sample Name: ICSAB Run Time: 05/24/11 17:23

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1175	-.0141	-.00455	.0508	.01106	.07044
Stddev	.0058	.0006	.00129	.0022	.00033	.00138
%RSD	4.918	4.077	28.347	4.354	2.9911	1.9651
#1	-.1216	-.0146	-.00546	.0492	.01083	.07142
#2	-.1134	-.0137	-.00364	.0523	.01130	.06946
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	176.78					
Stddev	1.76					
%RSD	.99431					
#1	175.54					
#2	178.02					

WS
5/24/11

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/24/11 17:26 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.069	.0120	-.0010	2.4868	.04950	-.0035
Stddev	.068	.0047	.0104	.0276	.00080	.0011
%RSD	1.342	39.00	987.3	1.1095	1.6151	30.34

#1	5.118	.0087	-.0084	2.4673	.04894	-.0043
#2	5.021	.0154	.0063	2.5063	.05007	-.0028

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	24.97	.0038	-.0016	-.0013	25.00
Stddev	.0000	.15	.0018	.0007	.0015	.33
%RSD	6.731	.5901	47.91	43.00	123.6	1.308

#1	.0004	24.87	.0052	-.0020	-.0002	24.77
#2	.0005	25.08	.0025	-.0011	-.0023	25.23

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0048	25.03	4.972	-.0001	-.0045	9.937
Stddev	.0009	.15	.073	.0007	.0015	.021
%RSD	19.26	.5981	1.465	575.7	32.45	.2130

#1	-.0042	24.93	4.920	-.0006	-.0035	9.922
#2	-.0055	25.14	5.023	.0003	-.0055	9.952

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0148	.0026	9.748	.0040	.0028	.0013
Stddev	.0091	.0027	.148	.0017	.0028	.0013
%RSD	61.61	104.0	1.521	41.71	100.1	104.6

#1	-.0084	.0007	9.644	.0052	.0048	.0003
#2	-.0213	.0045	9.853	.0028	.0008	.0022

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/24/11 17:26

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.933	2.490	-.00216	.0202	.49469	.49538
Stddev	.052	.000	.00065	.0021	.00099	.00720
%RSD	.5217	.0116	30.125	10.17	.20070	1.4527
#1	9.896	2.490	-.00170	.0188	.49399	.49029
#2	9.970	2.490	-.00262	.0217	.49539	.50047
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.19					
Stddev	1.82					
%RSD	.97404					
#1	188.48					
#2	185.90					

Method: 2011A Sample Name: CCVA Operator:
 Comment:
 Run Time: 05/24/11 17:29 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5116	2.492	2.429	.46590	.55145	.5020
Stddev	.0279	.000	.002	.00081	.00171	.0009
%RSD	5.450	.0117	.0785	.17324	.31071	.1763
#1	.5313	2.492	2.428	.46647	.55266	.5014
#2	.4918	2.493	2.430	.46533	.55024	.5026
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4981	2.486	.5046	.5036	.4974	.5087
Stddev	.0015	.016	.0015	.0035	.0046	.0034
%RSD	.3015	.6535	.2915	.7024	.9189	.6594
#1	.4970	2.475	.5036	.5011	.5006	.5111
#2	.4992	2.498	.5057	.5061	.4941	.5063
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.505	2.1107	.99054	.9983	.5069	5.039
Stddev	.019	.0035	.00193	.0038	.0008	.011
%RSD	.7486	.16686	.19514	.3762	.1534	.2208
#1	2.491	2.1082	.99191	.9957	.5074	5.031
#2	2.518	2.1132	.98918	1.001	.5063	5.047
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.437	.5017	.4840	2.458	.5025	.4992
Stddev	.024	.0062	.0019	.001	.0023	.0009
%RSD	.9968	1.228	.3983	.0360	.4602	.1730
#1	2.420	.5061	.4827	2.459	.5009	.4986
#2	2.454	.4973	.4854	2.458	.5041	.4998
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 05/24/11 17:29

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231	.8355	.50209	4.947	.50327	.49828
Stddev	.0326	.0086	.00118	.028	.00015	.00168
%RSD	141.3	1.034	.23576	.5553	.03005	.33676
#1	.0461	.8293	.50125	4.928	.50338	.49947
#2	.0000	.8416	.50293	4.967	.50316	.49710
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.66					
Stddev	.59					
%RSD	.31681					
#1	186.24					
#2	187.07					

Method:	2011A	Sample Name:	CCB	Operator:		
Comment:						
Run Time:	05/24/11 17:32	Type:	QC	Mode:	CONC	Corr.Fact: 1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	
Units	ppm	ppm	ppm	ppm	ppm	
Avg	-.0009	-.0016	-.0004	.00047	.00011	
Stddev	.0176	.0008	.0079	.00032	.00003	
%RSD	2069.	47.68	1890.	68.087	28.952	
#1	-.0133	-.0011	.0052	.00025	.00014	
#2	.0116	-.0022	-.0060	.00070	.00009	
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.0000	.0000	.0000	.00000	.00000	
Range	±.0500	±.0500	±.1000	±.00500	±.00500	
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286	
Units	ppm	ppm	ppm	ppm	ppm	
Avg	-.0033	-.0002	.0097	.0010	.0000	
Stddev	.0008	.0005	.0003	.0022	.000	
%RSD	23.48	224.2	2.615	219.8	262.8	
#1	-.0038	.0001	.0099	.0026	.0000	
#2	-.0027	-.0006	.0095	-.0006	-.0001	
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.0000	.0000	.0000	.0000	.0000	
Range	±.0500	±.0050	±.0500	±.0050	±.0100	
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576	
Units	ppm	ppm	ppm	ppm	ppm	
Avg	.0024	.0027	.0089	.00317	.00096	
Stddev	.0027	.0002	.0003	.00042	.00013	
%RSD	111.4	5.930	3.382	13.208	13.276	
#1	.0043	.0025	.0091	.00347	.00105	
#2	.0005	.0028	.0087	.00288	.00087	
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.0000	.0000	.0000	.00000	.00000	
Range	±.0100	±.0200	±.0500	±.02000	±.00500	
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280	
Units	ppm	ppm	ppm	ppm	ppm	
Avg	.0017	.0010	.0097	.0101	.0018	
Stddev	.0018	.0000	.0162	.0130	.0008	
%RSD	108.8	3.532	167.4	128.7	43.58	
#1	.0029	.0010	.0211	.0193	.0023	
#2	.0004	.0009	-.0018	.0009	.0012	
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	
Value	.0000	.0000	.0000	.0000	.0000	
Range	±.0100	±.0200	±.4000	±.1000	±.0100	

Sample Name: CCB Run Time: 05/24/11 17:32

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	-.0011	.0003	.0002	.0069
Stddev	.0029	.0087	.0032	.0011	.0168
%RSD	154.7	818.2	994.7	669.4	242.4

#1	.0002	-.0072	-.0019	.0009	-.0049
#2	-.0040	.0051	.0026	-.0006	.0188

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.00041	-.0085	-.00032	.00015
Stddev	.0029	.00022	.0104	.00045	.00001
%RSD	155.3	53.154	122.6	139.94	3.9263

#1	.0039	-.00025	-.0011	.00000	.00014
#2	-.0002	-.00056	-.0159	-.00063	.00015

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	184.13
Stddev	.15
%RSD	.08407

#1	184.23
#2	184.02

Method: 2011A Sample Name: K1104106-MB Operator:
 Comment: 052411B
 Run Time: 05/24/11 17:35 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0170	.0044	-.0090	.00050	-.00009	-.0047
#1	.0187	.0098	-.0111	.00051	-.00004	-.0051
#2	.0152	-.0011	-.0068	.00049	-.00015	-.0044
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0070	.0012	-.0001	-.0023	.0066
#1	.0013	.0005	.0007	-.0002	-.0027	.0068
#2	-.0004	.0135	.0017	.0000	-.0018	.0064
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091	-.00021	-.00009	.0005	-.0011	.0266
#1	.0175	-.00015	-.00003	-.0001	-.0002	.0005
#2	.0006	-.00028	-.00015	.0010	-.0019	.0526
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0129	-.0038	-.0079	-.0014	-.0012	-.0001
#1	-.0267	-.0050	-.0060	-.0015	-.0030	.0003
#2	.0009	-.0026	-.0098	-.0013	.0005	-.0005
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0486	-.00101	-.0012	-.00085	-.00009
#1	.0006	.0488	-.00142	-.0119	-.00058	-.00008
#2	-.0016	.0484	-.00059	.0094	-.00111	-.00010
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.84					
#1	185.37					
#2	184.30					

Method: 2011A Sample Name: LCSW, K1104106 Operator:
 Comment: 052411B
 Run Time: 05/24/11 17:39 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.885	2.392	2.356	5.0069	.12347	.9362
#1	4.862	2.377	2.341	5.0059	.12396	.9391
#2	4.908	2.407	2.371	5.0079	.12299	.9333
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.138	12.16	.5050	1.226	.5753	2.373
#1	1.142	12.02	.5061	1.228	.5843	2.377
#2	1.133	12.31	.5039	1.225	.5662	2.368
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.368	12.22	1.1799	.9711	1.204	12.03
#1	2.359	12.21	1.1946	.9713	1.207	12.03
#2	2.376	12.23	1.1652	.9709	1.201	12.03
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.354	.6011	11.39	.0068	1.203	1.172
#1	2.348	.6077	11.47	.0108	1.215	1.170
#2	2.360	.5945	11.31	.0028	1.192	1.174
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0526	.0215	.00066	2.420	9.9396	>4.5000
#1	.0579	.0237	.00148	2.408	9.9678	>4.5000
#2	.0473	.0193	-.00015	2.432	9.9113	>4.5000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.63					
#1	185.17					
#2	186.10					

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Method: 2011A Sample Name: LCSW, K1104106 Operator:
 Comment: 052411B Si
 Run Time: 05/24/11 17:42 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0125	.0088	-.0077	.00118	-.00001	-.0029
#1	.0187	.0045	-.0163	.00154	.00000	-.0027
#2	.0063	.0131	.0009	.00082	-.00002	-.0031
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0083	.0013	-.0007	.0021	.0061
#1	-.0009	.0138	.0002	-.0011	.0021	.0066
#2	.0004	.0027	.0023	-.0003	.0021	.0056
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084	.00130	.00004	.0026	-.0006	.0481
#1	.0090	.00147	.00021	.0047	-.0008	.0623
#2	.0077	.00113	-.00012	.0005	-.0005	.0340
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074	.0004	15.76	.0025	-.0023	.0002
#1	-.0009	.0010	15.96	.0072	-.0015	.0009
#2	.0156	-.0001	15.56	-.0021	-.0030	-.0005
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0090	9.896	-.00013	-.0103	.00069	.00130
#1	-.0174	9.862	-.00108	-.0182	.00141	.00160
#2	-.0007	9.930	.00081	-.0025	-.00004	.00101
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.31					
#1	185.57					
#2	191.05					

Method: 2011A Sample Name: K1104448-001 Operator:
 Comment: 052411A
 Run Time: 05/24/11 17:45 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0338	-.0009	-.0043	.03516	-.00014	.0122
#1	.0347	.0002	-.0077	.03507	-.00015	.0117
#2	.0329	-.0020	-.0008	.03526	-.00013	.0126
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	44.87	.0003	-.0012	.0018	.0423
#1	-.0010	44.58	-.0006	-.0013	.0020	.0423
#2	-.0001	45.16	.0011	-.0012	.0017	.0423
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0054	1.7740	.00509	.0098	-.0009	2.460
#1	.0067	1.7674	.00494	.0100	-.0017	2.442
#2	.0040	1.7807	.00523	.0095	-.0001	2.478
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0018	.0026	2.526	-.0118	.0025	.0030
#1	.0101	.0037	2.515	-.0052	.0022	.0038
#2	-.0138	.0015	2.536	-.0183	.0027	.0023
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0119	1.471	.00021	.0034	.00038	.17268
#1	-.0095	1.466	-.00021	-.0100	-.00004	.17262
#2	-.0143	1.476	.00062	.0168	.00079	.17275
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.44					
#1	186.97					
#2	187.90					

Method: 2011A Sample Name: K1104448-001L Operator:
 Comment: 052411B 1/5
 Run Time: 05/24/11 17:48 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0267	.0044	.0047	.00742	-.00008	-.0014
#1	.0330	.0055	.0009	.00770	-.00010	-.0005
#2	.0205	.0033	.0086	.00714	-.00007	-.0023
Elem	Cd2265	Ca2112	Ca3179	Cr2677	Co2286	Cu3247
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	9.210	8.941	.0017	-.0005	.0024
#1	.0007	9.186	8.923	.0022	-.0006	.0024
#2	.0001	9.233	8.958	.0013	-.0003	.0024
Elem	Fe2599	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.0089	.33897	.00101	.0016	-.0018
#1	.0070	.0064	.33765	.00119	.0023	-.0026
#2	.0060	.0114	.34028	.00084	.0008	-.0010
Elem	K_7664	Se1960	Ag3280	Na5895	Sn1899	V_3102
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4939	.0028	-.0007	.5263	-.0007	.0005
#1	.5138	.0156	-.0015	.5183	-.0005	.0006
#2	.4741	-.0101	.0001	.5344	-.0008	.0004
Elem	Zn2062	P_2149	Si2516	Ti3234	Tl1908	Li6707
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0086	.3049	-.00004	-.0191	-.00040
#1	.0016	-.0094	.3035	-.00120	-.0139	-.00049
#2	.0008	-.0078	.3063	.00111	-.0244	-.00032
Elem	Sr4077					
Units	ppm					
Avg	.03654					
#1	.03639					
#2	.03668					
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.51					
#1	185.01					
#2	184.00					

Method: 2011A Sample Name: K1104448-001D Operator:
 Comment: 052411B
 Run Time: 05/24/11 17:51 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0303	.0067	-.0175	.03510	-.00011	.0124
#1	.0222	.0100	-.0120	.03519	-.00013	.0127
#2	.0383	.0034	-.0231	.03502	-.00010	.0121
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	47.08	.0025	-.0014	.0007	.0439
#1	.0000	46.71	.0023	-.0019	.0012	.0438
#2	.0001	47.44	.0027	-.0008	.0001	.0440
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0122	1.8368	.00621	.0088	-.0012	2.545
#1	.0096	1.8394	.00625	.0091	-.0017	2.562
#2	.0148	1.8343	.00617	.0085	-.0008	2.528
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	-.0004	2.638	-.0061	.0028	.0040
#1	.0101	.0015	2.642	-.0023	.0063	.0043
#2	.0175	-.0023	2.634	-.0099	-.0007	.0037
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	1.546	.00176	-.0033	.00036	.18717
#1	.0038	1.541	.00194	-.0063	.00004	.18740
#2	-.0068	1.551	.00157	-.0002	.00067	.18695
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.79					
#1	189.64					
#2	189.95					

Method: 2011A Sample Name: K1104448-001S Operator:
 Comment: 052411B
 Run Time: 05/24/11 17:54 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.958	.4623	.9398	1.9917	.04932	.9518
#1	1.955	.4511	.9351	1.9772	.04905	.9509
#2	1.962	.4736	.9445	2.0061	.04960	.9527
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0460	55.17	.1934	.4747	.2350	.9861
#1	.0460	54.84	.1927	.4707	.2362	.9788
#2	.0459	55.49	.1940	.4786	.2337	.9934
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4585	11.41	.45945	.9777	.4708	12.22
#1	.4570	11.32	.45627	.9636	.4661	12.24
#2	.4600	11.50	.46264	.9918	.4756	12.21
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9463	.0488	12.27	-.0087	.4801	.4713
#1	.9334	.0478	12.25	-.0025	.4776	.4662
#2	.9593	.0497	12.29	-.0149	.4826	.4763
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0026	1.486	.00044	.8453	10.611	>4.5000
#1	.0125	1.476	-.00019	.8360	10.634	>4.5000
#2	-.0073	1.497	.00108	.8546	10.588	>4.5000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.09					
#1	188.53					
#2	187.66					

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Method: 2011A Sample Name: K1104448-001S Operator:
 Comment: 052411B Si
 Run Time: 05/24/11 17:58 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0574	.0090	-.0106	.03586	-.00010	.0134
#1	.0369	.0178	-.0205	.03632	-.00012	.0136
#2	.0779	.0002	-.0008	.03541	-.00008	.0132
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	47.62	.0012	.0001	-.0011	.0469
#1	-.0006	47.39	.0011	.0006	.0007	.0474
#2	-.0004	47.86	.0012	-.0003	-.0029	.0465
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0097	1.8588	.00547	.0121	-.0010	2.550
#1	.0115	1.8533	.00563	.0138	-.0013	2.556
#2	.0078	1.8643	.00532	.0105	-.0007	2.545
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0065	.0029	19.80	-.0036	.0031	.0043
#1	-.0065	.0040	19.92	-.0024	.0015	.0048
#2	-.0065	.0018	19.67	-.0048	.0047	.0037
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0105	12.89	-.00130	.0021	.00132	.18019
#1	-.0201	12.81	-.00245	.0086	.00143	.18158
#2	-.0010	12.98	-.00015	-.0044	.00121	.17880
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.35					
#1	187.97					
#2	190.74					

Method: 2011A Sample Name: K1104448-002 Operator:
 Comment: 052411B
 Run Time: 05/24/11 18:01 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0864	-.0044	-.0017	.00046	-.00005	-.0018
#1	.1024	-.0033	-.0034	.00043	-.00004	-.0015
#2	.0703	-.0055	.0000	.00048	-.00006	-.0021
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	6.929	.0006	-.0011	-.0021	.0632
#1	-.0004	6.927	.0010	.0003	-.0012	.0622
#2	-.0013	6.931	.0001	-.0024	-.0030	.0641
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.50152	.00319	-.0018	.0004	.1063
#1	.0021	.50152	.00313	-.0012	.0001	.1222
#2	.0063	.50152	.00325	-.0025	.0006	.0903
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0166	-.0033	2.171	-.0041	-.0004	.0018
#1	.0120	-.0029	2.179	-.0074	-.0004	.0016
#2	.0212	-.0037	2.164	-.0009	-.0004	.0021
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0073	.6660	-.00123	-.0077	-.00011	.01901
#1	-.0126	.6642	-.00202	.0157	-.00042	.01915
#2	-.0019	.6678	-.00043	-.0311	.00021	.01887
Int. Std.	Sc3572					
Units	Cts/S					
Avg	192.14					
#1	191.74					
#2	192.54					

Method: 2011A Sample Name: K1104448-003 Operator:
 Comment: 052411B
 Run Time: 05/24/11 18:04 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0489	.0034	-.0171	.03662	-.00008	.0119
#1	.0738	.0002	-.0317	.03580	-.00010	.0115
#2	.0240	.0067	-.0026	.03743	-.00006	.0123
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	47.02	.0012	-.0009	-.0011	.0452
#1	-.0004	46.65	.0019	-.0012	-.0024	.0443
#2	-.0009	47.38	.0005	-.0007	.0002	.0460
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0063	1.8346	.00536	.0100	-.0007	2.526
#1	.0044	1.8327	.00508	.0112	-.0001	2.516
#2	.0082	1.8365	.00564	.0089	-.0013	2.536
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	.0035	2.647	-.0019	.0036	.0029
#1	-.0046	.0029	2.623	-.0047	.0027	.0024
#2	.0230	.0042	2.672	.0009	.0044	.0033
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0102	1.466	.00088	-.0039	.00035	.17863
#1	-.0161	1.463	-.00046	-.0043	.00019	.17630
#2	-.0044	1.468	.00221	-.0034	.00051	.18096
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.39					
#1	189.63					
#2	185.15					

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/24/11 18:07 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.906	.0109	-.0067	2.5003	.04901	-.0039
Stddev	.005	.0078	.0024	.0043	.00010	.0013
%RSD	.0962	71.10	36.37	.17183	.19693	34.21
#1	4.902	.0164	-.0084	2.4973	.04894	-.0048
#2	4.909	.0054	-.0050	2.5034	.04907	-.0029
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0011	24.78	.0040	-.0013	-.0015	24.52
Stddev	.0007	.32	.0003	.0006	.0006	.03
%RSD	63.96	1.283	6.333	44.18	41.82	.1189
#1	.0006	24.55	.0038	-.0009	-.0010	24.50
#2	.0017	25.00	.0042	-.0017	-.0019	24.54
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	24.61	4.920	-.0009	-.0045	9.708
Stddev	.0100	.09	.016	.0001	.0020	.023
%RSD	495.0	.3843	.3262	8.176	43.67	.2364
#1	.0091	24.68	4.932	-.0010	-.0059	9.692
#2	-.0051	24.54	4.909	-.0009	-.0031	9.724
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184	-.0041	9.460	-.0016	.0017	.0001
Stddev	.0039	.0021	.053	.0109	.0020	.0002
%RSD	21.29	51.94	.5659	663.9	114.4	156.8
#1	.0156	-.0056	9.498	-.0094	.0003	.0000
#2	.0212	-.0026	9.422	.0061	.0031	.0002
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/24/11 18:07

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.915	2.479	-.00056	.0058	.48898	.48844
Stddev	.044	.005	.00002	.0163	.00052	.00143
%RSD	.4404	.2043	4.0862	279.4	.10571	.29202
#1	9.885	2.475	-.00055	.0174	.48862	.48945
#2	9.946	2.483	-.00058	-.0057	.48935	.48743
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.42					
Stddev	.12					
%RSD	.06256					
#1	186.34					
#2	186.51					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/24/11 18:10 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4982	2.394	2.292	.46258	.53138	.4884
Stddev	.0214	.012	.029	.01040	.00784	.0038
%RSD	4.302	.5121	1.281	2.2482	1.4759	.7818
#1	.4830	2.385	2.271	.45523	.52584	.4857
#2	.5133	2.403	2.313	.46994	.53693	.4911
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4664	2.363	.4980	.4980	.4683	.4931
Stddev	.0078	.002	.0109	.0097	.0000	.0039
%RSD	1.666	.1036	2.192	1.943	.0043	.7814
#1	.4609	2.362	.4903	.4912	.4683	.4904
#2	.4719	2.365	.5058	.5049	.4683	.4959
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.412	2.0330	.93962	.9732	.4942	4.824
Stddev	.056	.0006	.01283	.0231	.0103	.043
%RSD	2.318	.02897	1.3649	2.370	2.084	.8927
#1	2.373	2.0334	.93055	.9569	.4869	4.793
#2	2.452	2.0325	.94869	.9895	.5015	4.854
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.394	.4848	.4517	2.344	.4873	.4666
Stddev	.031	.0000	.0098	.048	.0094	.0101
%RSD	1.292	.0026	2.175	2.025	1.923	2.168
#1	2.372	.4848	.4447	2.311	.4807	.4595
#2	2.416	.4848	.4586	2.378	.4940	.4738
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 05/24/11 18:10

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0387	.8155	.49281	4.908	.48807	.49306
Stddev	.0213	.0067	.00433	.103	.00152	.00635
%RSD	55.08	.8251	.87799	2.109	.31056	1.2872

#1	.0236	.8108	.48975	4.834	.48700	.48858
#2	.0538	.8203	.49587	4.981	.48914	.49755

Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	186.15
Stddev	1.92
%RSD	1.0311

#1	187.51
#2	184.79

Method: 2011A Sample Name: CCB

Operator:

Comment:

Run Time: 05/24/11 18:14 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116	.0000	.0073	.00056	.00006	-.0046
Stddev	.0352	.0061	.0103	.00007	.00004	.0005
%RSD	303.6	17670.	141.3	11.838	68.301	11.12

#1	.0365	-.0043	.0000	.00051	.00003	-.0050
#2	-.0133	.0044	.0146	.00060	.00009	-.0042

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0144	.0015	.0000	-.0014	.0024
Stddev	.0002	.0038	.0010	.001	.0023	.0008
%RSD	40.50	26.51	68.57	3020.	163.6	33.66

#1	-.0004	.0171	.0008	-.0006	.0002	.0019
#2	-.0007	.0117	.0022	.0005	-.0030	.0030

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061	.00249	.00063	.0031	-.0008	.0497
Stddev	.0022	.00000	.00013	.0023	.0002	.0201
%RSD	36.20	.10904	20.839	74.91	25.25	40.31

#1	.0046	.00249	.00073	.0047	-.0007	.0356
#2	.0077	.00249	.00054	.0015	-.0010	.0639

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0055	.0016	-.0013	-.0033	-.0007	-.0003
Stddev	.0039	.0037	.0074	.0025	.0002	.0004
%RSD	70.49	223.7	559.6	75.53	36.84	118.0

#1	-.0083	.0042	.0039	-.0051	-.0008	-.0006
#2	-.0028	-.0010	-.0066	-.0015	-.0005	-.0001

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 05/24/11 18:14

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0067	.0015	-.00098	-.0192	-.00014	.00020
Stddev	.0012	.0003	.00101	.0163	.00041	.00007
%RSD	17.53	21.59	103.74	85.01	280.86	33.631
#1	-.0075	.0013	-.00170	-.0308	-.00043	.00025
#2	-.0058	.0018	-.00026	-.0077	.00014	.00016
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.71					
Stddev	.46					
%RSD	.24879					
#1	186.03					
#2	185.38					

Method: 2011A

Sample Name: LLCCV

Operator:

Comment:

Run Time: 05/24/11 18:17 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	Q .0704	.0412	Q .0625	.00507	.00480
Stddev	.0025	.0054	.0024	.00002	.00020
%RSD	3.585	13.12	3.867	.38746	4.1738
#1	.0686	.0450	.0642	.00506	.00466
#2	.0722	.0373	.0608	.00509	.00494
Check ?	QC Fail	QC Pass	QC Fail	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0450	.0046	.0426	.0060	.0109
Stddev	.0001	.0001	.0005	.0008	.0004
%RSD	.1211	2.702	1.175	12.74	3.259
#1	.0451	.0045	.0429	.0065	.0106
#2	.0450	.0047	.0422	.0054	.0111
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0050	.0500	.0050	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0101	.0186	.0527	.01706	.00452
Stddev	.0011	.0008	.0053	.00018	.00007
%RSD	11.30	4.181	9.960	1.0771	1.6167
#1	.0093	.0181	.0565	.01693	.00447
#2	.0109	.0192	.0490	.01719	.00458
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.0500	.02000	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0104	.0189	.4190	.0911	.0129
Stddev	.0004	.0005	.0363	.0338	.0027
%RSD	3.527	2.631	8.659	37.15	20.81
#1	.0102	.0192	.3934	.0672	.0148
#2	.0107	.0185	.4447	.1150	.0110
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.4000	.1000	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

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Sample Name: LLCCV Run Time: 05/24/11 18:17

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.1753	.0421	.0085	.0079	.2051
Stddev	.0093	.0024	.0027	.0001	.0233
%RSD	5.310	5.768	31.41	1.734	11.36
#1	.1687	.0404	.0066	.0078	.2215
#2	.1819	.0439	.0104	.0079	.1886
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.0500	.0100	.0100	.2000
Range	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.4263	.00789	.0889	.00932	.00889
Stddev	.0005	.00132	.0234	.00072	.00012
%RSD	.1237	16.728	26.35	7.6817	1.3040
#1	.4260	.00882	.1054	.00983	.00881
#2	.4267	.00696	.0723	.00881	.00898
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572				
Units	Cts/S				
Avg	189.71				
Stddev	1.85				
%RSD	.97368				
#1	191.01				
#2	188.40				

Method: 2011A Sample Name: LLCCV

Operator:

Comment:

Run Time: 05/24/11 18:20 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0490	.0472	.0818	.00481	.00481	.0436
Stddev	.0025	.0001	.0066	.00032	.00016	.0008
%RSD	5.173	.1204	8.128	6.6532	3.3125	1.767
#1	.0472	.0472	.0865	.00458	.00469	.0431
#2	.0508	.0473	.0771	.00504	.00492	.0442
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.000%	30.000%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0422	.0049	.0107	.0098	.0189
Stddev	.0004	.0005	.0007	.0000	.0015	.0007
%RSD	8.419	1.210	13.77	.3729	14.90	3.553
#1	.0039	.0426	.0044	.0106	.0108	.0194
#2	.0044	.0419	.0054	.0107	.0087	.0184
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0571	.01708	.00430	.0109	.0179	.4020
Stddev	.0072	.00017	.00014	.0035	.0031	.0082
%RSD	12.60	.97564	3.3351	32.10	17.32	2.048
#1	.0622	.01696	.00420	.0085	.0157	.4078
#2	.0520	.01720	.00441	.0134	.0201	.3962
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0957	.0099	.1871	Q .0324	.0091	.0089
Stddev	.0091	.0012	.0103	.0076	.0019	.0009
%RSD	9.528	11.62	5.513	23.37	20.36	9.670
#1	.0893	.0108	.1798	.0378	.0078	.0083
#2	.1022	.0091	.1944	.0270	.0104	.0096
Check ?	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLCCV Run Time: 05/24/11 18:20

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1895	.4289	.00722	.0719	.00992	.00919
Stddev	.0121	.0009	.00061	.0177	.00039	.00021
%RSD	6.387	.2206	8.4251	24.55	3.9241	2.2507
#1	.1981	.4282	.00679	.0594	.01019	.00904
#2	.1810	.4296	.00764	.0844	.00964	.00933
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.58					
Stddev	2.54					
%RSD	1.3546					
#1	189.38					
#2	185.79					

Method: 2011A Sample Name: K1104448-004 Operator:
 Comment: 052411B
 Run Time: 05/24/11 18:23 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0294	-.0022	.0013	.00018	-.00002	-.0051
#1	.0401	-.0033	-.0094	.00008	.00000	-.0052
#2	.0186	-.0011	.0120	.00029	-.00003	-.0050
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	.0040	.0021	-.0012	.0001	.0071
#1	-.0006	.0020	.0037	-.0012	-.0004	.0072
#2	-.0004	.0059	.0005	-.0013	.0007	.0070
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0103	-.00033	-.00017	.0010	-.0008	.0169
#1	.0036	-.00041	.00010	.0029	.0000	-.0011
#2	.0169	-.00026	-.00043	-.0009	-.0015	.0349
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	-.0015	-.0067	-.0059	.0014	.0005
#1	.0009	-.0015	-.0066	-.0038	.0024	.0016
#2	.0083	-.0015	-.0068	-.0080	.0004	-.0005
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0060	.0421	-.00209	.0067	-.00068	-.00005
#1	.0003	.0402	-.00347	.0128	-.00084	-.00007
#2	.0116	.0441	-.00071	.0006	-.00051	-.00004
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.56					
#1	187.11					
#2	186.01					

Method: 2011A Sample Name: K1104448-001 Operator:
 Comment: 052411B DISS
 Run Time: 05/24/11 18:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0401	.0083	.0004	.03567	-.00001	.0111
#1	.0383	.0089	.0103	.03572	-.00007	.0117
#2	.0418	.0078	-.0094	.03561	.00005	.0104
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	46.76	.0025	.0000	.0011	.0122
#1	-.0006	46.76	.0036	.0003	-.0001	.0114
#2	-.0006	46.77	.0014	-.0002	.0023	.0130
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	1.8220	.00262	.0088	-.0012	2.547
#1	.0036	1.8220	.00251	.0093	-.0010	2.536
#2	-.0021	1.8219	.00272	.0084	-.0015	2.557
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156	.0038	2.640	-.0079	.0028	.0057
#1	-.0083	.0048	2.624	-.0136	.0046	.0060
#2	.0396	.0029	2.656	-.0021	.0011	.0054
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0029	1.425	-.00086	-.0031	.00018	.18743
#1	-.0020	1.423	-.00156	.0001	-.00012	.18707
#2	-.0039	1.428	-.00016	-.0062	.00049	.18779
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.59					
#1	188.41					
#2	188.77					

Method: 2011A Sample Name: K1104448-002 Operator:
 Comment: 052411B DISS
 Run Time: 05/24/11 18:30 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0774	.0022	.0082	.00088	-.00004	-.0032
#1	.0810	-.0022	-.0017	.00076	-.00009	-.0030
#2	.0738	.0066	.0180	.00099	.00001	-.0034
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	6.927	.0017	-.0004	-.0001	.0548
#1	-.0003	6.885	.0020	.0003	-.0015	.0547
#2	-.0010	6.968	.0014	-.0011	.0012	.0549
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106	.49969	.00209	-.0004	-.0013	.1093
#1	.0077	.49862	.00198	-.0012	-.0009	.0945
#2	.0136	.50076	.00219	.0003	-.0017	.1241
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110	-.0029	2.183	.0004	-.0016	.0010
#1	.0046	-.0042	2.168	-.0003	-.0024	.0016
#2	.0175	-.0015	2.198	.0012	-.0007	.0005
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0084	.6581	-.00087	-.0157	-.00008	.01892
#1	-.0119	.6592	-.00108	-.0128	.00032	.01877
#2	-.0049	.6570	-.00067	-.0186	-.00047	.01907
Int. Std.	Sc3572					
Units	Cts/S					
Avg	190.25					
#1	191.66					
#2	188.84					

Method: 2011A Sample Name: K1104448-003 Operator:
 Comment: 052411B DISS
 Run Time: 05/24/11 18:33 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0071	-.0015	-.0064	.03495	-.00008	.0104
#1	-.0044	-.0108	-.0034	.03442	-.00013	.0103
#2	.0187	.0079	-.0094	.03548	-.00003	.0105
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0012	46.89	-.0005	-.0004	.0015	.0109
#1	-.0009	46.63	.0004	-.0003	.0018	.0112
#2	-.0014	47.16	-.0015	-.0006	.0012	.0106
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0039	1.8261	.00172	.0091	.0001	2.504
#1	-.0010	1.8190	.00167	.0080	-.0004	2.494
#2	-.0069	1.8332	.00178	.0103	.0006	2.514
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	.0019	2.585	-.0018	.0014	.0028
#1	-.0120	.0020	2.549	-.0020	.0007	.0026
#2	.0046	.0018	2.621	-.0016	.0021	.0031
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0080	1.444	-.00259	-.0058	.00031	.18439
#1	-.0159	1.434	-.00323	.0031	.00084	.18281
#2	-.0001	1.453	-.00195	-.0147	-.00022	.18598
Int. Std.	Sc3572					
Units	Cts/S					
Avg	192.28					
#1	193.47					
#2	191.10					

Method: 2011A Sample Name: K1104448-004 Operator:
 Comment: 052411B DISS
 Run Time: 05/24/11 18:36 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134	.0049	-.0107	.00001	-.00006	-.0064
#1	-.0062	-.0022	-.0146	-.00011	-.00005	-.0054
#2	.0329	.0120	-.0068	.00013	-.00006	-.0074
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0097	.0024	-.0006	-.0010	.0107
#1	.0000	.0131	.0026	-.0003	-.0004	.0099
#2	.0000	.0063	.0022	-.0008	-.0017	.0115
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139	-.00010	-.00013	-.0003	-.0009	-.0007
#1	.0092	-.00011	-.00029	-.0007	-.0004	-.0230
#2	.0186	-.00008	.00003	.0001	-.0015	.0217
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0092	.0010	-.0072	-.0044	.0008	.0002
#1	-.0083	-.0018	-.0075	-.0089	.0020	-.0004
#2	-.0101	.0037	-.0068	.0001	-.0004	.0008
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0156	.0612	-.00070	.0012	-.00052	.00000
#1	.0265	.0598	-.00134	-.0083	-.00045	.00000
#2	.0048	.0625	-.00006	.0107	-.00060	.00000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.12					
#1	189.12					
#2	187.12					

Method: 2011A Sample Name: RB Operator:
 Comment: 052411B
 Run Time: 05/24/11 18:39 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0321	.0016	.0026	-.00007	-.00010	-.0052
#1	.0454	.0011	.0060	.00004	-.00004	-.0056
#2	.0187	.0022	-.00008	-.00019	-.00017	-.0049
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.0009	.0008	-.0004	-.0001	-.0041
#1	-.0004	.0034	.0011	-.0012	-.0015	-.0037
#2	-.0004	-.0016	.0005	.0004	.0014	-.0044
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068	-.00093	-.00035	.0008	.0000	.0283
#1	.0040	-.00097	-.00047	.0019	.0003	-.0005
#2	.0097	-.00090	-.00022	-.0003	-.0004	.0571
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	-.0010	-.0081	-.0043	-.0026	-.0001
#1	.0156	-.0001	-.0032	.0013	-.0024	-.0001
#2	.0120	-.0018	-.0130	-.0100	-.0028	-.0002
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0183	.0050	-.00089	-.0049	-.00007	-.00001
#1	-.0095	.0063	-.00072	-.0090	.00027	-.00002
#2	-.0270	.0038	-.00105	-.0008	-.00042	-.00001
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.85					
#1	180.87					
#2	182.82					

Method: 2011A Sample Name: K1104448-MB Operator:
 Comment: 052411B P
 Run Time: 05/24/11 18:42 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0383	.0071	-.0107	.00033	-.00009	-.0039
#1	.0312	.0033	-.0137	.00032	-.00012	-.0039
#2	.0454	.0110	-.0077	.00035	-.00006	-.0039
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0032	.0000	-.0011	.0012	.0049
#1	-.0012	-.0016	-.0004	-.0010	.0040	.0053
#2	-.0003	.0081	.0004	-.0011	-.0015	.0045
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0139	-.00020	-.00035	.0007	-.0013	.0267
#1	.0113	-.00032	-.00040	.0010	-.0013	.0124
#2	.0164	-.00008	-.00031	.0005	-.0012	.0410
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0074	.0001	-.0048	-.0045	-.0017	.0004
#1	-.0065	-.0018	-.0112	-.0008	-.0008	.0013
#2	.0212	.0020	.0015	-.0081	-.0026	-.0005
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0253	-.00297	.0172	-.00037	-.00003
#1	.0061	.0251	-.00298	.0205	-.00071	-.00001
#2	.0016	.0255	-.00296	.0140	-.00004	-.00006
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.83					
#1	189.28					
#2	190.38					

Method: 2011A Sample Name: LCSW, K1104448 Operator:
 Comment: 052411B P
 Run Time: 05/24/11 18:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.974	2.431	2.357	5.1260	.12785	.9527
#1	4.907	2.412	2.335	5.1205	.12937	.9487
#2	5.040	2.450	2.378	5.1314	.12633	.9568
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.145	12.25	.5198	1.257	.5869	2.444
#1	1.144	12.07	.5175	1.257	.5892	2.447
#2	1.145	12.44	.5220	1.257	.5846	2.441
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.423	12.60	1.2023	1.010	1.245	12.37
#1	2.414	12.51	1.2068	1.010	1.242	12.41
#2	2.431	12.69	1.1978	1.010	1.248	12.32
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.398	.6071	11.82	-.0035	1.258	1.179
#1	2.372	.6093	11.97	-.0093	1.273	1.177
#2	2.424	.6049	11.67	.0024	1.243	1.182
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.01	-.0091	-.00213	2.489	10.219	>4.5000
#1	9.939	-.0111	-.00140	2.502	10.256	>4.5000
#2	10.07	-.0071	-.00286	2.476	10.181	>4.5000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.02					
#1	182.46					
#2	185.58					

Method: 2011A Sample Name: K1104448-001 Operator:
 Comment: 052411B P
 Run Time: 05/24/11 18:49 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0383	.0029	-.0073	.03640	.00001	.0134
#1	.0454	-.0064	.0017	.03668	.00004	.0139
#2	.0312	.0122	-.0163	.03612	-.00002	.0129
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	46.27	.0014	-.0007	.0033	.0511
#1	.0011	45.81	.0007	-.0009	.0034	.0514
#2	.0000	46.73	.0021	-.0005	.0032	.0508
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084	1.8240	.00543	.0095	-.0010	2.554
#1	.0025	1.8175	.00545	.0090	-.0013	2.575
#2	.0142	1.8305	.00541	.0100	-.0007	2.532
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0239	.0003	2.545	-.0024	.0041	.0043
#1	.0212	.0007	2.547	-.0026	.0030	.0048
#2	.0267	-.0001	2.543	-.0021	.0052	.0038
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0060	1.436	-.00128	-.0138	.00136	.17520
#1	-.0068	1.425	-.00214	-.0229	.00128	.17517
#2	-.0053	1.447	-.00042	-.0046	.00143	.17523
Int. Std.	Sc3572					
Units	Cts/S					
Avg	191.41					
#1	191.34					
#2	191.48					

Method: 2011A Sample Name: K1104448-001L Operator:
 Comment: 052411B P 1/5
 Run Time: 05/24/11 18:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223	.0027	-.0064	.00746	-.00007	-.0014
#1	.0134	.0055	-.0094	.00733	.00005	-.0008
#2	.0312	.0000	-.0034	.00759	-.00019	-.0019
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	9.443	.0015	-.0011	-.0013	.0073
#1	.0006	9.389	.0002	-.0015	-.0015	.0080
#2	-.0015	9.496	.0029	-.0008	-.0011	.0067
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0068	.34850	.00080	.0019	-.0009	.5180
#1	.0054	.34807	.00092	.0020	-.0009	.5152
#2	.0083	.34894	.00068	.0017	-.0010	.5209
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	-.0016	.5246	-.0097	-.0002	.0010
#1	-.0046	-.0004	.5278	-.0101	.0011	.0005
#2	.0156	-.0029	.5213	-.0094	-.0016	.0015
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0150	.2958	-.00268	.0094	.00023	.03688
#1	-.0079	.2943	-.00289	.0106	.00020	.03712
#2	-.0221	.2972	-.00246	.0082	.00026	.03665
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.35					
#1	187.55					
#2	189.16					

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/24/11 18:55 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.038	.0137	.0032	2.4773	.04909	-.0037
Stddev	.040	.0054	.0224	.0221	.00011	.0004
%RSD	.8021	39.48	696.9	.89035	.23136	10.39

#1	5.009	.0175	.0191	2.4617	.04901	-.0040
#2	5.066	.0098	-.0127	2.4929	.04917	-.0034

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	25.06	.0042	-.0014	-.0009	24.78
Stddev	.0013	.29	.0014	.0009	.0006	.16
%RSD	135.8	1.143	32.96	67.59	70.17	.6414

#1	.0019	24.86	.0032	-.0020	-.0013	24.67
#2	.0000	25.27	.0052	-.0007	-.0005	24.89

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0029	24.96	4.941	-.0011	-.0048	9.933
Stddev	.0013	.07	.015	.0035	.0009	.007
%RSD	43.55	.2649	.3137	324.1	19.25	.0660

#1	-.0038	24.91	4.930	-.0035	-.0041	9.928
#2	-.0020	25.00	4.952	.0014	-.0054	9.937

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110	-.0035	9.624	.0023	.0048	.0013
Stddev	.0013	.0006	.001	.0020	.0003	.0004
%RSD	11.86	16.31	.0118	88.24	5.393	26.91

#1	.0101	-.0040	9.624	.0037	.0050	.0016
#2	.0119	-.0031	9.623	.0009	.0046	.0011

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/24/11 18:55

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.991	2.505	-.00216	.0167	.49491	.49093
Stddev	.107	.013	.00135	.0204	.00008	.00016
%RSD	1.072	.5153	62.566	122.6	.01676	.03298
#1	9.915	2.496	-.00120	.0311	.49485	.49081
#2	10.07	2.515	-.00311	.0022	.49497	.49104
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.65					
Stddev	.19					
%RSD	.09925					
#1	188.78					
#2	188.52					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/24/11 18:58 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5043	2.458	2.412	.46066	.54388	.4964
Stddev	.0105	.043	.020	.00576	.00366	.0029
%RSD	2.074	1.741	.8370	1.2508	.67286	.5825
#1	.4969	2.428	2.398	.45658	.54129	.4944
#2	.5117	2.488	2.426	.46473	.54647	.4985
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4896	2.453	.4981	.4972	.4977	.5031
Stddev	.0076	.001	.0055	.0038	.0014	.0025
%RSD	1.554	.0400	1.112	.7695	.2732	.4892
#1	.4842	2.453	.4942	.4945	.4987	.5013
#2	.4949	2.454	.5021	.4999	.4968	.5048
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.447	2.0928	.98646	.9904	.4962	5.013
Stddev	.025	.0030	.01211	.0203	.0059	.023
%RSD	1.027	.14533	1.2278	2.054	1.182	.4510
#1	2.430	2.0906	.97790	.9760	.4921	5.029
#2	2.465	2.0949	.99503	1.005	.5004	4.997
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.442	.4965	.4831	2.416	.4961	.4896
Stddev	.054	.0023	.0052	.065	.0005	.0076
%RSD	2.194	.4650	1.082	2.681	.1021	1.554
#1	2.404	.4949	.4794	2.370	.4965	.4843
#2	2.480	.4982	.4868	2.462	.4958	.4950
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 05/24/11 18:58

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0391	.8336	.49535	4.894	.50426	.49322
Stddev	.0097	.0061	.00088	.015	.00009	.00154
%RSD	24.90	.7306	.17792	.3108	.01778	.31270

#1	.0322	.8293	.49598	4.883	.50420	.49213
#2	.0460	.8379	.49473	4.905	.50433	.49431

Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	188.19
Stddev	1.03
%RSD	.55000

#1	188.92
#2	187.46

Method: 2011A	Sample Name: CCB		Operator:		
Comment:					
Run Time: 05/24/11 19:01	Type: QC	Mode: CONC	Corr.Fact: 1.000000		
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	-.0011	.0026	.00062	.00012
Stddev	.0088	.0155	.0085	.00036	.00002
%RSD	505.0	1433.	328.7	58.104	12.845
#1	-.0080	.0099	-.0034	.00088	.00013
#2	.0045	-.0121	.0086	.00037	.00011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0500	±.0500	±.1000	±.00500	±.00500
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0051	.0004	.0066	.0013	-.0002
Stddev	.0002	.0003	.0030	.0013	.0003
%RSD	3.961	90.39	45.84	103.6	162.7
#1	-.0052	.0006	.0045	.0003	-.0004
#2	-.0049	.0001	.0088	.0022	.0000
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0500	±.0050	±.0500	±.0050	±.0100
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0013	.0033	.0011	.00279	.00083
Stddev	.0003	.0014	.0088	.00004	.00027
%RSD	23.63	42.58	825.9	1.3184	32.043
#1	.0011	.0043	-.0052	.00282	.00102
#2	.0015	.0023	.0073	.00276	.00064
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000
Range	±.0100	±.0200	±.0500	±.02000	±.00500
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0015	-.0014	.0422	-.0028	.0004
Stddev	.0025	.0004	.0011	.0052	.0019
%RSD	158.3	29.03	2.692	187.8	471.1
#1	.0033	-.0011	.0430	-.0065	.0018
#2	-.0002	-.0016	.0414	.0009	-.0010
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.0100	±.0200	±.4000	±.1000	±.0100

Sample Name: CCB Run Time: 05/24/11 19:01

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0042	-.0025	-.0001	-.0004	-.0033
Stddev	.0009	.0037	.0013	.0008	.0100
%RSD	22.15	145.0	2456.	169.6	307.7
#1	-.0035	-.0051	-.0009	-.0010	.0038
#2	-.0049	.0001	.0008	.0001	-.0103
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000
Range	±.2000	±.0500	±.0100	±.0100	±.2000
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0051	-.00049	-.0193	-.00013	.00025
Stddev	.0016	.00024	.0132	.00059	.00002
%RSD	30.82	48.716	68.43	444.95	9.2490
#1	.0062	-.00032	-.0100	.00029	.00027
#2	.0040	-.00065	-.0286	-.00055	.00024
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572				
Units	Cts/S				
Avg	185.59				
Stddev	1.38				
%RSD	.74533				
#1	186.56				
#2	184.61				

Method: 2011A Sample Name: LLCCV

Operator:

Comment:

Run Time: 05/24/11 19:05 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0624	.0434	.0895	.00470	.00492	.0455
Stddev	.0113	.0024	.0018	.00042	.00003	.0002
%RSD	18.16	5.452	2.034	8.8542	.68155	.5027
#1	.0704	.0417	.0882	.00441	.00490	.0453
#2	.0544	.0450	.0908	.00499	.00495	.0457
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.000%	30.000%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0494	.0061	.0109	.0090	.0180
Stddev	.0004	.0020	.0006	.0002	.0027	.0005
%RSD	9.148	4.100	10.30	1.441	29.88	2.789
#1	.0045	.0508	.0065	.0110	.0109	.0183
#2	.0040	.0480	.0057	.0107	.0071	.0176
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0571	.01716	.00447	.0114	.0180	.4017
Stddev	.0058	.00008	.00006	.0019	.0022	.0131
%RSD	10.16	.48601	1.2786	16.43	12.20	3.271
#1	.0612	.01722	.00451	.0100	.0195	.4110
#2	.0530	.01710	.00443	.0127	.0164	.3924
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1114	.0083	.1852	.0370	.0081	.0091
Stddev	.0130	.0012	.0123	.0029	.0018	.0005
%RSD	11.69	13.87	6.625	7.957	22.74	6.023
#1	.1022	.0091	.1765	.0390	.0068	.0087
#2	.1206	.0075	.1938	.0349	.0094	.0095
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLCCV Run Time: 05/24/11 19:05

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2013	.4267	.00800	.0758	.00972	.00922
Stddev	.0280	.0006	.00081	.0037	.00039	.00004
%RSD	13.91	.1330	10.174	4.850	4.0312	.39613
#1	.1815	.4271	.00742	.0784	.01000	.00920
#2	.2211	.4263	.00858	.0732	.00944	.00925
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.71					
Stddev	1.17					
%RSD	.62516					
#1	188.54					
#2	186.88					

Method: 2011A Sample Name: K1104448-001D Operator:
 Comment: 052411B P
 Run Time: 05/24/11 19:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0596	.0078	-.0017	.03538	-.00015	.0125
#1	.0543	-.0020	.0000	.03471	-.00016	.0123
#2	.0649	.0177	-.0034	.03604	-.00013	.0126
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	46.97	.0001	-.0020	.0048	.0442
#1	-.0003	46.54	.0005	-.0020	.0043	.0445
#2	-.0002	47.40	-.0002	-.0020	.0052	.0439
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0108	1.8416	.00536	.0087	-.0012	2.518
#1	.0147	1.8363	.00532	.0093	-.0021	2.502
#2	.0069	1.8469	.00539	.0081	-.0003	2.534
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0239	.0010	2.625	-.0079	.0026	.0039
#1	.0285	.0001	2.617	-.0044	.0015	.0033
#2	.0193	.0018	2.633	-.0114	.0038	.0045
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	1.438	.00050	-.0004	.00027	.18692
#1	-.0106	1.428	-.00159	-.0025	-.00005	.18620
#2	.0031	1.447	.00259	.0017	.00059	.18764
Int. Std.	Sc3572					
Units	Cts/S					
Avg	190.69					
#1	190.85					
#2	190.52					

Method: 2011A Sample Name: K1104448-001S Operator:
 Comment: 052411B P
 Run Time: 05/24/11 19:11 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.959	.4465	.9244	1.9691	.04884	1.897
#1	1.956	.4453	.9202	1.9594	.04870	1.898
#2	1.963	.4478	.9287	1.9788	.04899	1.896
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0442	56.02	.1908	.4689	.2347	.9752
#1	.0433	55.70	.1908	.4660	.2364	.9730
#2	.0450	56.34	.1907	.4718	.2331	.9774
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4484	11.50	.44839	1.928	.4607	12.17
#1	.4460	11.49	.44802	1.918	.4606	12.23
#2	.4509	11.51	.44877	1.937	.4607	12.10
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9183	.0456	11.95	-.0051	.4766	.4565
#1	.9128	.0458	12.00	-.0066	.4772	.4516
#2	.9238	.0455	11.91	-.0036	.4759	.4614
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.860	1.393	-.00357	.8658	10.204	>4.5000
#1	9.822	1.393	-.00554	.8712	10.268	>4.5000
#2	9.899	1.393	-.00160	.8605	10.139	>4.5000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.78					
#1	190.17					
#2	189.39					

Method: 2011A Sample Name: K1104448-002 Operator:
 Comment: 052411B P
 Run Time: 05/24/11 19:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0898	-.0044	-.0021	.00102	-.00006	-.0009
#1	.0897	-.0044	-.0077	.00103	-.00003	-.0006
#2	.0899	-.0044	.0034	.00100	-.00009	-.0012
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	6.634	.0009	-.0016	.0007	.0638
#1	-.0015	6.622	.0015	-.0008	-.0004	.0641
#2	-.0003	6.645	.0004	-.0024	.0017	.0635
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0111	.48621	.00305	.0016	-.0016	.1151
#1	.0127	.48587	.00298	.0017	-.0007	.1029
#2	.0096	.48654	.00311	.0016	-.0025	.1273
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	-.0012	2.090	-.0008	-.0011	.0023
#1	.0120	.0018	2.100	-.0017	-.0009	.0014
#2	-.0138	-.0042	2.079	.0001	-.0012	.0033
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.6106	-.00080	-.0022	-.00022	.01923
#1	.0209	.6080	.00012	.0020	.00030	.01963
#2	-.0270	.6133	-.00173	-.0063	-.00073	.01884
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.27					
#1	188.99					
#2	189.56					

Method: 2011A Sample Name: K1104448-003 Operator:
 Comment: 052411B P
 Run Time: 05/24/11 19:17 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0463	.0072	.0043	.03407	-.00006	.0125
#1	.0258	.0056	.0000	.03449	-.00013	.0125
#2	.0667	.0089	.0086	.03366	.00001	.0126
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	44.70	.0014	-.0003	.0001	.0416
#1	-.0009	44.43	.0003	-.0003	.0002	.0418
#2	-.0011	44.98	.0025	-.0003	.0001	.0413
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	1.7555	.00482	.0083	-.0023	2.463
#1	.0055	1.7565	.00488	.0092	-.0023	2.460
#2	.0050	1.7546	.00476	.0074	-.0024	2.466
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	-.0001	2.357	-.0064	.0007	.0038
#1	-.0028	-.0039	2.368	-.0094	.0028	.0028
#2	.0138	.0037	2.347	-.0035	-.0013	.0047
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0238	1.386	-.00216	.0031	.00114	.17561
#1	-.0202	1.382	-.00044	-.0068	.00086	.17556
#2	-.0274	1.391	-.00389	.0131	.00142	.17566
Int. Std.	Sc3572					
Units	Cts/S					
Avg	193.19					
#1	192.68					
#2	193.70					

Method: 2011A Sample Name: K1104448-004 Operator:
 Comment: 052411B P
 Run Time: 05/24/11 19:21 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0098	.0104	-.0077	.00008	-.00009	-.0047
#1	.0134	.0142	.0000	.00022	-.00009	-.0046
#2	.0062	.0065	-.0154	-.00007	-.00008	-.0047
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0056	.0028	-.0011	-.0004	.0120
#1	-.0006	.0102	.0031	-.0009	.0005	.0122
#2	.0002	.0009	.0025	-.0013	-.0014	.0118
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.00000	-.00020	.0007	-.0010	.0340
#1	.0000	.00004	-.00017	.0009	-.0011	.0285
#2	.0065	-.00005	-.00024	.0006	-.0010	.0394
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	-.0001	-.0078	.0017	-.0007	.0005
#1	-.0120	-.0015	-.0124	.0085	-.0017	.0011
#2	.0046	.0012	-.0033	-.0052	.0004	-.0001
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0128	.0049	-.00336	-.0094	-.00027	-.00003
#1	.0029	.0067	-.00245	-.0187	-.00055	-.00005
#2	-.0285	.0031	-.00428	-.0002	.00002	-.00002
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.81					
#1	190.07					
#2	189.56					

Method: 2011A Sample Name: K1104448-001 Operator:
 Comment: 052411B P DISS
 Run Time: 05/24/11 19:24 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0231	.0023	-.0051	.03592	-.00018	.0121
#1	.0276	.0001	-.0077	.03580	-.00020	.0121
#2	.0186	.0045	-.0026	.03603	-.00016	.0121
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	45.77	.0023	.0006	-.0003	.0138
#1	.0004	45.43	.0035	.0005	.0020	.0142
#2	-.0003	46.12	.0010	.0007	-.0026	.0135
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	1.7969	.00270	.0097	-.0015	2.534
#1	.0127	1.7913	.00268	.0099	-.0022	2.532
#2	.0000	1.8025	.00272	.0095	-.0009	2.537
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	-.0007	2.566	-.0077	.0020	.0029
#1	.0083	.0020	2.559	-.0117	.0023	.0028
#2	.0046	-.0034	2.573	-.0036	.0017	.0029
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0007	1.376	-.00160	.0010	.00058	.17547
#1	.0103	1.372	-.00126	.0145	.00125	.17531
#2	-.0090	1.380	-.00195	-.0124	-.00009	.17564
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.75					
#1	188.61					
#2	188.90					

Method: 2011A Sample Name: K1104448-002 Operator:
 Comment: 052411B P DISS
 Run Time: 05/24/11 19:27 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0783	-.0104	-.0086	.00069	-.00009	-.0028
#1	.0739	-.0055	-.0008	.00063	-.00006	-.0033
#2	.0826	-.0153	-.0163	.00075	-.00012	-.0023
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	6.722	.0013	-.0013	.0003	.0509
#1	-.0005	6.690	.0015	-.0009	.0027	.0504
#2	-.0005	6.754	.0011	-.0016	-.0021	.0514
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	.49042	.00195	.0007	-.0017	.1097
#1	-.0001	.48830	.00188	.0007	-.0025	.1561
#2	-.0031	.49255	.00202	.0007	-.0010	.0633
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	-.0060	2.126	-.0052	-.0030	-.0002
#1	-.0028	-.0023	2.104	-.0024	-.0030	-.0010
#2	.0193	-.0097	2.148	-.0079	-.0030	.0006
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	.6017	-.00051	-.0079	-.00011	.01855
#1	-.0014	.6029	-.00003	-.0069	-.00009	.01845
#2	.0038	.6005	-.00099	-.0088	-.00012	.01864
Int. Std.	Sc3572					
Units	Cts/S					
Avg	192.65					
#1	193.22					
#2	192.08					

Method: 2011A Sample Name: K1104448-003 Operator:
 Comment: 052411B P DISS
 Run Time: 05/24/11 19:30 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0392	.0034	-.0128	.03534	-.00005	.0108
#1	.0419	-.0043	-.0154	.03484	-.00010	.0110
#2	.0365	.0111	-.0103	.03584	.00000	.0106
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	46.10	.0017	-.0005	-.0003	.0129
#1	-.0011	45.58	.0019	-.0003	-.0004	.0129
#2	.0001	46.61	.0015	-.0007	-.0002	.0130
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	1.8108	.00176	.0084	-.0018	2.542
#1	.0026	1.8029	.00175	.0080	-.0030	2.537
#2	.0102	1.8187	.00177	.0088	-.0007	2.546
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0120	.0025	2.617	.0007	.0006	.0024
#1	.0120	-.0001	2.594	-.0020	.0008	.0027
#2	.0120	.0050	2.640	.0033	.0004	.0020
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0072	1.385	-.00176	-.0134	.00090	.17687
#1	-.0188	1.378	-.00025	-.0167	.00080	.17528
#2	.0043	1.391	-.00326	-.0102	.00101	.17847
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.18					
#1	190.40					
#2	187.97					

Method: 2011A Sample Name: K1104448-004 Operator:
 Comment: 052411B P DISS
 Run Time: 05/24/11 19:33 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0312	.0049	-.0193	.00037	-.00010	-.0049
#1	.0330	-.0022	-.0223	.00052	-.00011	-.0050
#2	.0294	.0121	-.0163	.00021	-.00008	-.0048
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0111	.0014	-.0010	-.0005	.0092
#1	-.0014	.0131	.0018	-.0013	-.0002	.0086
#2	.0002	.0092	.0009	-.0007	-.0008	.0098
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0117	.00005	-.00009	.0016	-.0012	.0262
#1	.0138	.00001	-.00020	.0013	-.0012	.0027
#2	.0096	.00009	.00003	.0019	-.0012	.0497
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110	-.0012	-.0055	-.0028	-.0034	.0001
#1	.0138	-.0042	-.0073	-.0029	-.0046	-.0001
#2	.0083	.0018	-.0037	-.0027	-.0022	.0002
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0124	.0037	-.00120	-.0043	-.00070	.00001
#1	-.0163	.0032	-.00105	.0079	-.00096	.00000
#2	-.0085	.0041	-.00135	-.0165	-.00044	.00001
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.84					
#1	190.36					
#2	189.31					

Method: 2011A Sample Name: RB Operator:
 Comment: 252411B
 Run Time: 05/24/11 19:36 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0027	.0049	-.0004	.00008	-.00009	-.0058
#1	.0134	.0022	.0000	.00002	-.00012	-.0059
#2	-.0080	.0077	-.0008	.00014	-.00005	-.0057
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	-.0041	.0011	-.0004	.0007	-.0042
#1	.0000	-.0005	.0005	.0004	.0004	-.0042
#2	.0001	-.0077	.0017	-.0012	.0010	-.0042
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0025	-.00091	-.00050	.0010	-.0004	.0088
#1	.0024	-.00088	-.00067	-.0001	.0006	.0188
#2	.0025	-.00093	-.00033	.0020	-.0013	-.0011
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	.0019	-.0060	-.0014	-.0004	.0007
#1	.0156	-.0010	-.0030	-.0043	-.0013	.0008
#2	.0028	.0048	-.0091	.0014	.0005	.0007
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0049	.0038	-.00097	.0128	-.00021	-.00006
#1	.0013	.0043	-.00074	.0158	-.00075	-.00007
#2	.0086	.0032	-.00121	.0098	.00034	-.00004
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.50					
#1	184.12					
#2	182.88					

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/24/11 19:40 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.970	.0126	-.0011	2.4975	.04918	-.0038
Stddev	.022	.0147	.0030	.0341	.00041	.0014
%RSD	.4537	117.2	285.2	1.3664	.84355	37.47

#1	4.954	.0022	.0011	2.4733	.04888	-.0028
#2	4.986	.0230	-.0032	2.5216	.04947	-.0048

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0016	25.06	.0051	-.0013	-.0012	24.94
Stddev	.0002	.27	.0015	.0010	.0017	.27
%RSD	12.59	1.062	28.53	70.84	139.7	1.064

#1	.0015	24.87	.0041	-.0007	.0000	24.75
#2	.0017	25.25	.0062	-.0020	-.0024	25.13

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077	25.01	4.969	.0003	-.0043	9.919
Stddev	.0037	.04	.039	.0001	.0013	.053
%RSD	47.81	.1441	.7792	34.45	30.48	.5313

#1	.0103	24.98	4.942	.0002	-.0034	9.882
#2	.0051	25.03	4.997	.0003	-.0052	9.957

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0193	-.0011	9.768	.0023	.0050	.0019
Stddev	.0078	.0021	.108	.0059	.0003	.0012
%RSD	40.55	194.8	1.103	256.0	5.320	64.16

#1	.0138	.0004	9.692	-.0019	.0048	.0027
#2	.0248	-.0026	9.844	.0065	.0052	.0010

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/24/11 19:40

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.945	2.504	-.00154	.0150	.49690	.49598
Stddev	.094	.005	.00118	.0179	.00206	.00404
%RSD	.9447	.1822	76.285	118.8	.41550	.81485
#1	9.878	2.501	-.00071	.0024	.49544	.49312
#2	10.01	2.507	-.00237	.0277	.49836	.49883
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.26					
Stddev	.63					
%RSD	.33730					
#1	187.71					
#2	186.82					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/24/11 19:43 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4890	2.481	2.418	.46140	.54511	.4976
Stddev	.0165	.031	.009	.00432	.00064	.0025
%RSD	3.366	1.268	.3830	.93719	.11684	.5078
#1	.4774	2.459	2.412	.45834	.54466	.4958
#2	.5007	2.503	2.425	.46445	.54556	.4994
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4931	2.482	.4988	.4979	.4996	.5027
Stddev	.0049	.015	.0011	.0038	.0013	.0012
%RSD	.9929	.6029	.2276	.7619	.2514	.2302
#1	.4896	2.471	.4980	.4952	.5004	.5035
#2	.4965	2.492	.4996	.5006	.4987	.5018
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.444	2.1004	.99111	.9839	.4998	5.030
Stddev	.018	.0060	.00822	.0146	.0017	.011
%RSD	.7407	.28432	.82977	1.484	.3382	.2160
#1	2.431	2.0962	.98529	.9736	.4986	5.022
#2	2.456	2.1046	.99693	.9943	.5010	5.038
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.458	.4980	.4886	2.411	.4997	.4880
Stddev	.034	.0002	.0078	.035	.0076	.0081
%RSD	1.387	.0383	1.602	1.438	1.514	1.662
#1	2.434	.4979	.4941	2.387	.5051	.4823
#2	2.482	.4982	.4830	2.436	.4944	.4938
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 05/24/11 19:43

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0383	.8383	.49631	4.889	.50382	.49542
Stddev	.0099	.0038	.00045	.012	.00056	.00005
%RSD	25.83	.4518	.09078	.2385	.11112	.00955
#1	.0454	.8357	.49599	4.881	.50422	.49539
#2	.0313	.8410	.49663	4.897	.50343	.49546
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	188.13
Stddev	.04
%RSD	.02204
#1	188.16
#2	188.10

Method: 2011A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/24/11 19:46 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0214	.0022	.0094	.00080	.00014	-.0050
Stddev	.0290	.0078	.0000	.00022	.00003	.0008
%RSD	135.2	353.4	.0148	27.596	24.224	15.85

#1	.0419	-.0033	.0094	.00064	.00012	-.0044
#2	.0009	.0077	.0094	.00096	.00017	-.0055

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0068	.0016	-.0002	-.0007	.0039
Stddev	.0004	.0053	.0017	.0008	.0015	.0001
%RSD	126.7	78.11	104.1	449.4	219.9	2.108

#1	-.0006	.0031	.0028	-.0007	-.0017	.0039
#2	.0000	.0106	.0004	.0004	.0004	.0040

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0065	.00313	.00098	.0016	-.0009	.0146
Stddev	.0031	.00013	.00002	.0000	.0011	.0155
%RSD	47.62	4.2416	1.9848	2.709	119.4	105.6

#1	.0087	.00322	.00100	.0016	-.0001	.0037
#2	.0043	.00303	.00097	.0015	-.0017	.0256

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	-.0019	-.0003	-.0003	-.0008	-.0006
Stddev	.0182	.0010	.0006	.0005	.0021	.0008
%RSD	220.4	50.55	172.1	154.8	276.6	133.0

#1	.0212	-.0012	.0001	.0000	-.0023	.0000
#2	-.0046	-.0026	-.0008	-.0006	.0007	-.0011

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 05/24/11 19:46

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0144	.0048	-.00178	-.0191	.00011	.00022
Stddev	.0193	.0017	.00149	.0103	.00035	.00001
%RSD	133.9	35.10	83.783	54.20	308.04	2.9344
#1	-.0008	.0059	-.00283	-.0118	-.00013	.00022
#2	-.0281	.0036	-.00072	-.0264	.00036	.00023
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.92					
Stddev	1.24					
%RSD	.67468					
#1	184.80					
#2	183.04					

Method: 2011A Sample Name: LLCCV

Operator:

Comment:

Run Time: 05/24/11 19:49 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0553	.0450	.0724	.00482	.00486	.0441
Stddev	.0013	.0046	.0139	.00011	.00004	.0002
%RSD	2.263	10.28	19.26	2.3300	.76828	.5311
#1	.0561	.0483	.0625	.00490	.00488	.0440
#2	.0544	.0417	.0823	.00474	.00483	.0443
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.000%	30.000%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0456	.0055	.0113	.0125	.0189
Stddev	.0003	.0013	.0017	.0012	.0009	.0002
%RSD	6.293	2.762	30.48	10.31	7.460	1.105
#1	.0049	.0447	.0066	.0122	.0118	.0190
#2	.0045	.0465	.0043	.0105	.0131	.0187
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0503	.01677	.00454	.0104	.0199	.4047
Stddev	.0019	.00031	.00013	.0005	.0006	.0012
%RSD	3.685	1.8445	2.8684	5.164	2.983	.3089
#1	.0516	.01655	.00463	.0108	.0203	.4055
#2	.0490	.01699	.00445	.0100	.0194	.4038
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1095	.0117	.1830	.0379	.0091	.0092
Stddev	.0104	.0013	.0045	.0106	.0001	.0009
%RSD	9.498	11.47	2.476	27.96	.5652	10.19
#1	.1169	.0108	.1862	.0454	.0091	.0085
#2	.1022	.0127	.1798	.0304	.0090	.0098
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLCCV Run Time: 05/24/11 19:49

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2021	.4301	.00750	.0847	.00904	.00913
Stddev	.0003	.0022	.00053	.0159	.00028	.00005
%RSD	.1547	.5230	7.0887	18.81	3.0593	.58812
#1	.2023	.4285	.00787	.0960	.00884	.00917
#2	.2018	.4317	.00712	.0734	.00923	.00909
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.56					
Stddev	2.07					
%RSD	1.0980					
#1	187.09					
#2	190.02					

Method: 2011A Sample Name: K1103574-MB Operator:
 Comment: 252411B
 Run Time: 05/24/11 19:52 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0044	-.0137	.00076	-.00002
#1	-.0080	.0032	-.0214	.00109	-.00002
#2	.0062	.0055	-.0060	.00042	-.00002
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0058	-.0008	.0063	.0010	-.0010
#1	-.0053	-.0011	.0092	.0020	-.0008
#2	-.0063	-.0004	.0034	.0000	-.0013
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0084	.0115	-.00049	-.00017
#1	.0007	.0079	.0090	-.00054	-.00028
#2	-.0011	.0088	.0140	-.00045	-.00006
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0004	-.0009	.0116	.0175	-.0023
#1	-.0020	.0007	-.0040	.0138	-.0037
#2	.0027	-.0026	.0272	.0212	-.0010
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0139	-.0011	.0013	.0007	-.0028
#1	-.0131	-.0007	.0006	.0011	-.0217
#2	-.0147	-.0015	.0020	.0002	.0160
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0338	-.00081	.0007	-.00007	.00002
#1	.0351	-.00107	-.0057	-.00076	.00005
#2	.0326	-.00055	.0071	.00062	-.00002
Int. Std.	Sc3572				
Units	Cts/S				
Avg	185.59				
#1	186.15				
#2	185.02				

Method: 2011A Sample Name: LCSW, K1103574 Operator:
 Comment: 252411B
 Run Time: 05/24/11 19:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.944	2.399	2.421	4.9017	.12365	.9401
#1	4.885	2.406	2.412	4.9032	.12393	.9394
#2	5.003	2.392	2.430	4.9002	.12337	.9407
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.172	12.32	.4892	1.208	.6087	2.364
#1	1.174	12.26	.4938	1.206	.6056	2.369
#2	1.170	12.38	.4847	1.209	.6119	2.360
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.366	12.33	1.2111	.9643	1.204	12.22
#1	2.374	12.30	1.2153	.9633	1.205	12.23
#2	2.358	12.36	1.2069	.9653	1.202	12.22
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.416	.6098	11.86	.0014	1.208	1.197
#1	2.404	.6044	11.91	-.0030	1.215	1.198
#2	2.428	.6152	11.82	.0058	1.201	1.196
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0536	.0167	-.00392	2.387	-.00017	.00508
#1	.0485	.0143	-.00248	2.386	-.00002	.00510
#2	.0587	.0191	-.00537	2.387	-.00033	.00507
Int. Std.	Sc3572					
Units	Cts/S					
Avg	189.22					
#1	188.63					
#2	189.82					

Method: 2011A Sample Name: K1103574-001 Operator:
 Comment: 252411B
 Run Time: 05/24/11 19:59 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0243	.0045	-.0141	.27953	-.00007	.0150
#1	.0261	-.0043	-.0179	.27915	-.00002	.0155
#2	.0226	.0132	-.0102	.27991	-.00012	.0145
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	111.0	.0018	.0006	.0001	.0586
#1	-.0009	110.8	.0026	.0006	.0015	.0584
#2	.0009	111.2	.0011	.0006	-.0014	.0588
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	32.36	.00307	.0040	-.0022	60.74
#1	-.0029	32.34	.00300	.0043	-.0023	60.80
#2	-.0010	32.39	.00315	.0036	-.0022	60.68
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0202	-.0011	165.6	-.0005	.0043	.0019
#1	.0304	-.0026	166.7	-.0002	.0039	.0016
#2	.0101	.0004	164.5	-.0007	.0048	.0022
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0319	22.50	.00259	.0168	.01116	.62998
#1	.0438	22.44	.00300	.0211	.01079	.63143
#2	.0201	22.55	.00217	.0124	.01152	.62854
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.43					
#1	181.21					
#2	181.66					

Method: 2011A Sample Name: K1103574-001L Operator:
 Comment: 252411B 1/5
 Run Time: 05/24/11 20:02 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0179	-.0033	-.0038	.05622	-.00010	-.0001
#1	.0098	.0011	-.0103	.05586	-.00015	.0013
#2	.0259	-.0077	.0026	.05659	-.00006	-.0015
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	22.88	.0017	-.0002	-.0008	.0097
#1	.0001	22.79	.0007	.0003	-.0011	.0092
#2	-.0002	22.97	.0026	-.0007	-.0005	.0102
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	6.5276	.00039	.0005	-.0026	12.15
#1	.0078	6.5117	.00037	.0010	-.0030	12.08
#2	-.0004	6.5434	.00040	.0000	-.0022	12.21
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0028	.0025	32.16	-.0057	-.0005	.0004
#1	.0083	.0029	31.86	-.0095	.0015	.0001
#2	-.0138	.0020	32.47	-.0019	-.0025	.0007
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0077	4.330	-.00233	-.0082	.00134	.11999
#1	-.0086	4.327	-.00371	-.0105	.00114	.11907
#2	-.0068	4.334	-.00095	-.0060	.00155	.12091
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.85					
#1	190.05					
#2	187.65					

Method: 2011A Sample Name: K1103574-001D Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:05 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0128	.0121	-.0076	.27146	-.00006	.0164
#1	.0279	.0242	-.0051	.26997	-.00001	.0160
#2	-.0024	.0001	-.0102	.27294	-.00011	.0169
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	110.8	.0021	.0009	.0002	.0633
#1	.0001	110.1	.0032	-.0006	-.0004	.0627
#2	.0003	111.5	.0010	.0025	.0008	.0638
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0091	32.25	.00285	.0029	-.0014	60.90
#1	.0140	32.17	.00293	.0026	-.0019	60.80
#2	.0042	32.33	.00277	.0032	-.0009	61.01
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165	.0019	161.6	-.0063	.0054	.0021
#1	.0193	.0015	161.6	-.0131	.0052	.0021
#2	.0138	.0023	161.7	.0005	.0056	.0021
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0459	22.44	.00127	.0261	.01123	.61405
#1	.0473	22.42	.00056	.0261	.01088	.61480
#2	.0445	22.46	.00198	.0261	.01159	.61331
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.40					
#1	185.24					
#2	185.56					

Method: 2011A Sample Name: K1103574-001S Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.993	.4731	.9517	2.2660	.04914	.9482

#1	2.014	.4806	.9423	2.2270	.04815	.9457
#2	1.971	.4656	.9611	2.3051	.05012	.9508

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0467	123.6	.1958	.4761	.2200	1.001

#1	.0456	122.8	.1917	.4674	.2147	.9840
#2	.0478	124.4	.1999	.4848	.2253	1.019

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4753	42.63	.44612	.9812	.4686	72.53

#1	.4547	42.83	.43843	.9665	.4600	72.27
#2	.4960	42.42	.45382	.9960	.4773	72.79

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9643	.0445	176.0	.0089	.4823	.4616

#1	.9883	.0440	172.0	.0077	.4739	.4524
#2	.9403	.0449	179.9	.0101	.4906	.4708

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0640	23.04	.00133	.9433	.01177	.62842

#1	.0505	23.00	.00007	.9023	.01163	.61582
#2	.0775	23.08	.00258	.9842	.01191	.64102

Int. Std.	Sc3572
Units	Cts/S
Avg	183.07

#1	185.94
#2	180.20

Method: 2011A Sample Name: K1103574-002 Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:11 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0458	.0148	-.0003	.07161	.00000	.0020
#1	.0387	.0033	-.0050	.07164	-.00002	.0025
#2	.0529	.0263	.0044	.07157	.00002	.0015
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	97.84	.0025	-.0010	.0005	.0747
#1	-.0006	97.52	.0021	-.0019	.0002	.0747
#2	-.0001	98.16	.0029	.0000	.0008	.0748
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	33.48	.00756	.0019	-.0008	5.607
#1	.0078	33.45	.00751	.0033	-.0016	5.595
#2	.0006	33.52	.00760	.0004	-.0001	5.618
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	-.0030	28.26	-.0017	.0020	.0028
#1	.0101	-.0034	28.23	.0020	.0010	.0038
#2	-.0010	-.0026	28.29	-.0053	.0030	.0018
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189	17.81	.00158	.0061	.01108	.37216
#1	.0244	17.74	.00226	-.0076	.01078	.37201
#2	.0134	17.87	.00089	.0198	.01138	.37231
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.36					
#1	185.50					
#2	185.22					

Method: 2011A Sample Name: K1103574-003 Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:15 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0280	.0088	-.0089	.04136	-.00015	-.0010
#1	.0208	-.0011	-.0085	.04102	-.00015	-.0009
#2	.0351	.0187	-.0093	.04170	-.00014	-.0011
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	80.33	.0019	-.0012	-.0011	.0454
#1	-.0011	79.75	.0013	-.0013	-.0024	.0454
#2	.0011	80.92	.0025	-.0011	.0002	.0455
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	32.15	.00207	.0031	-.0012	4.148
#1	-.0021	32.06	.00205	.0027	-.0001	4.159
#2	-.0008	32.23	.00210	.0035	-.0023	4.136
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0221	.0012	32.23	-.0098	.0107	.0009
#1	.0248	.0007	32.28	.0001	.0102	.0003
#2	.0193	.0018	32.18	-.0197	.0112	.0014
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0504	22.57	-.00037	.0191	.00598	.40724
#1	.0565	22.51	.00100	.0337	.00540	.40832
#2	.0443	22.63	-.00175	.0045	.00656	.40617
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.55					
#1	187.54					
#2	187.56					

Method: 2011A Sample Name: K1103574-004 Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:18 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0113	.0083	.0005	.12330	-.00009
#1	-.0202	.0077	.0087	.12232	-.00008
#2	-.0024	.0089	-.0076	.12428	-.00010
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0008	69.44	.0031	-.0007
#1	-.0001	.0011	68.81	.0052	-.0005
#2	.0007	.0005	70.07	.0010	-.0010
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.0259	-.0012	23.29	.00298
#1	.0007	.0258	.0076	23.32	.00286
#2	-.0007	.0261	-.0100	23.26	.00309
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0049	-.0008	5.150	.0147	.0029
#1	.0050	-.0007	5.113	.0156	.0023
#2	.0047	-.0008	5.187	.0138	.0034
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	24.02	-.0001	.0069	.0012	.1152
#1	23.91	.0016	.0062	.0014	.1097
#2	24.13	-.0017	.0075	.0011	.1206
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	21.99	.00025	.0078	.00781	.28816
#1	21.91	.00069	.0045	.00691	.28740
#2	22.08	-.00018	.0110	.00870	.28893
Int. Std.	Sc3572				
Units	Cts/S				
Avg	187.14				
#1	187.49				
#2	186.79				

Method: 2011A Sample Name: K1103574-005 Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:21 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0369	.0034	.0023	.12651	-.00011	-.0008
#1	.0530	.0012	.0027	.12707	-.00017	-.0003
#2	.0208	.0056	.0018	.12595	-.00004	-.0014
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	70.06	.0022	-.0008	.0017	.0301
#1	-.0007	69.78	.0016	-.0019	.0021	.0306
#2	.0006	70.34	.0028	.0003	.0012	.0297
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0037	23.82	.00301	.0057	-.0029	5.209
#1	.0042	23.83	.00287	.0056	-.0014	5.211
#2	.0032	23.81	.00315	.0058	-.0043	5.206
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101	-.0005	24.19	-.0049	.0050	.0014
#1	-.0084	-.0015	24.36	-.0068	.0040	.0009
#2	.0285	.0004	24.02	-.0029	.0061	.0020
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1104	22.40	-.00225	.0204	.00670	.29298
#1	.1236	22.36	-.00171	.0198	.00660	.29476
#2	.0971	22.44	-.00279	.0210	.00681	.29121
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.76					
#1	185.49					
#2	188.04					

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/24/11 20:24 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.037	.0159	.0011	2.4829	.04920	-.0039
Stddev	.016	.0007	.0000	.0112	.00010	.0001
%RSD	.3234	4.690	2.670	.45305	.20437	3.791

#1	5.025	.0164	.0011	2.4749	.04913	-.0040
#2	5.048	.0153	.0011	2.4908	.04928	-.0038

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	25.26	.0060	-.0020	.0012	24.97
Stddev	.0000	.20	.0010	.0003	.0014	.26
%RSD	21.50	.7942	17.37	15.01	109.5	1.061

#1	.0002	25.12	.0067	-.0018	.0003	24.78
#2	.0003	25.41	.0052	-.0022	.0022	25.15

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	24.99	4.967	.0005	-.0027	9.909
Stddev	.0056	.14	.001	.0011	.0003	.006
%RSD	230.4	.5516	.0135	207.5	9.596	.0574

#1	.0015	24.89	4.966	-.0002	-.0025	9.905
#2	-.0064	25.09	4.967	.0013	-.0029	9.913

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0212	-.0033	9.757	-.0048	.0040	.0008
Stddev	.0000	.0033	.021	.0034	.0016	.0012
%RSD	.0000	100.1	.2193	71.53	38.96	142.7

#1	.0212	-.0010	9.772	-.0072	.0029	.0000
#2	.0212	-.0056	9.742	-.0024	.0051	.0017

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/24/11 20:24

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.998	2.512	-.00175	-.0101	.49603	.49413
Stddev	.053	.001	.00092	.0146	.00298	.00040
%RSD	.5258	.0306	52.781	144.8	.60074	.08126
#1	9.961	2.512	-.00110	.0002	.49814	.49442
#2	10.04	2.511	-.00240	-.0205	.49393	.49385
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.95					
Stddev	.24					
%RSD	.12751					
#1	188.12					
#2	187.78					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/24/11 20:27 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5008	2.455	2.414	.45640	.54267	.4959
Stddev	.0155	.008	.053	.00713	.00521	.0000
%RSD	3.097	.3390	2.190	1.5612	.95985	.0059
#1	.4899	2.449	2.377	.45136	.53899	.4959
#2	.5118	2.461	2.452	.46144	.54636	.4959
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4929	2.488	.4908	.4918	.4966	.5009
Stddev	.0085	.014	.0100	.0093	.0022	.0034
%RSD	1.727	.5757	2.029	1.892	.4425	.6776
#1	.4869	2.478	.4838	.4852	.4950	.4985
#2	.4989	2.498	.4978	.4984	.4981	.5033
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.445	1.9697	.98448	.9764	.4955	4.995
Stddev	.062	.0006	.02799	.0141	.0125	.001
%RSD	2.552	.03185	2.8429	1.446	2.519	.0266
#1	2.400	1.9702	.96468	.9664	.4867	4.995
#2	2.489	1.9693	1.0043	.9863	.5044	4.996
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.447	.5009	.4882	2.416	.4924	.4916
Stddev	.013	.0073	.0074	.034	.0046	.0113
%RSD	.5376	1.464	1.519	1.386	.9266	2.294
#1	2.456	.4957	.4830	2.392	.4892	.4836
#2	2.438	.5061	.4935	2.440	.4956	.4996
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 05/24/11 20:27

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198	.8346	.49460	4.862	.50076	.49210
Stddev	.0128	.0053	.00622	.048	.00123	.00622
%RSD	64.90	.6400	1.2574	.9911	.24578	1.2641
#1	.0107	.8308	.49021	4.828	.50163	.48770
#2	.0288	.8383	.49900	4.896	.49989	.49650
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.51					
Stddev	1.99					
%RSD	1.0531					
#1	189.91					
#2	187.10					

Method: 2011A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/24/11 20:30 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0232	.0109	-.0017	.00044	.00017	-.0056
Stddev	.0012	.0077	.0061	.00012	.00003	.0007
%RSD	5.355	70.74	355.9	27.972	19.228	11.61

#1	.0223	.0055	-.0060	.00035	.00019	-.0051
#2	.0241	.0164	.0026	.00053	.00015	-.0061

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0084	.0026	-.0005	.0027	.0030
Stddev	.0003	.0061	.0018	.0004	.0000	.0005
%RSD	84.98	72.25	71.33	86.36	.0126	17.20

#1	.0006	.0128	.0039	-.0008	.0027	.0033
#2	.0001	.0041	.0013	-.0002	.0027	.0026

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0100	.00320	.00105	.0013	.0001	.0391
Stddev	.0003	.00013	.00013	.0016	.0010	.0046
%RSD	2.805	4.0357	11.961	119.1	998.5	11.64

#1	.0102	.00311	.00113	.0024	.0008	.0359
#2	.0098	.00329	.00096	.0002	-.0006	.0423

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110	.0019	.0010	-.0019	.0023	-.0005
Stddev	.0039	.0006	.0036	.0036	.0008	.0001
%RSD	35.38	30.36	362.1	185.3	33.92	30.47

#1	.0138	.0023	.0035	-.0045	.0029	-.0006
#2	.0083	.0015	-.0015	.0006	.0018	-.0004

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 05/24/11 20:30

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0031	-.00076	-.0114	-.00025	.00022
Stddev	.0101	.0015	.00017	.0182	.00069	.00003
%RSD	970.8	46.63	21.894	160.1	276.51	15.280
#1	-.0061	.0021	-.00064	-.0242	-.00074	.00025
#2	.0082	.0042	-.00087	.0015	.00024	.00020
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.17					
Stddev	.48					
%RSD	.26331					
#1	182.51					
#2	181.83					

Method: 2011A Sample Name: LLCCV

Operator:

Comment:

Run Time: 05/24/11 20:33 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0615	.0412	.0750	.00504	.00500	.0444
Stddev	.0076	.0023	.0188	.00046	.00008	.0004
%RSD	12.28	5.575	25.05	9.2091	1.5654	.9591
#1	.0562	.0396	.0883	.00471	.00505	.0447
#2	.0669	.0428	.0617	.00536	.00494	.0441
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.000%	30.000%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0047	.0499	.0042	.0119	.0103	.0186
Stddev	.0006	.0038	.0016	.0011	.0023	.0004
%RSD	13.42	7.609	37.83	9.257	22.04	2.304
#1	.0043	.0472	.0031	.0127	.0087	.0183
#2	.0052	.0526	.0054	.0111	.0120	.0189
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0592	.01696	.00451	.0103	.0187	.4048
Stddev	.0075	.00023	.00022	.0003	.0003	.0260
%RSD	12.69	1.3454	4.9582	2.918	1.385	6.436
#1	.0539	.01680	.00467	.0105	.0185	.4232
#2	.0645	.01712	.00435	.0101	.0189	.3863
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0921	.0118	.1931	.0387	.0067	.0087
Stddev	.0039	.0031	.0102	.0137	.0017	.0000
%RSD	4.245	26.04	5.257	35.35	24.76	.1660
#1	.0948	.0140	.1859	.0291	.0056	.0087
#2	.0893	.0097	.2003	.0484	.0079	.0087
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

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WS
5/24/11

Sample Name: LLCCV Run Time: 05/24/11 20:33

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1869	.4317	.00787	Q .0684	.00942	.00922
Stddev	.0241	.0020	.00188	.0098	.00002	.00004
%RSD	12.89	.4707	23.950	14.38	.21066	.41141
#1	.1699	.4303	.00654	.0615	.00941	.00925
#2	.2040	.4332	.00920	.0754	.00943	.00919
Check ?	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.21					
Stddev	.88					
%RSD	.47185					
#1	185.58					
#2	186.83					

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WS
5/25/11

Method: 2011A Sample Name: LLCCV Operator:
 Comment:
 Run Time: 05/24/11 20:37 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	Q .0668	.0466	.0822	.00509	.00489
Stddev	.0051	.0100	.0037	.00041	.00013
%RSD	7.623	21.47	4.478	8.0962	2.6666

#1	.0632	.0536	.0796	.00479	.00498
#2	.0704	.0395	.0848	.00538	.00480

Check ?	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0448	.0041	.0471	.0064	.0102
Stddev	.0005	.0003	.0018	.0018	.0004
%RSD	1.132	6.473	3.751	28.61	4.098

#1	.0445	.0043	.0458	.0077	.0105
#2	.0452	.0039	.0483	.0051	.0099

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0050	.0500	.0050	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0116	.0184	.0474	.01702	.00442
Stddev	.0043	.0002	.0094	.00016	.00025
%RSD	36.73	1.202	19.86	.93310	5.5630

#1	.0146	.0183	.0541	.01713	.00459
#2	.0086	.0186	.0408	.01690	.00424

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.0500	.02000	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0076	.0185	.4280	.1040	.0113
Stddev	.0012	.0007	.0193	.0000	.0012
%RSD	15.80	3.924	4.502	.0327	10.26

#1	.0067	.0190	.4416	.1040	.0121
#2	.0084	.0180	.4144	.1040	.0105

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.4000	.1000	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLCCV Run Time: 05/24/11 20:37

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.1902	.0415	.0079	.0093	.1847
Stddev	.0020	.0005	.0031	.0002	.0092
%RSD	1.062	1.194	38.92	1.785	4.982
#1	.1916	.0418	.0100	.0092	.1782
#2	.1888	.0411	.0057	.0095	.1912
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.0500	.0100	.0100	.2000
Range	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.4332	.00753	.0705	.01027	.00912
Stddev	.0037	.00076	.0143	.00081	.00014
%RSD	.8575	10.108	20.29	7.8737	1.5041
#1	.4306	.00699	.0603	.01084	.00922
#2	.4358	.00807	.0806	.00970	.00902
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572				
Units	Cts/S				
Avg	189.59				
Stddev	2.98				
%RSD	1.5705				
#1	187.48				
#2	191.69				

Method: 2011A Sample Name: K1103574-006 Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:40 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0119	.0061	-.0261	.42048	-.00008	.0412
#1	.0136	.0176	-.0145	.41481	-.00010	.0407
#2	.0101	-.0055	-.0377	.42616	-.00007	.0417
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	168.0	.0010	-.0014	-.0021	.0273
#1	.0011	166.2	.0012	-.0008	-.0032	.0269
#2	.0013	169.7	.0008	-.0021	-.0011	.0276
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	51.51	.00621	.0014	-.0017	30.09
#1	-.0096	51.28	.00618	.0008	-.0017	30.07
#2	.0133	51.73	.00625	.0020	-.0017	30.11
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0175	.0000	>180.0	-.0028	.0051	.0010
#1	.0230	-.0010	>180.0	.0093	.0040	.0017
#2	.0119	.0010	>180.0	.0038	.0061	.0003
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0215	23.22	-.00114	.0020	.02011	.86437
#1	.0292	23.04	-.00191	-.0014	.02021	.85889
#2	.0138	23.39	-.00037	.0054	.02001	.86986
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.81					
#1	185.76					
#2	183.87					

dilution WS 5/25/11

Method: 2011A Sample Name: K1103574-007 Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:43 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0110	.0103	-.0154	.34168	-.00007	.0225
#1	.0154	.0196	-.0214	.33995	-.00006	.0223
#2	.0065	.0010	-.0093	.34341	-.00007	.0227
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	341.0	.0092	.0005	-.0012	.0510
#1	.0014	339.5	.0112	.0021	-.0010	.0514
#2	.0020	342.5	.0073	-.0011	-.0015	.0506
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0095	103.0	.04831	-.0005	-.0001	55.13
#1	.0083	103.2	.04786	-.0013	-.0001	55.14
#2	.0106	102.7	.04876	.0002	.0000	55.12
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0138	.0005	>180.0	.0021	.0048	.0079
#1	.0248	.0018	>180.0	-.0051	.0051	.0081
#2	.0027	-.0007	>180.0	.0094	.0045	.0077
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0384	23.29	-.00037	.0183	.01914	1.7007
#1	.0377	23.21	-.00035	.0054	.01906	1.6955
#2	.0391	23.36	-.00040	.0312	.01921	1.7060
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.36					
#1	183.73					
#2	183.00					

dilution WS 5/25/11

Method: 2011A Sample Name: K1103574-008 Operator:
Comment: 252411B
Run Time: 05/24/11 20:46 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0116	-.0017	-.0090	.00043	-.00010	-.0047
#1	.0045	.0010	-.0077	.00053	-.00011	-.0045
#2	.0187	-.0044	-.0103	.00033	-.00008	-.0050
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	.0345	.0031	.0001	.0003	.0157
#1	-.0001	.0437	.0039	-.0005	.0002	.0153
#2	-.0013	.0253	.0022	.0006	.0004	.0161
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0089	.00842	.00016	-.0005	.0000	.0193
#1	.0117	.01066	-.00008	-.0006	.0012	.0047
#2	.0061	.00619	.00040	-.0003	-.0012	.0340
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	-.0008	.0986	.0036	.0003	.0013
#1	.0230	-.0020	.1029	.0039	.0000	.0005
#2	-.0101	.0004	.0943	.0033	.0007	.0020
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0110	.2634	-.00115	-.0181	-.00039	.00012
#1	-.0226	.2602	-.00004	-.0076	-.00020	.00015
#2	.0005	.2667	-.00226	-.0286	-.00059	.00009
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.13					
#1	184.92					
#2	183.34					

*Return
carryover
WS 5/25/11*

Method: 2011A Sample Name: K1103574-009 Operator:
 Comment: 052411B
 Run Time: 05/24/11 20:50 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0205	.0060	-.0030	.00037	-.00004	-.0040
#1	.0454	.0043	-.0163	.00083	.00004	-.0039
#2	-.0044	.0077	.0103	-.00008	-.00012	-.0041
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0083	.0025	-.0006	-.0002	.0067
#1	-.0004	.0056	.0034	-.0014	.0021	.0064
#2	-.0008	.0110	.0016	.0002	-.0026	.0070
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0084	.00098	.00001	.0010	-.0010	.0352
#1	-.0025	.00104	.00009	.0001	-.0003	.0156
#2	.0194	.00091	-.00006	.0019	-.0016	.0549
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0055	-.0020	.0697	.0013	.0004	.0011
#1	.0193	-.0031	.0660	-.0031	.0015	.0011
#2	-.0083	-.0010	.0734	.0057	-.0006	.0012
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0116	.2574	.00002	.0022	-.00100	-.00004
#1	-.0134	.2531	-.00033	.0006	-.00178	-.00004
#2	-.0097	.2618	.00037	.0038	-.00022	-.00004
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.52					
#1	185.84					
#2	181.19					

Method: 2011A Sample Name: K1104239-001 Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:53 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3384	-.0005	-.0046	.02231	-.00006	-.0007
#1	.3382	-.0066	-.0084	.02233	-.00007	-.0003
#2	.3385	.0055	-.0007	.02230	-.00004	-.0010
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0007	5.683	.0023	-.0005	-.0010	.5144
#1	-.0007	5.670	.0008	-.0006	.0002	.5131
#2	-.0007	5.696	.0038	-.0004	-.0023	.5157
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	2.3561	.05994	.0012	-.0017	2.554
#1	.0037	2.3578	.05968	.0013	-.0012	2.572
#2	.0019	2.3545	.06021	.0010	-.0021	2.535
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165	.0003	2.599	-.0067	.0000	.0011
#1	.0267	.0004	2.614	-.0088	.0012	.0005
#2	.0064	.0001	2.584	-.0046	-.0013	.0018
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135	18.76	.01521	-.0056	-.00047	.03402
#1	.0169	18.67	.01530	.0133	-.00055	.03432
#2	.0100	18.84	.01511	-.0246	-.00040	.03371
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.74					
#1	186.04					
#2	187.44					

Method: 2011A Sample Name: K1104239-001D Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:56 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3411	.0028	-.0007	.02291	-.00003	-.0003
#1	.3599	.0011	-.0033	.02271	.00002	.0003
#2	.3224	.0044	.0019	.02312	-.00009	-.0009
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	5.501	.0023	-.0003	.0017	.5001
#1	-.0001	5.518	.0023	-.0008	.0007	.4970
#2	.0002	5.483	.0022	.0002	.0027	.5031
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	2.3117	.05849	.0012	-.0007	2.514
#1	.0006	2.3128	.05809	-.0003	-.0011	2.519
#2	-.0038	2.3106	.05889	.0027	-.0003	2.509
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0064	.0001	2.520	-.0045	-.0003	.0016
#1	-.0047	.0004	2.517	-.0049	.0008	.0023
#2	.0175	-.0001	2.522	-.0041	-.0015	.0009
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0070	18.48	.01466	-.0002	.00033	.03357
#1	.0187	18.45	.01351	.0049	.00061	.03351
#2	-.0047	18.51	.01580	-.0052	.00005	.03363
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.16					
#1	186.16					
#2	184.17					

Method: 2011A Sample Name: K1104239-001S Operator:
 Comment: 252411B
 Run Time: 05/24/11 20:59 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.303	.4640	.9196	1.9831	.04811	.9393

#1	2.298	.4704	.9080	1.9785	.04806	.9370
#2	2.308	.4575	.9312	1.9878	.04816	.9415

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0448	15.39	.1954	.4764	.2229	1.418

#1	.0448	15.35	.1961	.4746	.2204	1.415
#2	.0447	15.44	.1947	.4781	.2255	1.422

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4737	11.96	.49128	.9603	.4674	11.88

#1	.4632	11.95	.49046	.9536	.4653	11.87
#2	.4842	11.97	.49210	.9670	.4696	11.90

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9486	.0455	11.38	.0159	.4634	.4517

#1	.9310	.0440	11.41	.0162	.4633	.4500
#2	.9661	.0470	11.36	.0157	.4635	.4535

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0398	18.60	.01541	.9178	.00025	.03602

#1	.0269	18.58	.01455	.9048	.00043	.03596
#2	.0527	18.62	.01627	.9307	.00007	.03607

Int. Std.	Sc3572
Units	Cts/S
Avg	188.83

#1	188.74
#2	188.92

Method: 2011A Sample Name: K1104239-002 Operator:
 Comment: 252411B
 Run Time: 05/24/11 21:02 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4555	.0198	-.0150	.62381	.00008	.0201
#1	.4512	.0253	-.0163	.62085	.00005	.0206
#2	.4598	.0143	-.0137	.62677	.00011	.0195
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	39.07	.0026	.0130	.0054	39.12
#1	.0011	38.85	.0025	.0128	.0049	38.91
#2	.0009	39.29	.0027	.0132	.0060	39.34
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	15.59	2.6292	.0034	-.0044	13.31
#1	.0001	15.52	2.6096	.0030	-.0043	13.23
#2	-.0030	15.66	2.6488	.0039	-.0046	13.39
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0101	-.0014	8.848	.0007	.0205	.0085
#1	-.0028	.0024	8.811	.0019	.0194	.0086
#2	.0230	-.0052	8.885	-.0005	.0217	.0085
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.369	26.56	.05899	.0165	.00114	.27327
#1	4.388	26.53	.05916	.0124	.00107	.27325
#2	4.350	26.58	.05882	.0206	.00120	.27330
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.92					
#1	188.84					
#2	189.00					

Method: 2011A Sample Name: K1104239-003 Operator:
 Comment: 252411B
 Run Time: 05/24/11 21:05 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0856	.0044	-.0006	.10342	-.00005	.0200

#1	.0855	.0011	-.0071	.10334	-.00007	.0203
#2	.0856	.0077	.0058	.10351	-.00004	.0198

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	26.69	.0017	.0051	.0009	13.22

#1	-.0002	26.53	.0024	.0049	.0001	13.26
#2	.0002	26.84	.0010	.0053	.0017	13.18

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0032	12.69	1.4354	.0011	-.0029	24.85

#1	-.0012	12.68	1.4437	.0030	-.0035	24.87
#2	-.0052	12.70	1.4271	-.0007	-.0024	24.84

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0230	.0013	11.19	-.0041	.0009	.0036

#1	.0175	.0004	11.25	-.0037	.0012	.0025
#2	.0285	.0021	11.13	-.0046	.0006	.0047

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.466	23.92	.00957	.0063	.00019	.14813

#1	1.447	23.95	.00984	-.0058	.00040	.14956
#2	1.485	23.89	.00930	.0184	-.00003	.14669

Int. Std.	Sc3572
Units	Cts/S
Avg	188.30

#1	187.01
#2	189.59

Method: 2011A Sample Name: K1104239-004 Operator:
 Comment: 252411B
 Run Time: 05/24/11 21:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2254	.0005	-.0016	.08204	-.00003	.0085

#1	.2495	-.0077	-.0085	.08129	-.00003	.0081
#2	.2013	.0088	.0053	.08279	-.00003	.0089

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	16.76	.0037	.0039	.0006	7.940

#1	.0008	16.70	.0046	.0043	-.0002	7.925
#2	-.0001	16.81	.0027	.0036	.0015	7.955

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0057	7.0865	1.1363	.0010	-.0022	9.726

#1	.0092	7.0909	1.1350	.0003	-.0021	9.763
#2	.0022	7.0820	1.1376	.0016	-.0022	9.689

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	-.0010	5.905	-.0011	.0004	.0034

#1	-.0047	-.0001	5.920	.0006	-.0021	.0040
#2	.0027	-.0020	5.890	-.0028	.0028	.0028

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4908	20.62	.01179	-.0013	-.00029	.09578

#1	.4819	20.59	.01142	-.0023	.00022	.09611
#2	.4997	20.66	.01216	-.0003	-.00081	.09545

Int. Std.	Sc3572
Units	Cts/S
Avg	190.32

#1	190.19
#2	190.46

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/24/11 21:12 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	4.934	.0180	-.0045	2.4895	.04833	-.0049
Stddev	.022	.0055	.0128	.0300	.00024	.0013
%RSD	.4564	30.32	281.1	1.2042	.49050	27.43

#1	4.918	.0219	-.0136	2.4683	.04816	-.0040
#2	4.950	.0142	.0045	2.5107	.04850	-.0059

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	24.55	.0044	-.0015	-.0016	24.42
Stddev	.0009	.23	.0014	.0001	.0004	.28
%RSD	77.56	.9186	30.85	5.918	24.87	1.151

#1	.0018	24.39	.0034	-.0014	-.0013	24.22
#2	.0005	24.71	.0054	-.0015	-.0019	24.61

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0077	24.90	4.898	-.0020	-.0045	9.848
Stddev	.0007	.11	.029	.0009	.0005	.043
%RSD	8.823	.4585	.5860	46.27	10.68	.4394

#1	.0072	24.82	4.877	-.0013	-.0048	9.878
#2	.0082	24.99	4.918	-.0026	-.0041	9.817

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	-.0004	9.397	-.0021	.0031	.0013
Stddev	.0052	.0054	.009	.0125	.0044	.0001
%RSD	527.1	1332.	.0957	580.3	142.1	7.346

#1	.0027	-.0042	9.390	.0067	.0000	.0013
#2	-.0047	.0034	9.403	-.0110	.0062	.0012

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/24/11 21:12

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	9.912	2.480	-.00028	.0086	.49127	.48499
Stddev	.057	.008	.00057	.0057	.00131	.00206
%RSD	.5700	.3231	199.72	66.07	.26623	.42400
#1	9.872	2.475	-.00068	.0126	.49220	.48354
#2	9.952	2.486	.00012	.0046	.49035	.48645
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.75					
Stddev	.75					
%RSD	.40204					
#1	188.29					
#2	187.22					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/24/11 21:15 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4802	2.419	2.319	.45916	.53399	.4885
Stddev	.0089	.013	.019	.00645	.00948	.0012
%RSD	1.864	.5341	.8111	1.4049	1.7745	.2381
#1	.4738	2.410	2.306	.46372	.54069	.4877
#2	.4865	2.428	2.333	.45460	.52729	.4894
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4668	2.372	.4992	.4922	.4742	.5018
Stddev	.0051	.002	.0049	.0053	.0049	.0126
%RSD	1.098	.1027	.9813	1.076	1.036	2.509
#1	.4704	2.371	.5026	.4960	.4708	.5107
#2	.4631	2.374	.4957	.4885	.4777	.4929
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.427	2.0496	.95237	.9821	.4923	4.955
Stddev	.006	.0044	.00301	.0105	.0038	.008
%RSD	.2666	.21627	.31594	1.069	.7741	.1657
#1	2.432	2.0528	.95450	.9895	.4949	4.949
#2	2.423	2.0465	.95024	.9746	.4896	4.960
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.392	.4940	.4701	2.338	.4945	.4661
Stddev	.014	.0029	.0112	.006	.0161	.0084
%RSD	.5708	.5863	2.376	.2405	3.261	1.811
#1	2.382	.4919	.4780	2.341	.5059	.4720
#2	2.401	.4960	.4622	2.334	.4831	.4601
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 05/24/11 21:15

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0289	.8198	.49627	4.899	.49593	.48519
Stddev	.0033	.0033	.00760	.013	.00231	.00878
%RSD	11.52	.4052	1.5306	.2713	.46624	1.8105
#1	.0313	.8175	.50165	4.908	.49756	.49140
#2	.0266	.8222	.49090	4.890	.49429	.47898
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.45					
Stddev	3.40					
%RSD	1.8230					
#1	184.04					
#2	188.85					

Method: 2011A Sample Name: CCB

Operator:

Comment:

Run Time: 05/24/11 21:18 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0134	.0066	-.0146	.00127	.00020	-.0057
Stddev	.0000	.0000	.0073	.00013	.00006	.0004
%RSD	.2989	.4229	49.97	10.349	27.399	6.803
#1	.0133	.0066	-.0197	.00118	.00024	-.0054
#2	.0134	.0066	-.0094	.00137	.00016	-.0060
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0075	.0015	-.0011	.0008	.0037
Stddev	.0012	.0104	.0007	.0005	.0006	.0015
%RSD	549.0	138.3	44.82	45.02	77.30	39.33
#1	-.0011	.0002	.0010	-.0015	.0004	.0048
#2	.0006	.0149	.0020	-.0008	.0012	.0027
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0135	.00338	.00097	.0024	-.0003	.0011
Stddev	.0003	.00007	.00032	.0013	.0001	.0109
%RSD	2.164	2.0564	33.406	54.92	38.65	997.5
#1	.0132	.00334	.00119	.0034	-.0002	-.0066
#2	.0137	.00343	.00074	.0015	-.0003	.0088
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0083	-.0042	.0037	.0020	-.0002	-.0005
Stddev	.0078	.0019	.0000	.0032	.0011	.0009
%RSD	94.26	45.65	.3671	161.5	585.1	196.1
#1	.0028	-.0029	.0036	.0042	-.0010	.0002
#2	.0138	-.0056	.0037	-.0003	.0006	-.0011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 05/24/11 21:18

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0006	.0053	-.00073	.0032	-.00008	.00031
Stddev	.0075	.0019	.00053	.0031	.00054	.00000
%RSD	1223.	35.56	73.384	94.82	680.98	1.2860
#1	-.0059	.0066	-.00111	.0054	-.00046	.00031
#2	.0047	.0039	-.00035	.0011	.00030	.00030
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.64					
Stddev	.28					
%RSD	.15283					
#1	183.44					
#2	183.84					

Method: 2011A Sample Name: LLCCV

Operator:

Comment:

Run Time: 05/24/11 21:21 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0544	.0401	.0741	.00473	.00481	.0429
Stddev	.0176	.0024	.0212	.00042	.00001	.0008
%RSD	32.43	5.910	28.60	8.8154	.13173	1.968
#1	.0669	.0384	.0591	.00443	.00481	.0423
#2	.0419	.0417	.0891	.00502	.00480	.0435
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.000%	30.000%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.0455	Q .0074	.0106	.0109	.0176
Stddev	.0006	.0020	.0003	.0010	.0045	.0005
%RSD	13.16	4.453	4.716	9.515	41.11	3.074
#1	.0039	.0469	.0076	.0113	.0077	.0180
#2	.0047	.0440	.0071	.0099	.0140	.0173
Check ?	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0413	.01665	.00427	.0108	.0191	.4067
Stddev	.0136	.00011	.00007	.0025	.0000	.0038
%RSD	33.01	.67927	1.6208	23.56	.1501	.9293
#1	.0509	.01657	.00422	.0090	.0192	.4094
#2	.0316	.01673	.00432	.0126	.0191	.4040
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0976	.0072	.1660	.0402	.0084	.0090
Stddev	.0065	.0023	.0041	.0034	.0002	.0014
%RSD	6.666	32.05	2.462	8.489	1.994	15.48
#1	.0930	.0056	.1631	.0378	.0083	.0080
#2	.1022	.0089	.1689	.0426	.0085	.0100
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

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5/25/11

Sample Name: LLCCV Run Time: 05/24/11 21:21

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1902	.4251	.00858	.0736	.00901	.00886
Stddev	.0113	.0026	.00082	.0015	.00007	.00009
%RSD	5.961	.6004	9.5712	2.037	.73106	1.0317
#1	.1982	.4269	.00800	.0725	.00906	.00880
#2	.1822	.4233	.00916	.0747	.00897	.00893
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	188.01					
Stddev	.07					
%RSD	.03520					
#1	188.05					
#2	187.96					

Method: 2011A Sample Name: LLCCV

Operator:

Comment:

Run Time: 05/24/11 21:24 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0481	.0439	Q .0655	.00491	.00481	.0431
Stddev	.0013	.0124	.0115	.00023	.00015	.0012
%RSD	2.700	28.26	17.60	4.7861	3.0249	2.705
#1	.0491	.0527	.0737	.00507	.00471	.0423
#2	.0472	.0351	.0574	.00474	.00491	.0440
Check ?	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.000%	30.000%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	.0469	.0048	.0110	Q .0139	.0192
Stddev	.0001	.0087	.0002	.0004	.0017	.0012
%RSD	2.984	18.45	5.157	3.930	11.94	6.095
#1	.0041	.0530	.0046	.0113	.0127	.0184
#2	.0042	.0408	.0050	.0107	.0150	.0200
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567	.01671	.00427	.0101	.0194	.3849
Stddev	.0040	.00015	.00013	.0003	.0009	.0111
%RSD	7.122	.90221	2.9661	2.843	4.733	2.873
#1	.0596	.01660	.00418	.0103	.0200	.3927
#2	.0539	.01681	.00436	.0099	.0187	.3771
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1012	.0113	.1846	.0395	.0086	.0091
Stddev	.0065	.0012	.0003	.0051	.0016	.0005
%RSD	6.407	10.27	.1355	12.99	18.70	5.683
#1	.0967	.0121	.1844	.0432	.0098	.0095
#2	.1058	.0105	.1847	.0359	.0075	.0087
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLCCV Run Time: 05/24/11 21:24

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1969	.4223	Q .00591	.0742	.00954	.00906
Stddev	.0166	.0004	.00080	.0229	.00062	.00003
%RSD	8.427	.0921	13.517	30.86	6.4787	.30737
#1	.1851	.4220	.00535	.0903	.00910	.00904
#2	.2086	.4226	.00648	.0580	.00998	.00908
Check ?	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.72					
Stddev	.63					
%RSD	.34203					
#1	183.28					
#2	184.17					

Service Request # K1103574 : #8 rerun, #6,7 dilutions
Instrument ID# K-ICP-AES-02

ICP-OES Data Review Form

	Yes	No
1. Standardization completed	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. ICV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. ICB below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. CRI/LLICV standard analyzed.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. ICS standards within 20% of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. All preceding CCVs within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Following CCV within 10 % of true value	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8. Bracketing CCBs below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9. Method Blank below MRL	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10. MS-MSD or Dup-MS and LCS within CAS control limits	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11. All analytes within instrument linear range	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12. Adequate rinse out time allowed between samples to eliminate memory effect	<input checked="" type="checkbox"/>	<input type="checkbox"/>
13. Run terminated early	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments:

Saved As: 052511AICP02 StarLIMS #: 247513

6010C/200.7 Calibration:

6010C: NR LL TI.

Primary Review by WS Date 5/25/11

Secondary Review by mmr Date 5/26/11

Method:	2011A	Sample Name:	Blank	Operator:	
Comment:					
Run Time:	05/25/11 11:54	Type:	Std	Mode:	IR
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	
Line	237.312 {141}	206.833 {162}	189.042 {177}	233.527 {144}	
Avg	.1410	.0193	.0567	.00004	
Stddev	.0040	.0039	.0078	.00016	
%RSD	2.825	20.25	13.75	367.99	
#1	.1438	.0221	.0512	.00016	
#2	.1382	.0166	.0622	-.00007	
Elem	Be3130	B 2497	Cd2265	Ca2112	
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}	
Avg	-.00174	.4519	.0002	.4761	
Stddev	.00003	.0037	.0002	.0227	
%RSD	1.7898	.8132	127.1	4.773	
#1	-.00172	.4493	.0003	.4922	
#2	-.00176	.4545	.0000	.4601	
Elem	Ca3179	Cr2677	Co2286	Cu3247	
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}	
Avg	-.0373	-.0001	.0002	.0014	
Stddev	.0489	.0001	.0002	.0059	
%RSD	130.9	105.7	91.40	424.6	
#1	-.0719	.0000	.0004	.0055	
#2	-.0028	-.0002	.0001	-.0028	
Elem	Fe2599	Fe2714	Pb2203	Mg2025	
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}	
Avg	.0031	.0009	.0002	.1023	
Stddev	.0008	.0001	.0003	.0470	
%RSD	26.35	6.365	111.9	45.91	
#1	.0036	.0009	.0000	.1355	
#2	.0025	.0010	.0004	.0691	
Elem	Mg2795	Mn2576	Mn2939	Mo2020	
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}	
Avg	.57940	.00179	-.0009	.0004	
Stddev	.11515	.00025	.0003	.0002	
%RSD	19.874	13.677	36.64	45.88	
#1	.66083	.00197	-.0012	.0005	
#2	.49798	.00162	-.0007	.0002	
Elem	Ni2316	K 7664	Se1960	Ag3280	
Line	231.604 {145}	766.490 { 44}	196.090 {171}	328.068 {102}	
Avg	-.0003	-.1245	-.0263	.0636	
Stddev	.0000	.1331	.0098	.0195	
%RSD	5.593	106.9	37.17	30.71	
#1	-.0004	-.0304	-.0194	.0774	
#2	-.0003	-.2186	-.0332	.0498	

Sample Name: Blank Run Time: 05/25/11 11:54

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0025	.0004	.0047	.0008
Stddev	.0000	.0001	.0003	.0001
%RSD	1.480	17.13	5.387	13.86

#1	.0025	.0005	.0049	.0007
#2	.0025	.0004	.0045	.0009

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0767	.1810	.00514	.0003
Stddev	.0108	.0331	.00020	.0001
%RSD	14.07	18.30	3.9649	14.90

#1	.0843	.1576	.00499	.0003
#2	.0691	.2045	.00528	.0004

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	.23790	.00303
Stddev	.19958	.00015
%RSD	83.890	5.0862

#1	.09678	.00314
#2	.37902	.00292

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	178.13
Stddev	1.38
%RSD	.77597

#1	177.15
#2	179.10

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5/26/11*

Method: 2011A Sample Name: STDB *ICP6-98-L* Operator:
 Comment:
 Run Time: 05/25/11 11:57 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Al2373	Ba2335	Be3130	Ca2112
Line	237.312 {141}	233.527 {144}	313.042 {107}	211.276 {159}
Avg	14.78	2.7026	.42933	31.96
Stddev	.03	.0206	.00479	.14
%RSD	.1726	.76362	1.1146	.4413
#1	14.80	2.6881	.42595	31.86
#2	14.76	2.7172	.43272	32.05

Elem	Fe2714	Mg2025	Mn2939	K_7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	.6456	43.96	.6791	162.6
Stddev	.0049	.05	.0052	.4
%RSD	.7533	.1246	.7613	.2371
#1	.6422	43.92	.6755	162.9
#2	.6490	44.00	.6828	162.3

Elem	Na5895	P_2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	3.077	32.34	71.39	327.53
Stddev	.019	.22	.28	.43
%RSD	.6057	.6784	.3868	.12994
#1	3.064	32.19	71.19	327.23
#2	3.091	32.50	71.58	327.84

Elem	Sr4077
Line	407.771 { 82}
Avg	9.2659
Stddev	.0560
%RSD	.60389
#1	9.2263
#2	9.3055

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	182.36
Stddev	.88
%RSD	.48053
#1	182.98
#2	181.74

Method: 2011A Sample Name: STDA *ICPS-93-A* Operator:

Comment:

Run Time: 05/25/11 12:01 Type: Std Mode: IR Corr.Fact: 1.000000

Elem	Sb2068	As1890	B_2497	Cd2265
Line	206.833 {162}	189.042 {177}	249.773 {134}	226.502 {148}
Avg	12.23	7.475	34.24	.2041
Stddev	.11	.075	.02	.0002
%RSD	.8809	1.005	.0673	.1191
#1	12.16	7.422	34.22	.2043
#2	12.31	7.529	34.25	.2039
Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	35.60	.1029	.1653	17.64
Stddev	.10	.0002	.0000	.03
%RSD	.2813	.2006	.0081	.1454
#1	35.53	.1031	.1653	17.62
#2	35.67	.1028	.1653	17.66
Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.3565	.0804	1383.8	2.3297
Stddev	.0027	.0001	1.1	.0204
%RSD	.7696	.1167	.07925	.87695
#1	.3584	.0804	1383.0	2.3152
#2	.3545	.0803	1384.6	2.3441
Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.1336	.1479	7.106	19.89
Stddev	.0000	.0005	.041	.13
%RSD	.0300	.3422	.5716	.6475
#1	.1336	.1483	7.077	19.98
#2	.1336	.1476	7.135	19.80
Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.0729	.1484	.1167	.18705
Stddev	.0003	.0005	.0004	.00151
%RSD	.3874	.3245	.3763	.80898
#1	.0727	.1487	.1170	.18812
#2	.0731	.1480	.1164	.18598
Elem	Tl1908			
Line	190.864 {176}			
Avg	.0703			
Stddev	.0002			
%RSD	.2795			
#1	.0705			
#2	.0702			

Sample Name: STDA Run Time: 05/25/11 12:01

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	183.07
Stddev	1.04
%RSD	.57046
#1	182.33
#2	183.81

Method: 2011A

Sample Name: ICV1

ICP8-10-B

Operator:

Comment:

Run Time: 05/25/11 12:04 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.184	2.423	2.574	5.1868	Q .13400	.0026
Stddev	.015	.020	.024	.1023	.00238	.0002
%RSD	.2848	.8130	.9486	1.9719	1.7357	5.879
#1	5.174	2.409	2.556	5.1145	.13236	.0027
#2	5.195	2.437	2.591	5.2592	.13564	.0025
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	

*Sol
rerun
WS
5/25/11*

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.284	13.09	.5055	1.253	.6241	2.429
Stddev	.026	.23	.0090	.019	.0081	.033
%RSD	2.003	1.795	1.790	1.498	1.294	1.377
#1	1.266	12.92	.4991	1.239	.6184	2.405
#2	1.302	13.25	.5119	1.266	.6299	2.453
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.556	12.93	1.2711	2.026	1.251	12.85
Stddev	.044	.03	.0135	.039	.019	.06
%RSD	1.721	.2529	1.0622	1.931	1.496	.4707
#1	2.525	12.95	1.2615	1.998	1.238	12.80
#2	2.588	12.91	1.2806	2.054	1.264	12.89
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.516	.6149	12.83	.0173	1.252	1.281
Stddev	.056	.0057	.33	.0040	.025	.024
%RSD	2.238	.9289	2.609	22.93	2.016	1.836
#1	2.476	.6109	12.59	.0201	1.235	1.265
#2	2.556	.6189	13.06	.0145	1.270	1.298
Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 05/25/11 12:04

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0446	-.0466	1.9899	2.532	.00073	.00600
Stddev	.0023	.0005	.0299	.009	.00144	.00004
%RSD	5.222	1.105	1.5035	.3409	197.10	.67949
#1	.0430	-.0470	1.9687	2.526	-.00029	.00597
#2	.0463	-.0463	2.0110	2.538	.00175	.00603
Check ?	None	None	QC Pass	QC Pass	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.18					
Stddev	1.91					
%RSD	1.0557					
#1	182.53					
#2	179.82					

Method: 2011A Sample Name: ICV1

Operator:

Comment:

Run Time: 05/25/11 12:07 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.120	2.415	2.559	5.0453	.12976	.0017
Stddev	.028	.004	.010	.0363	.00105	.0011
%RSD	.5486	.1632	.3884	.71880	.81214	61.01

#1	5.100	2.418	2.566	5.0197	.12901	.0025
#2	5.140	2.412	2.552	5.0710	.13050	.0010

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	5.000	2.500	2.500	5.0000	.12500	
Range	5.000%	5.000%	5.000%	5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.248	13.03	.4897	1.218	.6227	Q 2.349
Stddev	.006	.15	.0076	.006	.0049	.016
%RSD	.4769	1.157	1.559	.5341	.7864	.6902

#1	1.244	12.92	.4843	1.214	.6261	2.338
#2	1.252	13.14	.4950	1.223	.6192	2.361

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Fail
Value	1.250	12.50	.5000	1.250	.6250	2.500
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.466	12.83	1.2379	1.957	1.209	12.77
Stddev	.028	.03	.0052	.011	.011	.08
%RSD	1.154	.2660	.41816	.5576	.8830	.6270

#1	2.446	12.86	1.2343	1.949	1.202	12.71
#2	2.486	12.81	1.2416	1.965	1.217	12.83

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	2.500	12.50	1.2500	2.000	1.250	12.50
Range	5.000%	5.000%	5.0000%	5.000%	5.000%	5.000%

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.495	.6074	12.43	.0187	1.215	1.243
Stddev	.030	.0022	.08	.0053	.020	.004
%RSD	1.210	.3542	.6661	28.19	1.609	.3464

#1	2.474	.6058	12.37	.0150	1.201	1.239
#2	2.517	.6089	12.49	.0225	1.229	1.246

Check ?	QC Pass	QC Pass	QC Pass	None	QC Pass	QC Pass
Value	2.500	.6250	12.50		1.250	1.250
Range	5.000%	5.000%	5.000%		5.000%	5.000%

Sample Name: ICV1 Run Time: 05/25/11 12:07

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0583	-.0438	1.9293	2.421	-.00007	.00565
Stddev	.0006	.0010	.0068	.018	.00012	.00004
%RSD	1.102	2.214	.35128	.7499	175.77	.79370
#1	.0579	-.0431	1.9245	2.408	-.00015	.00562
#2	.0588	-.0444	1.9341	2.433	.00002	.00568
Check ?	None	None	QC Pass	QC Pass	None	None
Value			2.0000	2.500		
Range			5.0000%	5.000%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	185.91					
Stddev	.80					
%RSD	.43240					
#1	186.48					
#2	185.34					

Method: 2011A Sample Name: ICVB1 *ICP8-97C* Operator:
Comment:
Run Time: 05/25/11 12:10 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.024	-.0017	-.0011	.00207	-.00006	1.934
Stddev	.021	.0008	.0112	.00025	.00007	.008
%RSD	2.095	47.49	1034.	12.043	110.79	.4133
#1	1.039	-.0023	.0069	.00224	-.00011	1.928
#2	1.008	-.0011	-.0090	.00189	-.00001	1.940
Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	4.931	.0068	.0020	-.0006	10.53
Stddev	.0005	.014	.0022	.0003	.0002	.02
%RSD	60.19	.2909	32.69	15.77	37.86	.1647
#1	.0005	4.941	.0084	.0017	-.0007	10.55
#2	.0013	4.920	.0052	.0022	-.0004	10.52
Check ?	None	QC Pass	None	None	None	QC Fail
Value		5.000				10.00
Range		5.000%				5.000%

*See Q
return
WS
07/25/11*

Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0046	4.9368	10.43	.0020	.0023	.0156
Stddev	.0016	.0062	.02	.0004	.0010	.0106
%RSD	35.71	.12492	.2027	18.47	44.41	67.58
#1	-.0057	4.9324	10.45	.0022	.0030	.0082
#2	-.0034	4.9411	10.42	.0017	.0016	.0231
Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0009	-.0008	.5075	5.112	.0019	.0003
Stddev	.0055	.0004	.0047	.024	.0031	.0001
%RSD	596.1	51.89	.9221	.4597	163.5	26.95
#1	.0048	-.0005	.5108	5.095	-.0003	.0004
#2	-.0030	-.0010	.5042	5.128	.0041	.0003
Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 05/25/11 12:10

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.012	5.228	.00071	.0069	2.0800	2.0385
Stddev	.065	.024	.00003	.0034	.0037	.0073
%RSD	1.296	.4527	4.5580	49.41	.18017	.35678
#1	4.966	5.211	.00073	.0093	2.0773	2.0436
#2	5.058	5.245	.00069	.0045	2.0826	2.0333
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.53					
Stddev	.94					
%RSD	.51749					
#1	180.86					
#2	182.19					

Method: 2011A Sample Name: ICVB1

Operator:

Comment:

Run Time: 05/25/11 12:14 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.017	.0010	-.0142	.00077	-.00007	1.932
Stddev	.007	.0112	.0020	.00010	.00011	.003
%RSD	.6504	1072.	13.89	13.562	169.93	.1400

#1	1.012	-.0069	-.0128	.00070	.00001	1.930
#2	1.022	.0090	-.0156	.00085	-.00015	1.934

Check ?	None	None	None	None	None	QC Pass
Value						2.000
Range						5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	4.915	.0067	.0009	-.0015	10.38
Stddev	.0007	.032	.0006	.0001	.0006	.12
%RSD	49.45	.6458	8.620	5.933	37.97	1.111

#1	.0010	4.893	.0072	.0009	-.0011	10.30
#2	.0020	4.938	.0063	.0009	-.0018	10.47

Check ?	None	QC Pass	None	None	None	QC Pass
Value		5.000				10.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2795	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	4.9326	10.31	-.0010	.0010	.0021
Stddev	.0089	.0178	.13	.0004	.0034	.0019
%RSD	207.6	.36050	1.275	43.39	328.9	93.74

#1	.0105	4.9201	10.22	-.0013	.0034	.0034
#2	-.0020	4.9452	10.41	-.0007	-.0014	.0007

Check ?	None	QC Pass	QC Pass	None	None	None
Value		5.0000	10.00			
Range		5.0000%	5.000%			

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184	-.0046	.4982	5.055	.0005	.0006
Stddev	.0082	.0027	.0035	.033	.0001	.0008
%RSD	44.78	59.05	.7006	.6602	10.58	126.5

#1	.0126	-.0066	.4958	5.031	.0006	.0012
#2	.0242	-.0027	.5007	5.079	.0005	.0001

Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 05/25/11 12:14

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.006	5.214	.00018	-.0044	2.0703	2.0133
Stddev	.019	.011	.00261	.0340	.0128	.0224
%RSD	.3716	.2185	1416.2	778.9	.61659	1.1141
#1	4.993	5.206	.00203	-.0284	2.0613	1.9974
#2	5.019	5.222	-.00166	.0197	2.0793	2.0291
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	5.000	5.000			2.0000	2.0000
Range	5.000%	5.000%			5.0000%	5.0000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.24					
Stddev	1.31					
%RSD	.71510					
#1	184.16					
#2	182.31					

Method: 2011A Sample Name: ICB Operator:
 Comment:
 Run Time: 05/25/11 12:17 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198	.0073	-.0093	.00079	.00005	.0025
Stddev	.0201	.0071	.0039	.00012	.00007	.0001
%RSD	101.3	97.58	42.27	15.719	129.81	2.147

#1	.0340	.0023	-.0121	.00070	.00000	.0025
#2	.0056	.0124	-.0065	.00088	.00010	.0025

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	.0027	-.0013	.0011	-.0007	.0058
Stddev	.0005	.0019	.0003	.0003	.0002	.0024
%RSD	123.3	70.59	25.60	23.80	31.54	41.98

#1	.0007	.0041	-.0015	.0009	-.0009	.0075
#2	.0000	.0014	-.0010	.0013	-.0005	.0041

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0032	.00126	.00379	-.0012	.0023	.0131
Stddev	.0016	.00026	.00095	.0011	.0007	.0430
%RSD	51.26	20.815	25.069	94.97	28.16	328.1

#1	.0020	.00144	.00447	-.0004	.0028	.0435
#2	.0043	.00107	.00312	-.0020	.0019	-.0173

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0039	-.0017	.0018	.0058	.0017	-.0005
Stddev	.0206	.0065	.0028	.0017	.0006	.0003
%RSD	530.0	388.8	154.5	29.15	31.99	64.86

#1	-.0184	.0029	.0038	.0070	.0013	-.0007
#2	.0107	-.0063	-.0002	.0046	.0021	-.0002

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: ICB Run Time: 05/25/11 12:17

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0024	.0036	-.00034	-.0205	-.00006	.00066
Stddev	.0200	.0008	.00199	.0042	.00032	.00006
%RSD	830.0	22.17	588.67	20.23	572.32	9.6470
#1	.0165	.0042	-.00174	-.0176	.00017	.00070
#2	-.0117	.0031	.00107	-.0235	-.00028	.00061
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.38					
Stddev	3.00					
%RSD	1.6561					
#1	183.50					
#2	179.25					

Method: 2011A Sample Name: LLICV 05/50 ICP8-43C Operator:

Comment:

Run Time: 05/25/11 12:20 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0567	.0429	.0740	.00485	.00517	.0521
Stddev	.0160	.0064	.0099	.00000	.00010	.0009
%RSD	28.31	14.92	13.36	.07699	1.9898	1.736
#1	.0453	.0384	.0670	.00486	.00525	.0515
#2	.0680	.0474	.0810	.00485	.00510	.0528
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.000%	30.000%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0052	.0415	.0042	Q .0131	.0096	.0189
Stddev	.0003	.0091	.0005	.0011	.0003	.0013
%RSD	5.603	21.87	11.24	8.063	3.399	7.061
#1	.0055	.0479	.0045	.0123	.0093	.0180
#2	.0050	.0351	.0038	.0138	.0098	.0199
Check ?	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0450	.01740	.00472	.0093	.0215	.3806
Stddev	.0061	.00007	.00016	.0010	.0009	.0137
%RSD	13.44	.40164	3.4263	11.05	4.113	3.588
#1	.0493	.01735	.00483	.0086	.0221	.3710
#2	.0408	.01745	.00460	.0101	.0208	.3903
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0911	.0078	.2041	.0475	.0115	.0091
Stddev	.0151	.0002	.0010	.0047	.0010	.0013
%RSD	16.54	2.417	.4906	9.956	8.385	13.80
#1	.1017	.0077	.2033	.0442	.0108	.0100
#2	.0804	.0079	.2048	.0509	.0122	.0082
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

See rerun WS 5/25/11

Sample Name: LLICV Run Time: 05/25/11 12:20

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2000	.4507	.00969	Q .0690	.01043	.00960
Stddev	.0031	.0113	.00182	.0032	.00049	.00010
%RSD	1.566	2.500	18.745	4.589	4.6709	1.0705
#1	.1978	.4427	.00841	.0713	.01008	.00968
#2	.2022	.4587	.01098	.0668	.01077	.00953
Check ?	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.62					
Stddev	.18					
%RSD	.09963					
#1	182.50					
#2	182.75					

Method: 2011A Sample Name: LLICV

Operator:

Comment:

Run Time: 05/25/11 12:23 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0615	.0463	Q .0615	.00459	.00523	.0509
Stddev	.0040	.0064	.0039	.00055	.00010	.0004
%RSD	6.511	13.81	6.419	11.968	1.9803	.7884
#1	.0643	.0418	.0643	.00497	.00531	.0512
#2	.0586	.0509	.0587	.00420	.00516	.0507
Check ?	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0039	.0438	.0042	.0125	.0119	.0193
Stddev	.0007	.0014	.0007	.0002	.0003	.0007
%RSD	18.19	3.101	15.77	1.732	2.822	3.571
#1	.0044	.0429	.0046	.0126	.0122	.0198
#2	.0034	.0448	.0037	.0123	.0117	.0188
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0521	.01729	.00445	.0106	.0221	.4123
Stddev	.0033	.00032	.00037	.0007	.0012	.0004
%RSD	6.343	1.8296	8.2375	6.958	5.389	.0879
#1	.0544	.01706	.00419	.0101	.0229	.4126
#2	.0498	.01751	.00471	.0111	.0213	.4121
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0930	.0086	.2053	.0489	.0089	.0098
Stddev	.0041	.0026	.0020	.0075	.0010	.0003
%RSD	4.424	29.69	.9860	15.29	10.94	2.798
#1	.0901	.0105	.2067	.0436	.0082	.0100
#2	.0959	.0068	.2038	.0542	.0096	.0096
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLICV Run Time: 05/25/11 12:23

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2110	.4510	.01022	Q .0673	.01054	.00958
Stddev	.0127	.0051	.00221	.0099	.00056	.00000
%RSD	6.000	1.122	21.660	14.68	5.3476	.03244
#1	.2020	.4474	.00866	.0603	.01014	.00958
#2	.2199	.4545	.01179	.0743	.01094	.00959
Check ?	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	182.09					
Stddev	1.03					
%RSD	.56759					
#1	182.82					
#2	181.35					

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/25/11 12:27 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.203	.0007	-.0077	2.6127	.05244	-.0004
Stddev	.030	.0068	.0054	.0227	.00045	.0007
%RSD	.5833	904.2	69.37	.86739	.86435	156.5

#1	5.241	.0056	-.0035	2.5855	.05245	-.0003
#2	5.214	.0044	-.0035	2.6345	.05282	.0003
#3	5.177	-.0092	-.0092	2.6028	.05180	-.0013
#4	5.180	.0022	-.0147	2.6278	.05270	-.0005

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	5.000%			5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	Q 26.41	.0044	.0007	-.0007	Q 26.59
Stddev	.0007	.08	.0004	.0007	.0020	.15
%RSD	39.71	.3146	10.10	107.6	302.7	.5754

#1	.0009	26.34	.0037	.0013	.0012	26.53
#2	.0014	26.49	.0046	.0013	-.0025	26.79
#3	.0020	26.48	.0046	.0002	-.0024	26.43
#4	.0024	26.35	.0046	-.0001	.0009	26.60

Check ?	None	QC Fail	None	None	None	QC Fail
Value		25.00				25.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0037	25.87	Q 5.251	-.0036	-.0005	10.30
Stddev	.0090	.06	.039	.0014	.0014	.03
%RSD	239.4	.2311	.7434	38.36	255.2	.2875

#1	-.0067	25.79	5.251	-.0035	.0001	10.28
#2	-.0110	25.93	5.277	-.0027	-.0005	10.34
#3	.0094	25.89	5.196	-.0056	-.0025	10.27
#4	-.0067	25.86	5.280	-.0026	.0007	10.30

Check ?	None	QC Pass	QC Fail	None	None	QC Pass
Value		25.00	5.000			10.00
Range		5.000%	5.000%			5.000%

WSS/25/11

Sample Name: CCVB Run Time: 05/25/11 12:27

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0053	-.0021	10.39	.0154	.0026	.0010
Stddev	.0101	.0017	.08	.0083	.0022	.0004
%RSD	190.4	79.59	.7507	54.16	85.42	40.84

#1	.0126	-.0010	10.41	.0075	.0035	.0012
#2	.0048	-.0041	10.46	.0134	.0021	.0011
#3	.0126	-.0004	10.28	.0272	.0049	.0004
#4	-.0088	-.0030	10.41	.0135	-.0002	.0013

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			5.000%			

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.36	2.620	.00088	-.0067	.51557	.52134
Stddev	.08	.011	.00061	.0151	.00080	.00291
%RSD	.7381	.4263	68.605	224.0	.15503	.55791

#1	10.25	2.610	.00098	.0004	.51569	.52193
#2	10.41	2.636	.00002	-.0280	.51578	.52353
#3	10.38	2.616	.00144	.0066	.51446	.51709
#4	10.40	2.617	.00108	-.0060	.51636	.52281

Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	181.12
Stddev	.85
%RSD	.47044

#1	181.03
#2	180.69
#3	182.35
#4	180.42

5/25/11
WS

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/25/11 12:34 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.050	-.0003	-.0034	2.5532	.05086	-.0012
Stddev	.005	.0061	.0160	.0106	.00049	.0008
%RSD	.0960	1903.	470.0	.41323	.97045	68.60

#1	5.054	.0056	.0197	2.5680	.05131	-.0021
#2	5.045	-.0079	-.0055	2.5433	.05069	-.0016
#3	5.047	-.0023	-.0120	2.5523	.05025	-.0008
#4	5.054	.0034	-.0158	2.5492	.05121	-.0003

Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	5.000%			5.0000%	5.0000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0015	25.58	.0026	.0006	-.0017	25.68
Stddev	.0006	.16	.0010	.0006	.0029	.14
%RSD	39.27	.6415	39.61	110.9	170.5	.5625

#1	.0011	25.38	.0040	.0005	-.0035	25.85
#2	.0019	25.61	.0016	.0013	-.0040	25.52
#3	.0008	25.78	.0022	-.0002	.0025	25.63
#4	.0020	25.56	.0025	.0005	-.0019	25.75

Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		5.000%				5.000%

Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	25.35	5.104	-.0013	-.0015	10.04
Stddev	.0064	.07	.039	.0006	.0003	.03
%RSD	415.8	.2568	.7599	43.79	22.22	.2778

#1	-.0052	25.36	5.153	-.0009	-.0012	10.04
#2	-.0068	25.41	5.072	-.0019	-.0013	10.05
#3	.0074	25.26	5.074	-.0018	-.0016	10.01
#4	-.0015	25.38	5.117	-.0008	-.0019	10.08

Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		5.000%	5.000%			5.000%

Sample Name: CCVB Run Time: 05/25/11 12:34

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0150	-.0019	9.946	.0060	.0035	.0010
Stddev	.0033	.0031	.092	.0036	.0023	.0016
%RSD	22.11	164.3	.9298	59.80	64.90	157.9

#1	.0165	-.0018	10.07	.0060	.0038	.0008
#2	.0184	-.0013	9.870	.0029	.0062	.0025
#3	.0106	.0015	9.878	.0041	.0006	.0017
#4	.0145	-.0060	9.970	.0111	.0033	-.0011

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			5.000%			

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.17	2.545	.00013	-.0053	.50339	.50577
Stddev	.07	.009	.00177	.0058	.00164	.00397
%RSD	.7123	.3579	1398.3	109.7	.32510	.78429

#1	10.07	2.536	-.00193	.0028	.50497	.51036
#2	10.22	2.556	-.00003	-.0067	.50182	.50242
#3	10.22	2.538	.00007	-.0108	.50215	.50248
#4	10.18	2.549	.00239	-.0063	.50463	.50781

Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	5.000%	5.000%			5.0000%	5.0000%

Int. Std.	Sc3572
Units	Cts/S
Avg	182.04
Stddev	1.27
%RSD	.69753

#1	180.39
#2	183.33
#3	182.66
#4	181.77

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/25/11 12:40 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5106	2.435	2.435	.46959	.56922	.4978
Stddev	.0284	.015	.021	.00297	.00455	.0018
%RSD	5.568	.6072	.8810	.63350	.79869	.3635
#1	.4922	2.433	2.436	.46802	.56472	.4957
#2	.5036	2.452	2.411	.46981	.57091	.5000
#3	.5526	2.416	2.463	.47366	.57481	.4971
#4	.4941	2.437	2.432	.46686	.56645	.4982
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		5.000%	5.000%			5.000%

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5031	2.499	.4937	.4983	.5085	.4963
Stddev	.0054	.011	.0043	.0030	.0066	.0042
%RSD	1.079	.4503	.8617	.6107	1.301	.8396
#1	.4967	2.490	.4923	.4971	.5024	.4998
#2	.5073	2.488	.4970	.5011	.5044	.4986
#3	.5079	2.509	.4972	.5004	.5171	.4964
#4	.5006	2.508	.4883	.4945	.5102	.4904
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	5.000%	5.000%	5.000%	5.000%	5.000%	5.000%

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.476	1.9647	1.0056	.9856	.4991	5.178
Stddev	.019	.0053	.0121	.0087	.0043	.028
%RSD	.7500	.27074	1.2039	.8862	.8529	.5464
#1	2.458	1.9594	1.0020	.9812	.4947	5.143
#2	2.495	1.9611	1.0017	.9922	.5045	5.194
#3	2.488	1.9704	1.0232	.9935	.5004	5.207
#4	2.462	1.9681	.99547	.9754	.4969	5.168
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	5.000%	5.0000%	5.0000%	5.000%	5.000%	

Sample Name: CCVA Run Time: 05/25/11 12:40

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.418	.4928	.5210	2.466	.5030	.5036
Stddev	.018	.0056	.0056	.028	.0057	.0046
%RSD	.7459	1.141	1.079	1.125	1.126	.9125
#1	2.432	.4891	.5174	2.425	.5045	.4981
#2	2.407	.4872	.5232	2.482	.5052	.5053
#3	2.433	.4992	.5278	2.482	.5076	.5089
#4	2.397	.4958	.5155	2.474	.4948	.5021
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	5.000%	5.000%		5.000%	5.000%	5.000%
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0403	.8613	.49338	4.860	.51903	.51256
Stddev	.0136	.0038	.00675	.049	.00143	.00342
%RSD	33.76	.4373	1.3671	1.013	.27595	.66807
#1	.0215	.8556	.48878	4.797	.51737	.51056
#2	.0391	.8631	.49676	4.864	.51837	.51445
#3	.0498	.8633	.50118	4.859	.51978	.51632
#4	.0508	.8632	.48682	4.918	.52058	.50890
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			5.0000%	5.000%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.25					
Stddev	1.13					
%RSD	.61439					
#1	183.38					
#2	182.61					
#3	182.24					
#4	184.78					

Method: 2011A Sample Name: CCB

Operator:

Comment:

Run Time: 05/25/11 12:45 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0198	-.0034	-.0070	.00017	.00015	.0002
Stddev	.0013	.0032	.0046	.00018	.00007	.0000
%RSD	6.722	94.45	66.06	104.56	43.314	.5366

#1	.0208	-.0011	-.0102	.00030	.00011	.0002
#2	.0189	-.0056	-.0037	.00004	.00020	.0002

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0062	.0000	.0014	.0003	.0022
Stddev	.0011	.0019	.000	.0005	.0043	.0003
%RSD	311.4	30.93	505.4	39.76	1375.	15.11

#1	.0011	.0048	.0001	.0017	-.0027	.0024
#2	-.0004	.0076	-.0002	.0010	.0034	.0020

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0076	.00226	.00073	.0000	.0013	-.0209
Stddev	.0102	.00002	.00013	.001	.0000	.0060
%RSD	133.2	1.0252	17.298	3857.	1.845	28.74

#1	.0148	.00224	.00081	.0003	.0014	-.0251
#2	.0004	.00227	.00064	-.0003	.0013	-.0166

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0058	-.0031	.0071	-.0004	.0028	-.0007
Stddev	.0014	.0014	.0019	.0034	.0014	.0002
%RSD	23.59	44.97	26.61	840.5	50.78	24.22

#1	.0068	-.0040	.0058	-.0028	.0038	-.0006
#2	.0048	-.0021	.0084	.0020	.0018	-.0008

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 05/25/11 12:45

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0085	.0043	.00042	-.0155	.00017	.00016
Stddev	.0065	.0051	.00113	.0004	.00041	.00000
%RSD	76.02	119.5	270.37	2.421	241.22	.12764
#1	-.0131	.0007	.00122	-.0153	-.00012	.00016
#2	-.0039	.0079	-.00038	-.0158	.00046	.00016
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.96					
Stddev	2.04					
%RSD	1.1111					
#1	182.52					
#2	185.41					

Method: 2011A Sample Name: ICSA *IC99-2-B* Operator:
 Comment:
 Run Time: 05/25/11 12:48 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	523.0	.0755	-.0486	-.00011	.00005	-.0422
Stddev	2.3	.0112	.0250	.00087	.00013	.0035
%RSD	.4333	14.88	51.55	816.50	242.66	8.372

#1	521.4	.0676	-.0663	.00051	-.00004	-.0397
#2	524.6	.0834	-.0309	-.00072	.00014	-.0447

Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0013	508.4	.0013	.0027	-.0049	200.1
Stddev	.0007	3.9	.0007	.0011	.0006	5.6
%RSD	51.29	.7743	51.24	41.86	12.08	2.822

#1	-.0017	505.6	.0018	.0019	-.0053	196.1
#2	-.0008	511.2	.0008	.0035	-.0045	204.1

Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0080	526.4	-.01537	-.0122	-.0040	-.0694
Stddev	.0102	2.1	.00005	.0025	.0001	.0240
%RSD	127.2	.3996	.30453	20.68	3.467	34.63

#1	-.0152	524.9	-.01541	-.0140	-.0039	-.0864
#2	-.0008	527.9	-.01534	-.0104	-.0041	-.0524

Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0243	.0018	.0344	-.0171	-.0046	.0048
Stddev	.0192	.0020	.0001	.0121	.0036	.0000
%RSD	79.03	108.7	.3579	70.52	79.13	.9803

#1	-.0107	.0032	.0345	-.0256	-.0071	.0049
#2	-.0379	.0004	.0343	-.0086	-.0020	.0048

Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 05/25/11 12:48

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1438	-.0154	-.00006	.0124	.01200	.07528
Stddev	.0324	.0001	.00032	.0216	.00021	.00261
%RSD	22.51	.5516	545.64	174.6	1.7160	3.4720
#1	-.1209	-.0154	.00017	.0277	.01215	.07343
#2	-.1667	-.0155	-.00028	-.0029	.01186	.07713
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	171.18					
Stddev	3.57					
%RSD	2.0879					
#1	173.70					
#2	168.65					

Method: 2011A Sample Name: ICSEA

Operator:

Comment:

Run Time: 05/25/11 12:51 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	522.8	.0693	-.0762	-.00033	.00003	-.0435
Stddev	2.5	.0167	.0022	.00022	.00004	.0005
%RSD	.4866	24.17	2.846	67.550	121.58	1.239

#1	521.0	.0811	-.0777	-.00049	.00000	-.0439
#2	524.6	.0575	-.0746	-.00017	.00006	-.0431

Check ?	QC Pass	None	None	None	None	None
Value	500.0					
Range	20.00%					

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	510.9	.0022	.0034	-.0050	204.1
Stddev	.0010	2.7	.0006	.0017	.0026	1.7
%RSD	212.5	.5346	27.13	49.39	51.87	.8397

#1	-.0002	509.0	.0026	.0046	-.0068	202.9
#2	.0012	512.9	.0018	.0022	-.0032	205.3

Check ?	None	QC Pass	None	None	None	QC Pass
Value		500.0				200.0
Range		20.00%				20.00%

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0156	527.1	-.01590	-.0108	-.0057	-.0740
Stddev	.0231	1.5	.00042	.0014	.0003	.0166
%RSD	147.9	.2900	2.6183	12.68	5.784	22.45

#1	.0007	528.1	-.01620	-.0117	-.0060	-.0858
#2	-.0319	526.0	-.01561	-.0098	-.0055	-.0623

Check ?	None	QC Pass	None	None	None	None
Value		500.0				
Range		20.00%				

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0234	.0020	.0394	-.0241	-.0034	.0032
Stddev	.0124	.0006	.0018	.0132	.0000	.0009
%RSD	52.92	30.33	4.521	54.58	.8674	27.80

#1	-.0146	.0024	.0406	-.0334	-.0034	.0039
#2	-.0321	.0015	.0381	-.0148	-.0034	.0026

Check ?	None	None	None	None	None	None
Value						
Range						

W55/25/11

Sample Name: ICSA Run Time: 05/25/11 12:51

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1291	-.0200	.00314	.0097	.01201	.07563
Stddev	.0018	.0034	.00241	.0185	.00028	.00006
%RSD	1.408	16.85	76.611	189.6	2.3111	.07992
#1	-.1278	-.0176	.00144	-.0033	.01221	.07567
#2	-.1304	-.0224	.00484	.0228	.01181	.07559
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	169.56					
Stddev	.79					
%RSD	.46493					
#1	170.11					
#2	169.00					

WS
5/25/11

Method: 2011A Sample Name: ICSAB *ICP9-1-B* Operator:
 Comment:
 Run Time: 05/25/11 12:55 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	520.0	1.029	-.0767	.45123	.55093	-.0422
Stddev	2.9	.002	.0034	.00051	.00084	.0011
%RSD	.5494	.1617	4.463	.11274	.15277	2.527

#1	517.9	1.030	-.0743	.45159	.55033	-.0430
#2	522.0	1.027	-.0791	.45087	.55152	-.0415

Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9153	507.4	.4774	.4613	.4554	199.4
Stddev	.0008	2.4	.0074	.0009	.0060	1.1
%RSD	.0833	.4637	1.543	.1925	1.308	.5474

#1	.9147	505.7	.4722	.4606	.4512	200.2
#2	.9158	509.1	.4826	.4619	.4596	198.6

Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9448	525.6	.43184	-.0118	.8883	-.0592
Stddev	.0202	.3	.00008	.0004	.0009	.0104
%RSD	2.135	.0496	.01942	3.126	.0995	17.57

#1	.9306	525.4	.43178	-.0120	.8889	-.0666
#2	.9591	525.8	.43190	-.0115	.8877	-.0519

Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	.9393	.0269	-.0290	.4784	.9114
Stddev	.0234	.0001	.0084	.0118	.0031	.0045
%RSD	46400.	.0075	31.16	40.77	.6548	.4938

#1	.0165	.9393	.0210	-.0373	.4762	.9082
#2	-.0166	.9392	.0329	-.0206	.4806	.9146

Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

Sample Name: ICSAB Run Time: 05/25/11 12:55

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0921	-.0193	.00006	.0038	.01146	.07522
Stddev	.0264	.0012	.00066	.0243	.00074	.00016
%RSD	28.70	6.445	1119.3	630.3	6.4251	.21357
#1	-.1108	-.0185	.00052	-.0133	.01198	.07511
#2	-.0734	-.0202	-.00040	.0210	.01094	.07533
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	171.61					
Stddev	.70					
%RSD	.40835					
#1	171.11					
#2	172.10					

Method: 2011A Sample Name: ICSAB

Operator:

Comment:

Run Time: 05/25/11 12:58 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	517.3	1.025	-.0655	.44081	.53792	-.0382
Stddev	4.2	.022	.0226	.00246	.00072	.0011
%RSD	.8182	2.180	34.44	.55742	.13455	2.973

#1	514.3	1.041	-.0815	.43908	.53843	-.0390
#2	520.3	1.009	-.0496	.44255	.53741	-.0374

Check ?	None	QC Pass	None	QC Pass	QC Pass	None
Value		1.000		.50000	.50000	
Range		20.00%		20.000%	20.000%	

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.8841	503.5	.4651	.4496	.4550	194.6
Stddev	.0050	4.5	.0019	.0019	.0035	1.1
%RSD	.5698	.8967	.3997	.4250	.7677	.5528

#1	.8806	500.3	.4664	.4482	.4574	193.9
#2	.8877	506.7	.4638	.4509	.4525	195.4

Check ?	QC Pass	None	QC Pass	QC Pass	QC Pass	None
Value	1.000		.5000	.5000	.5000	
Range	20.00%		20.00%	20.00%	20.00%	

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9120	522.3	.41834	-.0146	.8652	-.0527
Stddev	.0051	.2	.00169	.0015	.0086	.0082
%RSD	.5541	.0322	.40457	10.26	.9936	15.52

#1	.9155	522.5	.41714	-.0136	.8592	-.0469
#2	.9084	522.2	.41954	-.0157	.8713	-.0584

Check ?	QC Pass	None	QC Pass	None	QC Pass	None
Value	1.000		.50000		1.000	
Range	20.00%		20.000%		20.00%	

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0243	.9320	.0274	-.0175	.4734	.8866
Stddev	.0137	.0008	.0015	.0162	.0001	.0124
%RSD	56.45	.0904	5.476	92.69	.0118	1.398

#1	-.0146	.9314	.0284	-.0060	.4734	.8778
#2	-.0341	.9326	.0263	-.0289	.4735	.8954

Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

WS 5/25/11

Sample Name: ICSAB Run Time: 05/25/11 12:58

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1095	-.0143	-.00006	.0355	.01103	.07364
Stddev	.0052	.0002	.00019	.0193	.00036	.00023
%RSD	4.751	1.528	293.89	54.27	3.2550	.31367

#1	-.1058	-.0142	.00007	.0492	.01078	.07380
#2	-.1132	-.0145	-.00020	.0219	.01129	.07347

Check ?	None	None	None	None	None	None
Value						
Range						

Int. Std.	Sc3572
Units	Cts/S
Avg	175.32
Stddev	.21
%RSD	.11741

#1	175.18
#2	175.47

WS
5/25/11

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/25/11 13:01 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.117	.0016	-.0018	2.5216	.05064	-.0024
Stddev	.018	.0040	.0000	.0023	.00008	.0015
%RSD	.3624	246.0	.2165	.09120	.16627	63.24
#1	5.130	-.0012	-.0018	2.5232	.05070	-.0035
#2	5.104	.0045	-.0018	2.5199	.05058	-.0013
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	25.52	.0020	.0014	-.0013	25.36
Stddev	.0002	.21	.0005	.0011	.0049	.05
%RSD	8.519	.8327	25.91	80.34	376.7	.1844
#1	.0019	25.37	.0024	.0022	-.0047	25.40
#2	.0021	25.67	.0016	.0006	.0022	25.33
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0092	25.23	5.057	-.0028	-.0018	10.06
Stddev	.0126	.02	.013	.0020	.0001	.02
%RSD	136.7	.0672	.2560	70.68	4.905	.2287
#1	.0003	25.24	5.066	-.0042	-.0019	10.07
#2	.0181	25.22	5.048	-.0014	-.0017	10.04
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126	-.0027	9.885	.0117	.0022	.0008
Stddev	.0110	.0016	.016	.0001	.0004	.0010
%RSD	87.38	59.58	.1587	1.132	18.89	130.5
#1	.0203	-.0038	9.896	.0118	.0025	.0015
#2	.0048	-.0015	9.874	.0116	.0019	.0001
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/25/11 13:01

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.04	2.541	.00194	-.0110	.50358	.50300
Stddev	.00	.000	.00174	.0307	.00098	.00137
%RSD	.0451	.0001	89.479	279.4	.19502	.27241
#1	10.04	2.541	.00317	.0107	.50427	.50397
#2	10.05	2.541	.00071	-.0327	.50288	.50203
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.47					
Stddev	.60					
%RSD	.32571					
#1	183.05					
#2	183.90					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/25/11 13:04 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4960	2.434	2.433	.46894	.56590	.5018
Stddev	.0293	.009	.005	.00124	.00082	.0032
%RSD	5.916	.3778	.1991	.26457	.14427	.6451
#1	.5168	2.440	2.436	.46806	.56648	.4995
#2	.4753	2.427	2.430	.46982	.56533	.5041
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4983	2.493	.4920	.4969	.5030	.5039
Stddev	.0028	.006	.0029	.0009	.0005	.0063
%RSD	.5528	.2406	.5868	.1777	.0897	1.259
#1	.4964	2.488	.4899	.4963	.5033	.5084
#2	.5003	2.497	.4940	.4975	.5027	.4994
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.467	1.9816	1.0023	.9785	.4948	5.188
Stddev	.012	.0006	.0031	.0001	.0009	.050
%RSD	.4747	.02950	.31178	.0062	.1811	.9618
#1	2.459	1.9820	1.0001	.9784	.4942	5.153
#2	2.476	1.9812	1.0045	.9785	.4954	5.223
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.417	.4999	.5118	2.412	.5003	.4953
Stddev	.022	.0085	.0123	.037	.0023	.0051
%RSD	.9276	1.695	2.398	1.539	.4665	1.037
#1	2.401	.4939	.5031	2.385	.4986	.4916
#2	2.433	.5059	.5205	2.438	.5019	.4989
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 05/25/11 13:04

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0294	.8659	.49555	4.859	.52187	.50965
Stddev	.0123	.0007	.00039	.030	.00212	.00122
%RSD	41.70	.0826	.07916	.6099	.40593	.23905
#1	.0381	.8654	.49528	4.838	.52038	.50879
#2	.0207	.8664	.49583	4.880	.52337	.51051
Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.90					
Stddev	.52					
%RSD	.27866					
#1	184.53					
#2	185.26					

Method: 2011A Sample Name: CCB

Operator:

Comment:

Run Time: 05/25/11 13:07 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0321	.0045	-.0051	.00035	.00020	.0004
Stddev	.0027	.0016	.0033	.00035	.00006	.0004
%RSD	8.428	35.12	64.54	99.717	31.290	91.47

#1	.0340	.0034	-.0028	.00010	.00024	.0007
#2	.0302	.0056	-.0075	.00060	.00015	.0002

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0000	-.0007	.0025	-.0002	.0046
Stddev	.0004	.0030	.0017	.0009	.0032	.0004
%RSD	144.7	139800.	250.8	37.58	2064.	7.567

#1	-.0006	-.0021	.0005	.0018	-.0024	.0049
#2	.0000	.0021	-.0019	.0032	.0021	.0044

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0020	.00443	.00069	.0000	.0028	-.0228
Stddev	.0065	.00011	.00002	.0016	.0015	.0110
%RSD	324.8	2.3978	2.7818	19140.	54.75	48.54

#1	-.0026	.00450	.00070	.0011	.0017	-.0306
#2	.0066	.00435	.00067	-.0011	.0039	-.0149

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0010	.0010	-.0089	.0095	.0028	-.0005
Stddev	.0055	.0004	.0029	.0048	.0009	.0005
%RSD	567.1	40.45	32.06	49.89	31.78	102.0

#1	.0048	.0013	-.0110	.0062	.0035	-.0009
#2	-.0029	.0007	-.0069	.0129	.0022	-.0001

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 05/25/11 13:07

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0184	.0035	.00128	-.0117	.00023	.00027
Stddev	.0019	.0013	.00117	.0080	.00039	.00003
%RSD	10.57	37.11	91.893	68.67	167.60	10.096
#1	.0170	.0026	.00211	-.0174	-.00004	.00025
#2	.0198	.0044	.00045	-.0060	.00051	.00029
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000
Int. Std.	Sc3572					
Units	Cts/S					
Avg	181.11					
Stddev	1.51					
%RSD	.83123					
#1	182.18					
#2	180.05					

Method: 2011A Sample Name: LCSW, K1104448 1/10 Operator:
 Comment: 052511A
 Run Time: 05/25/11 13:11 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4830	.2201	.1952	.46528	.01288	.0929
#1	.4726	.2195	.2022	.46177	.01293	.0932
#2	.4935	.2207	.1882	.46880	.01284	.0926
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1201	1.194	.0468	.1227	.0558	.2439
#1	.1189	1.183	.0462	.1219	.0559	.2429
#2	.1212	1.206	.0474	.1234	.0558	.2450
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2200	1.2618	.11732	.0883	.1238	1.288
#1	.2145	1.2641	.11677	.0865	.1237	1.314
#2	.2254	1.2595	.11786	.0900	.1239	1.261
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2103	.0604	1.216	.0029	.1203	.1198
#1	.2006	.0573	1.221	.0013	.1194	.1192
#2	.2200	.0635	1.212	.0045	.1212	.1205
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0082	.0012	-.00069	.1799	1.0510	1.0115
#1	.0112	.0034	-.00207	.1888	1.0529	1.0098
#2	.0052	-.0010	.00069	.1709	1.0491	1.0132
Int. Std.	Sc3572					
Units	Cts/S					
Avg	186.03					
#1	186.50					
#2	185.57					

Method: 2011A Sample Name: K1104448-001S 1/10 Operator:
 Comment: 052511A
 Run Time: 05/25/11 13:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2040	.0480	.0759	.19188	.00506	.0974
#1	.2115	.0452	.0763	.19498	.00519	.0988
#2	.1965	.0508	.0754	.18878	.00493	.0961
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	5.432	.0179	.0498	.0223	.1062
#1	.0050	5.470	.0181	.0504	.0234	.1075
#2	.0040	5.394	.0177	.0492	.0211	.1049
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0428	1.2026	.04688	.0894	.0500	1.271
#1	.0492	1.2118	.04765	.0915	.0530	1.268
#2	.0365	1.1934	.04611	.0873	.0470	1.274
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0959	.0020	1.230	.0038	.0479	.0470
#1	.0842	.0052	1.257	.0054	.0486	.0480
#2	.1075	-.0012	1.203	.0023	.0471	.0460
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0004	.1558	-.00106	.0705	1.0836	1.0395
#1	.0200	.1549	.00042	.0662	1.0961	1.0580
#2	-.0207	.1567	-.00254	.0747	1.0712	1.0210
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.95					
#1	183.26					
#2	186.63					

Method:	2011A	Sample Name:	RB	Operator:	
Comment:	052511A				
Run Time:	05/25/11 13:17	Type:	Unk	Mode:	CONC
				Corr.Fact:	1.000000
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0086	-.0046	-.0033	-.00053	.00002
#1	-.0001	-.0080	-.0075	-.00060	.00006
#2	-.0171	-.0012	.0009	-.00046	-.00001
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0006	-.0002	-.0045	.0013	.0012
#1	.0010	.0000	-.0068	.0019	.0016
#2	.0003	-.0003	-.0021	.0008	.0009
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0011	-.0032	.0040	-.00049	-.00046
#1	.0013	-.0030	.0016	-.00049	-.00043
#2	.0009	-.0035	.0065	-.00049	-.00048
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0016	-.0173	-.0097	-.0013
#1	-.0023	.0012	-.0387	-.0145	-.0024
#2	-.0007	.0021	.0041	-.0048	-.0001
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0038	.0009	.0016	.0000	.0041
#1	.0031	.0092	.0005	-.0003	.0041
#2	.0044	-.0074	.0028	.0002	.0040
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0031	.00125	-.0488	.00035	.00005
#1	.0015	.00159	-.0542	.00062	.00016
#2	.0048	.00092	-.0434	.00008	-.00007
Int. Std.	Sc3572				
Units	Cts/S				
Avg	181.82				
#1	182.31				
#2	181.34				

Method: 2011A Sample Name: K1103574-008 Operator:
 Comment: 052511A
 Run Time: 05/25/11 13:20 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0066	-.0040	-.0116	-.00054	-.00001	.0008
#1	.0132	-.0068	-.0168	-.00029	.00001	.0008
#2	.0000	-.0011	-.0065	-.00080	-.00003	.0008
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.0111	.0015	.0012	-.0001	.0152
#1	.0005	.0134	.0025	.0016	.0004	.0144
#2	-.0003	.0087	.0004	.0008	-.0005	.0160
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	.00036	-.00031	-.0011	.0027	.0111
#1	.0000	.00029	-.00031	-.0018	.0020	.0299
#2	.0047	.00042	-.00032	-.0003	.0034	-.0078
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0126	.0028	.0724	-.0036	.0011	.0010
#1	-.0184	.0052	.0760	-.0052	.0031	.0015
#2	-.0068	.0004	.0687	-.0020	-.0009	.0004
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0017	.2660	-.00046	-.0157	.00000	-.00007
#1	-.0012	.2657	-.00216	-.0371	.00008	-.00008
#2	-.0023	.2663	.00124	.0058	-.00008	-.00007
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.95					
#1	185.36					
#2	184.54					

Method: 2011A Sample Name: K1103574-006 1/100 Operator:
 Comment: 052511A
 Run Time: 05/25/11 13:23 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0189	-.0034	.0023	.00449	-.00001	-.0008
#1	.0245	-.0023	.0149	.00466	.00002	-.0007
#2	.0132	-.0045	-.0102	.00431	-.00005	-.0009
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0001	1.642	-.0009	.0012	.0013	.0071
#1	.0001	1.646	-.0016	.0025	.0038	.0066
#2	-.0003	1.638	-.0002	.0000	-.0012	.0075
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0079	.48317	-.00055	-.0019	.0023	.3016
#1	-.0092	.48278	-.00064	-.0023	.0032	.2933
#2	-.0065	.48356	-.00046	-.0016	.0015	.3098
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0194	.0010	2.740	.0072	-.0005	-.0002
#1	.0242	-.0010	2.747	.0078	.0025	.0000
#2	.0145	.0029	2.734	.0066	-.0036	-.0004
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0014	.2298	.00100	-.0208	.00034	.00900
#1	-.0098	.2278	.00203	-.0216	.00038	.00902
#2	.0070	.2319	-.00002	-.0200	.00030	.00899
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.42					
#1	181.70					
#2	185.14					

Method: 2011A Sample Name: K1103574-007 1/100 Operator:
 Comment: 052511A
 Run Time: 05/25/11 13:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0283	.0039	-.0019	.00331	-.00009	-.0018
#1	.0170	.0045	-.0028	.00332	-.00007	-.0014
#2	.0397	.0034	-.0009	.00330	-.00011	-.0022
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	3.108	-.0006	.0021	.0006	.0065
#1	-.0008	3.095	-.0002	.0030	.0034	.0063
#2	-.0010	3.121	-.0011	.0013	-.0021	.0067
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0000	.95559	.00007	-.0019	.0011	.5249
#1	-.0089	.95056	.00007	-.0024	.0006	.5289
#2	.0089	.96061	.00006	-.0015	.0016	.5210
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0068	-.0014	2.537	.0095	-.0021	-.0005
#1	-.0048	.0018	2.473	.0111	-.0037	-.0011
#2	-.0087	-.0046	2.601	.0080	-.0005	.0002
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0101	.2314	.00100	-.0339	.00069	.01787
#1	-.0116	.2315	-.00034	-.0289	.00039	.01750
#2	-.0086	.2313	.00233	-.0390	.00100	.01824
Int. Std.	Sc3572					
Units	Cts/S					
Avg	184.73					
#1	188.43					
#2	181.03					

Method: 2011A Sample Name: RB

Operator:

Comment: 052511A

Run Time: 05/25/11 13:30 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0094	-.0051	-.0163	-.00021	.00006	-.0006
#1	-.0019	-.0102	-.0261	-.00022	.00003	-.0002
#2	.0207	.0000	-.0065	-.00021	.00008	-.0010
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	-.0056	-.0001	.0006	-.0031	-.0030
#1	.0001	-.0083	-.0004	.0010	-.0054	-.0027
#2	.0003	-.0029	.0002	.0003	-.0009	-.0033
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0010	-.00074	-.00059	-.0014	.0011	.0141
#1	-.0036	-.00073	-.00072	-.0020	.0001	.0252
#2	.0016	-.00074	-.00045	-.0008	.0021	.0031
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0223	.0011	.0095	.0031	.0008	.0000
#1	.0242	.0021	.0051	.0059	.0024	.0008
#2	.0203	.0001	.0138	.0002	-.0007	-.0008
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0084	.0035	.00053	-.0057	.00005	-.00011
#1	.0026	.0040	.00143	-.0197	-.00035	-.00006
#2	-.0195	.0030	-.00038	.0083	.00046	-.00016
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.30					
#1	183.48					
#2	183.12					

Method: 2011A Sample Name: K1104518-MB Operator:
 Comment: 052511A
 Run Time: 05/25/11 13:33 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0028	-.0079	.0023	-.00017	-.00006	.0000
#1	-.0113	-.0068	-.0102	-.00018	.00000	.0004
#2	.0170	-.0091	.0149	-.00016	-.00011	-.0005
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0012	-.0010	-.0008	.0012	-.0018	.0045
#1	.0008	-.0083	-.0009	.0014	-.0012	.0044
#2	.0015	.0064	-.0008	.0010	-.0024	.0047
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	-.00075	-.00060	-.0034	.0016	.0031
#1	.0039	-.00067	-.00067	-.0041	.0021	-.0095
#2	-.0046	-.00084	-.00052	-.0028	.0011	.0156
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0165	-.0033	-.0010	.0098	-.0008	.0008
#1	.0126	-.0057	-.0023	.0107	-.0005	.0014
#2	.0203	-.0010	.0004	.0090	-.0012	.0002
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0124	.0356	.00053	-.0003	.00027	-.00007
#1	.0044	.0365	.00217	-.0045	.00034	-.00008
#2	.0204	.0348	-.00111	.0039	.00019	-.00006
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.35					
#1	183.02					
#2	183.67					

Method: 2011A Sample Name: LCSW, K1104518 Operator:
 Comment: 052511A
 Run Time: 05/25/11 13:36 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.111	2.394	2.428	4.9568	.12746	.9420

#1	5.066	2.359	2.452	4.9802	.12763	.9428
#2	5.157	2.430	2.405	4.9334	.12729	.9412

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.160	12.70	.4862	1.195	.6080	2.311

#1	1.162	12.65	.4845	1.200	.6048	2.315
#2	1.157	12.75	.4879	1.190	.6112	2.307

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.333	12.85	1.2024	.9361	1.184	12.73

#1	2.338	12.82	1.2028	.9377	1.185	12.70
#2	2.329	12.88	1.2019	.9345	1.183	12.76

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.383	.6036	12.01	.0036	1.193	1.182

#1	2.363	.6049	12.02	.0007	1.196	1.182
#2	2.402	.6023	12.00	.0066	1.191	1.182

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0625	.0143	-.00037	2.300	-.00003	.00557

#1	.0518	.0128	.00021	2.293	-.00029	.00554
#2	.0731	.0158	-.00094	2.308	.00023	.00559

Int. Std.	Sc3572
Units	Cts/S
Avg	188.09

#1	187.49
#2	188.69

Method: 2011A Sample Name: K1104518-002 Operator:
 Comment: 052511A
 Run Time: 05/25/11 13:39 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0426	-.0017	.0149	.04970	-.00009	.2115
#1	.0606	.0001	.0046	.04967	-.00008	.2098
#2	.0245	-.0034	.0252	.04973	-.00009	.2132
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0023	37.92	.0023	.0061	-.0021	24.37
#1	.0022	37.72	.0020	.0064	-.0009	24.32
#2	.0023	38.13	.0025	.0059	-.0034	24.43
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	16.20	2.1664	.0028	.0103	10.01
#1	-.0052	16.23	2.1627	.0036	.0100	10.04
#2	.0022	16.17	2.1701	.0020	.0106	9.978
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0126	-.0018	18.11	.0127	.0019	.0031
#1	.0087	-.0011	18.11	.0171	.0011	.0032
#2	.0165	-.0025	18.12	.0084	.0027	.0029
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.116	29.88	.00029	.0274	.00095	.26525
#1	5.085	29.78	-.00252	.0454	.00104	.26555
#2	5.147	29.99	.00309	.0093	.00087	.26495
Int. Std.	Sc3572					
Units	Cts/S					
Avg	187.22					
#1	186.99					
#2	187.44					

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 05/25/11 13:42 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.118	.0073	-.0004	2.5278	.05075	-.0014
Stddev	.009	.0136	.0020	.0348	.00043	.0013
%RSD	.1865	185.9	543.2	1.3779	.85302	95.43
#1	5.125	-.0023	-.0018	2.5032	.05044	-.0023
#2	5.111	.0169	.0010	2.5524	.05105	-.0004
Check ?	QC Pass	None	None	QC Pass	QC Pass	None
Value	5.000			2.5000	.05000	
Range	10.00%			10.000%	10.000%	
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2714
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0019	25.73	.0021	.0006	-.0032	25.68
Stddev	.0009	.23	.0011	.0000	.0001	.16
%RSD	46.37	.8818	54.73	4.634	3.532	.6285
#1	.0013	25.57	.0013	.0006	-.0033	25.56
#2	.0025	25.89	.0029	.0006	-.0032	25.79
Check ?	None	QC Pass	None	None	None	QC Pass
Value		25.00				25.00
Range		10.00%				10.00%
Elem	Pb2203	Mg2025	Mn2939	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0017	25.60	5.110	-.0027	-.0018	10.12
Stddev	.0007	.15	.043	.0006	.0004	.05
%RSD	42.34	.5833	.8442	23.83	20.10	.4775
#1	.0012	25.49	5.079	-.0022	-.0016	10.08
#2	.0022	25.70	5.140	-.0031	-.0021	10.15
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		25.00	5.000			10.00
Range		10.00%	10.00%			10.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0106	-.0022	10.07	.0049	.0015	.0011
Stddev	.0082	.0030	.06	.0006	.0029	.0010
%RSD	77.50	131.5	.6282	12.79	188.9	95.52
#1	.0165	-.0043	10.03	.0054	.0035	.0018
#2	.0048	-.0002	10.12	.0045	-.0005	.0004
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 05/25/11 13:42

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.12	2.578	.00108	.0202	.50614	.50711
Stddev	.04	.012	.00079	.0017	.00453	.00275
%RSD	.4180	.4775	73.094	8.629	.89471	.54193
#1	10.09	2.569	.00052	.0190	.50294	.50517
#2	10.15	2.587	.00164	.0215	.50934	.50905
Check ?	QC Pass	QC Pass	None	None	QC Pass	QC Pass
Value	10.00	2.500			.50000	.50000
Range	10.00%	10.00%			10.000%	10.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.61					
Stddev	.57					
%RSD	.30860					
#1	184.01					
#2	183.21					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 05/25/11 13:45 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5198	2.443	2.473	.47204	.57040	.5042
Stddev	.0013	.012	.040	.00188	.00286	.0005
%RSD	.2548	.4868	1.623	.39764	.50215	.1049
#1	.5189	2.434	2.445	.47071	.57243	.5039
#2	.5208	2.451	2.502	.47337	.56838	.5046
Check ?	None	QC Pass	QC Pass	None	None	QC Pass
Value		2.500	2.500			.5000
Range		10.00%	10.00%			10.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.5036	2.528	.4945	.4993	.5040	.5150
Stddev	.0037	.012	.0032	.0022	.0003	.0100
%RSD	.7317	.4752	.6561	.4439	.0528	1.942
#1	.5010	2.520	.4922	.4977	.5039	.5221
#2	.5063	2.537	.4968	.5009	.5042	.5079
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.5000	2.500	.5000	.5000	.5000	.5000
Range	10.00%	10.00%	10.00%	10.00%	10.00%	10.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.463	1.9878	1.0041	.9846	.5004	5.220
Stddev	.007	.0012	.0075	.0062	.0066	.002
%RSD	.2757	.06259	.74265	.6319	1.321	.0434
#1	2.458	1.9869	1.0094	.9802	.4957	5.219
#2	2.467	1.9886	.99883	.9890	.5051	5.222
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	None
Value	2.500	2.0000	1.0000	1.000	.5000	
Range	10.00%	10.000%	10.000%	10.00%	10.00%	
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.442	.4987	.5128	2.453	.5059	.4995
Stddev	.026	.0057	.0022	.009	.0009	.0026
%RSD	1.063	1.152	.4277	.3710	.1863	.5137
#1	2.423	.4946	.5112	2.447	.5052	.4976
#2	2.460	.5028	.5143	2.460	.5066	.5013
Check ?	QC Pass	QC Pass	None	QC Pass	QC Pass	QC Pass
Value	2.500	.5000		2.500	.5000	.5000
Range	10.00%	10.00%		10.00%	10.00%	10.00%

Sample Name: CCVA Run Time: 05/25/11 13:45

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0562	.8708	.49587	4.880	.52563	.51231
Stddev	.0048	.0102	.00251	.009	.00172	.00284
%RSD	8.556	1.170	.50587	.1775	.32710	.55365

#1	.0596	.8636	.49765	4.886	.52684	.51432
#2	.0528	.8780	.49410	4.873	.52441	.51031

Check ?	None	None	QC Pass	QC Pass	None	None
Value			.50000	5.000		
Range			10.000%	10.00%		

Int. Std.	Sc3572
Units	Cts/S
Avg	185.25
Stddev	.37
%RSD	.19940

#1	184.99
#2	185.51

Method: 2011A Sample Name: CCB Operator:
 Comment:
 Run Time: 05/25/11 13:48 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0321	.0040	-.0075	.00034	.00023	-.0005
Stddev	.0080	.0183	.0000	.00006	.00003	.0006
%RSD	25.00	459.9	.0374	16.872	12.965	116.2
#1	.0264	-.0090	-.0075	.00038	.00021	-.0001
#2	.0378	.0169	-.0074	.00030	.00025	-.0009
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.00000	.00000	.0000
Range	±.0500	±.0500	±.1000	±.00500	±.00500	±.0500
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0003	.0068	-.0009	.0020	-.0014	.0039
Stddev	.0004	.0038	.0003	.0004	.0048	.0007
%RSD	141.9	56.56	32.26	22.35	337.9	19.15
#1	.0000	.0095	-.0012	.0023	-.0048	.0044
#2	-.0006	.0041	-.0007	.0017	.0020	.0034
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.0050	±.0500	±.0050	±.0100	±.0100	±.0200
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0023	.00413	.00097	.0011	.0010	-.0083
Stddev	.0044	.00002	.00016	.0023	.0000	.0132
%RSD	193.7	.54045	16.294	210.6	.5130	159.0
#1	-.0054	.00414	.00108	.0027	.0010	.0010
#2	.0008	.00411	.00085	-.0005	.0010	-.0177
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.00000	.00000	.0000	.0000	.0000
Range	±.0500	±.02000	±.00500	±.0100	±.0200	±.4000
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0019	.0003	.0058	.0082	-.0001	-.0009
Stddev	.0014	.0041	.0059	.0057	.0004	.0003
%RSD	70.78	1491.	101.7	69.38	411.9	28.47
#1	-.0010	-.0026	.0016	.0042	-.0004	-.0007
#2	-.0029	.0032	.0100	.0123	.0002	-.0011
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.0000	.0000	.0000	.0000
Range	±.1000	±.0100	±.2000	±.0500	±.0100	±.0100

Sample Name: CCB Run Time: 05/25/11 13:48

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0063	.0002	.00065	-.0237	.00073	.00017
Stddev	.0066	.0010	.00059	.0032	.00006	.00006
%RSD	103.7	408.4	90.470	13.48	8.1446	37.145

#1	-.0110	.0010	.00023	-.0259	.00069	.00022
#2	-.0017	-.0005	.00106	-.0214	.00078	.00013

Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0000	.0000	.00000	.0000	.00000	.00000
Range	±.2000	±.2000	±.01000	±.2000	±.01000	±.01000

Int. Std.	Sc3572
Units	Cts/S
Avg	180.91
Stddev	.68
%RSD	.37623

#1	181.39
#2	180.43

Method: 2011A Sample Name: LLCCV Operator:
 Comment:
 Run Time: 05/25/11 13:52 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	Q .0746	.0469	.0740	.00452	.00527
Stddev	.0014	.0088	.0060	.00034	.00007
%RSD	1.918	18.83	8.089	7.5702	1.3859
#1	.0756	.0531	.0783	.00428	.00532
#2	.0736	.0406	.0698	.00476	.00522
Check ?	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

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Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0495	.0052	.0405	.0038	.0119
Stddev	.0018	.0004	.0022	.0003	.0007
%RSD	3.613	7.909	5.454	6.700	5.843
#1	.0483	.0049	.0390	.0037	.0124
#2	.0508	.0055	.0421	.0040	.0114
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0050	.0500	.0050	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0118	.0234	.0512	.01721	.00463
Stddev	.0010	.0000	.0076	.00002	.00015
%RSD	8.430	.0602	14.87	.14504	3.1438
#1	.0125	.0234	.0565	.01723	.00473
#2	.0111	.0234	.0458	.01719	.00453
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.0500	.02000	.00500
Range	30.00%	30.00%	30.00%	30.000%	30.000%

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0087	.0217	.3911	.0756	.0081
Stddev	.0016	.0007	.0348	.0014	.0014
%RSD	18.09	3.419	8.892	1.855	17.13
#1	.0099	.0222	.3665	.0765	.0071
#2	.0076	.0212	.4156	.0746	.0091
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0100	.0200	.4000	.1000	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLCCV Run Time: 05/25/11 13:52

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.2108	.0518	.0108	.0104	.2086
Stddev	.0009	.0017	.0031	.0002	.0130
%RSD	.4199	3.244	28.70	1.764	6.211
#1	.2114	.0506	.0086	.0105	.1995
#2	.2102	.0530	.0130	.0102	.2178
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.0500	.0100	.0100	.2000
Range	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.4457	.00956	Q .0521	.01053	.00965
Stddev	.0046	.00138	.0049	.00069	.00006
%RSD	1.031	14.440	9.418	6.5694	.59881
#1	.4425	.00858	.0556	.01004	.00969
#2	.4490	.01053	.0486	.01102	.00961
Check ?	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572				
Units	Cts/S				
Avg	180.01				
Stddev	.34				
%RSD	.18851				
#1	179.77				
#2	180.25				

Method: 2011A Sample Name: LLCCV

Operator:

Comment:

Run Time: 05/25/11 13:55 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0482	.0406	Q .0699	.00435	.00503	.0491
Stddev	.0120	.0000	.0224	.00022	.00006	.0009
%RSD	24.84	.0660	32.09	4.9389	1.1335	1.735
#1	.0567	.0407	.0540	.00420	.00499	.0497
#2	.0397	.0406	.0857	.00451	.00507	.0485
Check ?	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	30.00%	30.00%	30.000%	30.000%	30.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0045	.0368	.0042	.0126	.0107	.0224
Stddev	.0001	.0030	.0014	.0000	.0004	.0003
%RSD	2.078	8.197	33.06	.0052	4.140	1.208
#1	.0045	.0347	.0032	.0126	.0104	.0222
#2	.0046	.0390	.0051	.0126	.0110	.0226
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0503	.01658	.00423	.0072	.0216	.4197
Stddev	.0071	.00032	.00007	.0013	.0007	.0401
%RSD	14.06	1.9553	1.5762	17.78	3.208	9.546
#1	.0553	.01635	.00428	.0081	.0211	.4480
#2	.0453	.01681	.00418	.0063	.0221	.3913
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	30.00%	30.000%	30.000%	30.00%	30.00%	30.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0911	Q .0040	.1967	.0481	.0082	.0097
Stddev	.0096	.0012	.0064	.0009	.0015	.0009
%RSD	10.51	29.27	3.247	1.836	17.99	9.229
#1	.0978	.0049	.2013	.0488	.0092	.0091
#2	.0843	.0032	.1922	.0475	.0071	.0103
Check ?	QC Pass	QC Fail	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%

Sample Name: LLCCV Run Time: 05/25/11 13:55

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2004	.4466	.01067	Q .0608	.01091	.00940
Stddev	.0065	.0045	.00039	.0008	.00077	.00007
%RSD	3.240	1.007	3.6354	1.267	7.0702	.75884
#1	.2049	.4498	.01095	.0602	.01036	.00945
#2	.1958	.4434	.01040	.0613	.01146	.00935
Check ?	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.2000	.4000	.01000	.1000	.01000	.01000
Range	30.00%	30.00%	30.000%	30.00%	30.000%	30.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	183.79					
Stddev	1.30					
%RSD	.70676					
#1	182.87					
#2	184.71					