

February 23, 2011

Analytical Report for Service Request No: K1100661

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 January 25, 2011. For your reference, these analyses have been assigned our service request number K1100661.

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/ln

Page 1 of 419

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

Program	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 - DHS	WA200001
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.: K1100661
Date Received: 1/25/11

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 IV validation deliverables including summary forms and all of the associated raw data for each of the analyses. When appropriate to the method, method blank results have been reported with each analytical test.

Sample Receipt

Seven water samples were received for analysis at Columbia Analytical Services on 1/25/11. 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

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

Dissolved Metals

Matrix Spike Recovery Exceptions:

The control criteria for matrix spike recovery of Calcium 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



Date

2/23/11

Chain of Custody

PROJECT NAME <u>Heglar Kongquist</u>					NUMBER OF CONTAINERS	Semi-volatile Organics by GC/MS 625 <input type="checkbox"/> 8270 <input type="checkbox"/> 8270LL <input type="checkbox"/> Volatile Organics 624 <input type="checkbox"/> 8280 <input type="checkbox"/> Hydrocarbons Gas <input type="checkbox"/> 8021 <input type="checkbox"/> Fuel Diesel <input type="checkbox"/> BTEX <input type="checkbox"/> Oil <input type="checkbox"/> Oil & Grease/TPRH 1664 HEM <input type="checkbox"/> 1664 SGT <input type="checkbox"/> PCBs Aroclors <input type="checkbox"/> Pesticides/Herbicides 608 <input type="checkbox"/> 8081A <input type="checkbox"/> Chlorophenolics Tri <input type="checkbox"/> Tetra <input type="checkbox"/> 8141A <input type="checkbox"/> 8151A <input type="checkbox"/> PAHS 8310 <input type="checkbox"/> SIM <input type="checkbox"/> Metals, Total of Dissolved (See list below) Cyanide <input type="checkbox"/> pH Cond NO ₃ <input type="checkbox"/> NO ₂ <input type="checkbox"/> PO ₄ <input type="checkbox"/> FNO ₂ <input type="checkbox"/> NH ₃ -N <input type="checkbox"/> COD <input type="checkbox"/> Total-P <input type="checkbox"/> TKN <input type="checkbox"/> TOC <input type="checkbox"/> DOC (circle) <input type="checkbox"/> NO ₂ +NO ₃ <input type="checkbox"/> alkalinity
PROJECT NUMBER <u>0907194.008.0901</u>						
PROJECT MANAGER <u>Melissa Kleven</u>						
COMPANY/ADDRESS <u>15375 SE 30th Pl Suite 250</u>						
CITY/STATE/ZIP <u>Belleuve, WA 98007</u>						
E-MAIL ADDRESS <u>mkleven@exponent.com</u>						
PHONE # <u>25-519-8774</u> FAX # <u>25-519-8799</u>						
SAMPLER'S SIGNATURE <u>[Signature] Keri Whetter</u>						
SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	REMARKS	
<u>mw-1</u>	<u>1/24/11</u>	<u>1315</u>		<u>L 5</u>	<u>run</u>	
<u>mw-2</u>	<u>1/24/11</u>	<u>910</u>		<u>L 5</u>	<u>NO₃ and NO₂</u>	
<u>mw-4</u>	<u>1/24/11</u>	<u>1500</u>		<u>L 5</u>	<u>ASAP</u>	
<u>mw-5</u>	<u>1/23/11</u>	<u>1450</u>		<u>L 5</u>	<u>within</u>	
<u>mw-6</u>	<u>1/23/11</u>	<u>1215</u>		<u>L 5</u>	<u>48-hr hold time</u>	
<u>EB-012311</u>	<u>1/23/11</u>	<u>1745</u>		<u>L 5</u>	<u>time</u>	
<u>EB-012411</u>	<u>1/24/11</u>	<u>1553</u>		<u>L 5</u>		

REPORT REQUIREMENTS <input type="checkbox"/> I. Routine Report: Method Blank, Surrogate, as required <input type="checkbox"/> II. Report Dup., MS, MSD as required <input checked="" type="checkbox"/> III. Data Validation Report (includes all raw data) <input type="checkbox"/> IV. CLP Deliverable Report <input checked="" type="checkbox"/> V. EDD	INVOICE INFORMATION P.O. # _____ Bill To: <u>same as above</u>	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: <u>(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)</u>
	TURNAROUND REQUIREMENTS <input type="checkbox"/> 24 hr. <input type="checkbox"/> 48 hr. <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> Standard (10-15 working days) <input type="checkbox"/> Provide FAX Results Requested Report Date _____	*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE) SPECIAL INSTRUCTIONS/COMMENTS: <u>- 500 mL w/ H₂SO₄, 1 L unpreserved, and 500 mL w/ HNO₃ are field-filtered</u>

RELINQUISHED BY: <u>[Signature]</u> <u>1/24/11 1730</u> Signature Date/Time <u>Keri Whetter</u> <u>Exponent</u> Printed Name Firm	RECEIVED BY: <u>[Signature]</u> <u>1/25/11 0840</u> Signature Date/Time <u>SHOPKINS</u> <u>CAS</u> Printed Name Firm	RELINQUISHED BY: Signature _____ Date/Time _____ Printed Name _____ Firm _____	RECEIVED BY: Signature _____ Date/Time _____ Printed Name _____ Firm _____
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**Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form**

PC MS

Client / Project: Exponent Service Request K11 0661
 Received: 1/25/11 Opened: 1/25/11 By: SJL Unloaded: 1/25/11 By: SJL

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
-0.6	2.1	297			7455 3633 8852		
0.7	2.0	306			8684 6000 9294		

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: _____

General Chemistry Parameters

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/24/2011
Date Received: 1/25/2011

Chloride, Dissolved

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	K1100661-001	2.0	0.3	10	1/25/2011	70.7	
MW-2	K1100661-002	2.0	0.3	10	1/26/2011	55.6	
MW-4	K1100661-003	20	3	100	1/25/2011	445	
MW-5	K1100661-004	1.0	0.2	5	1/25/2011	17.9	
MW-6	K1100661-005	1.0	0.2	5	1/25/2011	19.0	
EB-012311	K1100661-006	0.40	0.06	2	1/25/2011	0.38	
EB-012411	K1100661-007	0.40	0.06	2	1/25/2011	0.11	
Method Blank	K1100661-MB	0.20	0.03	1	1/25/2011	ND	
Method Blank	K1100661-MB	0.20	0.03	1	1/26/2011	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
 Date Collected: NA
 Date Received: NA
 Date Extracted: NA
 Date Analyzed: 1/26/2011

Duplicate Summary
 Inorganic Parameters

Sample Name: Batch QC
 Lab Code: K1100699-001DUP
 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
Chloride, Dissolved	NONE	300.0	0.40	13.9	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: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Matrix Spike Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
 Lab Code: K1100699-001MS Basis: NA
 Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery	
Chloride, Dissolved	NONE	300	0.40	17.5	13.9	17.7	90	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
 Lab Code: K1100661-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	
Chloride, Dissolved	NONE	300	5.00	4.73	95	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
 Project: Heglar Kronquist/0907194.000.0901

Service Request: K1100661
 Date Collected: NA
 Date Received: NA
 Date Analyzed: 1/25/2011

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

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	4.68	94
CCV 2 Result	5.00	4.68	94
CCV 3 Result	5.00	4.66	93
CCV 4 Result	5.00	4.70	94
CCV 5 Result	5.00	4.68	94
CCV 6 Result	5.00	4.72	94
CCV 7 Result	5.00	4.72	94
CCV 8 Result	5.00	4.75	95
CCV 9 Result	5.00	4.72	94
CCV 10 Result	5.00	4.79	96
CCV 11 Result	5.00	4.79	96
CCV 12 Result	5.00	4.75	95
CCV 13 Result	5.00	4.79	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
CCB 6 Result	0.20	ND
CCB 7 Result	0.20	ND
CCB 8 Result	0.20	ND
CCB 9 Result	0.20	ND
CCB 10 Result	0.20	ND
CCB 11 Result	0.20	ND
CCB 12 Result	0.20	ND
CCB 13 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/24/2011
Date Received: 1/25/2011

Fluoride, Dissolved

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	K1100661-001	0.40	0.006	2	1/25/2011	0.39	
MW-2	K1100661-002	0.40	0.006	2	1/25/2011	0.32	
MW-4	K1100661-003	0.40	0.006	2	1/25/2011	0.17	
MW-5	K1100661-004	0.40	0.006	2	1/25/2011	0.44	
MW-6	K1100661-005	0.40	0.006	2	1/25/2011	0.30	
EB-012311	K1100661-006	0.40	0.006	2	1/25/2011	ND	
EB-012411	K1100661-007	0.40	0.006	2	1/25/2011	ND	
Method Blank	K1100661-MB	0.20	0.003	1	1/25/2011	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Duplicate Summary
Inorganic Parameters

Sample Name: Batch QC
Lab Code: K1100681-001DUP
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
Fluoride, Dissolved	NONE	300.0	0.40	0.71	0.72	0.72	1	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Matrix Spike Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
 Lab Code: K1100681-001MS Basis: NA
 Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery	
Fluoride, Dissolved	NONE	300.0	0.40	4.80	0.71	4.82	102	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
 Lab Code: K1100661-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	
Fluoride, Dissolved	NONE	300.0	11.0	10.5	96	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Analyzed: 1/25/2011

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

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	5.03	101
CCV 2 Result	5.00	4.95	99
CCV 3 Result	5.00	5.00	100
CCV 4 Result	5.00	5.05	101
CCV 5 Result	5.00	5.04	101
CCV 6 Result	5.00	5.08	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.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/24/2011
Date Received: 1/25/2011

Sulfate, Dissolved

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	K1100661-001	2.0	0.1	10	1/25/2011	31.4	
MW-2	K1100661-002	2.0	0.1	10	1/26/2011	37.1	
MW-4	K1100661-003	2.0	0.1	10	1/25/2011	45.1	
MW-5	K1100661-004	1.0	0.05	5	1/25/2011	39.5	
MW-6	K1100661-005	1.0	0.05	5	1/25/2011	36.7	
EB-012311	K1100661-006	0.40	0.02	2	1/25/2011	ND	
EB-012411	K1100661-007	0.40	0.02	2	1/25/2011	0.04	J
Method Blank	K1100661-MB	0.20	0.01	1	1/25/2011	ND	
Method Blank	K1100661-MB	0.20	0.01	1	1/26/2011	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Duplicate Summary
 Inorganic Parameters

Sample Name: Batch QC
Lab Code: K1100699-001DUP
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
Sulfate, Dissolved	NONE	300.0	0.40	5.08	4.98	5.03	2	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Matrix Spike Summary
 Inorganic Parameters

Sample Name: Batch QC Units: mg/L (ppm)
 Lab Code: K1100699-001MS Basis: NA
 Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery	
Sulfate, Dissolved	NONE	300.0	0.40	9.22	5.08	9.19	104	80-120	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
Lab Code: K1100661-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	
Sulfate, Dissolved	NONE	300.0	5.00	4.61	92	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Analyzed: 1/25/2011

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

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	5.00	4.75	95
CCV 2 Result	5.00	4.74	95
CCV 3 Result	5.00	4.72	94
CCV 4 Result	5.00	4.77	95
CCV 5 Result	5.00	4.63	93
CCV 6 Result	5.00	4.79	96
CCV 7 Result	5.00	4.75	95
CCV 8 Result	5.00	4.82	96
CCV 9 Result	5.00	4.71	94
CCV 10 Result	5.00	4.78	96
CCV 11 Result	5.00	4.75	95
CCV 12 Result	5.00	4.75	95
CCV 13 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
CCB 6 Result	0.20	ND
CCB 7 Result	0.20	ND
CCB 8 Result	0.20	ND
CCB 9 Result	0.20	ND
CCB 10 Result	0.20	ND
CCV 11 Result	0.20	ND
CCV 12 Result	0.20	ND
CCV 13 Result	0.20	ND

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request: K1100661
 Date Collected: 1/23/11 - 1/24/11
 Date Received: 1/25/11

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	K1100661-001	ND	U	0.050	0.020	1	NA	1/26/11 12:51	
MW-2	K1100661-002	ND	U	0.050	0.020	1	NA	1/26/11 12:51	
MW-4	K1100661-003	2.31		0.050	0.020	1	NA	1/26/11 12:51	
MW-5	K1100661-004	ND	U	0.050	0.020	1	NA	1/26/11 12:51	
MW-6	K1100661-005	ND	U	0.050	0.020	1	NA	1/26/11 12:51	
EB-012311	K1100661-006	ND	U	0.050	0.020	1	NA	1/26/11 12:51	
EB-012411	K1100661-007	ND	U	0.050	0.020	1	NA	1/26/11 12:51	
Method Blank	K1100661-MB1	ND	U	0.050	0.020	1	NA	1/26/11 12:51	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
 Date Collected: 1/24/11
 Date Received: 1/25/11
 Date Analyzed: 1/26/11

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-1
 Lab Code: K1100661-001

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-1DUP Duplicate Sample		RPD	RPD Limit
					K1100661-001DUP4 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: K1100661
Date Collected: 1/24/11
Date Received: 1/25/11
Date Analyzed: 1/26/11

**Matrix Spike Summary
 General Chemistry Parameters**

Sample Name: MW-1
Lab Code: K1100661-001

Units: mg/L
Basis: NA

Analytical Method: 350.1

Analyte Name	Sample Result	MW-1MS Matrix Spike K1100661-001MS2			MW-1DMS Duplicate Matrix Spike K1100661-001DMS2			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ammonia as Nitrogen, Dissolved	ND	1.95	2.00	97	1.96	2.00	98	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: K1100661
Date Analyzed: 1/26/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample K1100661-LCS1			% Rec Limits
		Result	Spike Amount	% Rec	
Ammonia as Nitrogen, Dissolved	350.1	2.87	2.81	102	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: K1100661

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	233907	KQ1100751-09	1/26/11 12:51	2.00	1.97	98	90 - 110
CCV2	233907	KQ1100751-10	1/26/11 12:51	2.00	1.96	98	90 - 110
CCV3	233907	KQ1100751-11	1/26/11 12:51	2.00	1.96	98	90 - 110
CCV4	233907	KQ1100751-12	1/26/11 12:51	2.00	1.96	98	90 - 110
CCV5	233907	KQ1100751-13	1/26/11 12:51	2.00	1.96	98	90 - 110
CCV6	233907	KQ1100751-14	1/26/11 12:51	2.00	1.96	98	90 - 110

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1100661

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

Analytical Method: 350.1

Units: mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	Result Q
CCB1	233907	KQ1100751-03	1/26/11 12:51	0.050	ND U
CCB2	233907	KQ1100751-04	1/26/11 12:51	0.050	ND U
CCB3	233907	KQ1100751-05	1/26/11 12:51	0.050	ND U
CCB4	233907	KQ1100751-06	1/26/11 12:51	0.050	ND U
CCB5	233907	KQ1100751-07	1/26/11 12:51	0.050	ND U
CCB6	233907	KQ1100751-08	1/26/11 12:51	0.050	ND U

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/23-24/2011
Date Received: 1/25/2011

Nitrite as Nitrogen, Dissolved

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	K1100661-001	0.050	0.005	1	1/25/2011	ND	
MW-2	K1100661-002	0.050	0.005	1	1/25/2011	0.032	
MW-4	K1100661-003	0.050	0.005	1	1/25/2011	0.021	
MW-5	K1100661-004	0.050	0.005	1	1/25/2011	0.012	
MW-6	K1100661-005	0.050	0.005	1	1/25/2011	0.011	
EB-012311	K1100661-006	0.050	0.005	1	1/25/2011	0.010	J
EB-012411	K1100661-007	0.050	0.005	1	1/25/2011	0.010	J
Method Blank	K1100661-MB	0.050	0.005	1	1/25/2011	ND	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: 1/24/2011
Date Received: 1/25/2011
Date Extracted: NA
Date Analyzed: 1/25/2011

Duplicate Summary
Inorganic Parameters

Sample Name: MW-1
Lab Code: K1100661-001DUP
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
Nitrite as Nitrogen, Dissolved	NONE	353.2	0.050	ND	0.008	NC	NC	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: 1/24/2011
Date Received: 1/25/2011
Date Extracted: NA
Date Analyzed: 1/25/2011

Matrix Spike Summary
 Inorganic Parameters

Sample Name: MW-1 Units: mg/L (ppm)
Lab Code: K1100661-001MS Basis: NA
Test Notes:

Analyte	Prep Method	Analysis Method	MRL	Spike Level	Sample Result	Spiked Sample Result	Percent Recovery	CAS	Result Notes
								Percent Recovery	
Nitrite as Nitrogen, Dissolved	NONE	353.2	0.050	2.00	ND	2.04	102	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Extracted: NA
Date Analyzed: 1/25/2011

Laboratory Control Sample Summary
 Inorganic Parameters

Sample Name: Lab Control Sample
 Lab Code: K1100661-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	
Nitrite as Nitrogen, Dissolved	NONE	353.2	4.00	4.03	101	90-110	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1100661
Date Collected: NA
Date Received: NA
Date Analyzed: 1/25/2011

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

CONTINUING CALIBRATION VERIFICATION (CCV)

	True Value	Measured Value	Percent Recovery
CCV 1 Result	2.00	1.98	99
CCV 2 Result	2.00	2.01	100
CCV 3 Result	2.00	2.01	100

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

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/24/2011
Date Received: 1/25/2011

Nitrate as Nitrogen

Prep Method: Calculation
Analysis Method: 353.2/353.2
Test Notes:

Units: mg/kg
Basis: Dry

Sample Name	Lab Code	MRL	MDL	Dilution Factor	Date Prepped	Date Analyzed	Result	Result Notes
MW-1	K1100661-001	0.50	0.09	10	NA	1/27/2011	17.9	
MW-2	K1100661-002	0.50	0.09	10	NA	1/27/2011	9.33	
MW-4	K1100661-003	1.0	0.2	20	NA	1/27/2011	53.8	
MW-5	K1100661-004	0.50	0.09	10	NA	1/27/2011	14.2	
MW-6	K1100661-005	0.25	0.05	5	NA	1/27/2011	7.04	
EB-012311	K1100661-006	0.050	0.009	1	NA	1/27/2011	ND	
EB-012411	K1100661-007	0.050	0.009	1	NA	1/27/2011	0.136	

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/23/11 - 1/24/11
Date Received: 1/25/11

Analysis Method: 353.2

Units: mg/L
Basis: NA

Nitrate+Nitrite as Nitrogen

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
MW-1	K1100661-001	17.9		0.50	0.09	10	NA	1/27/11 10:30	
MW-2	K1100661-002	9.36		0.50	0.09	10	NA	1/27/11 10:30	
MW-4	K1100661-003	53.8		1.0	0.2	20	NA	1/31/11 13:22	
MW-5	K1100661-004	14.2		0.50	0.09	10	NA	1/31/11 13:22	
MW-6	K1100661-005	7.05		0.25	0.05	5	NA	1/27/11 10:30	
EB-012311	K1100661-006	ND	U	0.050	0.009	1	NA	1/27/11 10:30	
EB-012411	K1100661-007	0.146		0.050	0.009	1	NA	1/27/11 10:30	
Method Blank	K1100661-MB1	ND	U	0.050	0.009	1	NA	1/27/11 10:30	
Method Blank	K1100661-MB2	0.017	J	0.050	0.009	1	NA	1/31/11 13:22	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
 Date Collected: 1/24/11
 Date Received: 1/25/11
 Date Analyzed: 1/27/11

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-1
 Lab Code: K1100661-001

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-1DUP Duplicate Sample		RPD	RPD Limit
					K1100661-001DUP4 Result	Average		
Nitrate+Nitrite as Nitrogen	353.2	0.50	0.09	17.9	18.1	18.0	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: K1100661
Date Collected: 1/24/11
Date Received: 1/25/11
Date Analyzed: 1/27/11

**Matrix Spike Summary
 General Chemistry Parameters**

Sample Name: MW-1
Lab Code: K1100661-001

Units: mg/L
Basis: NA

Analytical Method: 353.2

Analyte Name	Sample Result	MW-1MS Matrix Spike K1100661-001MS2			MW-1DMS Duplicate Matrix Spike K1100661-001DMS2			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Nitrate+Nitrite as Nitrogen	17.9	38.4	20.0	102	38.2	20.0	101	86 - 117	<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: Heglur Kronquist/0907194.000.0901
Sample Matrix: Water

Service Request: K1100661
Date Analyzed: 1/27/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
K1100661-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrate+Nitrite as Nitrogen	353.2	15.4	15.2	101	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: K1100661
Date Analyzed: 1/31/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample K1100661-LCS2					
Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Nitrate+Nitrite as Nitrogen	353.2	15.5	15.2	102	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: K1100661

**Continuing Calibration Verification (CCV) Summary
 Nitrate+Nitrite as Nitrogen**

Analytical Method: 353.2

Units: mg/L

	Analysis Lot	Lab Code	Date Analyzed	True Value	Measured Value	Percent Recovery	Acceptance Limits
CCV1	234048	KQ1100789-15	1/27/11 10:30	2.00	1.98	99	90 - 110
CCV2	234048	KQ1100789-16	1/27/11 10:30	2.00	1.99	99	90 - 110
CCV3	234048	KQ1100789-17	1/27/11 10:30	2.00	1.98	99	90 - 110
CCV4	234048	KQ1100789-18	1/27/11 10:30	2.00	1.98	99	90 - 110
CCV5	234048	KQ1100789-19	1/27/11 10:30	2.00	1.98	99	90 - 110
CCV6	234048	KQ1100789-20	1/27/11 10:30	2.00	1.96	98	90 - 110
CCV7	234379	KQ1100875-03	1/31/11 13:22	2.00	1.99	100	90 - 110
CCV8	234379	KQ1100875-04	1/31/11 13:22	2.00	1.99	100	90 - 110
CCV9	234379	KQ1100875-05	1/31/11 13:22	2.00	1.97	98	90 - 110
CCV10	234379	KQ1100875-06	1/31/11 13:22	2.00	2.02	101	90 - 110
CCV11	234379	KQ1100875-07	1/31/11 13:22	2.00	1.97	98	90 - 110

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: Exponent
Project: Heglar Kronquist/0907194.000.0901

Service Request: K1100661

Continuing Calibration Blank (CCB) Summary
Nitrate+Nitrite as Nitrogen

Analytical Method: 353.2

Units: mg/L

	Analysis Lot	Lab Code	Date Analyzed	MRL	Result Q
CCB1	234048	KQ1100789-09	1/27/11 10:30	0.050	ND U
CCB2	234048	KQ1100789-10	1/27/11 10:30	0.050	ND U
CCB3	234048	KQ1100789-11	1/27/11 10:30	0.050	ND U
CCB4	234048	KQ1100789-12	1/27/11 10:30	0.050	ND U
CCB5	234048	KQ1100789-13	1/27/11 10:30	0.050	ND U
CCB6	234048	KQ1100789-14	1/27/11 10:30	0.050	ND U
CCB7	234379	KQ1100875-08	1/31/11 13:22	0.050	ND U
CCB8	234379	KQ1100875-09	1/31/11 13:22	0.050	ND U
CCB9	234379	KQ1100875-10	1/31/11 13:22	0.050	ND U
CCB10	234379	KQ1100875-11	1/31/11 13:22	0.050	ND U
CCB11	234379	KQ1100875-12	1/31/11 13:22	0.050	ND U

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

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

Service Request: K1100661
 Date Collected: 1/23/11 - 1/24/11
 Date Received: 1/25/11

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	K1100661-001	532	10	10	1	NA	1/26/11 08:00	
MW-2	K1100661-002	457	10	10	1	NA	1/26/11 08:00	
MW-4	K1100661-003	1550	14	14	1	NA	1/26/11 08:00	
MW-5	K1100661-004	500	10	10	1	NA	1/26/11 08:00	
MW-6	K1100661-005	425	10	10	1	NA	1/26/11 08:00	
EB-012311	K1100661-006	ND U	5.0	5.0	1	NA	1/26/11 08:00	
EB-012411	K1100661-007	6.0	5.0	5.0	1	NA	1/26/11 08:00	
Method Blank	K1100661-MB1	ND U	5.0	5.0	1	NA	1/26/11 08:00	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
 Date Collected: 1/24/11
 Date Received: 1/25/11
 Date Analyzed: 1/26/11

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-4
 Lab Code: K1100661-003

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-4DUP Duplicate Sample K1100661-003DUP6		RPD	RPD Limit
					Result	Average		
Solids, Total Dissolved	SM 2540 C	14	14	1550	1590	1570	3	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: K1100661
Date Analyzed: 1/26/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Lab Control Sample
K1100661-LCS1

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Solids, Total Dissolved	SM 2540 C	1050	1090	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.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/23/11 - 1/24/11
Date Received: 1/25/11

Analysis Method: SM 2320 B

Units: mg/L
Basis: NA

Alkalinity as CaCO₃, Total

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
MW-1	K1100661-001	196		9.0	3.0	1	NA	1/26/11 11:44	
MW-2	K1100661-002	268		9.0	3.0	1	NA	1/26/11 11:44	
MW-4	K1100661-003	206		9.0	3.0	1	NA	1/26/11 11:44	
MW-5	K1100661-004	274		9.0	3.0	1	NA	1/26/11 11:44	
MW-6	K1100661-005	218		9.0	3.0	1	NA	1/26/11 11:44	
EB-012311	K1100661-006	ND	U	2.0	1.0	1	NA	1/26/11 13:00	
EB-012411	K1100661-007	1.4	J	2.0	1.0	1	NA	1/26/11 13:00	
Method Blank	K1100661-MB1	ND	U	2.0	1.0	1	NA	1/26/11 13:00	
Method Blank	K1100661-MB2	5.5	J	9.0	3.0	1	NA	1/26/11 11:44	
Method Blank	K1100661-MB3	5.9	J	9.0	3.0	1	NA	1/26/11 11:44	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
 Date Collected: 1/24/11
 Date Received: 1/25/11
 Date Analyzed: 1/26/11

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-2
 Lab Code: K1100661-002

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-2DUP Duplicate Sample		RPD	RPD Limit
					K1100661-002DUP5	Average		
Alkalinity as CaCO ₃ , Total	SM 2320 B	9.0	3.0	268	252	260	6	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: K1100661
Date Analyzed: 1/26/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample K1100661-LCS1			% Rec Limits
		Result	Spike Amount	% Rec	
Alkalinity as CaCO ₃ , Total	SM 2320 B	79.8	80.0	100	94 - 106

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: K1100661
Date Analyzed: 1/26/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L
Basis: NA

Analyte Name	Method	Lab Control Sample K1100661-LCS2			% Rec Limits
		Result	Spike Amount	% Rec	
Alkalinity as CaCO ₃ , Total	SM 2320 B	81.9	80.0	102	94 - 106

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: K1100661
Date Analyzed: 1/26/11

Lab Control Sample Summary
General Chemistry Parameters

Units: mg/L

Basis: NA

Analyte Name	Method	Lab Control Sample K1100661-LCS3			% Rec Limits
		Result	Spike Amount	% Rec	
Alkalinity as CaCO ₃ , Total	SM 2320 B	78.0	80.0	98	94 - 106

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.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/23/11 - 1/24/11
Date Received: 1/25/11

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	K1100661-001	196		9.0	3.0	1	NA	1/26/11 11:44	
MW-2	K1100661-002	268		9.0	3.0	1	NA	1/26/11 11:44	
MW-4	K1100661-003	206		9.0	3.0	1	NA	1/26/11 11:44	
MW-5	K1100661-004	274		9.0	3.0	1	NA	1/26/11 11:44	
MW-6	K1100661-005	218		9.0	3.0	1	NA	1/26/11 11:44	
EB-012311	K1100661-006	ND	U	2.0	1.0	1	NA	1/26/11 13:00	
EB-012411	K1100661-007	1.4	J	2.0	1.0	1	NA	1/26/11 13:00	
Method Blank	K1100661-MB1	ND		2.0	1.0	1	NA	1/26/11 13:00	
Method Blank	K1100661-MB2	5.5	J	9.0	3.0	1	NA	1/26/11 11:44	
Method Blank	K1100661-MB3	5.9	J	9.0	3.0	1	NA	1/26/11 11:44	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
 Date Collected: 1/24/11
 Date Received: 1/25/11
 Date Analyzed: 1/26/11

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-2
 Lab Code: K1100661-002

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-2DUP Duplicate Sample		RPD	RPD Limit
					K1100661-002DUP5 Result	Average		
Bicarbonate as CaCO3	SM 2320 B	9.0	3.0	268	252	260	6	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.

Analytical Report

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

Service Request: K1100661
Date Collected: 1/23/11 - 1/24/11
Date Received: 1/25/11

Analysis Method: SM 2320 B

Units: mg/L
Basis: NA

Carbonate as CaCO3

Sample Name	Lab Code	Result	Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
MW-1	K1100661-001	ND	U	9.0	3.0	1	NA	1/26/11 11:44	
MW-2	K1100661-002	ND	U	9.0	3.0	1	NA	1/26/11 11:44	
MW-4	K1100661-003	ND	U	9.0	3.0	1	NA	1/26/11 11:44	
MW-5	K1100661-004	ND	U	9.0	3.0	1	NA	1/26/11 11:44	
MW-6	K1100661-005	ND	U	9.0	3.0	1	NA	1/26/11 11:44	
EB-012311	K1100661-006	ND	U	2.0	1.0	1	NA	1/26/11 13:00	
EB-012411	K1100661-007	ND	U	2.0	1.0	1	NA	1/26/11 13:00	
Method Blank	K1100661-MB1	ND		2.0	1.0	1	NA	1/26/11 13:00	
Method Blank	K1100661-MB2	ND	U	9.0	3.0	1	NA	1/26/11 11:44	
Method Blank	K1100661-MB3	ND	U	9.0	3.0	1	NA	1/26/11 11:44	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
 Date Collected: 1/24/11
 Date Received: 1/25/11
 Date Analyzed: 1/26/11

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-2
 Lab Code: K1100661-002

Units: mg/L
 Basis: NA

Analyte Name	Method	MRL	MDL	Sample Result	MW-2DUP		RPD	RPD Limit
					Duplicate Sample Result	Average		
Carbonate as CaCO3	SM 2320 B	9.0	3.0	ND U	K1100661-002DUP5 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.

Analytical Report

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

Service Request: K1100661
 Date Collected: 1/23/11 - 1/24/11
 Date Received: 1/25/11

Analysis Method: SM 2320 B

Units: mg/L
 Basis: NA

Hydroxide as CaCO3

Sample Name	Lab Code	Result Q	MRL	MDL	Dilution Factor	Date Extracted	Date Analyzed	Note
MW-1	K1100661-001	ND U	9.0	3.0	1	NA	1/26/11 11:44	
MW-2	K1100661-002	ND U	9.0	3.0	1	NA	1/26/11 11:44	
MW-4	K1100661-003	ND U	9.0	3.0	1	NA	1/26/11 11:44	
MW-5	K1100661-004	ND U	9.0	3.0	1	NA	1/26/11 11:44	
MW-6	K1100661-005	ND U	9.0	3.0	1	NA	1/26/11 11:44	
EB-012311	K1100661-006	ND U	2.0	1.0	1	NA	1/26/11 13:00	
EB-012411	K1100661-007	ND U	2.0	1.0	1	NA	1/26/11 13:00	
Method Blank	K1100661-MB1	ND	2.0	1.0	1	NA	1/26/11 13:00	
Method Blank	K1100661-MB2	ND U	9.0	3.0	1	NA	1/26/11 11:44	
Method Blank	K1100661-MB3	ND U	9.0	3.0	1	NA	1/26/11 11:44	

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

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

Service Request: K1100661
 Date Collected: 1/24/11
 Date Received: 1/25/11
 Date Analyzed: 1/26/11

Replicate Sample Summary
 General Chemistry Parameters

Sample Name: MW-2
 Lab Code: K1100661-002

Units: mg/L
 Basis: NA

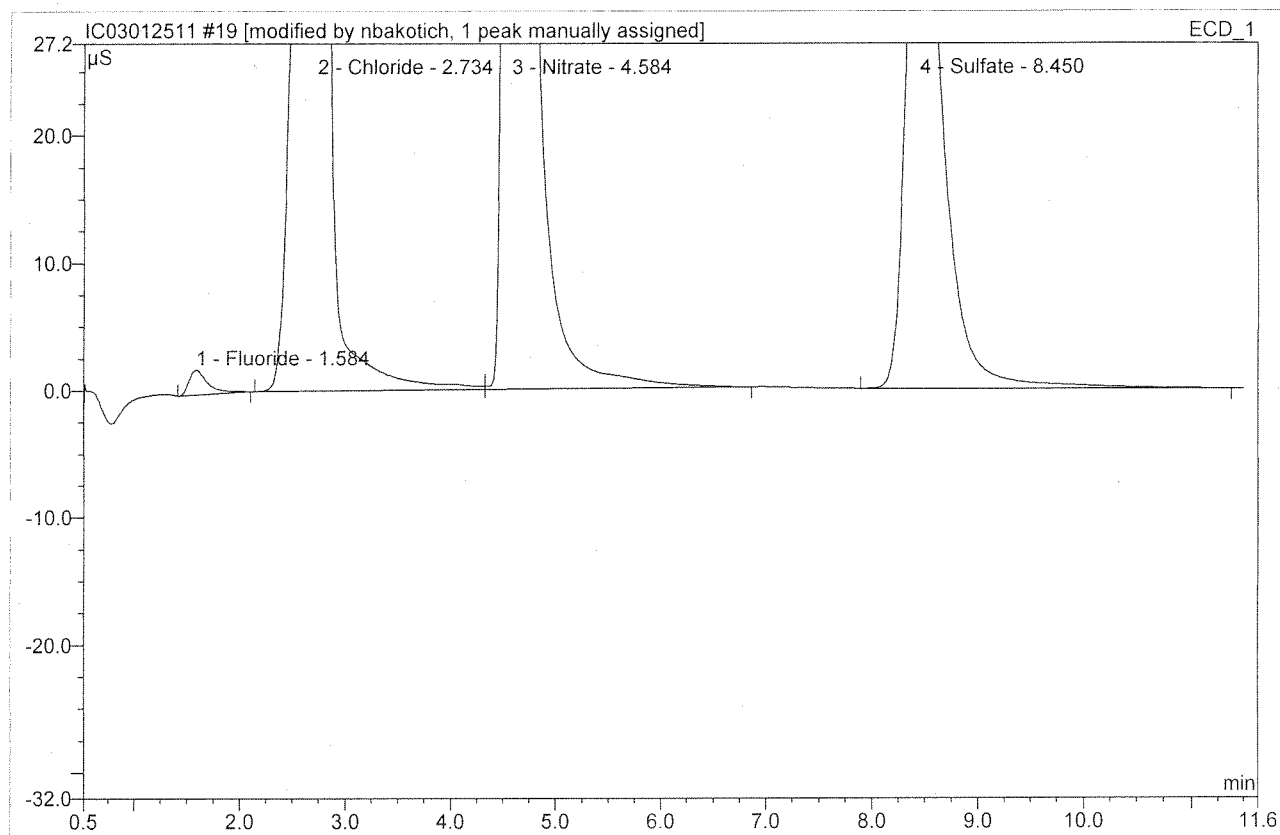
Analyte Name	Method	MRL	MDL	Sample Result	MW-2DUP		RPD	RPD Limit
					Duplicate Sample Result	Average		
Hydroxide as CaCO3	SM 2320 B	9.0	3.0	ND U	K1100661-002DUP5 ND U	NC	NC	20

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.

19 K1100661-001			
Sample Name:	K1100661-001	Injection Volume:	200.0
Vial Number:	21	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:01	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	1.923	0.396	0.34	0.393	BMB*
2	2.73	Chloride	266.343	59.102	51.41	80.331	BM **^
3	4.58	Nitrate	142.394	37.393	32.53	20.776	MB*
4	8.45	Sulfate	47.493	18.068	15.72	38.091	BMB
Total:			458.153	114.959	100.00	139.591	

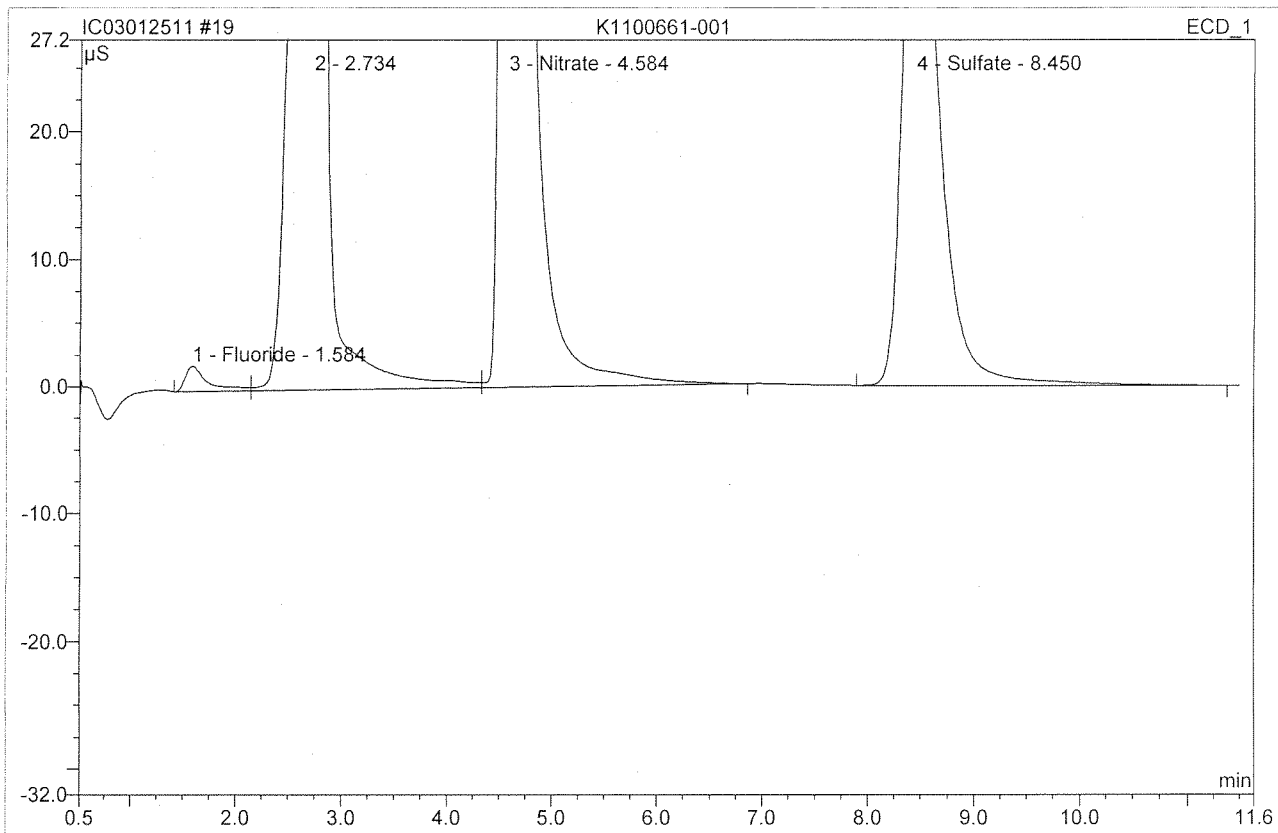
After Initials MB

64113111

IAN 2 5 2011

Wrong Peak/Peak not Found
 Retention/shoulder Incorrect
 Other

19 K1100661-001			
Sample Name:	K1100661-001	Injection Volume:	200.0
Vial Number:	21	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:01	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

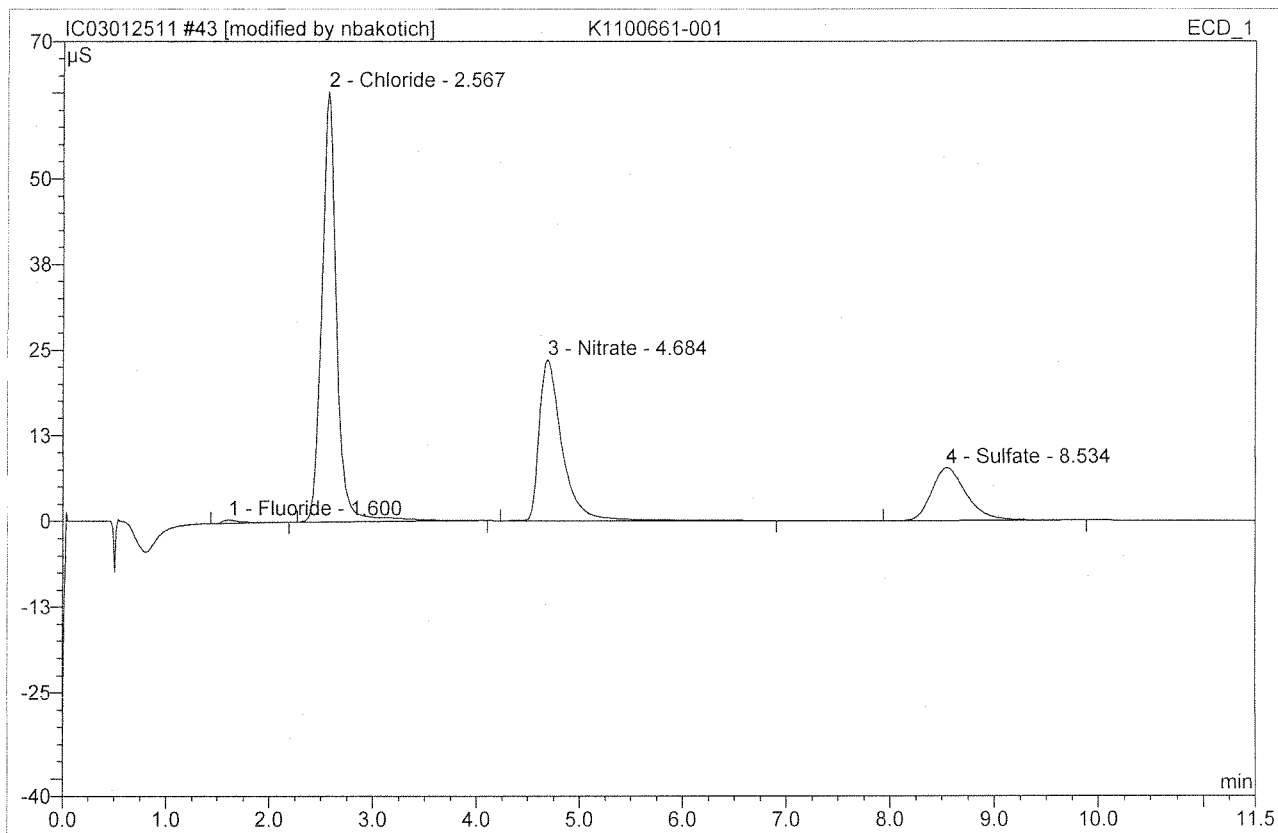


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	1.988	0.501	0.43	0.497	BM
2	2.73	n.a.	266.566	59.528	51.47	n.a.	M
3	4.58	Nitrate	142.517	37.566	32.48	20.872	MB
4	8.45	Sulfate	47.493	18.068	15.62	38.091	BMB
Total:			458.565	115.663	100.00	59.460	

Before

JAN 25 2011

43 K1100661-001			
Sample Name:	K1100661-001	Injection Volume:	200.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/25/2011 18:00	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



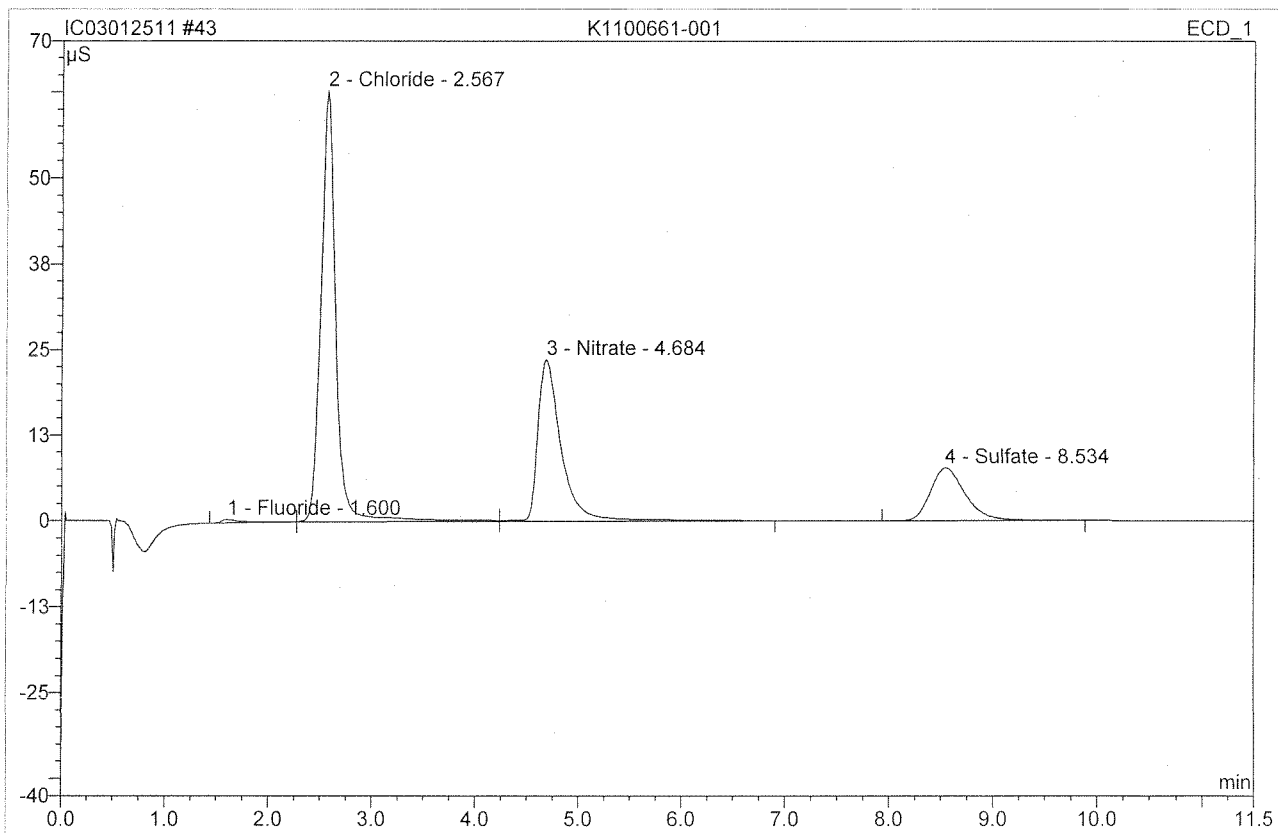
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	0.481	0.109	0.56	0.540	BMB*
2	2.57	Chloride	62.773	10.405	53.24	70.712	BMB*
3	4.68	Nitrate	23.496	6.050	30.96	16.807	BMB*
4	8.53	Sulfate	7.680	2.979	15.24	31.397	BMB
Total:			94.430	19.542	100.00	119.456	

After Initials nb

JAN 26 2011

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

43 K1100661-001			
Sample Name:	K1100661-001	Injection Volume:	200.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/25/2011 18:00	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

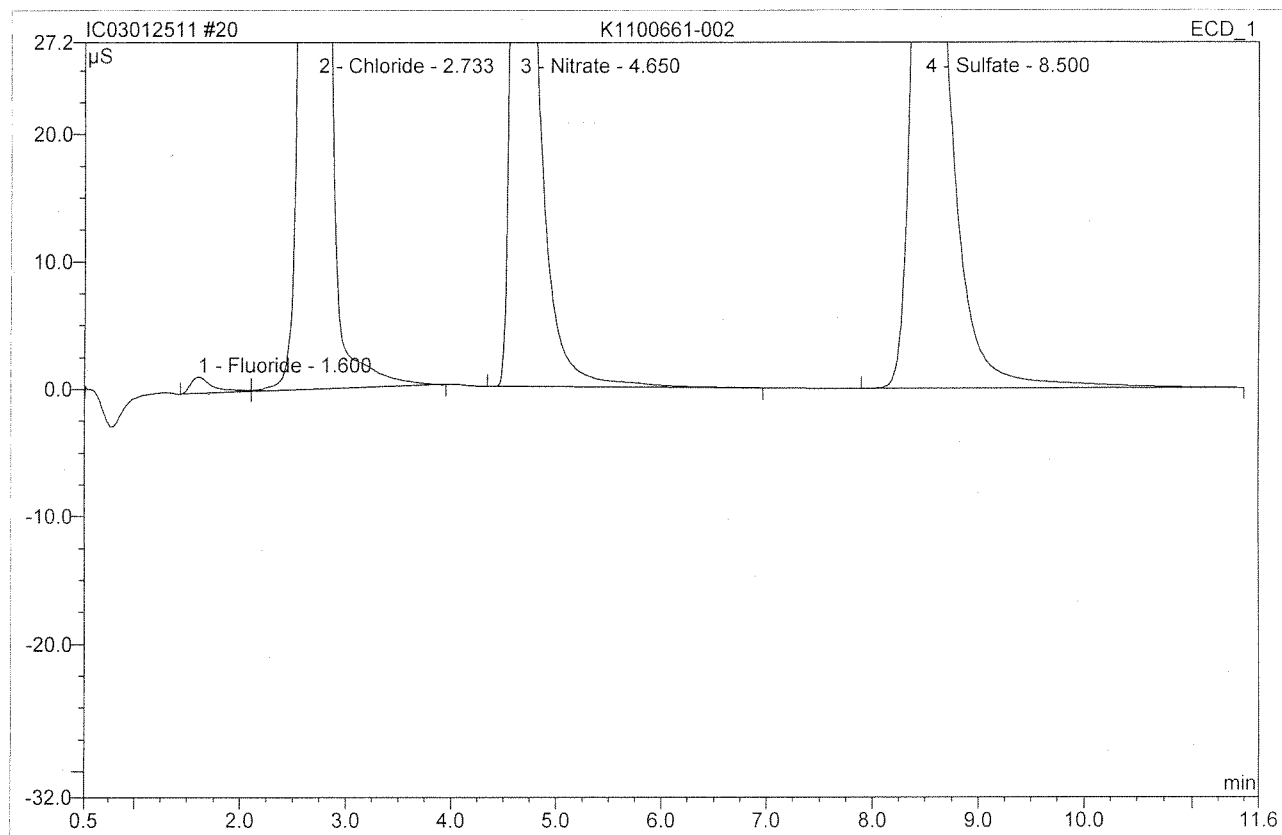


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	0.488	0.121	0.61	0.599	BMB
2	2.57	Chloride	62.797	10.559	53.14	71.760	bM
3	4.68	Nitrate	23.596	6.211	31.26	17.256	MB
4	8.53	Sulfate	7.680	2.979	14.99	31.397	BMB
Total:			94.561	19.870	100.00	121.012	

Before

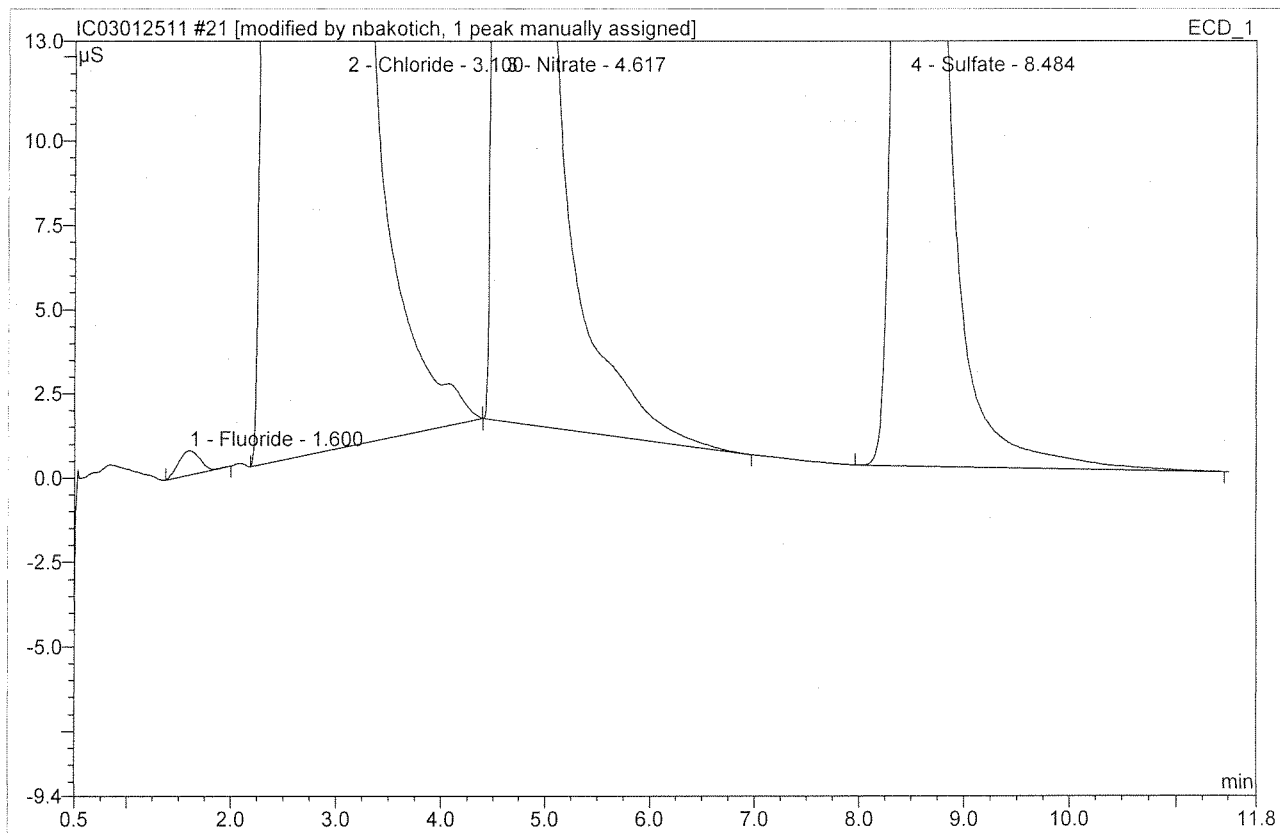
JAN 26 2011

20 K1100661-002			
Sample Name:	K1100661-002	Injection Volume:	200.0
Vial Number:	22	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:15	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	1.302	0.324	0.38	0.322	BM
2	2.73	Chloride	243.122	46.737	54.20	63.525	MB
3	4.65	Nitrate	71.117	18.127	21.02	10.071	BMB
4	8.50	Sulfate	54.350	21.034	24.40	44.345	BMB
Total:			369.891	86.223	100.00	118.264	

21 K1100661-003			
Sample Name:	K1100661-003	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:29	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	0.718	0.171	0.03	0.170	BMB*
2	3.10	Chloride	691.861	403.199	74.48	548.027	BMB**^
3	4.62	Nitrate	454.198	112.154	20.72	62.313	bMB
4	8.48	Sulfate	66.597	25.822	4.77	54.439	BMB
Total:			1213.374	541.346	100.00	664.949	

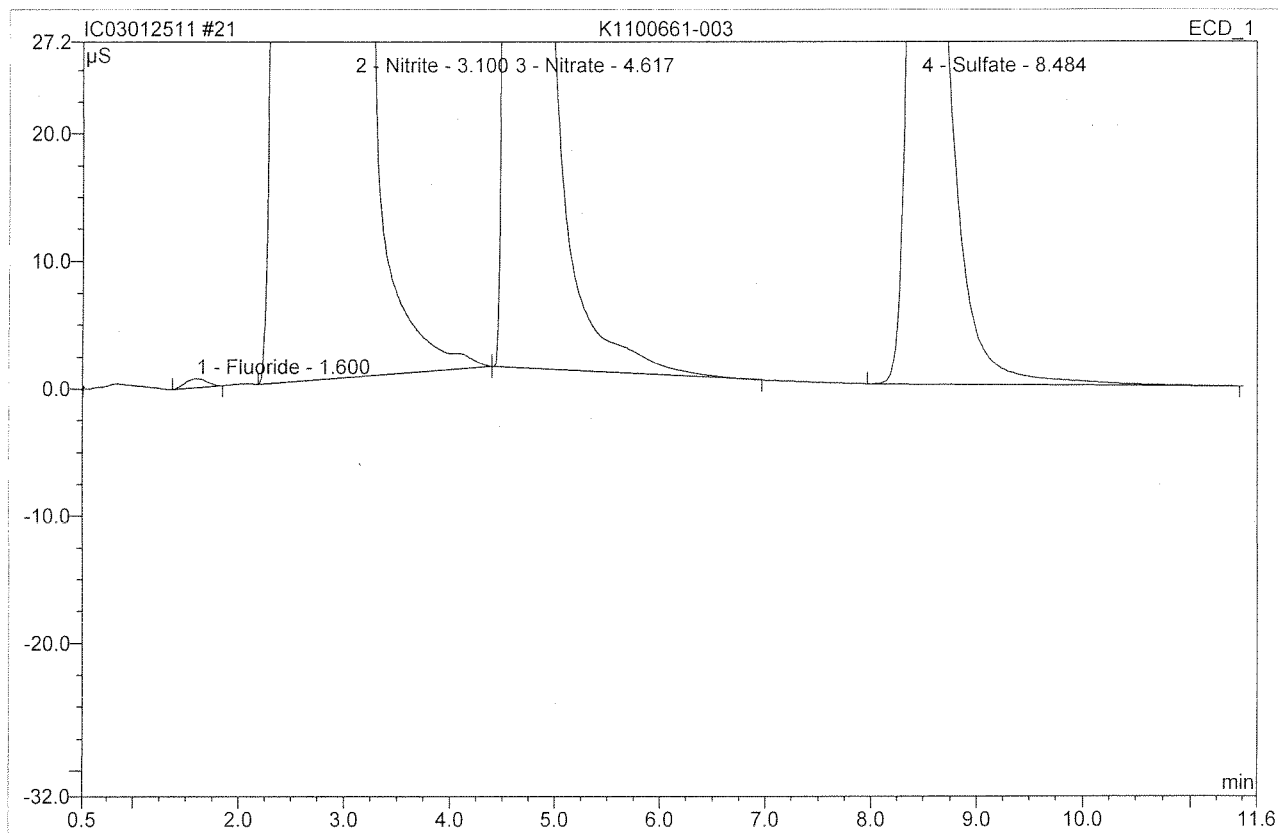
After Initials nb

JAN 25 2011

1/25/2011

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

21 K1100661-003			
Sample Name:	K1100661-003	Injection Volume:	200.0
Vial Number:	23	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:29	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

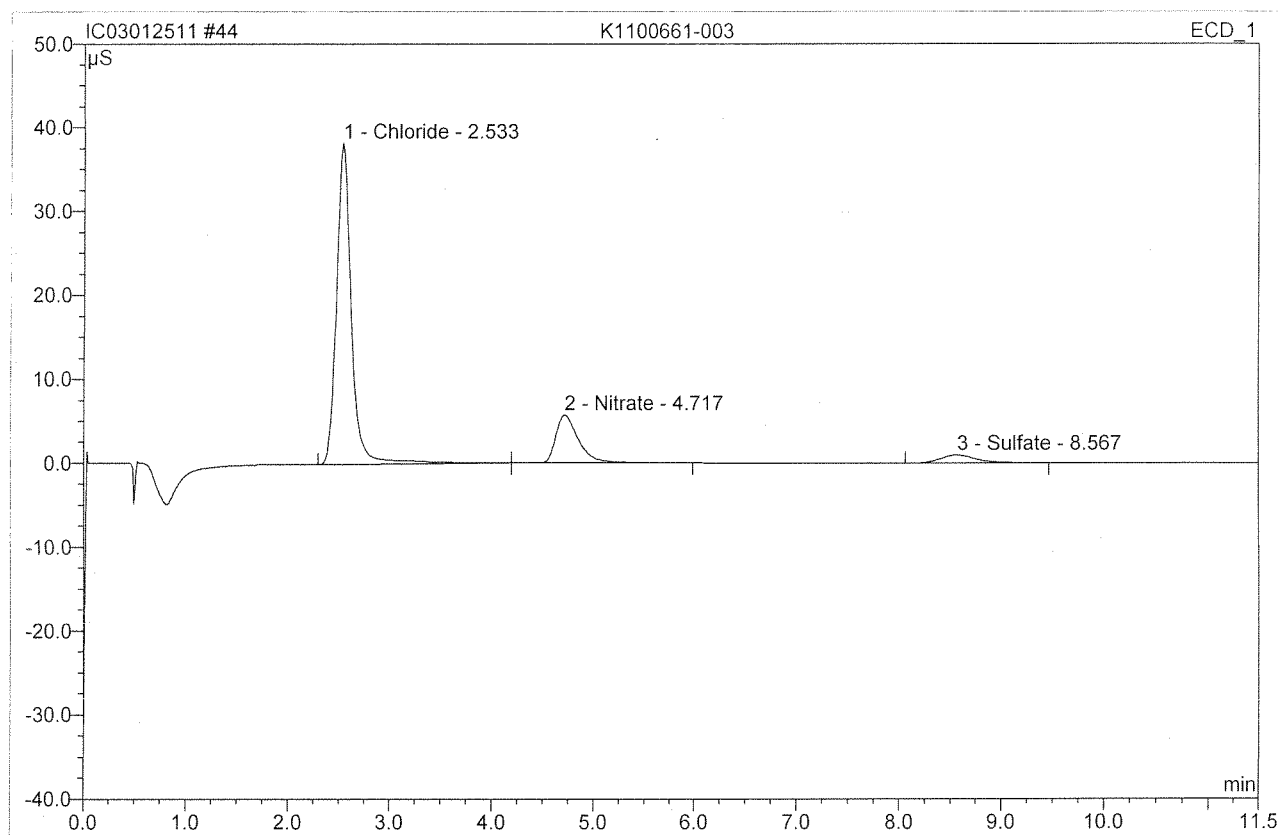


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	1.60	Fluoride	0.717	0.171	0.03	0.169	BMB
2	3.10	Nitrite	691.861	403.199	74.48	280.959	BMB
3	4.62	Nitrate	454.198	112.154	20.72	62.313	bMB
4	8.48	Sulfate	66.597	25.822	4.77	54.439	BMB
Total:			1213.374	541.345	100.00	397.880	

Before

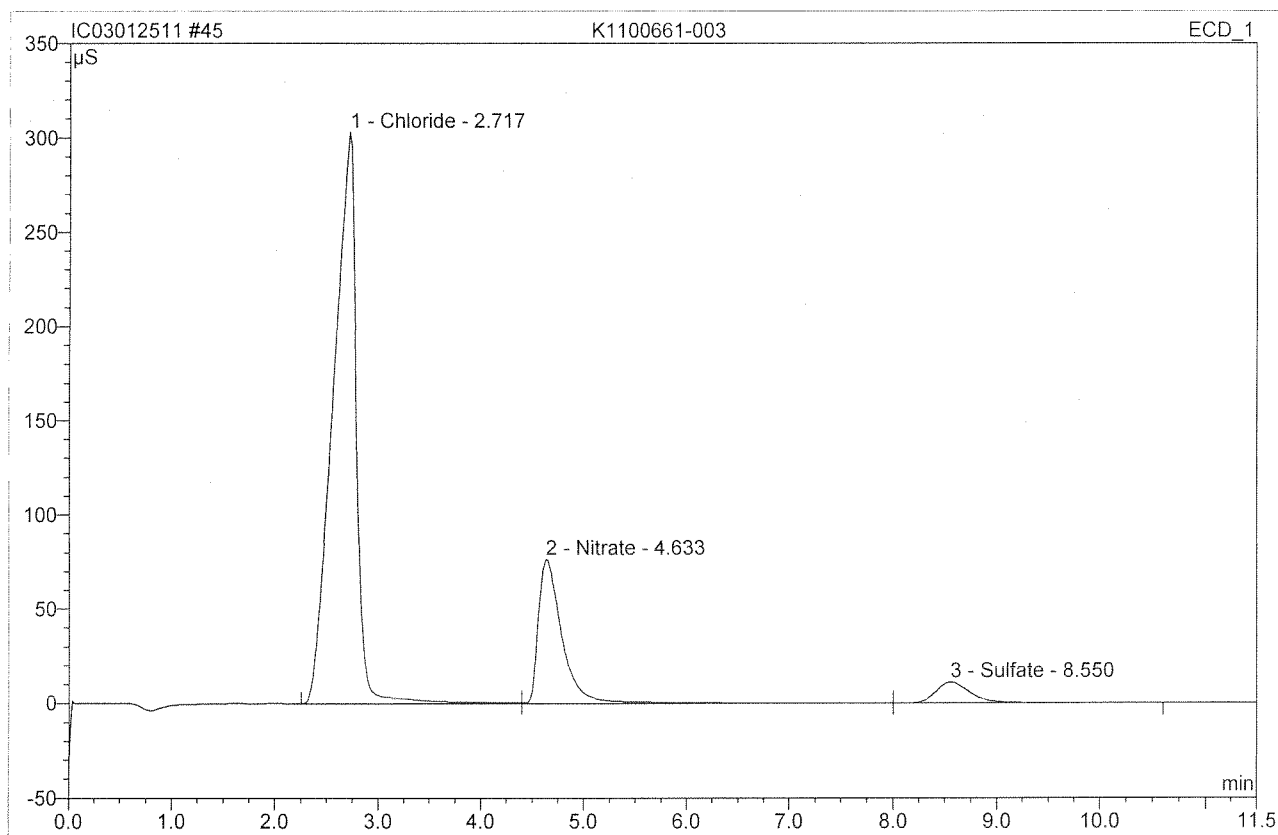
JAN 25 2011

44 K1100661-003			
Sample Name:	K1100661-003	Injection Volume:	200.0
Vial Number:	46	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	100.0000
Recording Time:	1/25/2011 18:14	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



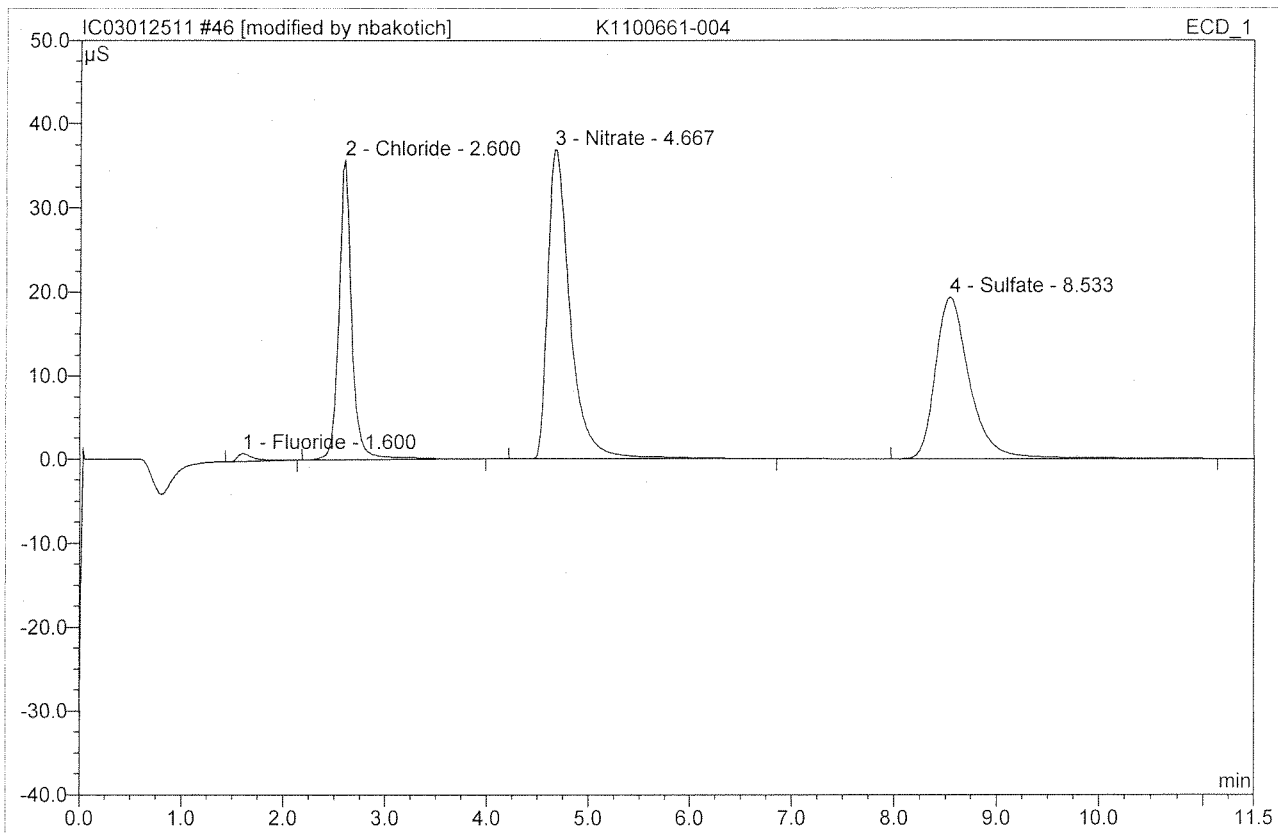
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride	38.357	6.547	77.67	444.954	BMb
2	4.72	Nitrate	5.694	1.484	17.60	41.215	bMB
3	8.57	Sulfate	0.978	0.399	4.73	42.067	BMB
Total:			45.029	8.430	100.00	528.235	

45 K1100661-003			
Sample Name:	K1100661-003	Injection Volume:	200.0
Vial Number:	47	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/25/2011 18:28	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.72	Chloride	303.135	79.417	76.17	539.715	BM
2	4.63	Nitrate	76.368	20.565	19.72	57.129	Mb
3	8.55	Sulfate	11.140	4.279	4.10	45.106	bMB
Total:			390.643	104.260	100.00	641.950	

46 K1100661-004			
Sample Name:	K1100661-004	Injection Volume:	200.0
Vial Number:	48	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	1/25/2011 18:42	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



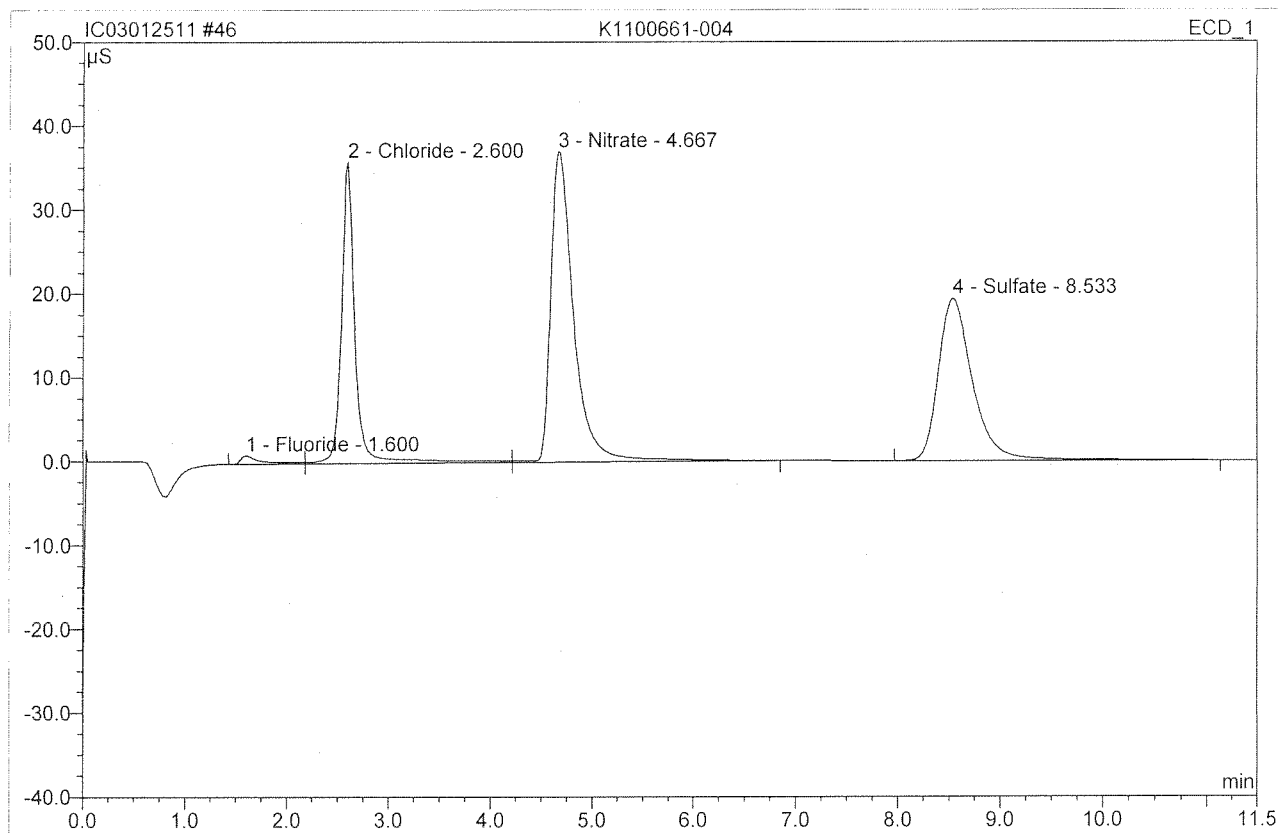
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	0.994	0.193	0.86	0.480	BMB*
2	2.60	Chloride	35.774	5.267	23.44	17.896	BMB*
3	4.67	Nitrate	36.937	9.520	42.37	13.224	BMB*
4	8.53	Sulfate	19.377	7.487	33.32	39.461	BMB
Total:			93.082	22.468	100.00	71.061	

After Initials nb

JAN 26 2011

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

46 K1100661-004			
Sample Name:	K1100661-004	Injection Volume:	200.0
Vial Number:	48	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	1/25/2011 18:42	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

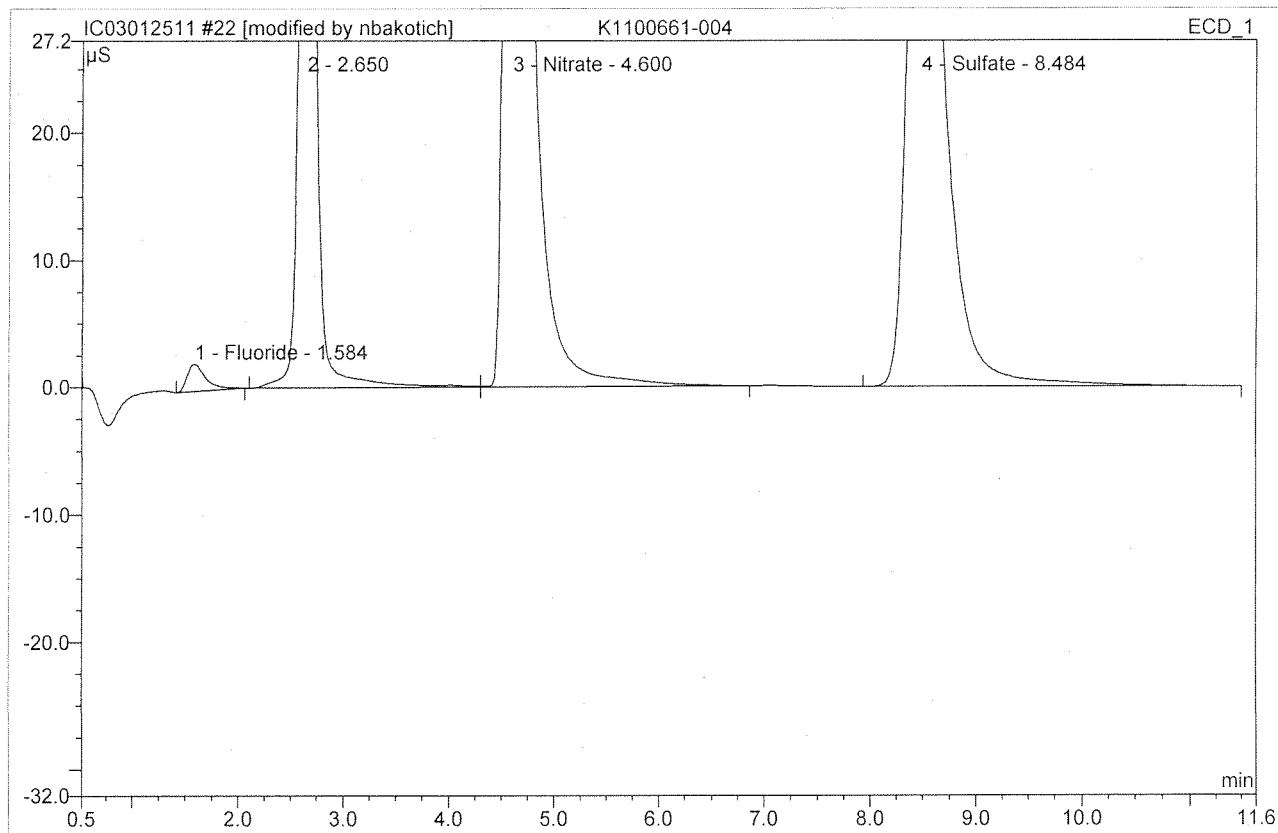


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	1.040	0.272	1.17	0.674	BM
2	2.60	Chloride	35.969	5.683	24.50	19.312	M
3	4.67	Nitrate	37.086	9.757	42.06	13.553	MB
4	8.53	Sulfate	19.377	7.487	32.27	39.461	BMB
Total:			93.473	23.199	100.00	73.000	

Before

JAN 26 2011

22 K1100661-004			
Sample Name:	K1100661-004	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:43	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



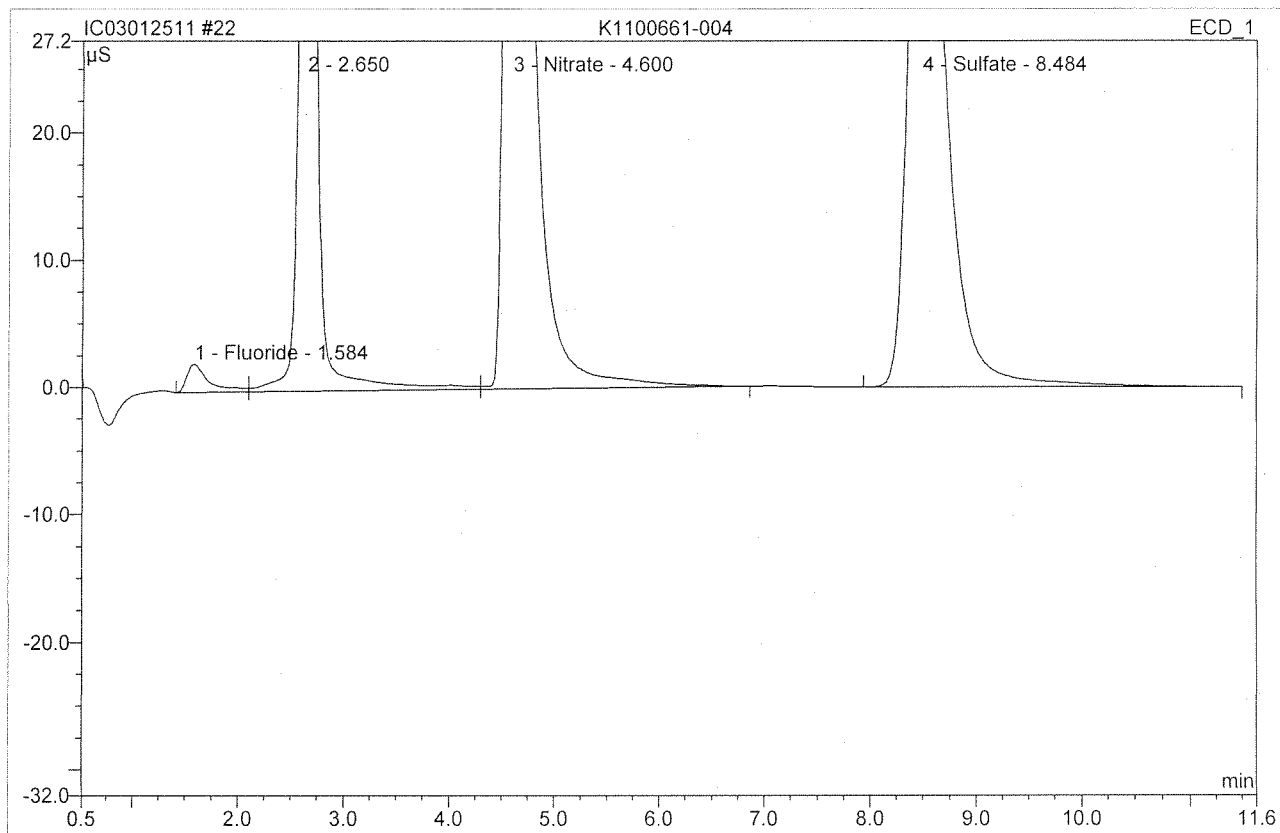
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	2.154	0.444	0.71	0.440	BMB*
2	2.65	n.a.	105.781	14.842	23.63	n.a.	BM *
3	4.60	Nitrate	102.531	26.614	42.37	14.787	MB*
4	8.48	Sulfate	54.378	20.918	33.30	44.099	BMB
Total:			264.844	62.818	100.00	59.326	

After Initials nb

IAN 2 5 2011

Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other

22 K1100661-004			
Sample Name:	K1100661-004	Injection Volume:	200.0
Vial Number:	24	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:43	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



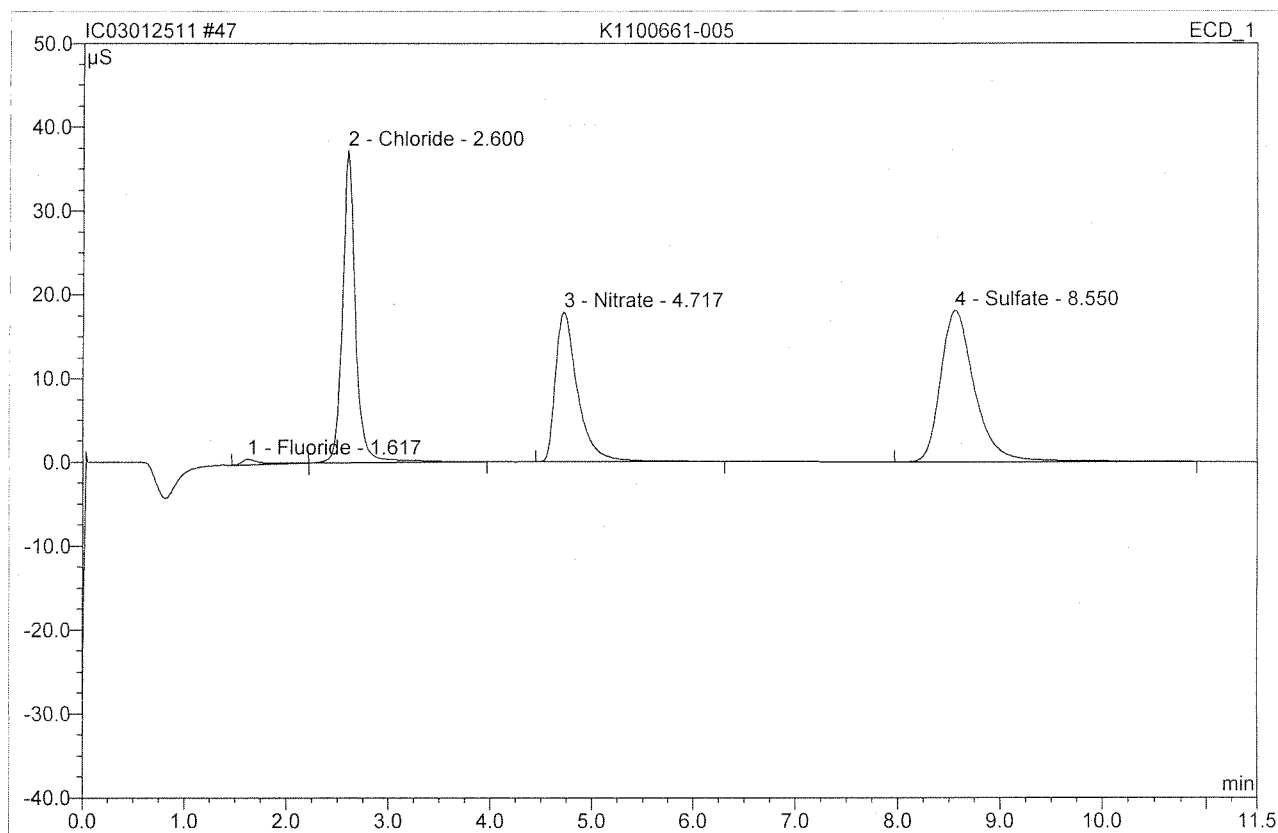
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.58	Fluoride	2.231	0.552	0.87	0.547	BM
2	2.65	n.a.	106.040	15.338	24.11	n.a.	M
3	4.60	Nitrate	102.671	26.817	42.15	14.899	MB
4	8.48	Sulfate	54.378	20.918	32.88	44.099	BMB
Total:			265.319	63.624	100.00	59.546	

Before

JAN 25 2011

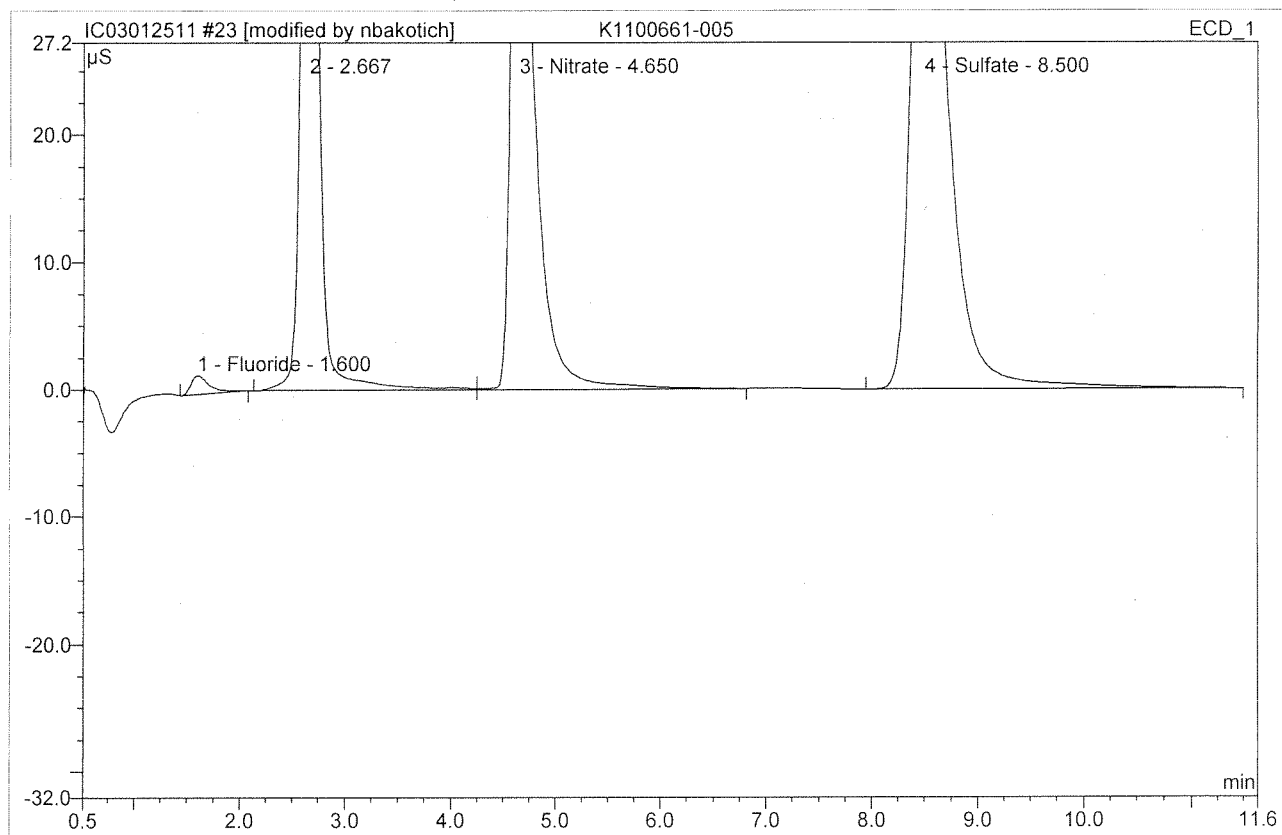
47 K1100661-005

Sample Name:	K1100661-005	Injection Volume:	200.0
Vial Number:	49	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	1/25/2011 18:56	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	0.666	0.145	0.84	0.360	BMB
2	2.60	Chloride	37.311	5.583	32.34	18.970	bMB
3	4.72	Nitrate	17.867	4.571	26.48	6.349	BMB
4	8.55	Sulfate	18.077	6.963	40.34	36.701	BMB
Total:			73.920	17.262	100.00	62.380	

23 K1100661-005			
Sample Name:	K1100661-005	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:57	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	1.470	0.298	0.61	0.295	BMB*
2	2.67	n.a.	108.968	15.794	32.32	n.a.	BM *
3	4.65	Nitrate	51.897	13.147	26.90	7.304	MB*
4	8.50	Sulfate	51.069	19.627	40.17	41.378	BMB
Total:			213.404	48.865	100.00	48.977	

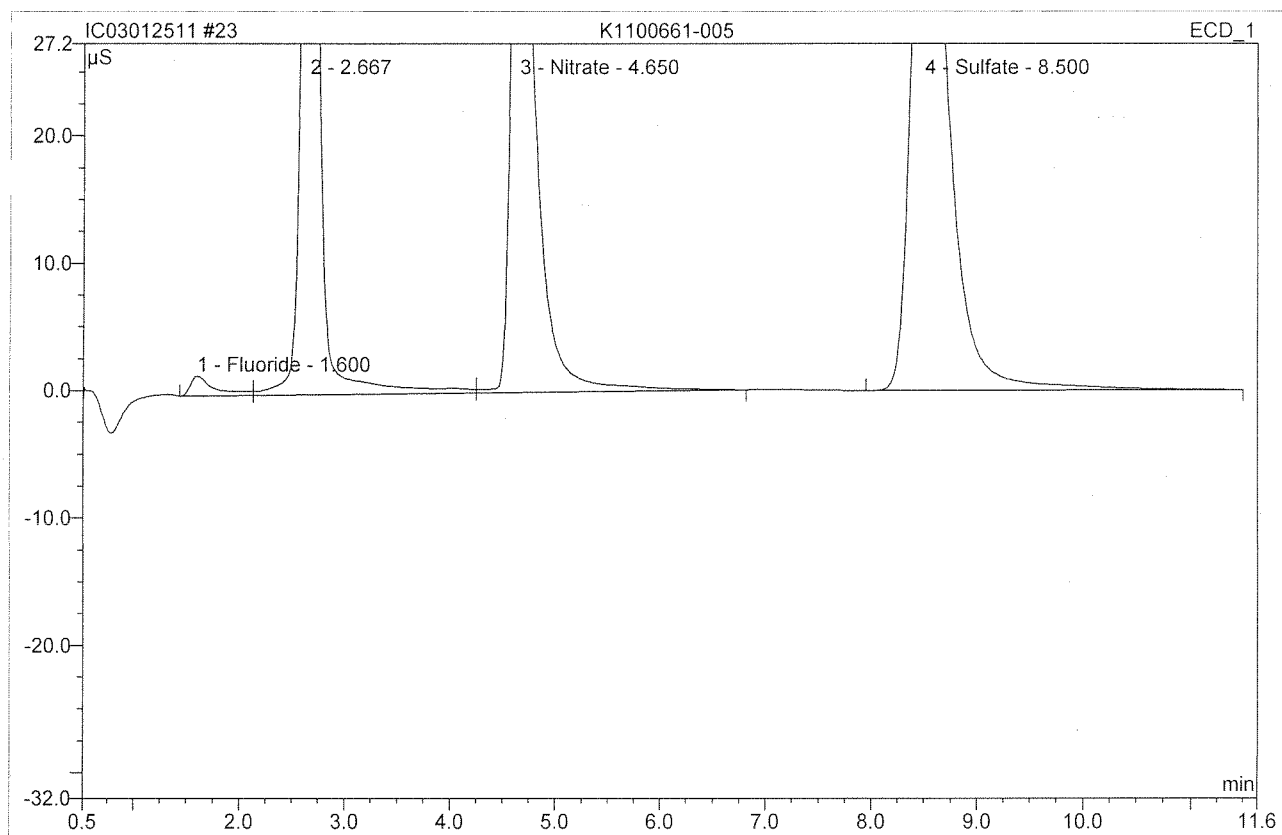
After Initials nb

IAN 2 5 2011

6/11/11

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

23 K1100661-005			
Sample Name:	K1100661-005	Injection Volume:	200.0
Vial Number:	25	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 12:57	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

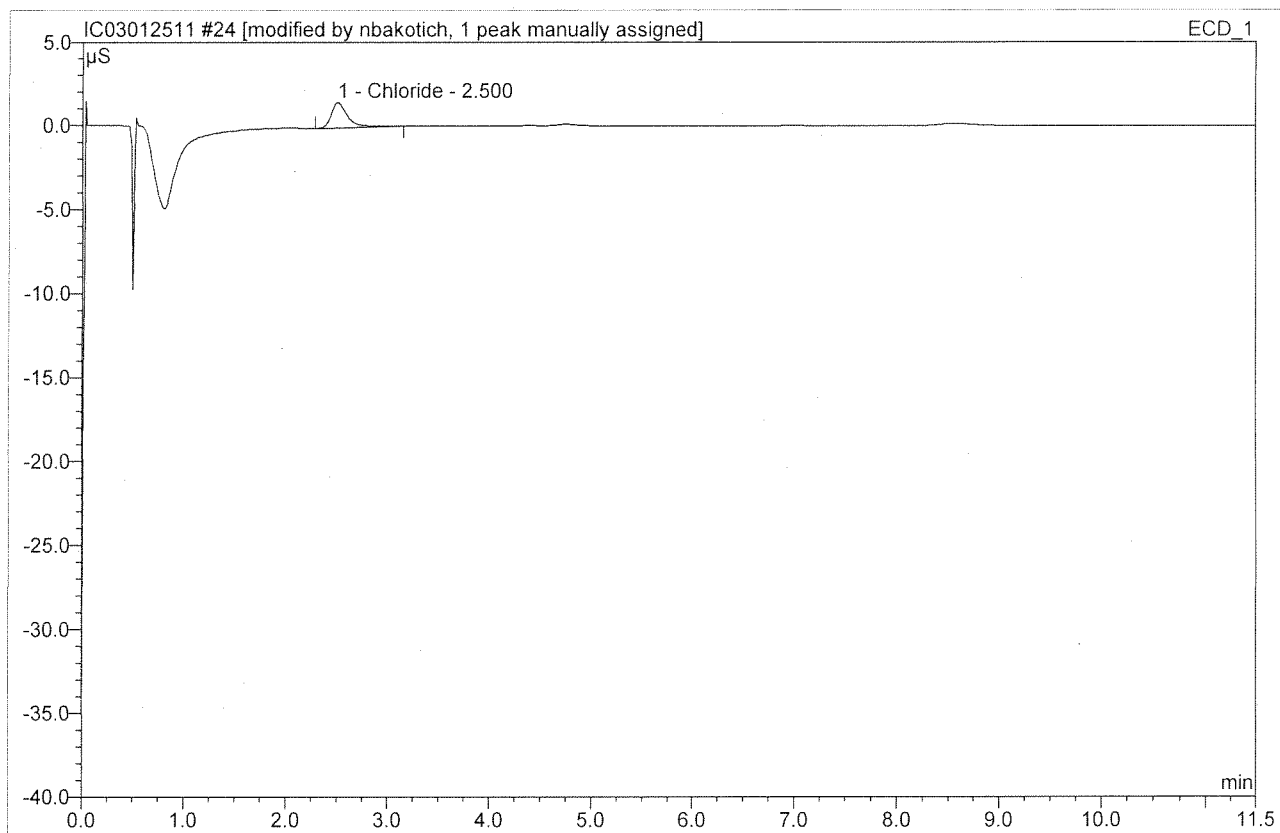


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	1.548	0.412	0.83	0.408	BM
2	2.67	n.a.	109.229	16.277	32.77	n.a.	M
3	4.65	Nitrate	52.034	13.354	26.89	7.420	MB
4	8.50	Sulfate	51.069	19.627	39.51	41.378	BMB
Total:			213.880	49.670	100.00	49.206	

Before

JAN 25 2011

24 K1100661-006			
Sample Name:	K1100661-006	Injection Volume:	200.0
Vial Number:	26	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 13:11	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	1.512	0.282	100.00	0.383	BMB*^
Total:			1.512	0.282	100.00	0.383	

F < 0.20

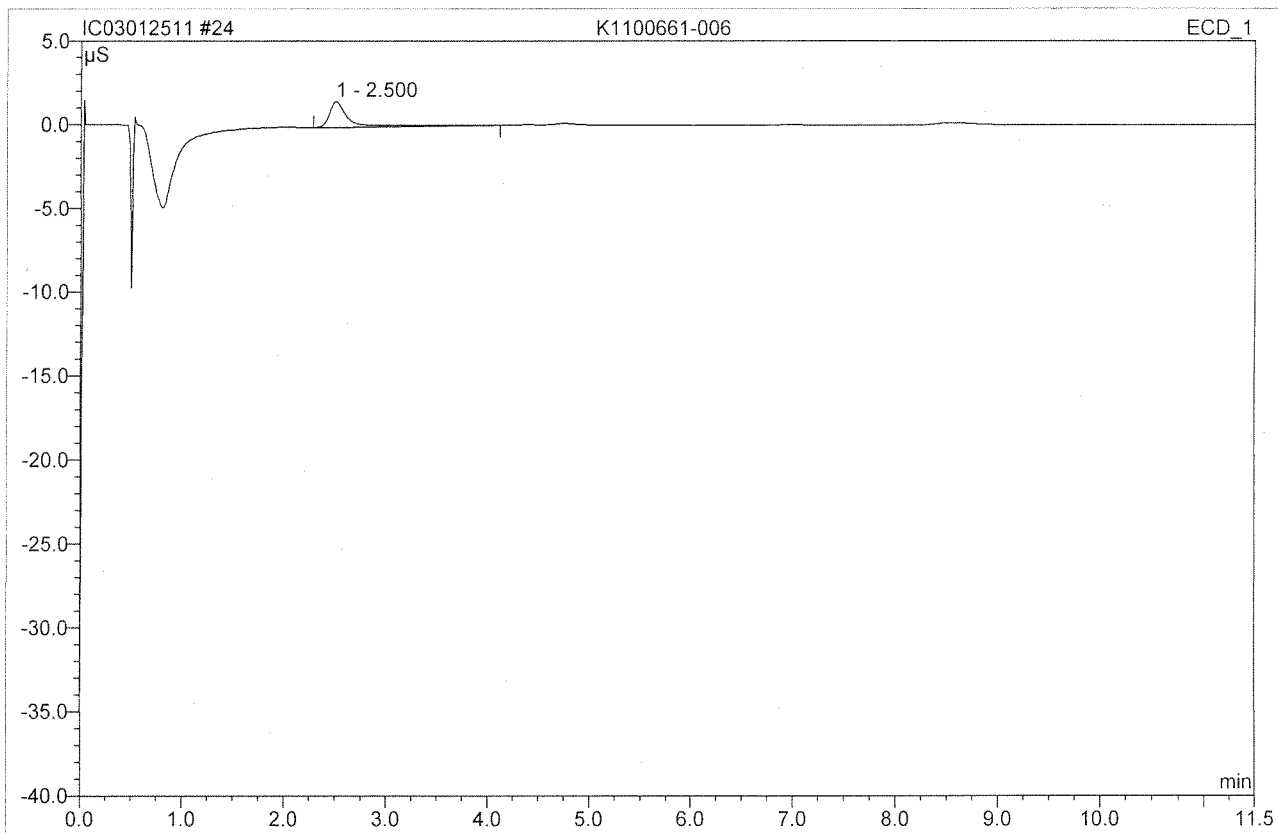
After Initials nb

JAN 25 2011

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

DATE 1/25/11

24 K1100661-006			
Sample Name:	K1100661-006	Injection Volume:	200.0
Vial Number:	26	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 13:11	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



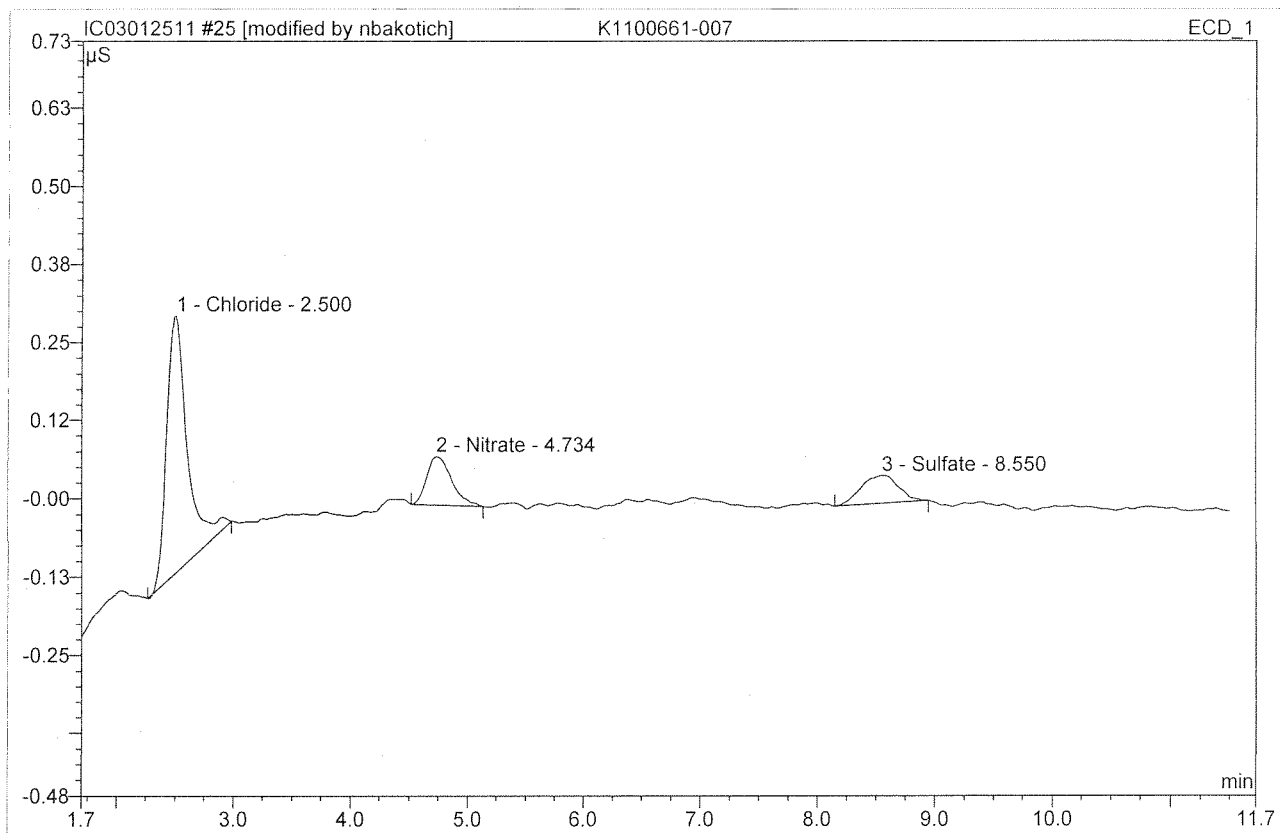
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.50	n.a.	1.531	0.347	100.00	n.a.	BMB
Total:			1.531	0.347	100.00	0.000	

ES

Before

JAN 25 2011

25 K1100661-007			
Sample Name:	K1100661-007	Injection Volume:	200.0
Vial Number:	27	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 13:25	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.50	Chloride	0.411	0.084	70.10	0.114	BMB*
2	4.73	Nitrate	0.078	0.019	16.02	0.011	BMB*
3	8.55	Sulfate	0.045	0.017	13.87	0.035	BMB*
Total:			0.534	0.120	100.00	0.160	

F < 0.20

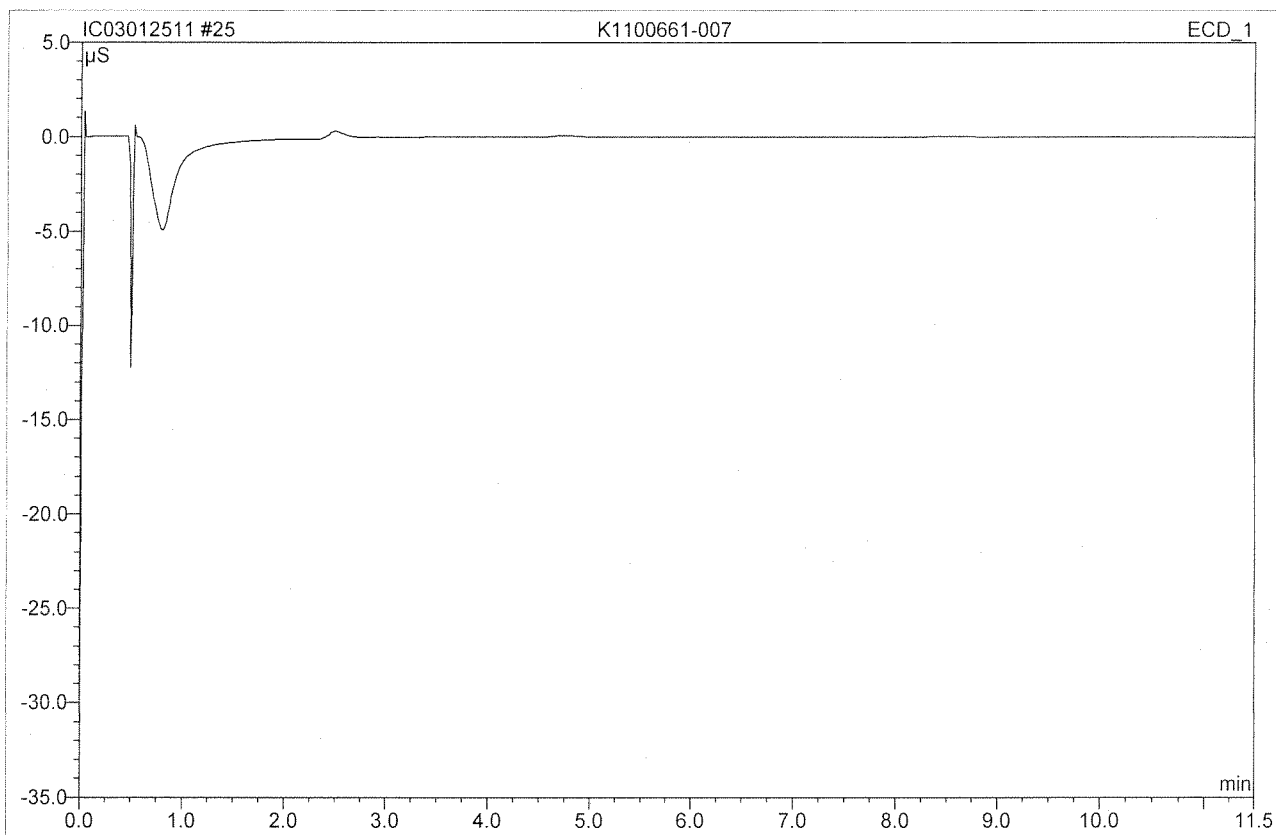
Alter Initials *nb*

JAN 25 2011

BAKOTICH

Peak/Peak not Found
Shoulder incorrect
L1

25 K1100661-007			
Sample Name:	K1100661-007	Injection Volume:	200.0
Vial Number:	27	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 13:25	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

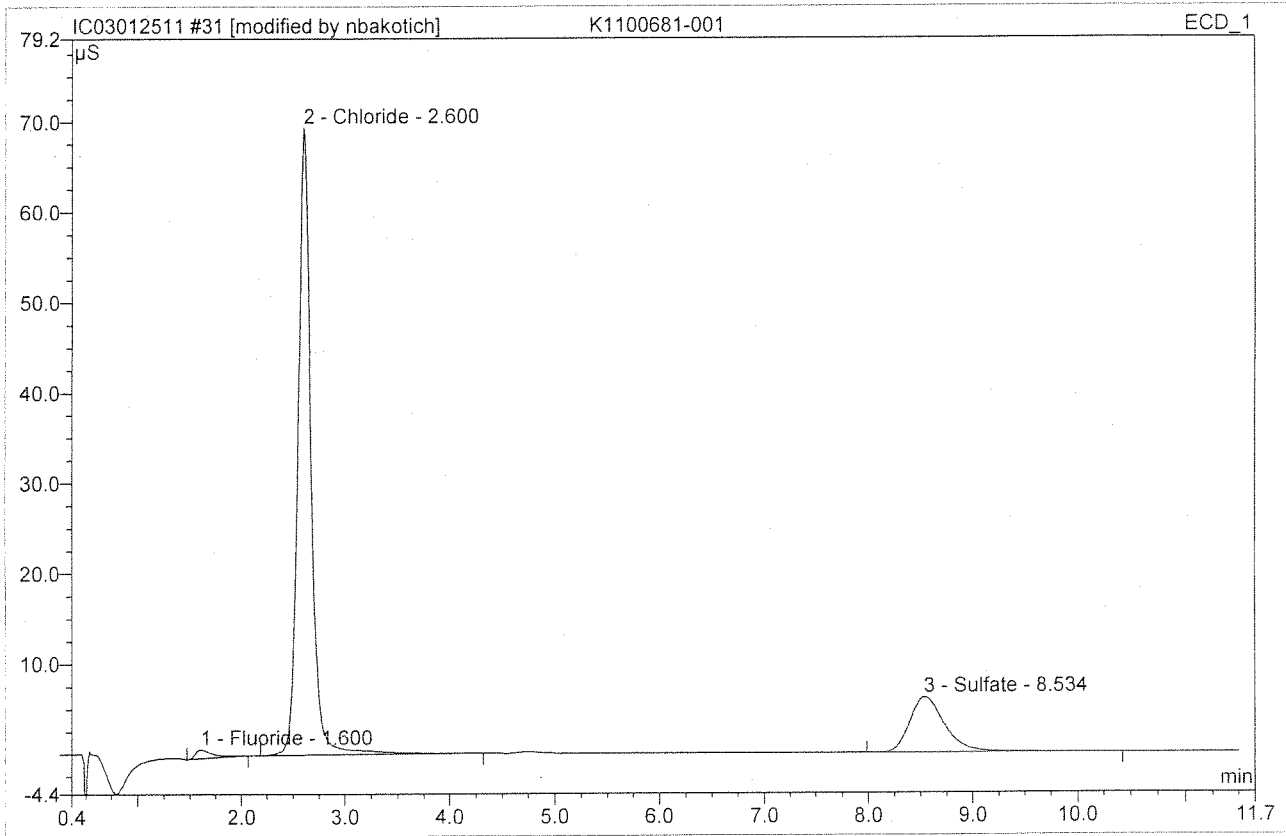


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

Before

JAN 25 2011

31 K1100681-001			
Sample Name:	K1100681-001	Injection Volume:	200.0
Vial Number:	33	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 14:49	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride <i>x=20.10 RPD=</i>	0.985	0.189	1.48	0.188	BMB*
2	2.60	Chloride <i>x=14.0 RPD<1</i>	69.408	10.244	79.76	13.923	BMB*
3	8.53	Sulfate <i>x=503 RPD=2</i>	6.125	2.410	18.76	5.081	BMB
Total:			76.518	12.843	100.00	19.192	

NO₂ <0.10
NO₃ ↓
x=20.10 RPD=
↓
After Initials

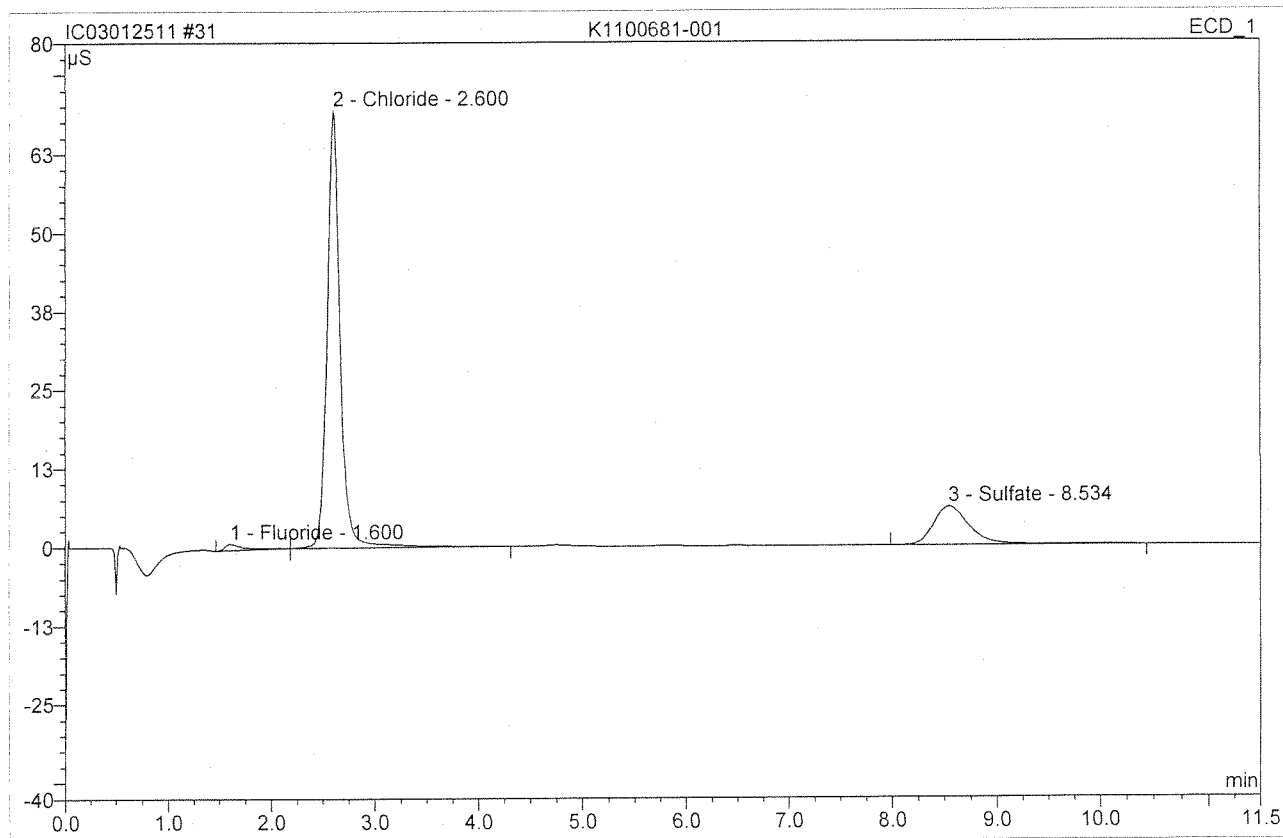
JAN 25 2011

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

54113111

31 K1100681-001

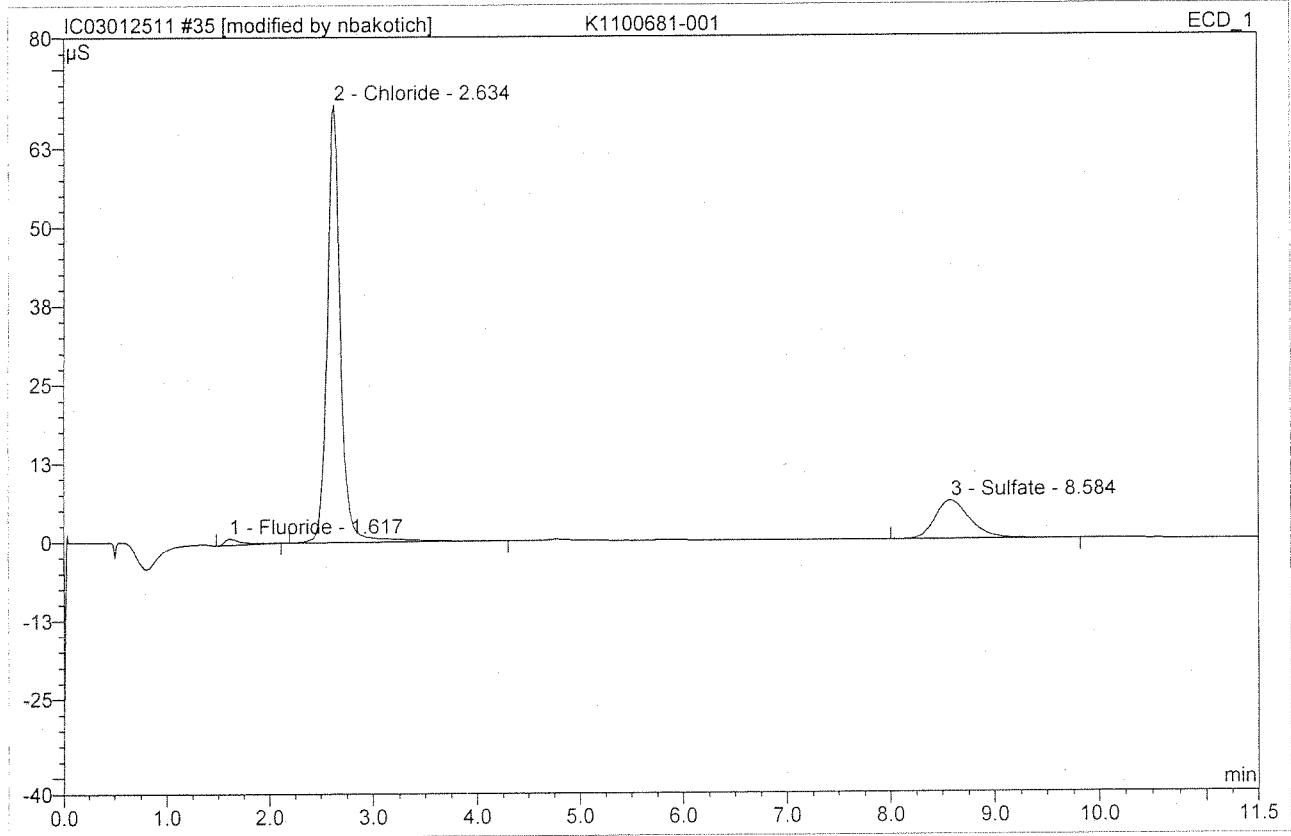
Sample Name:	K1100681-001	Injection Volume:	200.0
Vial Number:	33	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 14:49	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	1.001	0.216	1.68	0.214	BMB
2	2.60	Chloride	69.408	10.244	79.60	13.923	bMB
3	8.53	Sulfate	6.125	2.410	18.73	5.081	BMB
Total:			76.534	12.870	100.00	19.218	

Before**JAN 25 2011**

35 K1100681-001			
D			
Sample Name:	K1100681-001	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 16:08	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	0.992	0.199	1.55	0.197	BMB*
2	2.63	Chloride	69.458	10.300	80.07	13.999	BMB*
3	8.58	Sulfate	6.099	2.364	18.38	4.984	BMB
Total:			76.549	12.863	100.00	19.181	

NO₂ < 0.10
NO₃ ↓

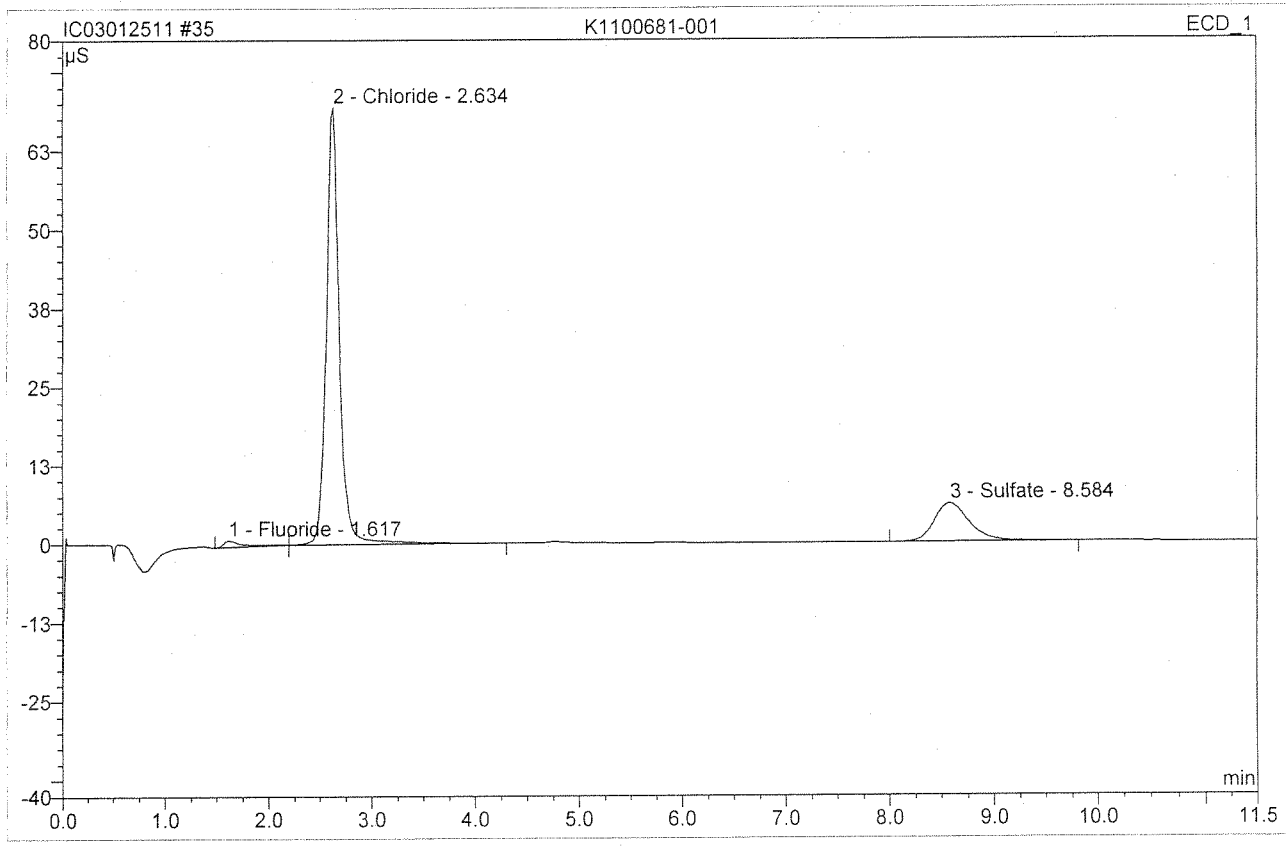
After Initials MB

IAN 2 5 2011

3-10-11

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

35 K1100681-001			
D			
Sample Name:	K1100681-001	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 16:08	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

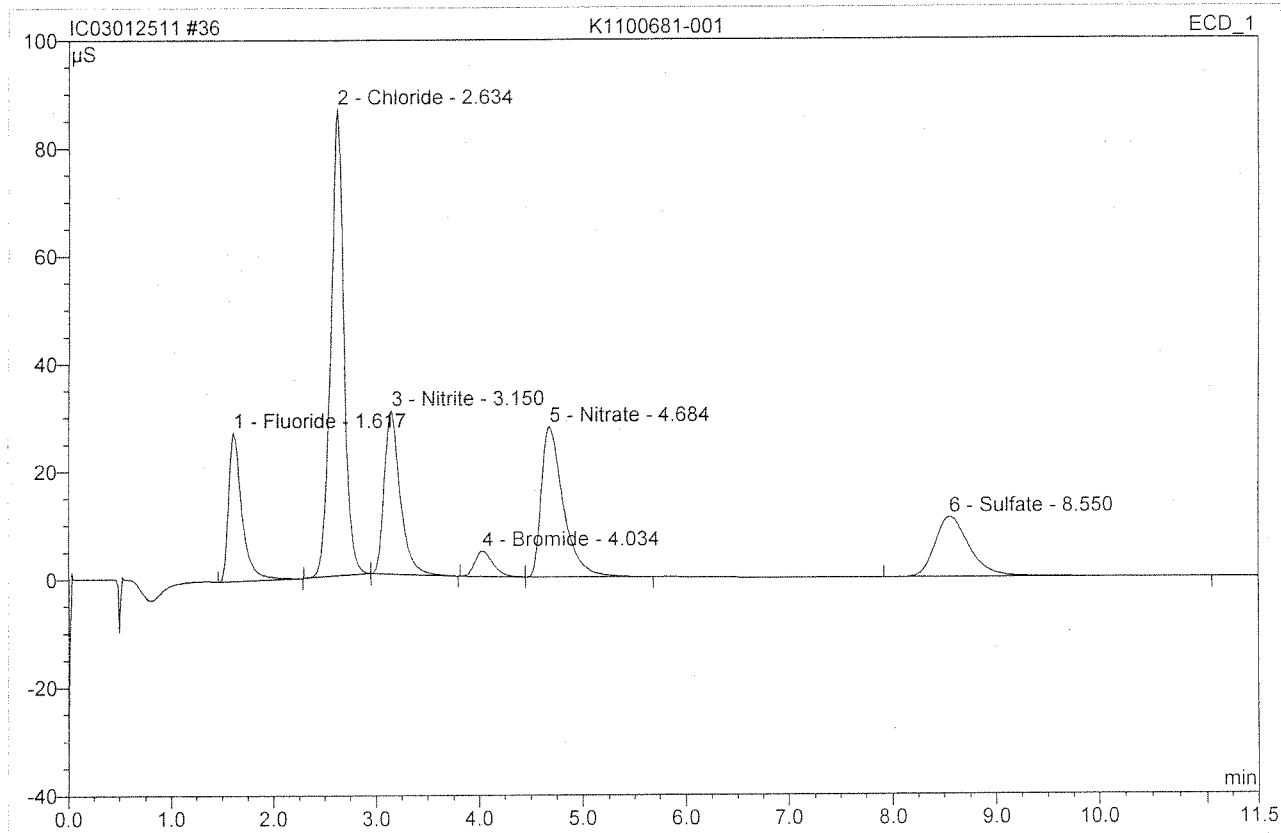


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	1.004	0.218	1.70	0.217	BMB
2	2.63	Chloride	69.458	10.300	79.95	13.999	bMB
3	8.58	Sulfate	6.099	2.364	18.35	4.984	BMB
Total:			76.561	12.882	100.00	19.200	

Before

JAN 25 2011

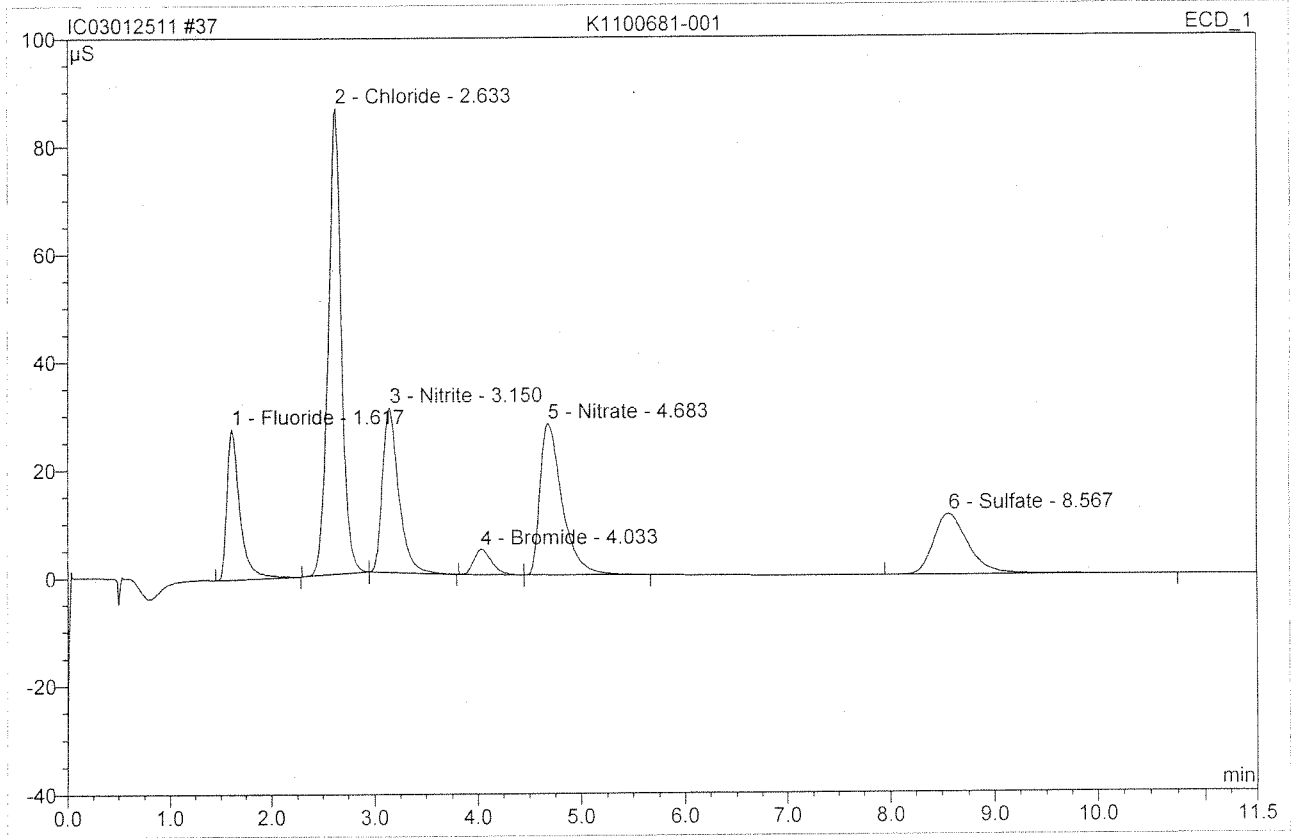
36 K1100681-001			
MS			
Sample Name:	K1100681-001	Injection Volume:	200.0
Vial Number:	38	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 16:22	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride <i>REC=102</i>	27.601	4.134	11.93	4.101	BMB
2	2.63	Chloride <i>REC=90</i>	86.558	12.879	37.18	17.505	BMb
3	3.15	Nitrite <i>REC=95</i>	30.356	5.461	15.76	3.805	bMB
4	4.03	Bromide —	4.690	0.945	2.73	3.778	BMb
5	4.68	Nitrate <i>REC=95</i>	27.900	6.847	19.77	3.804	bMB
6	8.55	Sulfate <i>REC=104</i>	11.192	4.375	12.63	9.224	BMB
Total:			188.296	34.641	100.00	42.217	

*spk lvl
41*

37 K1100681-001			
MSD			
Sample Name:	K1100681-001	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 16:36	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

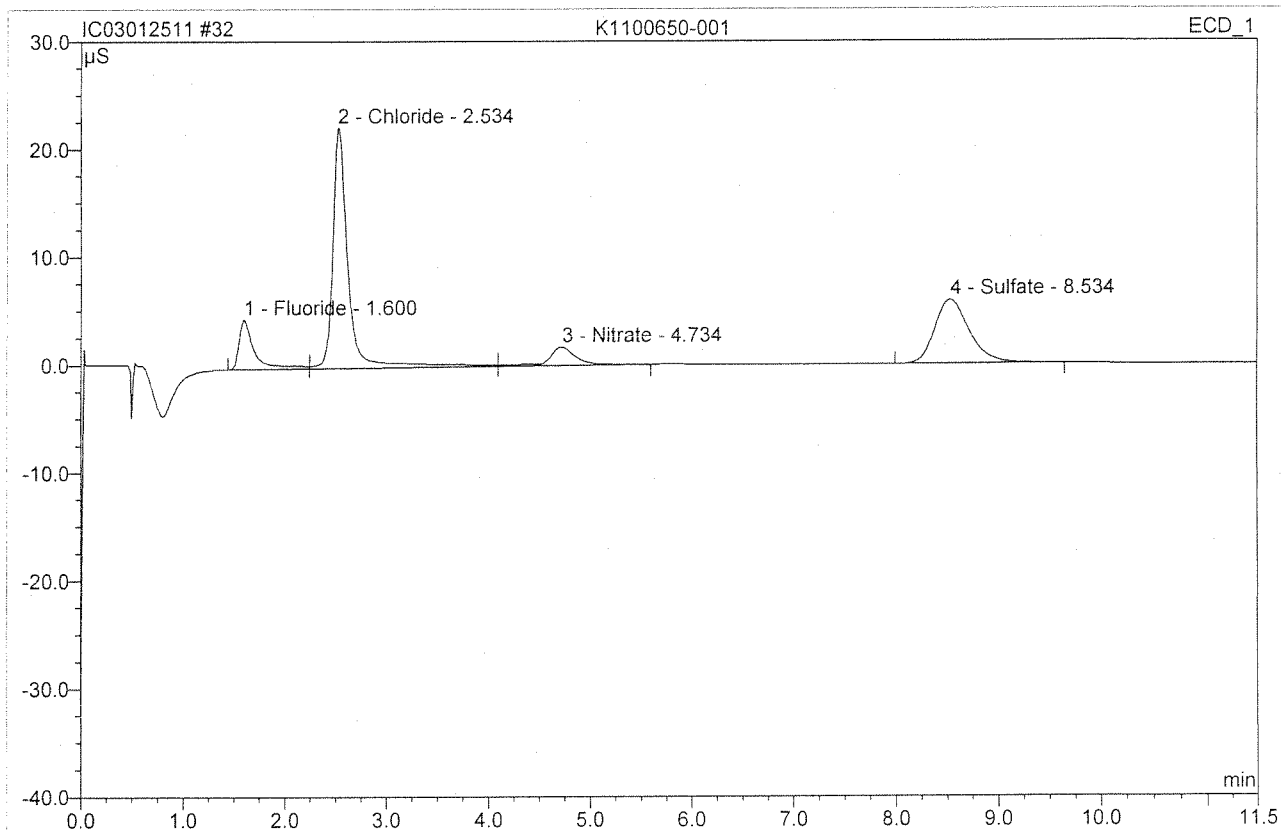


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride REC=104	27.881	4.174	11.93	4.141	BMB
2	2.63	Chloride REC=95	86.396	13.045	37.27	17.731	BMB
3	3.15	Nitrite REC=96	30.564	5.525	15.79	3.850	bMB
4	4.03	Bromide	4.718	0.954	2.72	3.814	BMb
5	4.68	Nitrate REC=97	28.098	6.946	19.84	3.859	bMB
6	8.57	Sulfate REC=103	11.233	4.358	12.45	9.189	BMB
Total:			188.891	35.003	100.00	42.583	

spk lv 1
41

32 K1100650-001

Sample Name:	K1100650-001	Injection Volume:	200.0
Vial Number:	34	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 15:03	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

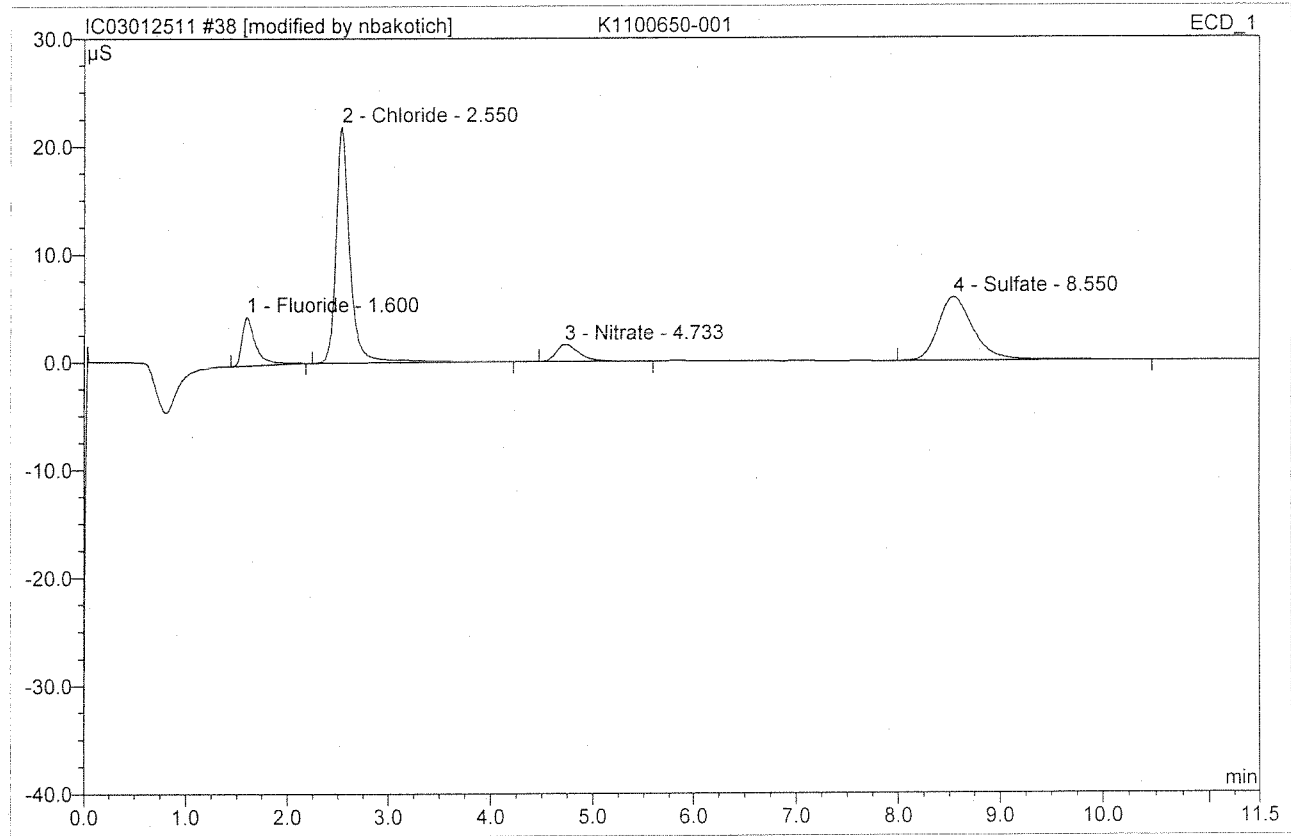


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	4.588	0.837	10.94	0.830	BM
2	2.53	Chloride	22.264	3.977	51.97	5.406	M
3	4.73	Nitrate	1.692	0.535	6.99	0.297	MB
4	8.53	Sulfate	5.895	2.304	30.11	4.858	BMB
Total:			34.439	7.654	100.00	11.392	

Before

JAN 25 2011

38 K1100650-001			
D			
Sample Name:	K1100650-001	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 16:50	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



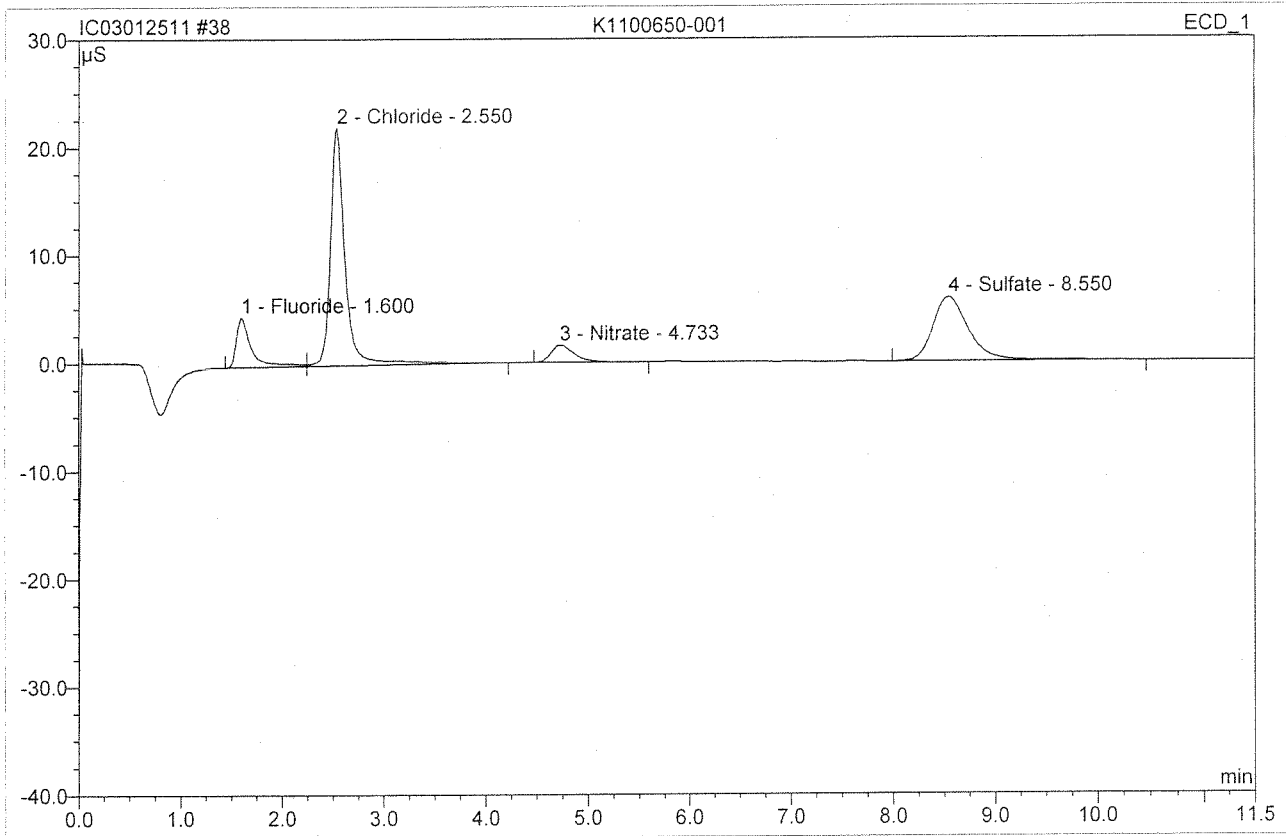
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	4.536	0.725	10.22	0.719	BMB*
2	2.55	Chloride	21.899	3.604	50.81	4.899	BMB*
3	4.73	Nitrate	1.577	0.403	5.68	0.224	BMB
4	8.55	Sulfate	5.883	2.361	33.29	4.979	BMB
Total:			33.896	7.093	100.00	10.820	

After Initials nb

IAN 2 5 2011

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

38 K1100650-001			
D			
Sample Name:	K1100650-001	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 16:50	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

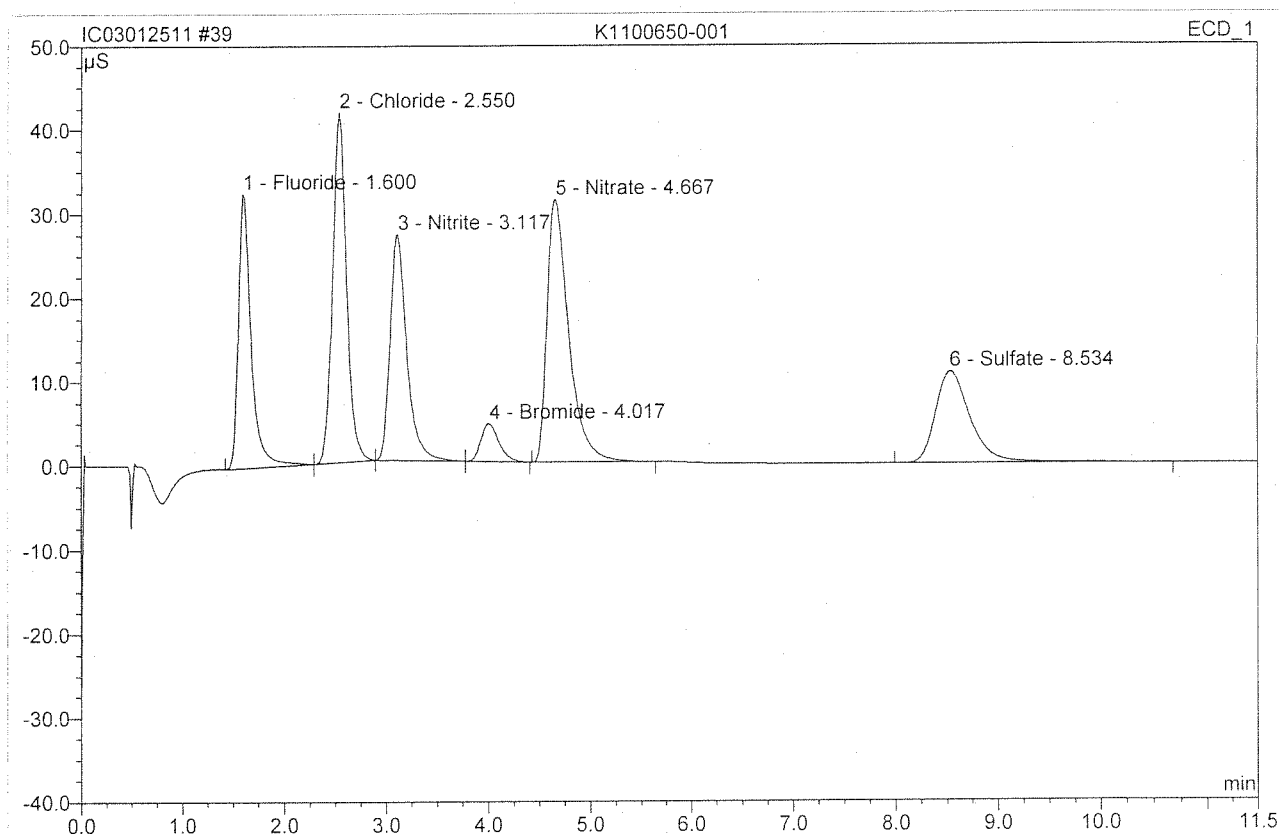


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	4.579	0.816	11.07	0.810	BM
2	2.55	Chloride	22.064	3.798	51.47	5.162	MB
3	4.73	Nitrate	1.577	0.403	5.46	0.224	BMB
4	8.55	Sulfate	5.883	2.361	32.01	4.979	BMB
Total:			34.105	7.378	100.00	11.174	

Before

JAN 25 2011

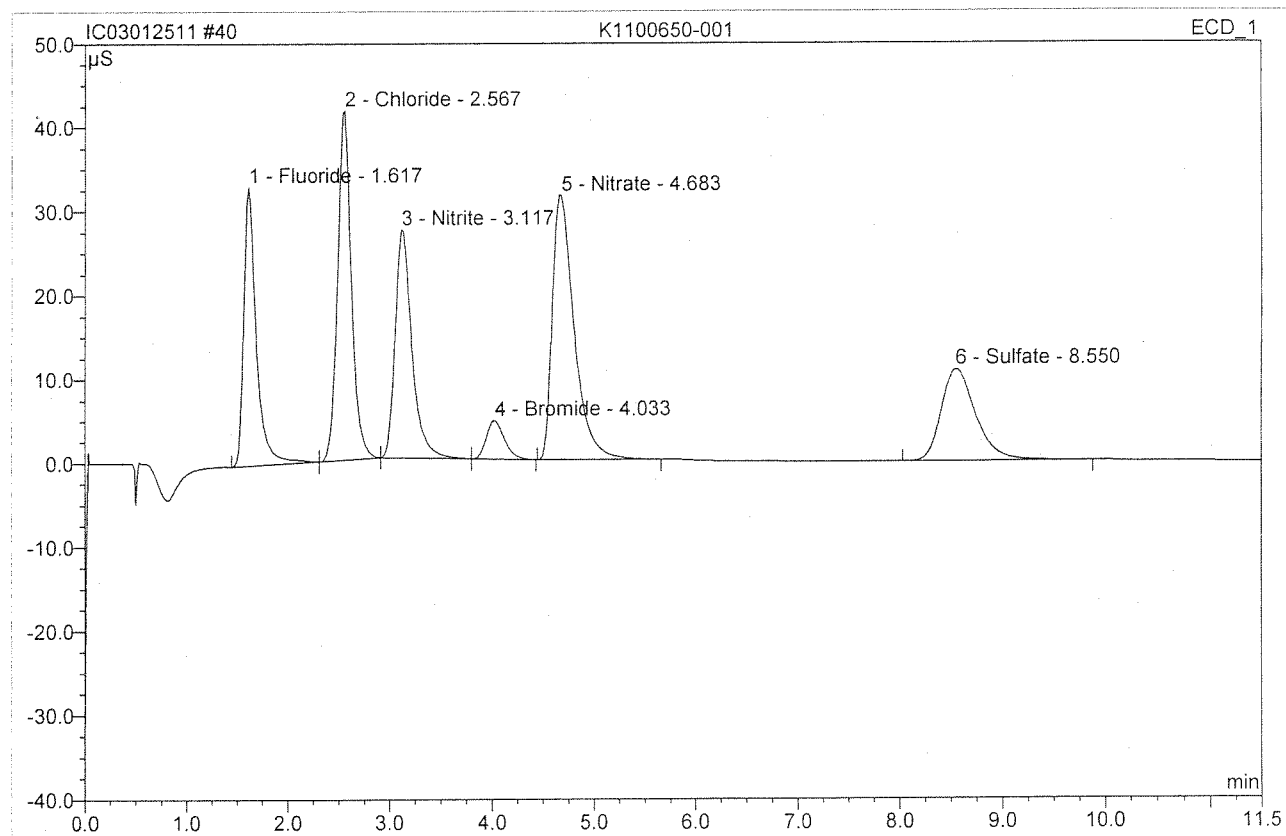
39 K1100650-001			
MS			
Sample Name:	K1100650-001	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 17:04	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride <i>REC=102</i>	32.728	4.839	16.30	4.800	BMB
2	2.55	Chloride <i>REC=102</i>	41.681	6.633	22.35	9.016	bMb
3	3.12	Nitrite <i>REC=90</i>	26.941	5.134	17.30	3.577	bMb
4	4.02	Bromide	4.558	0.939	3.16	3.754	bMB
5	4.67	Nitrate <i>REC=103</i>	31.395	7.821	26.35	4.345	BMB
6	8.53	Sulfate <i>REC=106</i>	10.950	4.316	14.54	9.100	BMB
Total:			148.254	29.682	100.00	34.593	

*SPK W1
4*

40 K1100650-001			
MSD			
Sample Name:	K1100650-001	Injection Volume:	200.0
Vial Number:	42	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 17:18	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride <i>REC=103</i>	33.189	4.863	16.35	4.824	BMB
2	2.57	Chloride <i>REC=103</i>	41.630	6.672	22.44	9.068	bMb
3	3.12	Nitrite <i>REC=90</i>	27.186	5.180	17.42	3.610	bMb
4	4.03	Bromide <i>-</i>	4.574	0.944	3.17	3.775	bMB
5	4.68	Nitrate <i>REC=103</i>	31.532	7.849	26.40	4.361	BMB
6	8.55	Sulfate <i>REC=101</i>	10.964	4.227	14.22	8.912	BMB
Total:			149.076	29.735	100.00	34.550	

*SPK LV1
4*

Sequence # 233726

Ion Chromatography Data Quality Report
Inorganics

Run # 1003012511

- 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

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>AN1-33-CC</u>	Expires: <u>3.3.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0824-10-01</u>	Expires: <u>3.11</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN1-33-X</u>	Expires: <u>1.25.11</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>-</u>
Nitrate	True Value = 15.2 ppm	CAS ID # = <u>AN1-34-F</u>	Expires: <u>7.21.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0824-10-01</u>	Expires: <u>3.11</u>

CCV	CAS ID # = <u>AN1-85-0</u>	Expires <u>1.25.11</u>	
Fluoride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>2.4.28.11</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-AA</u>	Expires: <u>2.5.11</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>11.28.11</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-34-E</u>	Expires: <u>-</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-W</u>	Expires: <u>1.30.11</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-BB</u>	Expires: <u>2.5.11</u>

Spike			
2.0ppm X dilution factor	CAS ID# = <u>AN1-75-N</u>	Expires <u>1.25.11</u>	
Fluoride	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>CCV</u>	
Chloride	10K CAS ID # = <u>AN1-33-AA</u>	Expires: <u>J</u>	
Nitrite	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>J</u>	
Bromide	10K CAS ID # = <u>AN1-33-U</u>	Expires: <u>J</u>	
Nitrate	10K CAS ID # = <u>AN1-33-W</u>	Expires: <u>J</u>	
Sulfate	10K CAS ID # = <u>AN1-33-BB</u>	Expires: <u>J</u>	

Analyst: MB Date: 1.25.11

First Review: ↓ Date: 1.25/26.11

Final Review: 317 Date: 1/27/11

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Analytical Results Summary

Instrument Name: K-IC-03

Analyst: NBAKOTICH

Analysis Lot:

233726

Method/Testcode: 300.0/SO4

<u>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>
0636-004	Sulfate	N/A		Water	3.84 mg/L	5 mL	3.84 mg/L	2	0.02	0.40			1/25/11 15:17:00	N II
0636-006	Sulfate	N/A		Water	8.39 mg/L	5 mL	8.39 mg/L	2	0.02	0.40			1/25/11 15:31:00	N II
0650-001	Fluoride	N/A		Drinking Water	0.71 mg/L	5 mL	0.71 mg/L	2	0.006	0.40			1/25/11 15:03:00	N I
0659-002	Sulfate	N/A		Water	25.55 mg/L	5 mL	25.5 mg/L	20	0.2	4.0			1/25/11 13:53:00	N II
0661-001	Chloride	N/A		Water	70.71 mg/L	5 mL	70.7 mg/L	10	0.3	2.0			1/25/11 18:00:00	N IV
0661-001	Fluoride	N/A		Water	0.50 mg/L	5 mL	0.50 mg/L	2	0.006	0.40			1/25/11 12:01:00	N IV
0661-001	Sulfate	N/A		Water	31.40 mg/L	5 mL	31.4 mg/L	10	0.1	2.0			1/25/11 18:00:00	N IV
0661-002	Fluoride	N/A		Water	0.32 mg/L	5 mL	0.32 mg/L	2	0.006	0.40			1/25/11 12:15:00	N IV
0661-003	Chloride	N/A		Water	444.95 mg/L	5 mL	445 mg/L	100	3	20			1/25/11 18:14:00	N IV
0661-003	Fluoride	N/A		Water	0.17 mg/L	5 mL	0.17 mg/L	2	0.006	0.40			1/25/11 12:29:00	N IV
0661-003	Sulfate	N/A		Water	45.11 mg/L	5 mL	45.1 mg/L	10	0.1	2.0			1/25/11 18:28:00	N IV
0661-004	Chloride	N/A		Water	17.90 mg/L	5 mL	17.9 mg/L	5	0.2	1.0			1/25/11 18:42:00	N IV
0661-004	Fluoride	N/A		Water	0.44 mg/L	5 mL	0.44 mg/L	2	0.006	0.40			1/25/11 12:43:00	N IV
0661-004	Sulfate	N/A		Water	39.46 mg/L	5 mL	39.5 mg/L	5	0.05	1.0			1/25/11 18:42:00	N IV
0661-005	Chloride	N/A		Water	18.97 mg/L	5 mL	19.0 mg/L	5	0.2	1.0			1/25/11 18:56:00	N IV
0661-005	Fluoride	N/A		Water	0.30 mg/L	5 mL	0.30 mg/L	2	0.006	0.40			1/25/11 12:57:00	N IV
0661-005	Sulfate	N/A		Water	36.70 mg/L	5 mL	36.7 mg/L	5	0.05	1.0			1/25/11 18:56:00	N IV
0661-006	Chloride	N/A		Water	0.38 mg/L	5 mL	0.38 mg/L	2	0.06	0.40			1/25/11 13:11:00	N IV
0661-006	Fluoride	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			1/25/11 13:11:00	N IV
0661-006	Sulfate	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.02	0.40			1/25/11 13:11:00	N IV
0661-007	Chloride	N/A		Water	0.11 mg/L	5 mL	0.11 mg/L	2	0.06	0.40			1/25/11 13:25:00	N IV
0661-007	Fluoride	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			1/25/11 13:25:00	N IV
0661-007	Sulfate	N/A		Water	0.04 mg/L	5 mL	0.04 mg/L	2	0.02	0.40			1/25/11 13:25:00	N IV
0681-001	Chloride	N/A		Drinking Water	13.92 mg/L	5 mL	13.9 mg/L	2	0.06	0.40			1/25/11 14:49:00	N I
0681-001	Fluoride	N/A		Drinking Water	0.19 mg/L	5 mL	0.40 mg/L	2	0.006	0.40			1/25/11 14:49:00	N I
0681-001	Nitrate as Nitrogen	N/A		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.008	0.10			1/25/11 14:49:00	N I
0681-001	Nitrite as Nitrogen	N/A		Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10			1/25/11 14:49:00	N I
0681-001	Sulfate	N/A		Drinking Water	5.08 mg/L	5 mL	5.08 mg/L	2	0.02	0.40			1/25/11 14:49:00	N I
0686-001	Chloride	N/A		Water	5.88 mg/L	5 mL	5.88 mg/L	2	0.06	0.40			1/25/11 20:34:00	N II
0686-002	Chloride	N/A		Water	6.27 mg/L	5 mL	6.27 mg/L	2	0.06	0.40			1/25/11 20:48:00	N II
0686-003	Chloride	N/A		Water	6.26 mg/L	5 mL	6.26 mg/L	2	0.06	0.40			1/25/11 21:02:00	N II
0686-004	Chloride	N/A		Water	6.19 mg/L	5 mL	6.19 mg/L	2	0.06	0.40			1/25/11 21:16:00	N II
0686-005	Chloride	N/A		Water	6.17 mg/L	5 mL	6.17 mg/L	2	0.06	0.40			1/25/11 21:30:00	N II
0686-006	Chloride	N/A		Water	6.11 mg/L	5 mL	6.11 mg/L	2	0.06	0.40			1/25/11 21:44:00	N II

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

Analytical Results Summary

runment Name: K-JC-03

Analyst: NBAKOTICH

Analysis Lot: 233726

Method/Testcode: 300.0/Chloride

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC?	Tier
0686-007	Chloride	N/A		Water	6.06 mg/L	5 mL	6.06 mg/L	2	0.06	0.40			1/25/11 21:58:00	N	II
00733-01	Chloride	MS	K1100681-001	Drinking Water	17.51 mg/L	5 mL	17.5 mg/L	2	0.06	0.40	90		1/25/11 16:22:00	N	I
00733-01	Fluoride	MS	K1100681-001	Drinking Water	4.10 mg/L	5 mL	4.10 mg/L	2	0.006	0.40	103		1/25/11 16:22:00	N	I
00733-01	Nitrate as Nitrogen	MS	K1100681-001	Drinking Water	3.80 mg/L	5 mL	3.80 mg/L	2	0.008	0.10	95		1/25/11 16:22:00	N	I
00733-01	Nitrite as Nitrogen	MS	K1100681-001	Drinking Water	3.81 mg/L	5 mL	3.81 mg/L	2	0.004	0.10	95		1/25/11 16:22:00	N	I
00733-01	Sulfate	MS	K1100681-001	Drinking Water	9.22 mg/L	5 mL	9.22 mg/L	2	0.02	0.40	104		1/25/11 16:22:00	N	I
00733-02	Chloride	DMS	K1100681-001	Drinking Water	17.73 mg/L	5 mL	17.7 mg/L	2	0.06	0.40	95	1	1/25/11 16:36:00	N	I
00733-02	Fluoride	DMS	K1100681-001	Drinking Water	4.14 mg/L	5 mL	4.14 mg/L	2	0.006	0.40	104	<1	1/25/11 16:36:00	N	I
00733-02	Nitrate as Nitrogen	DMS	K1100681-001	Drinking Water	3.86 mg/L	5 mL	3.86 mg/L	2	0.008	0.10	96	1	1/25/11 16:36:00	N	I
00733-02	Nitrite as Nitrogen	DMS	K1100681-001	Drinking Water	3.85 mg/L	5 mL	3.85 mg/L	2	0.004	0.10	96	1	1/25/11 16:36:00	N	I
00733-02	Sulfate	DMS	K1100681-001	Drinking Water	9.19 mg/L	5 mL	9.19 mg/L	2	0.02	0.40	103	<1	1/25/11 16:36:00	N	I
00733-03	Chloride	DUP	K1100681-001	Drinking Water	14.00 mg/L	5 mL	14.0 mg/L	2	0.06	0.40		<1	1/25/11 16:08:00	N	I
00733-03	Fluoride	DUP	K1100681-001	Drinking Water	0.20 mg/L	5 mL	0.20 mg/L	2	0.006	0.40		NC	1/25/11 16:08:00	N	I
00733-03	Nitrate as Nitrogen	DUP	K1100681-001	Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.008	0.10		NC	1/25/11 16:08:00	N	I
00733-03	Nitrite as Nitrogen	DUP	K1100681-001	Drinking Water	0.00 mg/L	5 mL	0.10 mg/L	2	0.004	0.10		NC	1/25/11 16:08:00	N	I
00733-03	Sulfate	DUP	K1100681-001	Drinking Water	4.98 mg/L	5 mL	4.98 mg/L	2	0.02	0.40		2	1/25/11 16:08:00	N	I
00733-04	Chloride	LCS		Drinking Water	4.73 mg/L	5 mL	4.73 mg/L	1	0.03	0.20	95		1/25/11 10:30:00	N	I
00733-04	Fluoride	LCS		Drinking Water	10.52 mg/L	5 mL	10.5 mg/L	2	0.006	0.40	96		1/25/11 10:44:00	N	I
00733-04	Nitrate as Nitrogen	LCS		Drinking Water	14.84 mg/L	5 mL	14.8 mg/L	5	0.02	0.25	98		1/25/11 10:16:00	N	I
00733-04	Nitrite as Nitrogen	LCS		Drinking Water	100.54 mg/L	5 mL	101 mg/L	25	0.05	1.3	101		1/25/11 09:49:00	N	I
00733-04	Sulfate	LCS		Drinking Water	4.61 mg/L	5 mL	4.61 mg/L	1	0.01	0.20	92		1/25/11 10:30:00	N	I
00733-05	Chloride	MB		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.03	0.20			1/25/11 10:03:00	N	I
00733-05	Fluoride	MB		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.003	0.20			1/25/11 10:03:00	N	I
00733-05	Nitrate as Nitrogen	MB		Drinking Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.004	0.050			1/25/11 10:03:00	N	I
00733-05	Nitrite as Nitrogen	MB		Drinking Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.002	0.050			1/25/11 10:03:00	N	I
00733-05	Sulfate	MB		Drinking Water	0.00 mg/L	5 mL	0.20 mg/L	1	0.01	0.20			1/25/11 10:03:00	N	I

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

Analytical Results Summary

Instrument Name: K-JC-03

Analyst: NBAKOTICH

Analysis Lot:

233726

Method/Testcode: 300.0/F

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC ² Tier
00733-06	Fluoride	MS	K1100650-001	Drinking Water	4.80 mg/L	5 mL	4.80 mg/L	2	0.006	0.40	102		1/25/11 17:04:00	N I
00733-07	Fluoride	DMS	K1100650-001	Drinking Water	4.82 mg/L	5 mL	4.82 mg/L	2	0.006	0.40	103	<1	1/25/11 17:18:00	N I
00733-08	Fluoride	DUP	K1100650-001	Drinking Water	0.72 mg/L	5 mL	0.72 mg/L	2	0.006	0.40			1/25/11 16:50:00	N I
00733-09	Chloride	CCV		Water	4.68 mg/L	5 mL	4.68 mg/L	1					1/25/11 09:21:00	N II
00733-09	Fluoride	CCV		Water	5.03 mg/L	5 mL	5.03 mg/L	1					1/25/11 09:21:00	N II
00733-09	Nitrate as Nitrogen	CCV		Water	1.88 mg/L	5 mL	1.88 mg/L	1					1/25/11 09:21:00	N II
00733-09	Nitrite as Nitrogen	CCV		Water	1.98 mg/L	5 mL	1.98 mg/L	1					1/25/11 09:21:00	N II
00733-09	Sulfate	CCV		Water	4.75 mg/L	5 mL	4.75 mg/L	1					1/25/11 09:21:00	N II
00733-10	Chloride	CCV		Water	4.68 mg/L	5 mL	4.68 mg/L	1					1/25/11 11:12:00	N II
00733-10	Fluoride	CCV		Water	4.95 mg/L	5 mL	4.95 mg/L	1					1/25/11 11:12:00	N II
00733-10	Nitrate as Nitrogen	CCV		Water	1.89 mg/L	5 mL	1.89 mg/L	1					1/25/11 11:12:00	N II
00733-10	Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					1/25/11 11:12:00	N II
00733-10	Sulfate	CCV		Water	4.74 mg/L	5 mL	4.74 mg/L	1					1/25/11 11:12:00	N II
00733-11	Chloride	CCV		Water	4.66 mg/L	5 mL	4.66 mg/L	1					1/25/11 14:21:00	N II
00733-11	Fluoride	CCV		Water	5.00 mg/L	5 mL	5.00 mg/L	1					1/25/11 14:21:00	N II
00733-11	Nitrate as Nitrogen	CCV		Water	1.88 mg/L	5 mL	1.88 mg/L	1					1/25/11 14:21:00	N II
00733-11	Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					1/25/11 14:21:00	N II
00733-11	Sulfate	CCV		Water	4.72 mg/L	5 mL	4.72 mg/L	1					1/25/11 14:21:00	N II
00733-12	Chloride	CCV		Water	4.70 mg/L	5 mL	4.70 mg/L	1					1/25/11 17:32:00	N II
00733-12	Fluoride	CCV		Water	5.05 mg/L	5 mL	5.05 mg/L	1					1/25/11 17:32:00	N II
00733-12	Nitrate as Nitrogen	CCV		Water	1.89 mg/L	5 mL	1.89 mg/L	1					1/25/11 17:32:00	N II
00733-12	Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					1/25/11 17:32:00	N II
00733-12	Sulfate	CCV		Water	4.77 mg/L	5 mL	4.77 mg/L	1					1/25/11 17:32:00	N II
00733-13	Chloride	CCV		Water	4.68 mg/L	5 mL	4.68 mg/L	1					1/25/11 20:06:00	N II
00733-13	Fluoride	CCV		Water	5.04 mg/L	5 mL	5.04 mg/L	1					1/25/11 20:06:00	N II
00733-13	Nitrate as Nitrogen	CCV		Water	1.88 mg/L	5 mL	1.88 mg/L	1					1/25/11 20:06:00	N II
00733-13	Nitrite as Nitrogen	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1					1/25/11 20:06:00	N II
00733-13	Sulfate	CCV		Water	4.63 mg/L	5 mL	4.63 mg/L	1					1/25/11 20:06:00	N II
00733-14	Chloride	CCV		Water	4.72 mg/L	5 mL	4.72 mg/L	1					1/25/11 22:53:00	N II
00733-14	Fluoride	CCV		Water	5.08 mg/L	5 mL	5.08 mg/L	1					1/25/11 22:53:00	N II
00733-14	Nitrate as Nitrogen	CCV		Water	1.87 mg/L	5 mL	1.87 mg/L	1					1/25/11 22:53:00	N II
00733-14	Nitrite as Nitrogen	CCV		Water	1.98 mg/L	5 mL	1.98 mg/L	1					1/25/11 22:53:00	N II
00733-14	Sulfate	CCV		Water	4.79 mg/L	5 mL	4.79 mg/L	1					1/25/11 22:53:00	N II
00733-15	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			1/25/11 09:35:00	N II

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

Analytical Results Summary

Runment Name: K-IC-03

Analyst: NBAKOTICH

Analysis Lot: 233726

Method/Testcode: 300.0/F

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
00733-15	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 09:35:00	N II
00733-15	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 09:35:00	N II
00733-15	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 09:35:00	N II
00733-15	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 09:35:00	N II
00733-16	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 11:26:00	N II
00733-16	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 11:26:00	N II
00733-16	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 11:26:00	N II
00733-16	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 11:26:00	N II
00733-16	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 11:26:00	N II
00733-17	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 14:35:00	N II
00733-17	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 14:35:00	N II
00733-17	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 14:35:00	N II
00733-17	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 14:35:00	N II
00733-17	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 14:35:00	N II
00733-18	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 17:46:00	N II
00733-18	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 17:46:00	N II
00733-18	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 17:46:00	N II
00733-18	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 17:46:00	N II
00733-18	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 17:46:00	N II
00733-19	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 20:20:00	N II
00733-19	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 20:20:00	N II
00733-19	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 20:20:00	N II
00733-19	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 20:20:00	N II
00733-19	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 20:20:00	N II
00733-20	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 23:07:00	N II
00733-20	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 23:07:00	N II
00733-20	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 23:07:00	N II
00733-20	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L U 1	1	0.050	0.050			1/25/11 23:07:00	N II
00733-20	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L U 1	1	0.20	0.20			1/25/11 23:07:00	N II

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

Title:
 Datasource: ACQWET10_local
 Location: DX120A
 Timebase: DX120
 #Samples: 65











































Created: 1/25/2011 9:20:03 AM by ACQWET10
 Last Update: 1/26/2011 9:55:45 AM by nbakotich

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/vl2	Standard	2	200.0	epa300	epa300	Finished	11/22/2010 2:11:37 PM
2	std3/vl3	Standard	1	200.0	epa300	epa300	Finished	11/22/2010 2:26:35 PM
3	std4/vl4	Standard	2	200.0	epa300	epa300	Finished	11/22/2010 2:41:33 PM
4	std5/vl5	Standard	3	200.0	epa300	epa300	Finished	11/22/2010 2:56:30 PM
5	std6/vl6	Standard	4	200.0	epa300	epa300	Finished	11/22/2010 3:11:28 PM
6	std7/vl7	Standard	5	200.0	epa300	epa300	Finished	11/22/2010 3:26:25 PM
7	std8/vl8	Standard	6	200.0	epa300	epa300	Finished	11/22/2010 3:41:23 PM
8	std1/vl1	Standard	7	200.0	epa300	epa300	Finished	11/22/2010 3:56:20 PM
9	CCV1 AN11-85-O	Unknown	8	200.0	epa300	epa300	Finished	1/25/2011 9:21:07 AM
10	CCB1	Unknown	10	200.0	epa300	epa300	Finished	1/25/2011 9:35:05 AM
11	NO2 AN11-33-X	Unknown	11	200.0	epa300	epa300	Finished	1/25/2011 9:49:02 AM
12	MB	Unknown	12	200.0	epa300	epa300	Finished	1/25/2011 10:03:00 AM
13	NO3	Unknown	13	200.0	epa300	epa300	Finished	1/25/2011 10:16:58 AM
14	CLSO4	Unknown	14	200.0	epa300	epa300	Finished	1/25/2011 10:30:56 AM
15	F	Unknown	15	200.0	epa300	epa300	Finished	1/25/2011 10:44:54 AM
16	SPKCHK AN11-75-N	Unknown	18	200.0	epa300	epa300	Finished	1/25/2011 10:58:52 AM
17	CCV2	Unknown	19	200.0	epa300	epa300	Finished	1/25/2011 11:12:49 AM
18	CCB2	Unknown	20	200.0	epa300	epa300	Finished	1/25/2011 11:26:47 AM
19	K1100661-001	Unknown	21	200.0	epa300	epa300	Finished	1/25/2011 12:01:44 PM
20	K1100661-002	Unknown	22	200.0	epa300	epa300	Finished	1/25/2011 12:15:42 PM
21	K1100661-003	Unknown	23	200.0	epa300	epa300	Finished	1/25/2011 12:29:40 PM
22	K1100661-004	Unknown	24	200.0	epa300	epa300	Finished	1/25/2011 12:43:38 PM
23	K1100661-005	Unknown	25	200.0	epa300	epa300	Finished	1/25/2011 12:57:36 PM
24	K1100661-006	Unknown	26	200.0	epa300	epa300	Finished	1/25/2011 1:11:34 PM
25	K1100661-007	Unknown	27	200.0	epa300	epa300	Finished	1/25/2011 1:25:32 PM
26	K1100659-001	Unknown	28	200.0	epa300	epa300	Finished	1/25/2011 1:39:30 PM
27	K1100659-002	Unknown	29	200.0	epa300	epa300	Finished	1/25/2011 1:53:27 PM
28	RB	Unknown	30	200.0	epa300	epa300	Finished	1/25/2011 2:07:25 PM
29	CCV3	Unknown	31	200.0	epa300	epa300	Finished	1/25/2011 2:21:22 PM
30	CCB3	Unknown	32	200.0	epa300	epa300	Finished	1/25/2011 2:35:20 PM
31	K1100681-001	Unknown	33	200.0	epa300	epa300	Finished	1/25/2011 2:49:18 PM
32	K1100650-001	Unknown	34	200.0	epa300	epa300	Finished	1/25/2011 3:03:16 PM
33	K1100636-004	Unknown	35	200.0	epa300	epa300	Finished	1/25/2011 3:17:14 PM
34	K1100636-006	Unknown	36	200.0	epa300	epa300	Finished	1/25/2011 3:31:11 PM
35	K1100681-001	Unknown	37	200.0	epa300	epa300	Finished	1/25/2011 4:08:59 PM
36	K1100681-001	Unknown	38	200.0	epa300	epa300	Finished	1/25/2011 4:22:56 PM
37	K1100681-001	Unknown	39	200.0	epa300	epa300	Finished	1/25/2011 4:36:54 PM
38	K1100650-001	Unknown	40	200.0	epa300	epa300	Finished	1/25/2011 4:50:52 PM
39	K1100650-001	Unknown	41	200.0	epa300	epa300	Finished	1/25/2011 5:04:49 PM
40	K1100650-001	Unknown	42	200.0	epa300	epa300	Finished	1/25/2011 5:18:47 PM
41	CCV4	Unknown	43	200.0	epa300	epa300	Finished	1/25/2011 5:32:44 PM
42	CCB4	Unknown	44	200.0	epa300	epa300	Finished	1/25/2011 5:46:43 PM

Sequence: IC03012511
Operator: nbakotich

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 65

Created: 1/25/2011 9:20:03 AM by ACQWET10
Last Update: 1/26/2011 9:55:45 AM by nbakotich

No.	Name	Dil. Factor	Comment
1	 std2/lv2	1.0000	
2	 std3/lv3	1.0000	
3	 std4/lv4	1.0000	
4	 std5/lv5	1.0000	
5	 std6/lv6	1.0000	
6	 std7/lv7	1.0000	
7	 std8/lv8	1.0000	
8	 std1/lv1	1.0000	
9	 CCV1 AN11-85-O	1.0000	
10	 CCB1	1.0000	
11	 NO2 AN11-33-X	25.0000	NO2
12	 MB	1.0000	MB
13	 NO3	5.0000	NO3
14	 CLSO4	1.0000	CLSO4
15	 F	2.0000	F
16	 .SPKCHK AN11-75-N	1.0000	SPKCHK
17	 CCV2	1.0000	CCV2
18	 CCB2	1.0000	CCB2
19	 K1100661-001	2.0000	
20	 K1100661-002	2.0000	
21	 K1100661-003	2.0000	
22	 K1100661-004	2.0000	
23	 K1100661-005	2.0000	
24	 K1100661-006	2.0000	
25	 K1100661-007	2.0000	
26	 K1100659-001	20.0000	
27	 K1100659-002	20.0000	
28	 RB	1.0000	
29	 CCV3	1.0000	CCV3
30	 CCB3	1.0000	CCB3
31	 K1100681-001	2.0000	
32	 K1100650-001	2.0000	
33	 K1100636-004	2.0000	
34	 K1100636-006	2.0000	
35	 K1100681-001	2.0000	D
36	 K1100681-001	2.0000	MS
37	 K1100681-001	2.0000	MSD
38	 K1100650-001	2.0000	D
39	 K1100650-001	2.0000	MS
40	 K1100650-001	2.0000	MSD
41	 CCV4	1.0000	CCV4
42	 CCB4	1.0000	CCB4

Sequence: IC03012511
Operator: nbakotich

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 65

Created: 1/25/2011 9:20:03 AM by ACQWET10
Last Update: 1/26/2011 9:55:45 AM by nbakotich
























No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	K1100661-001	Unknown	45	200.0	epa300	epa300	Finished	1/25/2011 6:00:41 PM
44	K1100661-003	Unknown	46	200.0	epa300	epa300	Finished	1/25/2011 6:14:38 PM
45	K1100661-003	Unknown	47	200.0	epa300	epa300	Finished	1/25/2011 6:28:36 PM
46	K1100661-004	Unknown	48	200.0	epa300	epa300	Finished	1/25/2011 6:42:33 PM
47	K1100661-005	Unknown	49	200.0	epa300	epa300	Finished	1/25/2011 6:56:31 PM
48	RB	Unknown	50	200.0	epa300	epa300	Finished	1/25/2011 7:10:28 PM
49	RB	Unknown	51	200.0	epa300	epa300	Finished	1/25/2011 7:24:25 PM
50	RB	Unknown	52	200.0	epa300	epa300	Finished	1/25/2011 7:38:23 PM
51	RB	Unknown	53	200.0	epa300	epa300	Finished	1/25/2011 7:52:21 PM
52	CCV5	Unknown	54	200.0	epa300	epa300	Finished	1/25/2011 8:06:19 PM
53	CCB5	Unknown	55	200.0	epa300	epa300	Finished	1/25/2011 8:20:16 PM
54	K1100686-001	Unknown	56	200.0	epa300	epa300	Finished	1/25/2011 8:34:14 PM
55	K1100686-002	Unknown	57	200.0	epa300	epa300	Finished	1/25/2011 8:48:12 PM
56	K1100686-003	Unknown	58	200.0	epa300	epa300	Finished	1/25/2011 9:02:10 PM
57	K1100686-004	Unknown	59	200.0	epa300	epa300	Finished	1/25/2011 9:16:08 PM
58	K1100686-005	Unknown	60	200.0	epa300	epa300	Finished	1/25/2011 9:30:06 PM
59	K1100686-006	Unknown	61	200.0	epa300	epa300	Finished	1/25/2011 9:44:03 PM
60	K1100686-007	Unknown	62	200.0	epa300	epa300	Finished	1/25/2011 9:58:01 PM
61	RB	Unknown	63	200.0	epa300	epa300	Finished	1/25/2011 10:11:58 PM
62	RB	Unknown	64	200.0	epa300	epa300	Finished	1/25/2011 10:25:57 PM
63	RB	Unknown	65	200.0	epa300	epa300	Finished	1/25/2011 10:39:55 PM
64	CCV6	Unknown	66	200.0	epa300	epa300	Finished	1/25/2011 10:53:53 PM
65	CCB6	Unknown	67	200.0	epa300	epa300	Finished	1/25/2011 11:07:50 PM

Sequence: IC03012511
Operator: nbakotich

Page 4 of 4
Printed: 1/26/2011 10:14:31 AM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 65

Created: 1/25/2011 9:20:03 AM by ACQWET10
Last Update: 1/26/2011 9:55:45 AM by nbakotich

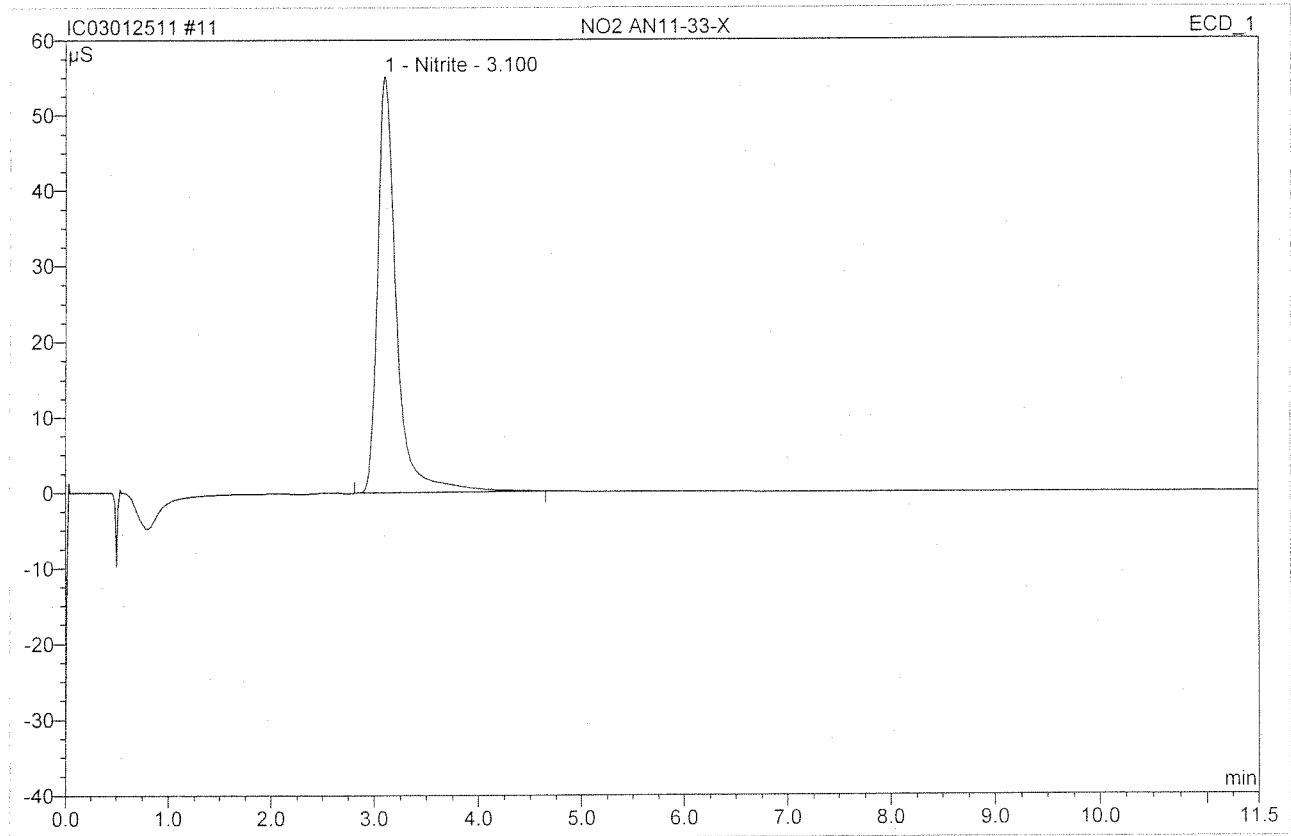
No.	Name	Dil. Factor	Comment
43	 K1100661-001	10.0000	
44	 K1100661-003	100.0000	
45	 K1100661-003	10.0000	
46	 K1100661-004	5.0000	
47	 K1100661-005	5.0000	
48	 RB	1.0000	
49	 RB	1.0000	
50	 RB	1.0000	
51	 RB	1.0000	
52	 CCV5	1.0000	CCV5
53	 CCB5	1.0000	CCB5
54	 K1100686-001	2.0000	
55	 K1100686-002	2.0000	
56	 K1100686-003	2.0000	
57	 K1100686-004	2.0000	
58	 K1100686-005	2.0000	
59	 K1100686-006	2.0000	
60	 K1100686-007	2.0000	
61	 RB	1.0000	
62	 RB	1.0000	
63	 RB	1.0000	
64	 CCV6	1.0000	CCV6
65	 CCB6	1.0000	CCB6

636-4	11				F			
					Cl			
					NO2			
					Br			
					NO3			
					(SO4)	2.515		
-6					F			
					Cl			
					NO2			
					Br			
					NO3			
					(SO4)	✓		
661-1	1V				(F)			✓
					Cl	0.515		✓
					NO2	↓		
					Br			
					NO3			
					(SO4)	↓		✓
-2					(F)			✓
					Cl	0.515		
					NO2	↓		
					Br			
					NO3			
					(SO4)	↓		
-3					(F)			✓
					Cl	1/100		✓
					NO2			
					Br			
					NO3			
					(SO4)	0.515		✓
-4					(F)			✓
					Cl	0.515		✓
					NO2	↓		
					Br			
					NO3			
					(SO4)	↓		✓
-5					(F)			✓
					Cl	1/5		✓
					NO2	↓		
					Br			
					NO3			
					(SO4)	↓		✓
-6					(F)			✓
					Cl			✓
					NO2			
					Br			
					NO3			
					(SO4)			✓
-7					(F)			✓
					Cl			✓
					NO2			
					Br			
					NO3			
					(SO4)			✓
650-1	1	α			(F)			✓
					Cl			
					NO2			
					Br			
					NO3			
					SO4			

Upb 425

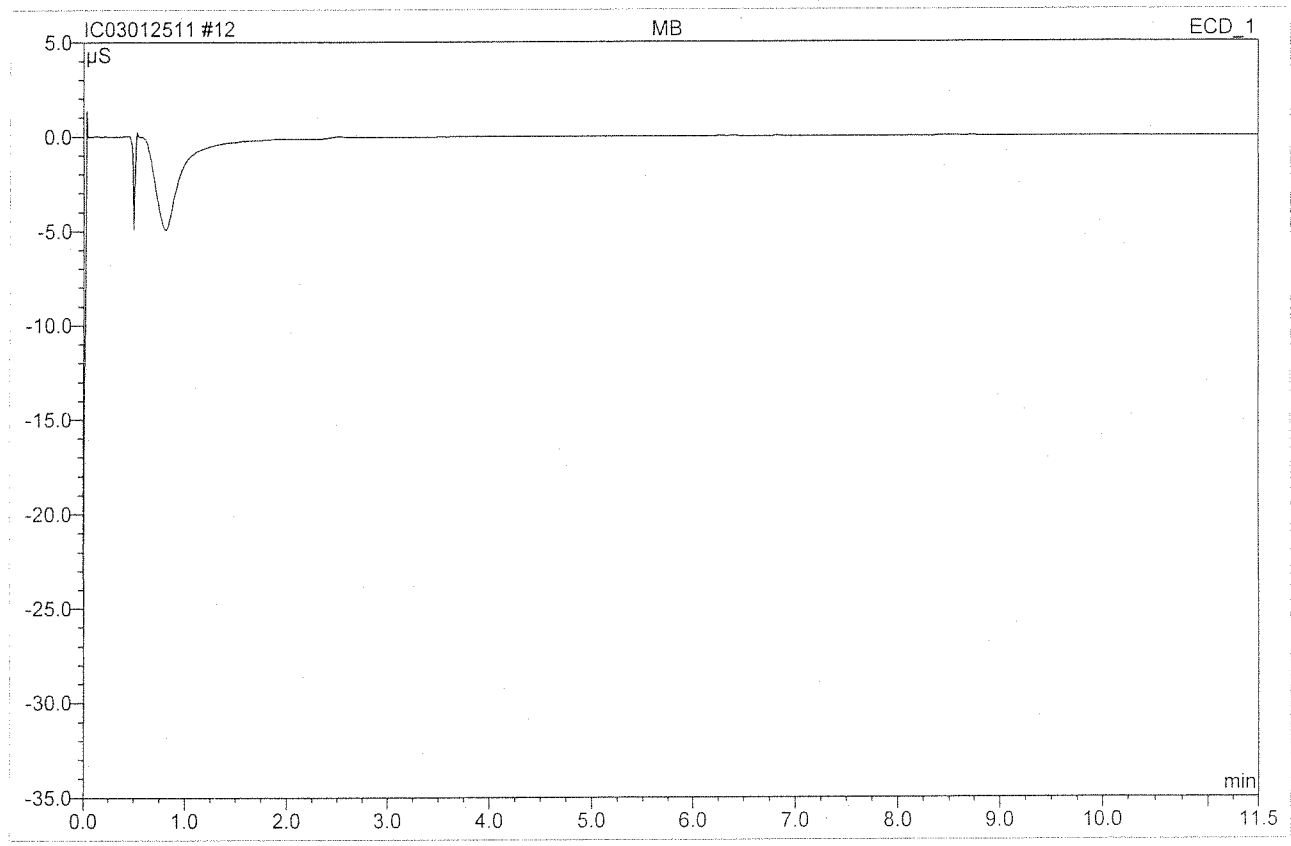
659-1	11				F			
					Cl			
					NO2			
					Br			
					NO3			
					(SO4)	0.25/5	2.5/5	✓
-2					F			
					Cl			
					NO2			
					Br			
					NO3			
					(SO4)			✓
681-1		<			F	2.5/5		✓
					Cl			✓
					NO2			✓
					Br			
					(NO3)			✓
					(SO4)			✓
685-1	11				F			
					(Cl)			✓
					NO2			
					Br			
					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			
-6					F			
					(Cl)			✓
					NO2			
					Br			
					NO3			
					SO4			
-7					F			
					(Cl)	✓		✓
					NO2			
					Br			
					NO3			
					SO4			

11 NO2 AN11-33-X			
NO2			
Sample Name:	NO2 AN11-33-X	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	1/25/2011 9:49	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



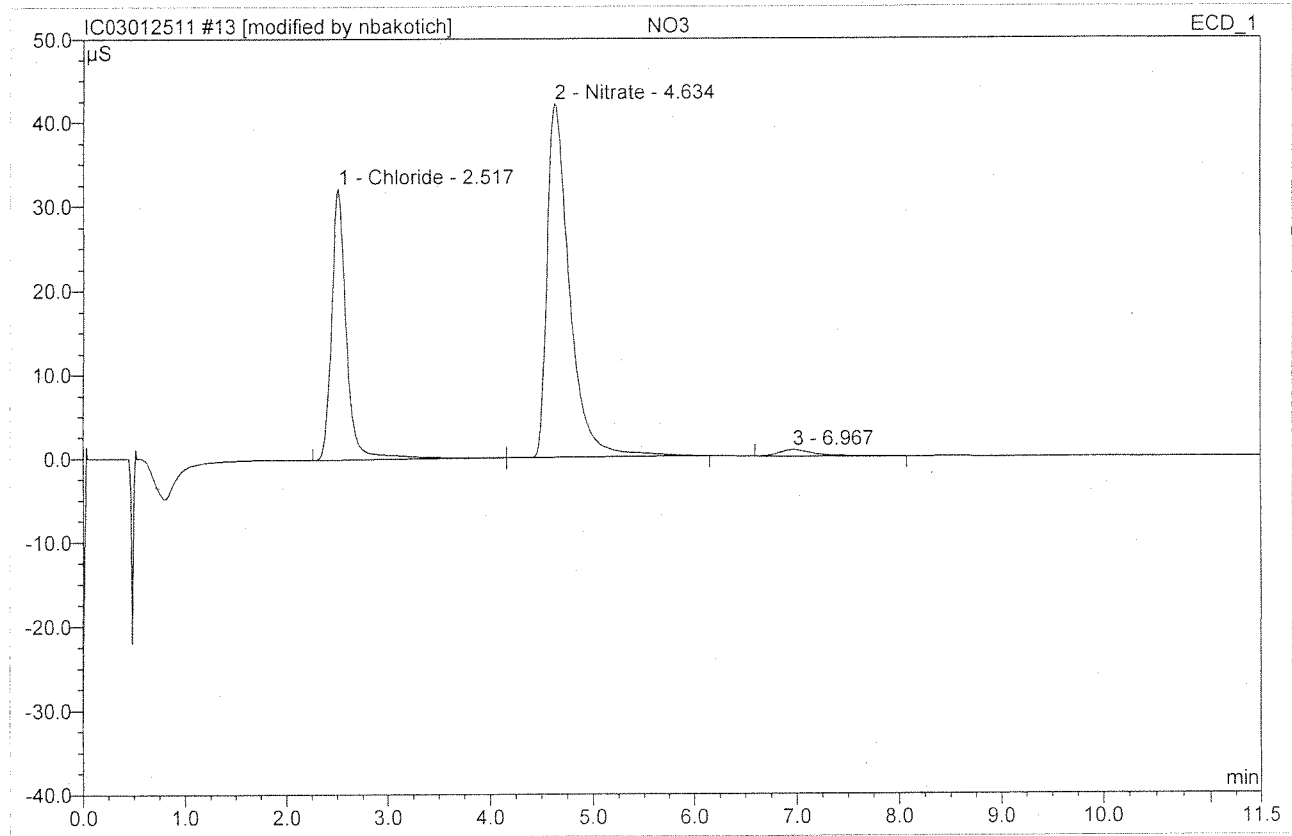
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.10	Nitrite	55.176	11.543	100.00	10 / 100.544	BMB
Total:			55.176	11.543	100.00	100.544	

12 MB			
MB			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 10:03	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
Total:			0.000	0.000	0.00	0.000	

13 NO3			
NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	1/25/2011 10:16	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	32.231	5.522	33.46	18.764	BMb*
2	4.63	Nitrate	42.095	10.683	64.73	97/14.838	bMB*
3	6.97	n.a.	0.748	0.298	1.80	n.a.	BMB*
Total:			75.075	16.503	100.00	33.602	

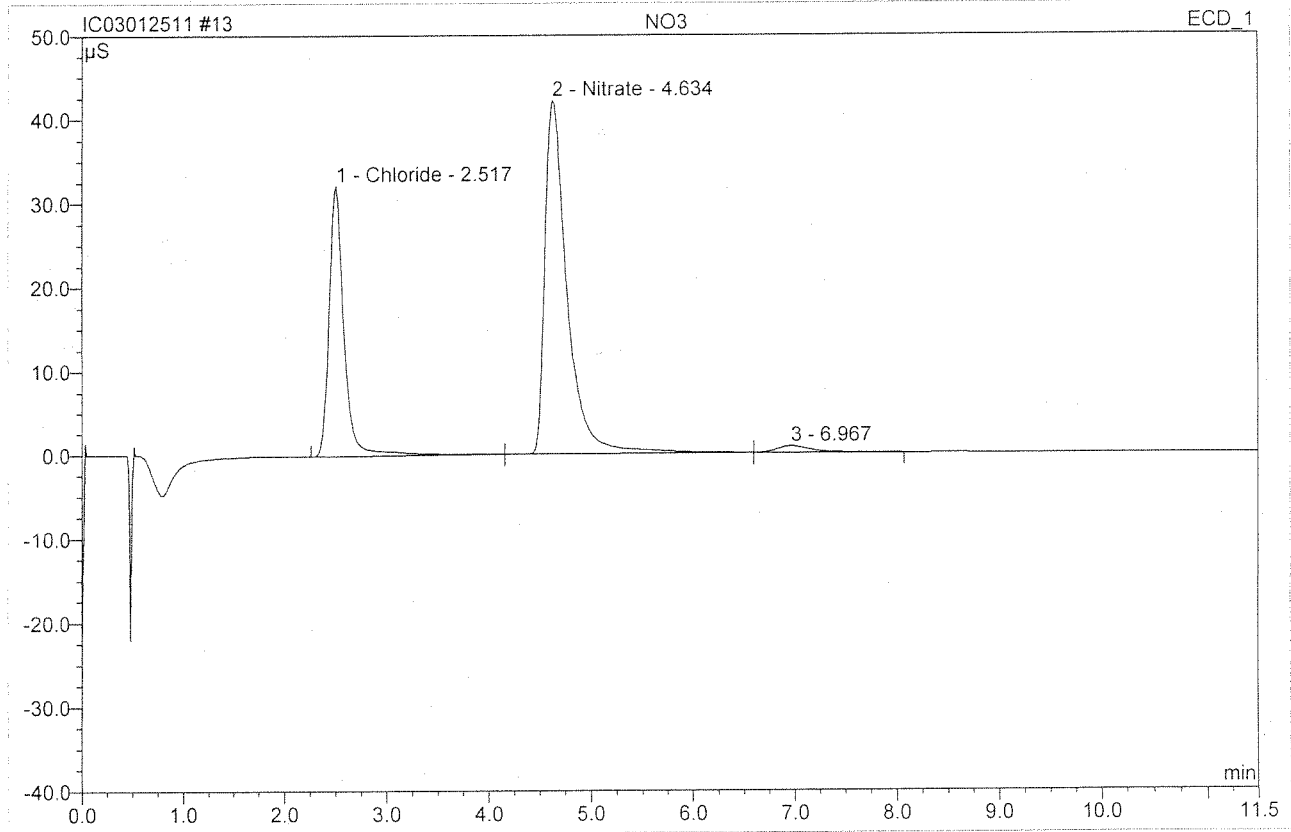
Alter Initials AB

SH10711

JAN 25 2011

When Peak/Peak not found
 Baseline/shoulder incorrect
 Other

13 NO3			
NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	1/25/2011 10:16	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

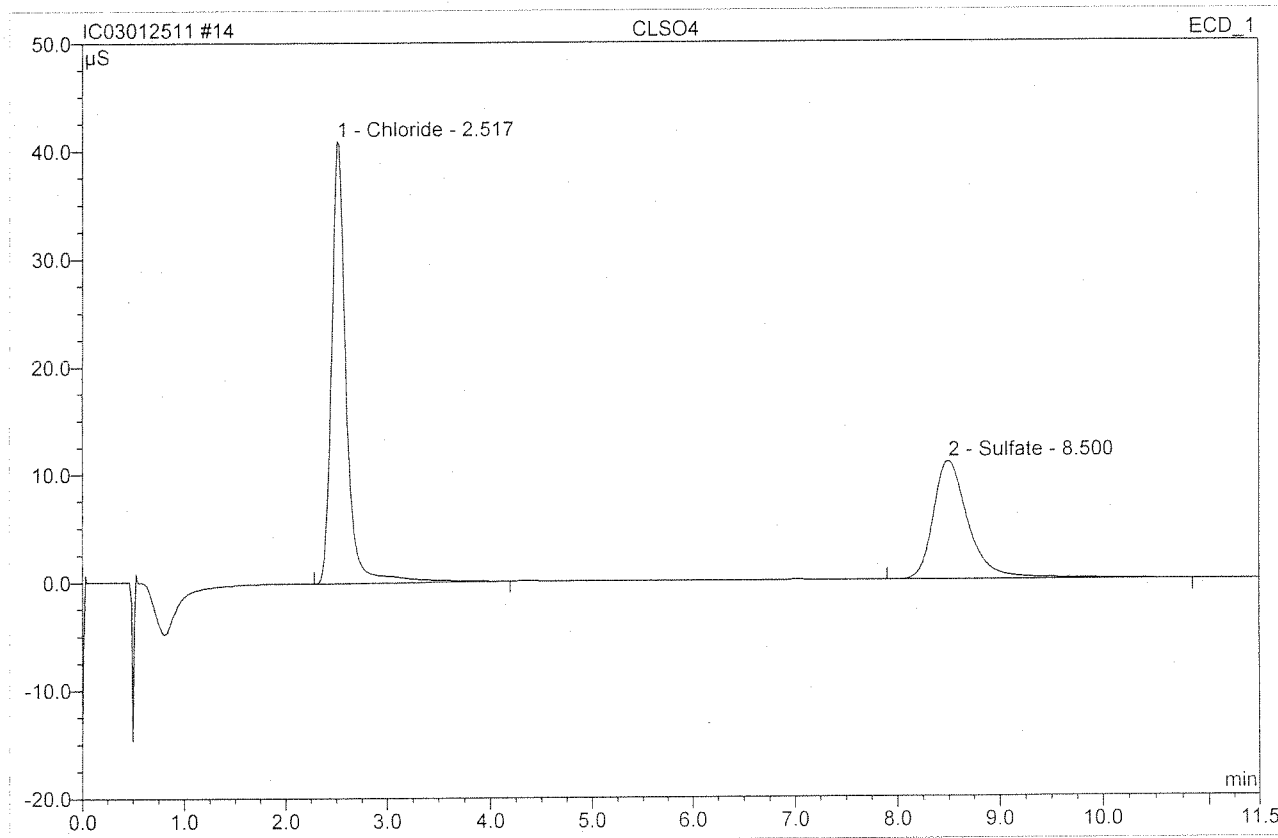


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	32.231	5.522	33.27	18.764	BMB
2	4.63	Nitrate	42.114	10.779	64.94	14.972	bMb
3	6.97	n.a.	0.748	0.298	1.79	n.a.	bMB
Total:			75.094	16.599	100.00	33.736	

Before

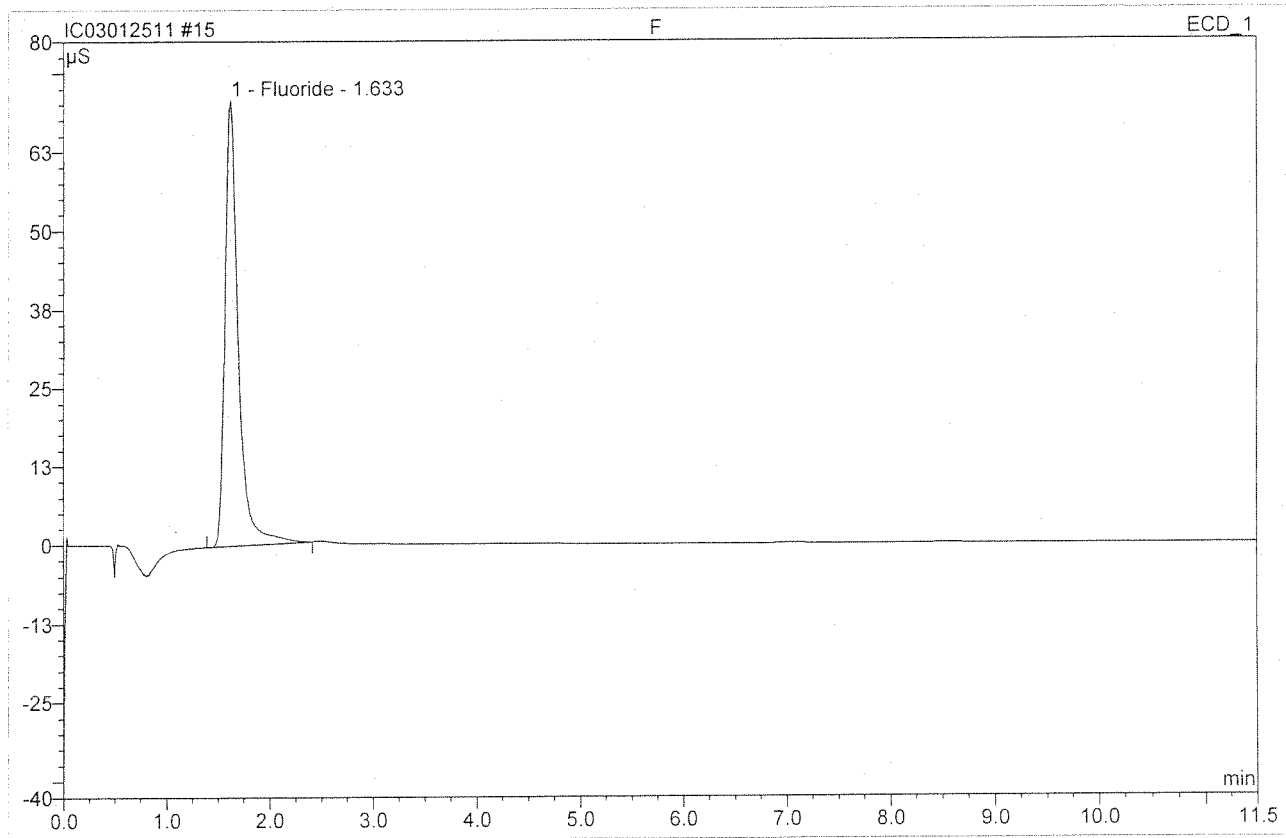
JAN 25 2011

14 CLSO4			
CLSO4			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 10:30	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



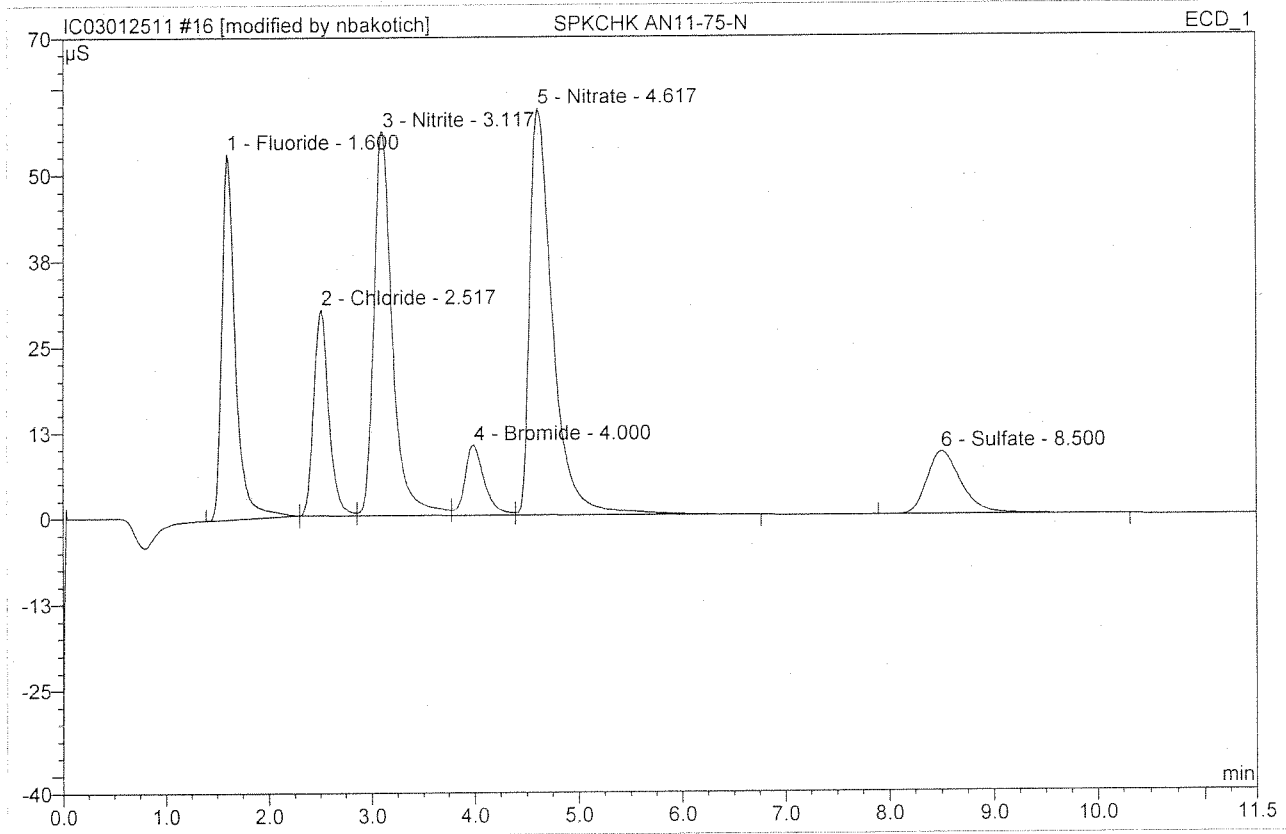
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.52	Chloride	40.999	6.965	61.44	95 4.734	BMB
2	8.50	Sulfate	10.989	4.372	38.56	92 4.608	BMB
Total:			51.988	11.337	100.00	9.342	

15 F			
F			
Sample Name:	F	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/25/2011 10:44	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	70.828	10.605	100.00	95 10.520	BMB
Total:			70.828	10.605	100.00	10.520	

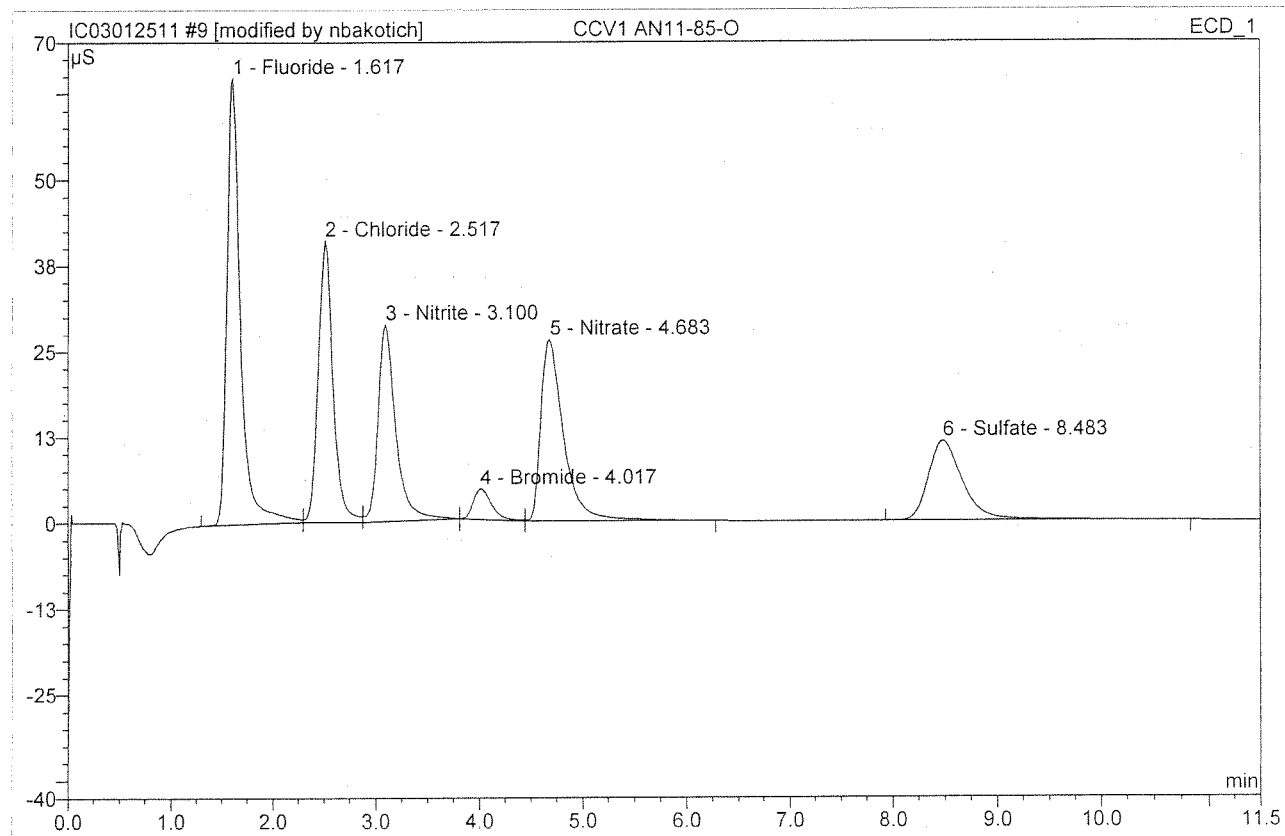
16 SPKCHK AN11-75-N			
SPKCHK			
Sample Name:	SPKCHK AN11-75-N	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 10:58	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	53.151	8.073	17.62	4.004	BMb
2	2.52	Chloride	30.077	5.217	11.39	3.546	bM
3	3.12	Nitrite	55.854	11.540	25.19	4.021	M *
4	4.00	Bromide	10.268	2.230	4.87	4.458	M *
5	4.62	Nitrate	59.197	15.225	33.23	4.230	MB
6	8.50	Sulfate	9.158	3.531	7.71	3.722	BMB
Total:			217.705	45.817	100.00	23.980	

TV=4.0

9 CCV1 AN11-85-O			
Sample Name:	CCV1 AN11-85-O	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 9:21	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	65.055	10.142	29.04	101 5.030	BM *
2	2.52	Chloride	41.062	6.891	19.73	94 4.683	M *
3	3.10	Nitrite	28.717	5.673	16.24	99 1.976	Mb*
4	4.02	Bromide	4.480	0.943	2.70	95 1.886	bM *
5	4.68	Nitrate	26.521	6.770	19.38	94 1.881	MB*
6	8.48	Sulfate	11.587	4.510	12.91	95 4.754	BMB
Total:			177.421	34.929	100.00	20.210	

After Initials nb

04 11 2011

JAN 25 2011

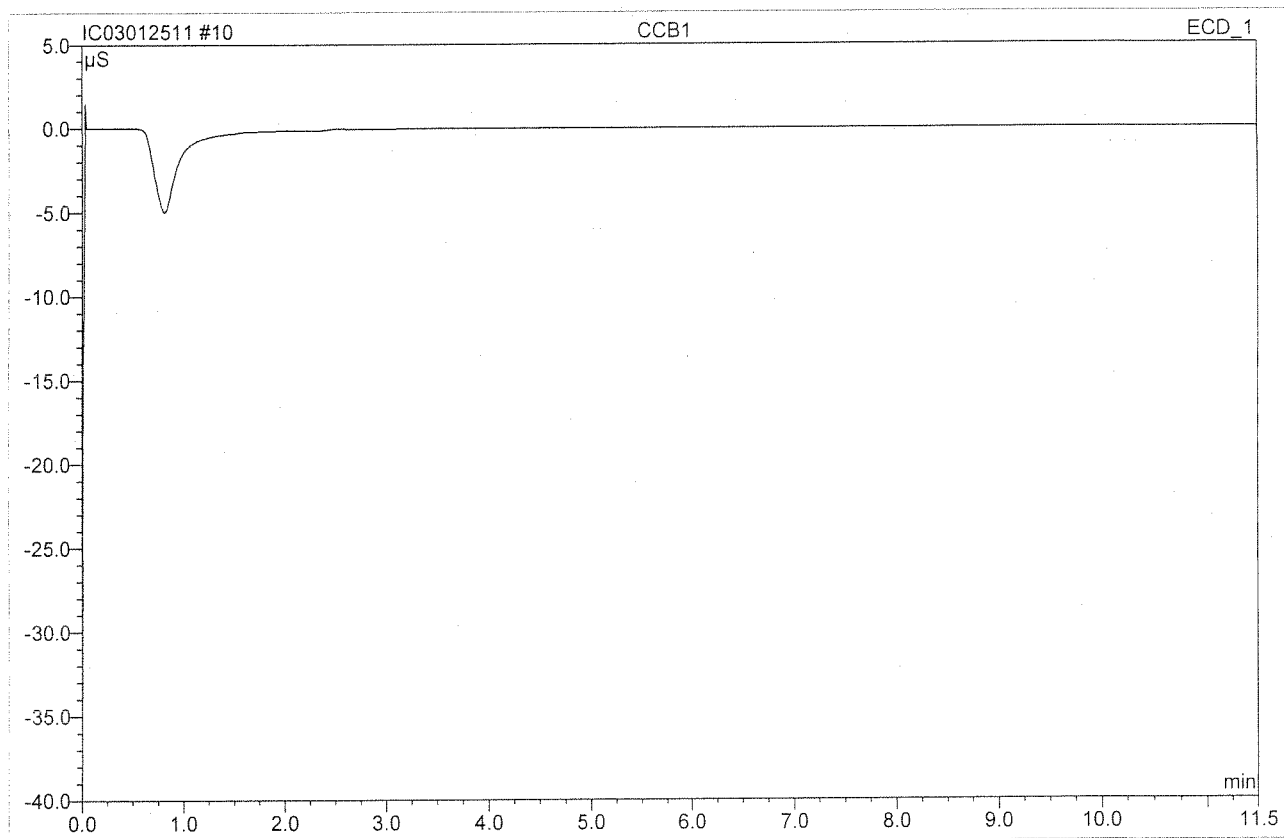
default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other

109

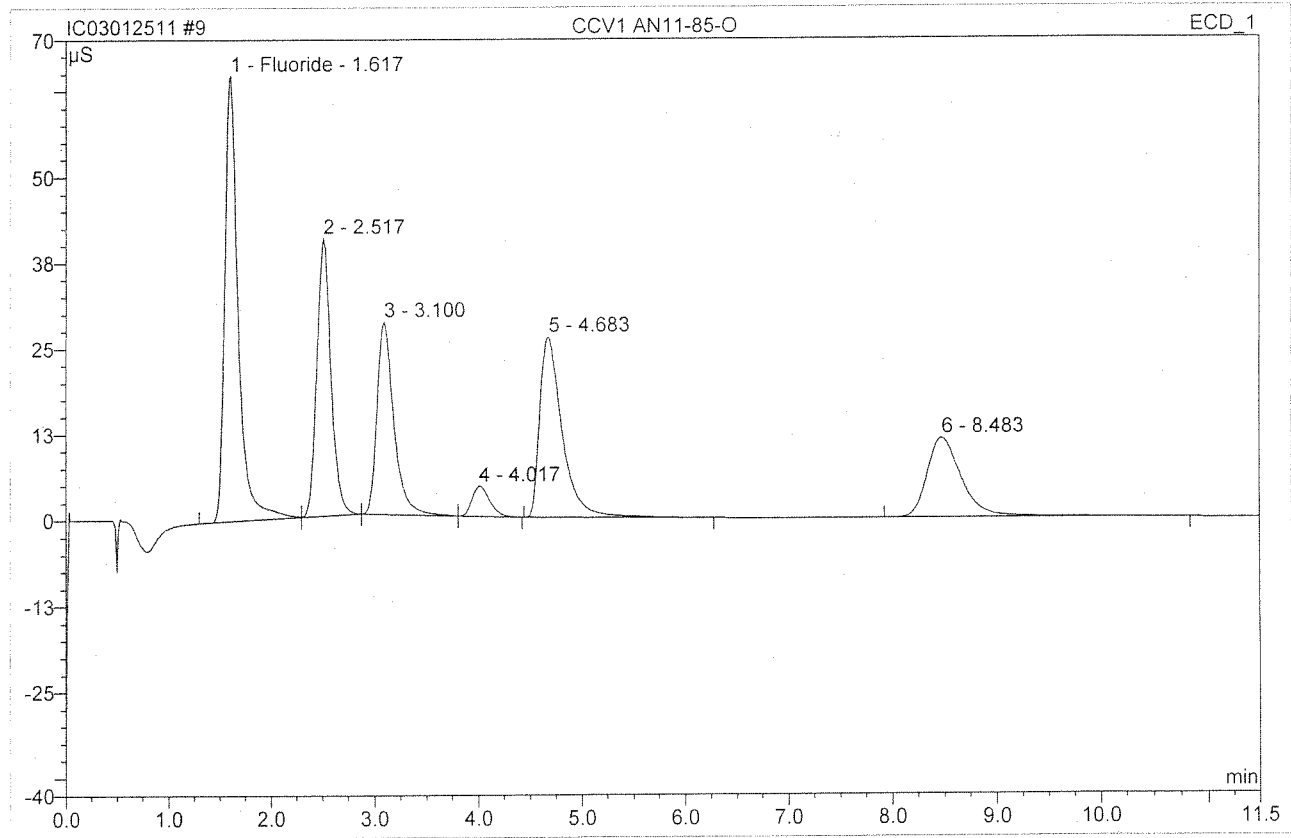
10 CCB1

Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 9:35	Sample Weight:	1.0000
Run Time (min):	11.50	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	

9 CCV1 AN11-85-O			
Sample Name:	CCV1 AN11-85-O	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 9:21	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	64.943	9.965	29.49	4.942	BM
2	2.52	n.a.	40.528	6.543	19.37	n.a.	Mb
3	3.10	n.a.	28.073	5.282	15.63	n.a.	bMb
4	4.02	n.a.	4.423	0.886	2.62	n.a.	bMB
5	4.68	n.a.	26.361	6.602	19.54	n.a.	BMB
6	8.48	n.a.	11.587	4.510	13.35	n.a.	BMB
Total:			175.915	33.788	100.00	4.942	

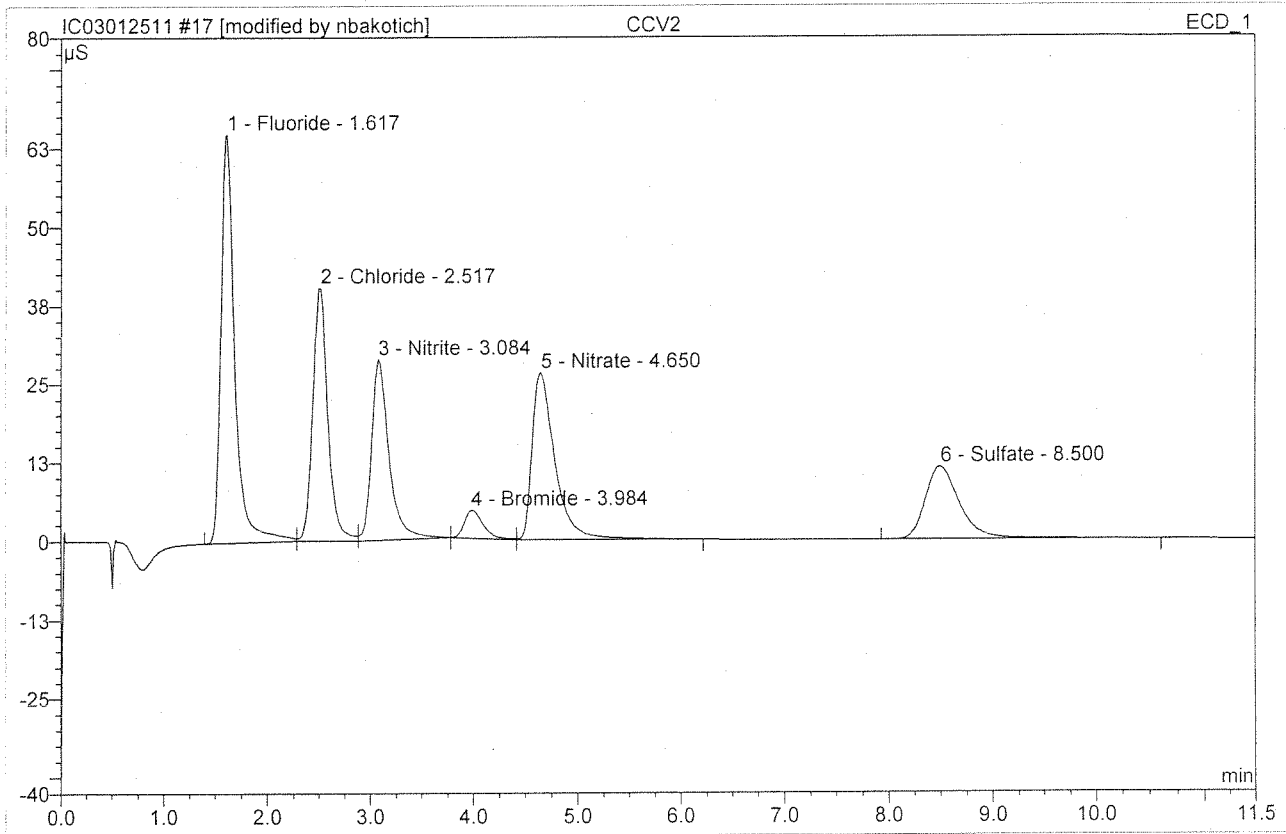
Before

JAN 25 2011

17 CCV2

CCV2

Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 11:12	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	64.933	9.990	28.73	99 4.955	BM *
2	2.52	Chloride	40.240	6.886	19.81	94 4.680	M *
3	3.08	Nitrite	28.645	5.645	16.24	99 1.967	Mb*
4	3.98	Bromide	4.472	0.957	2.75	96 1.913	bM *
5	4.65	Nitrate	26.607	6.791	19.53	95 1.887	MB*
6	8.50	Sulfate	11.546	4.497	12.93	95 4.740	BMB
Total:			176.445	34.767	100.00	20.142	

After Initials AB

JAN 25 2011

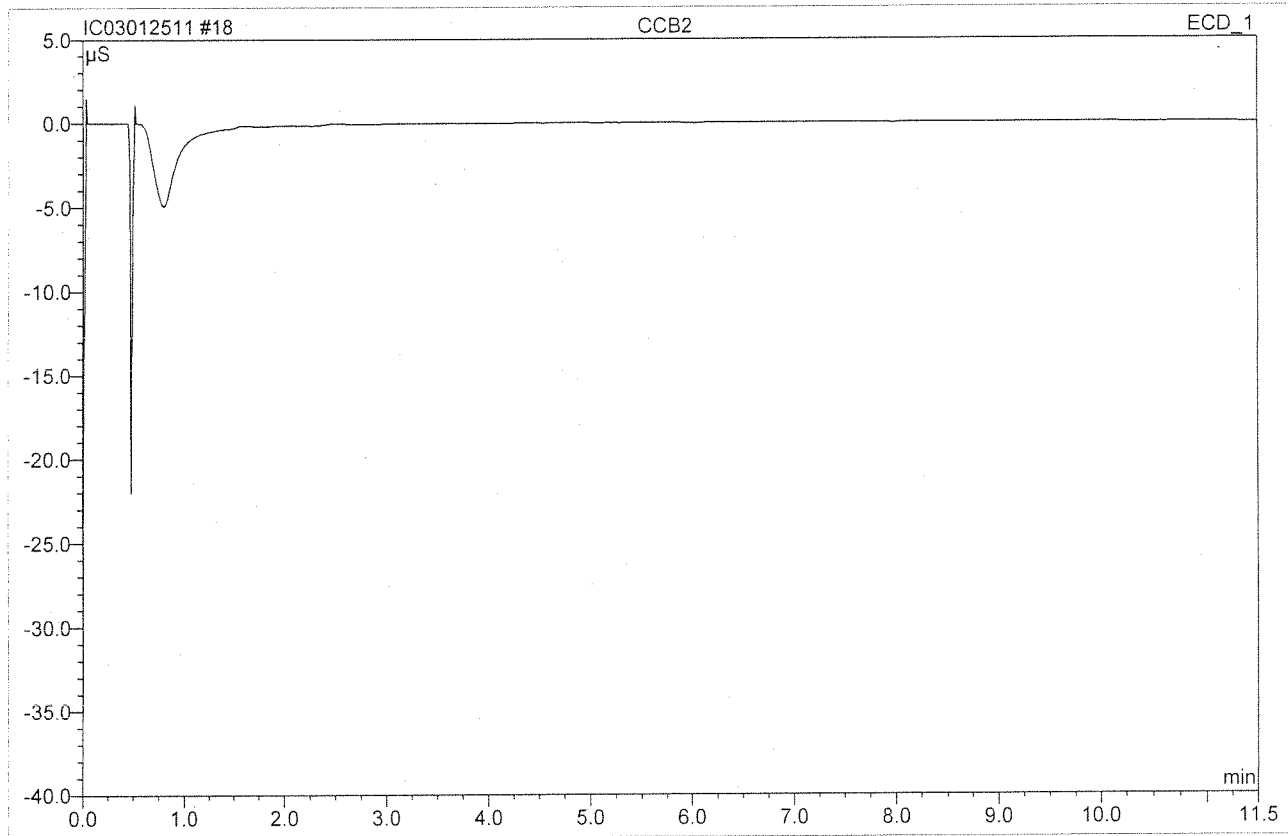
3 4 11 2011

default/Integration

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

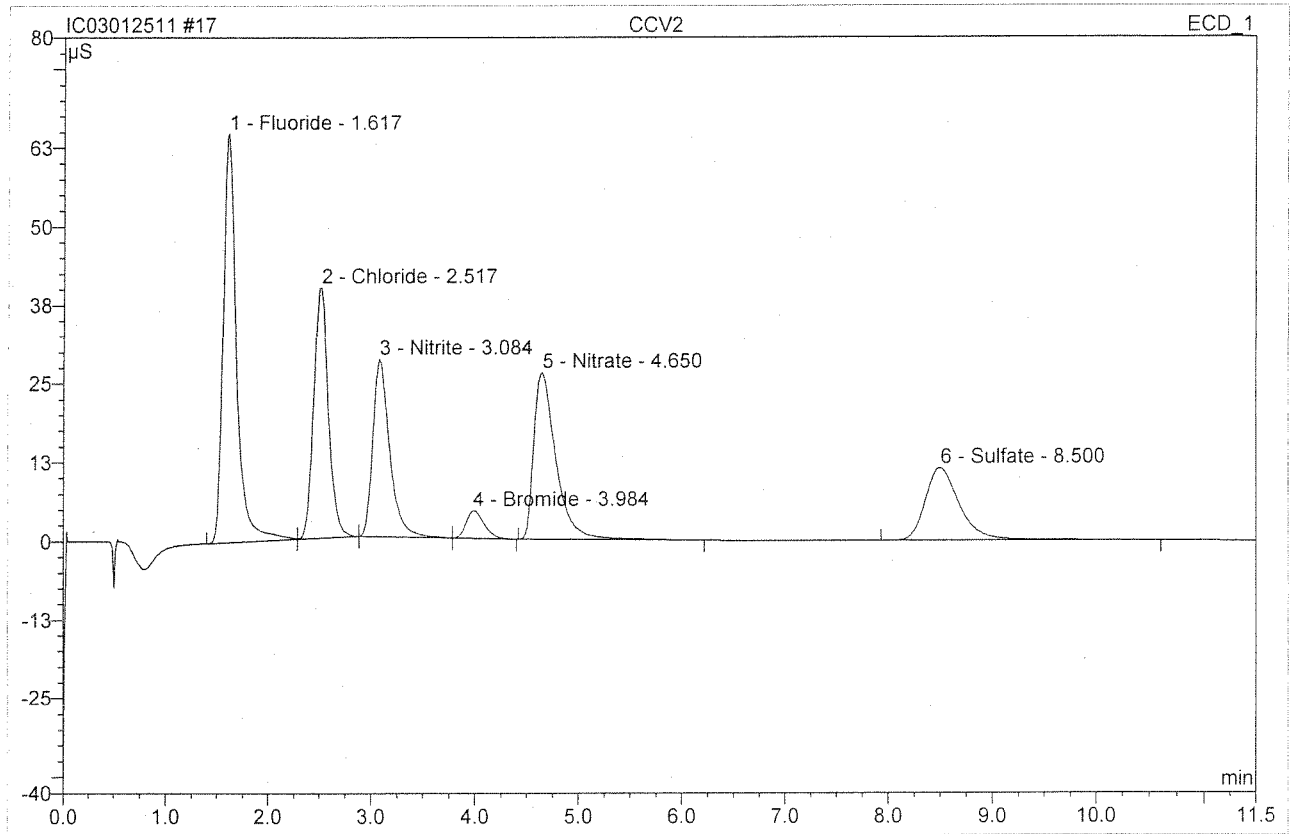
Chromleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

18 CCB2			
CCB2			
Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	20	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 11:26	Sample Weight:	1.0000
Run Time (min):	11.50	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	

17 CCV2			
CCV2			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 11:12	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

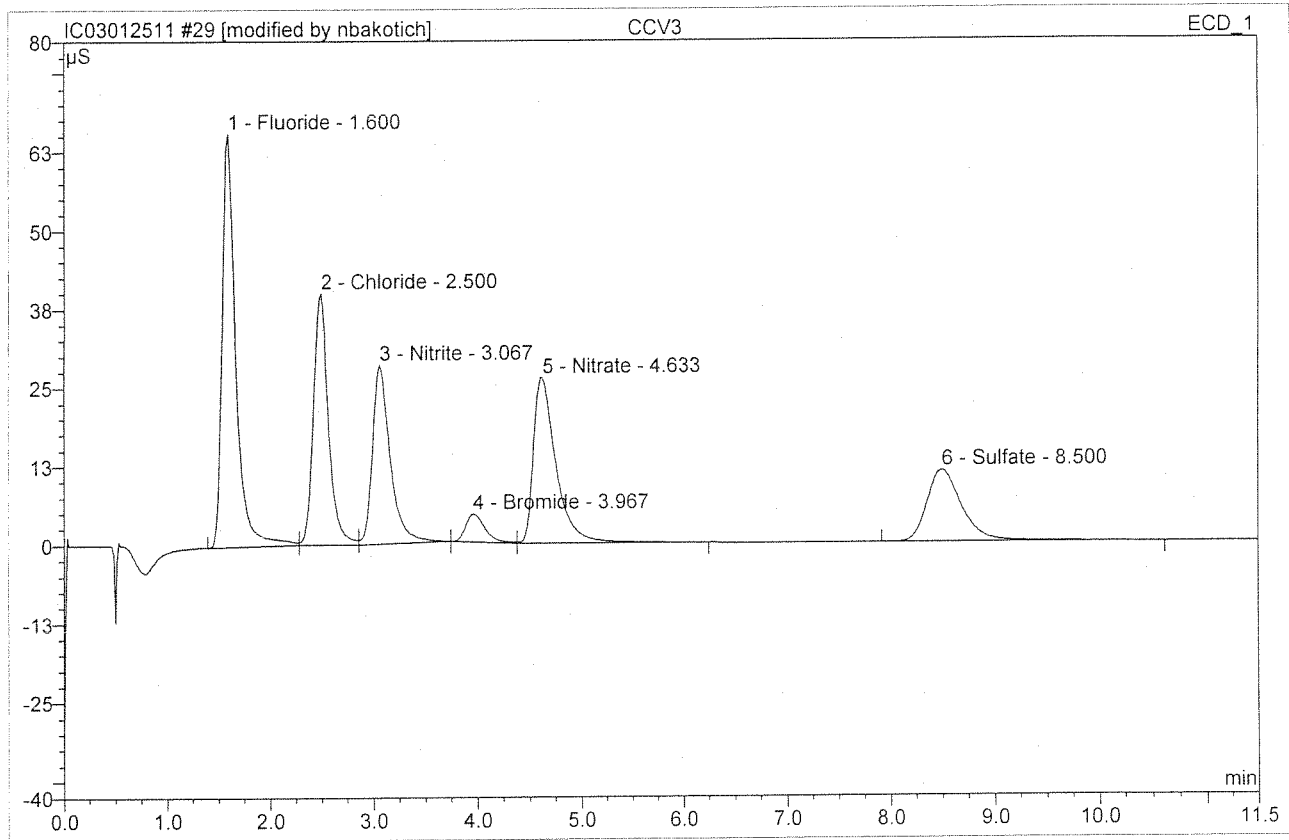


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	64.867	9.871	29.25	4.896	BM
2	2.52	Chloride	39.781	6.578	19.49	4.471	Mb
3	3.08	Nitrite	28.056	5.304	15.72	1.848	bMb
4	3.98	Bromide	4.408	0.893	2.65	1.785	bMB
5	4.65	Nitrate	26.429	6.608	19.58	1.836	BMB
6	8.50	Sulfate	11.546	4.497	13.32	4.740	BMB
Total:			175.088	33.751	100.00	19.575	

Before

JAN 25 2011

29 CCV3			
CCV3			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 14:21	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.60	Fluoride	65.635	10.072	28.95	100 4.995	BM *
2	2.50	Chloride	39.952	6.856	19.71	93 4.659	M *
3	3.07	Nitrite	28.353	5.642	16.22	99 1.966	Mb*
4	3.97	Bromide	4.487	0.974	2.80	98 1.946	bM *
5	4.63	Nitrate	26.333	6.773	19.47	94 1.882	MB*
6	8.50	Sulfate	11.450	4.473	12.86	94 4.716	BMB
Total:			176.210	34.790	100.00	20.164	

After Initials mb

3# 112111

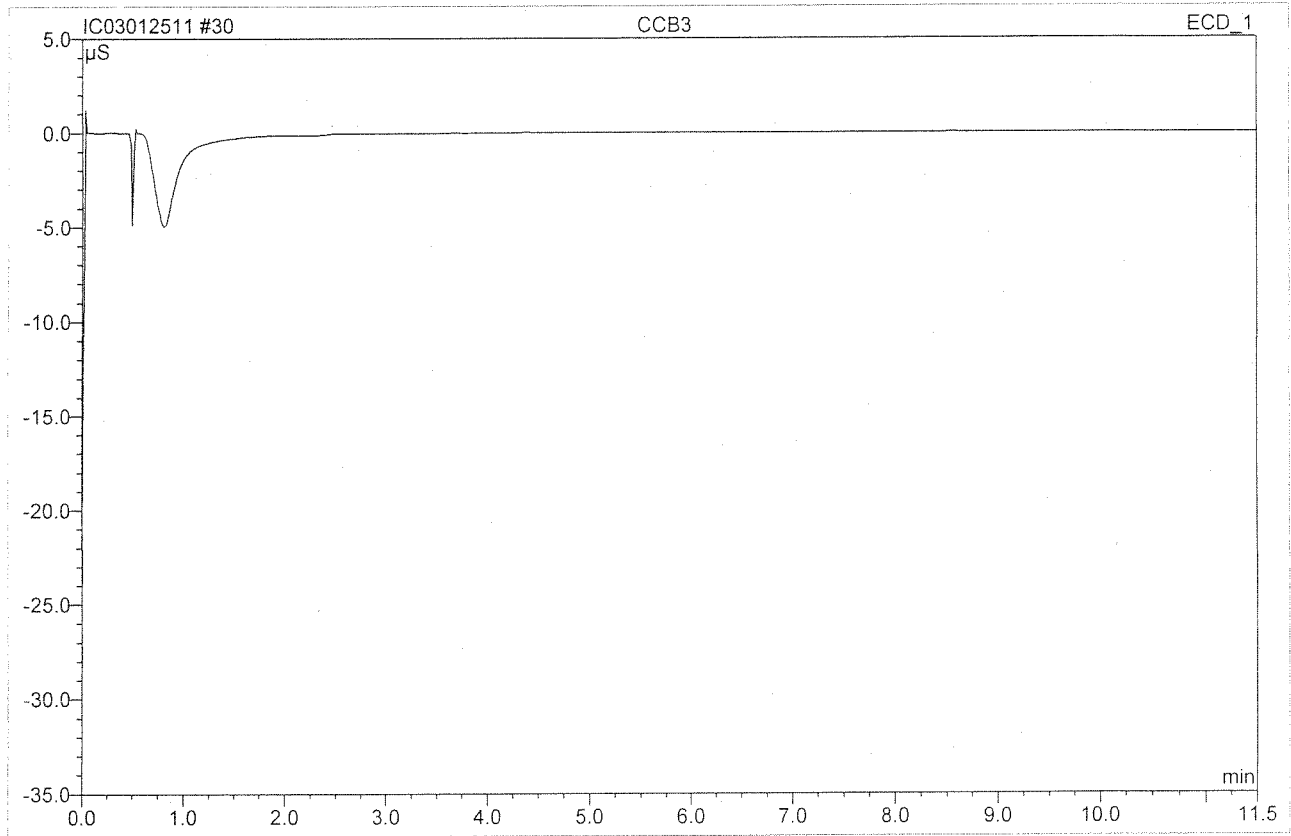
IAN 2 5 2011

default/Integration

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

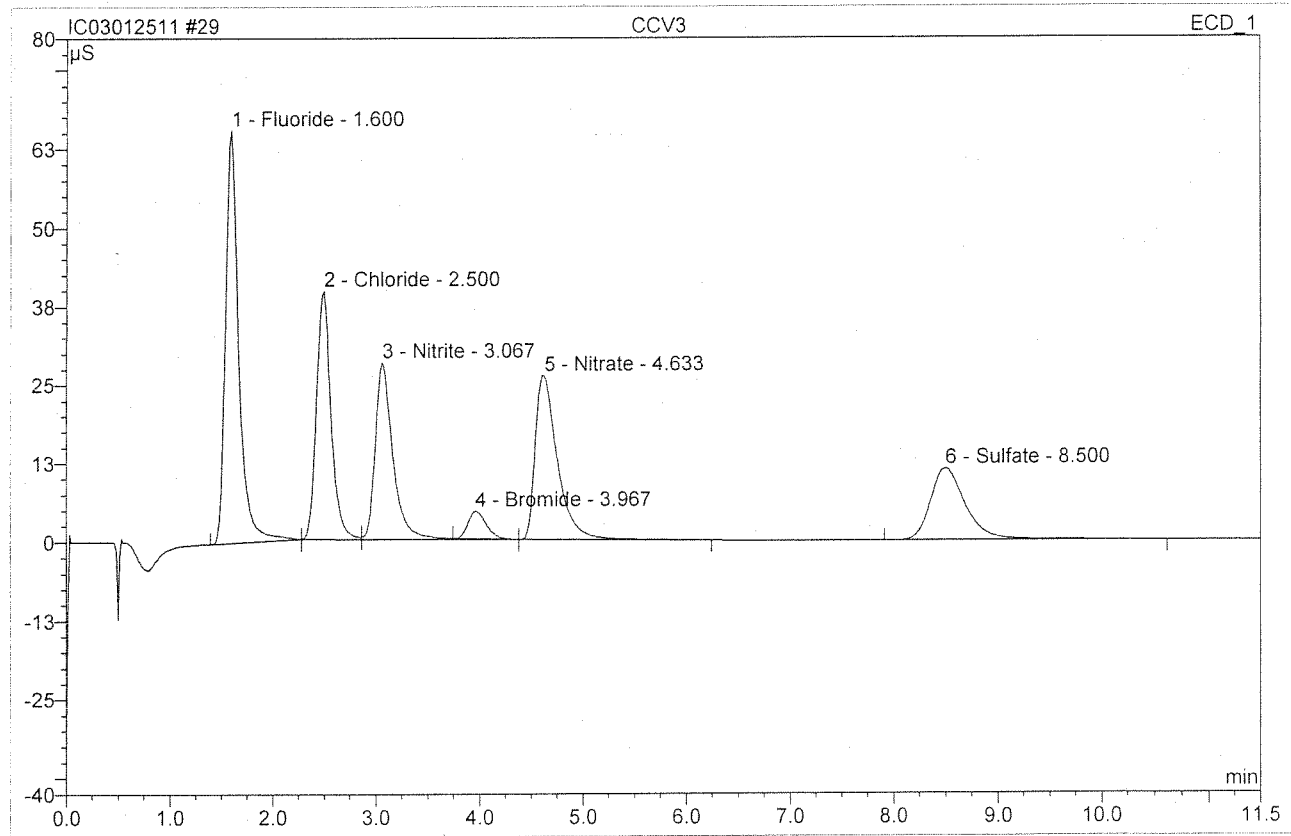
Chromeleon (c) Dionex 1996-2001
Version 6.80 SP1 Build 2238

30 CCB3			
CCB3			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	32	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 14:35	Sample Weight:	1.0000
Run Time (min):	11.50	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:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 14:21	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

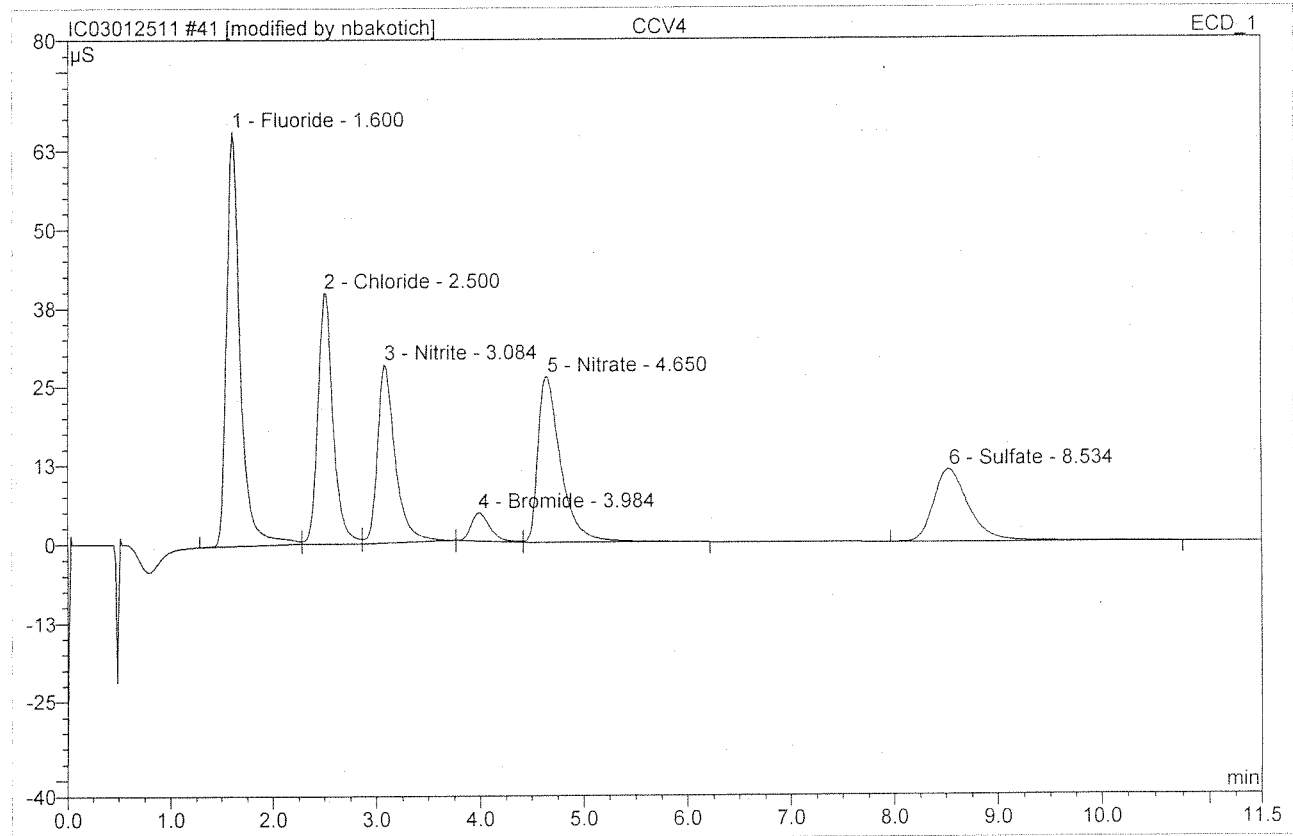


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	65.552	9.910	29.01	4.915	BMb
2	2.50	Chloride	39.598	6.652	19.47	4.521	bM
3	3.07	Nitrite	28.139	5.642	16.52	1.966	Mb
4	3.97	Bromide	4.415	0.907	2.65	1.813	Rd
5	4.63	Nitrate	26.151	6.576	19.25	1.827	bMB
6	8.50	Sulfate	11.450	4.473	13.10	4.716	BMB
Total:			175.304	34.159	100.00	19.756	

Before

JAN 25 2011

41 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 17:32	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	65.853	10.190	29.06	101 5.054	BM *
2	2.50	Chloride	39.864	6.913	19.72	94 4.698	M *
3	3.08	Nitrite	28.349	5.667	16.16	99 1.975	Mb*
4	3.98	Bromide	4.477	0.976	2.78	98 1.951	bM *
5	4.65	Nitrate	26.312	6.789	19.36	85 1.886	MB*
6	8.53	Sulfate	11.463	4.527	12.91	85 4.772	BMB
Total:			176.319	35.062	100.00	20.336	

After Initials nb

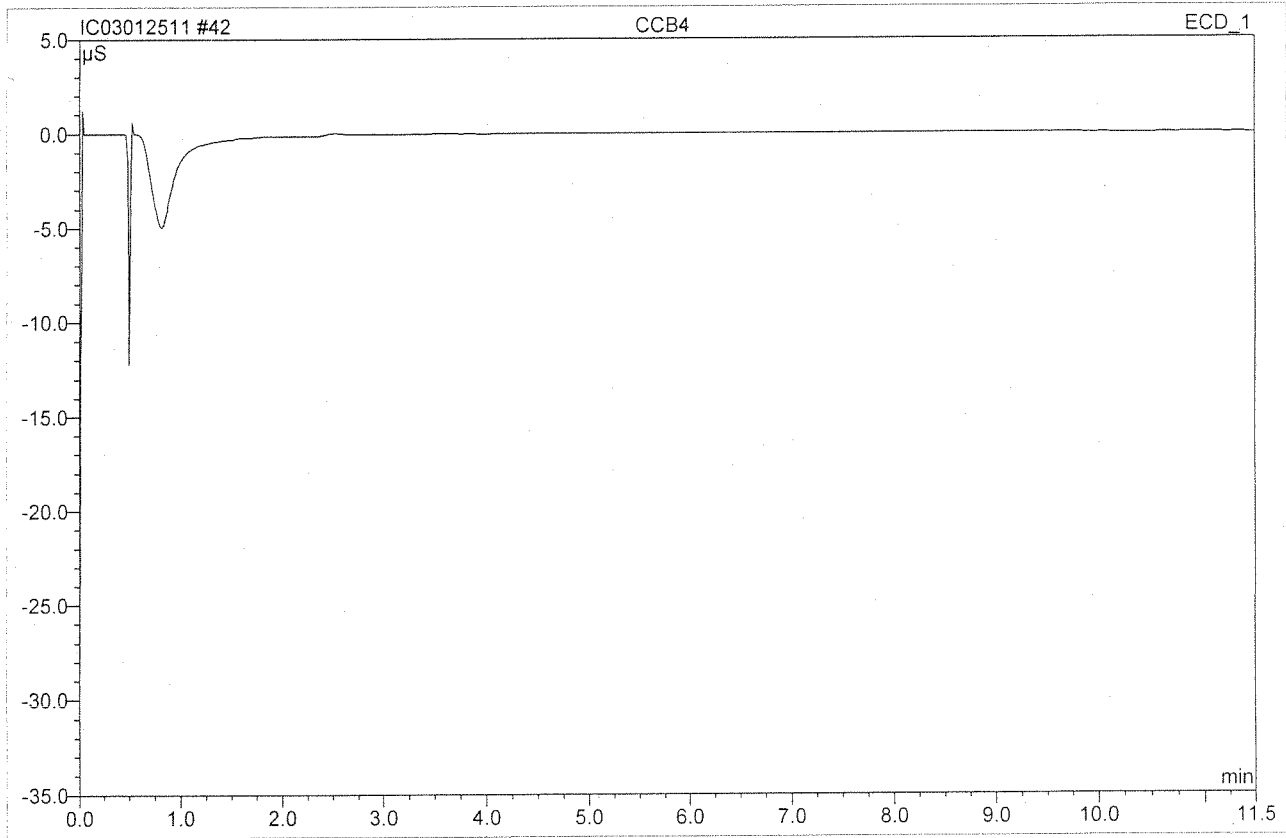
JAN 26 2011

default/Integration

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

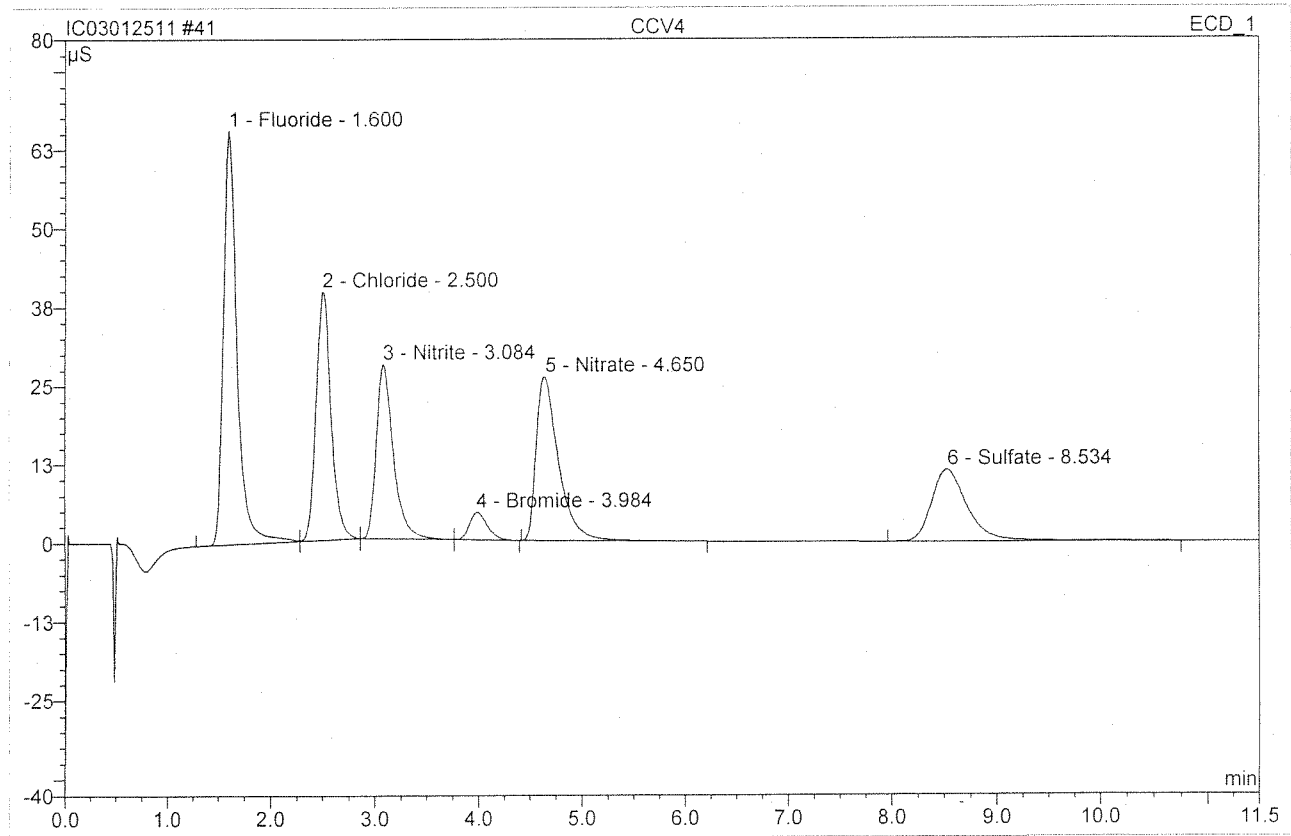
118

42 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	44	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 17:46	Sample Weight:	1.0000
Run Time (min):	11.50	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	

41 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 17:32	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

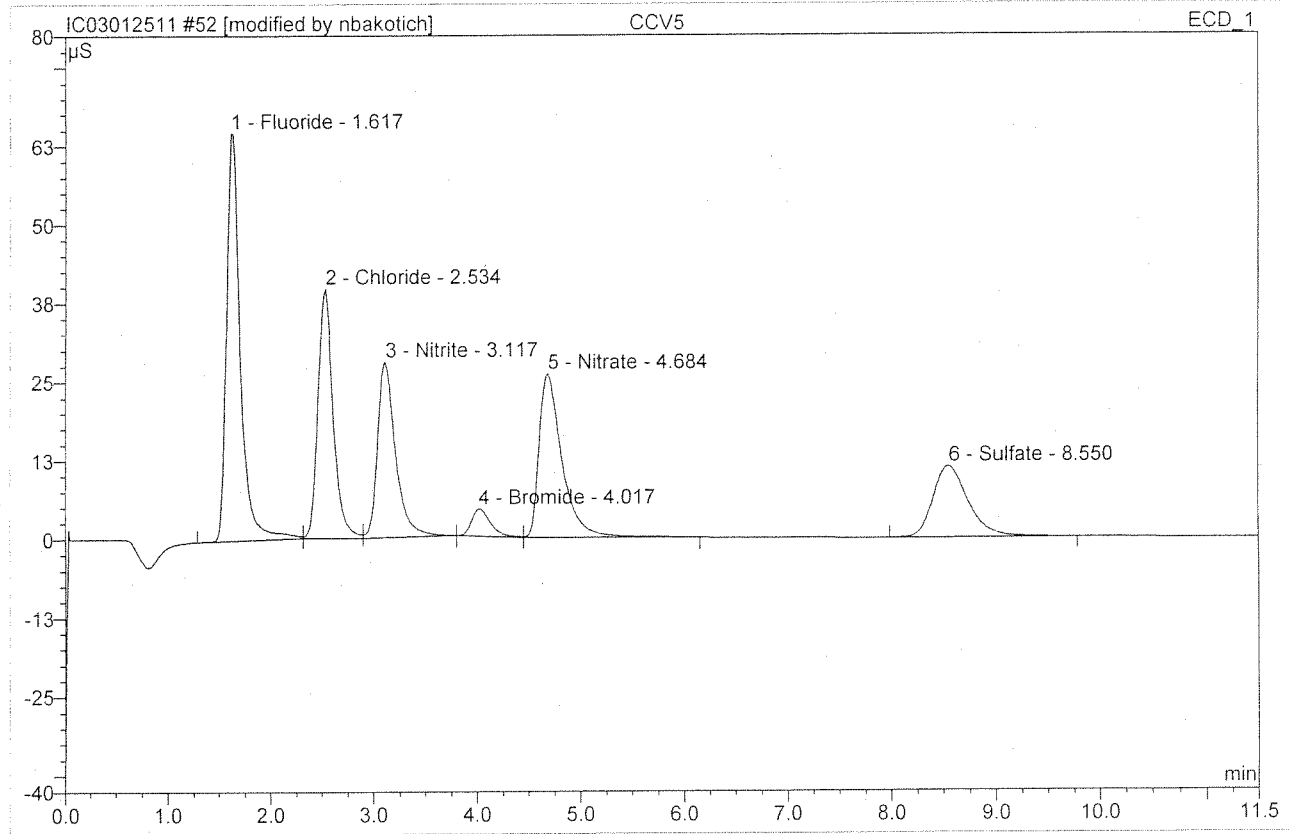


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	65.761	10.045	29.51	4.982	BM
2	2.50	Chloride	39.409	6.615	19.44	4.495	Mb
3	3.08	Nitrite	27.794	5.338	15.69	1.860	bMb
4	3.98	Bromide	4.408	0.909	2.67	1.816	bMB
5	4.65	Nitrate	26.129	6.599	19.39	1.833	BMB
6	8.53	Sulfate	11.463	4.527	13.30	4.772	BMB
Total:			174.964	34.033	100.00	19.759	

Before

JAN 26 2011

52 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 20:06	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	64.865	10.167	29.22	101 5.043	BM *
2	2.53	Chloride	39.699	6.886	19.79	94 4.680	M *
3	3.12	Nitrite	27.948	5.620	16.15	98 1.958	Mb*
4	4.02	Bromide	4.406	0.966	2.78	97 1.932	bM *
5	4.68	Nitrate	26.058	6.761	19.43	94 1.878	MB*
6	8.55	Sulfate	11.351	4.394	12.63	93 4.632	BMB
Total:			174.327	34.794	100.00	20.123	

After Initials nb

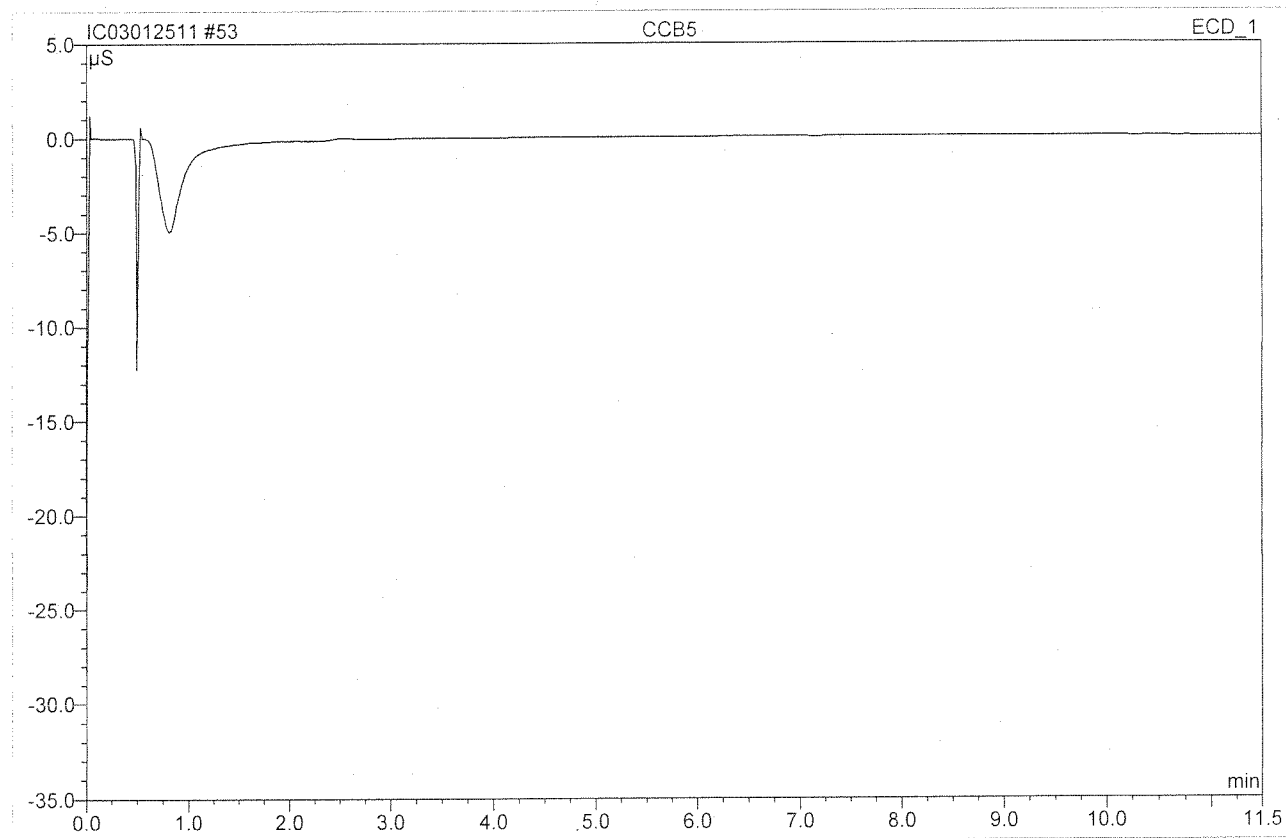
5 - 10/2/11

JAN 26 2011

default/Integration

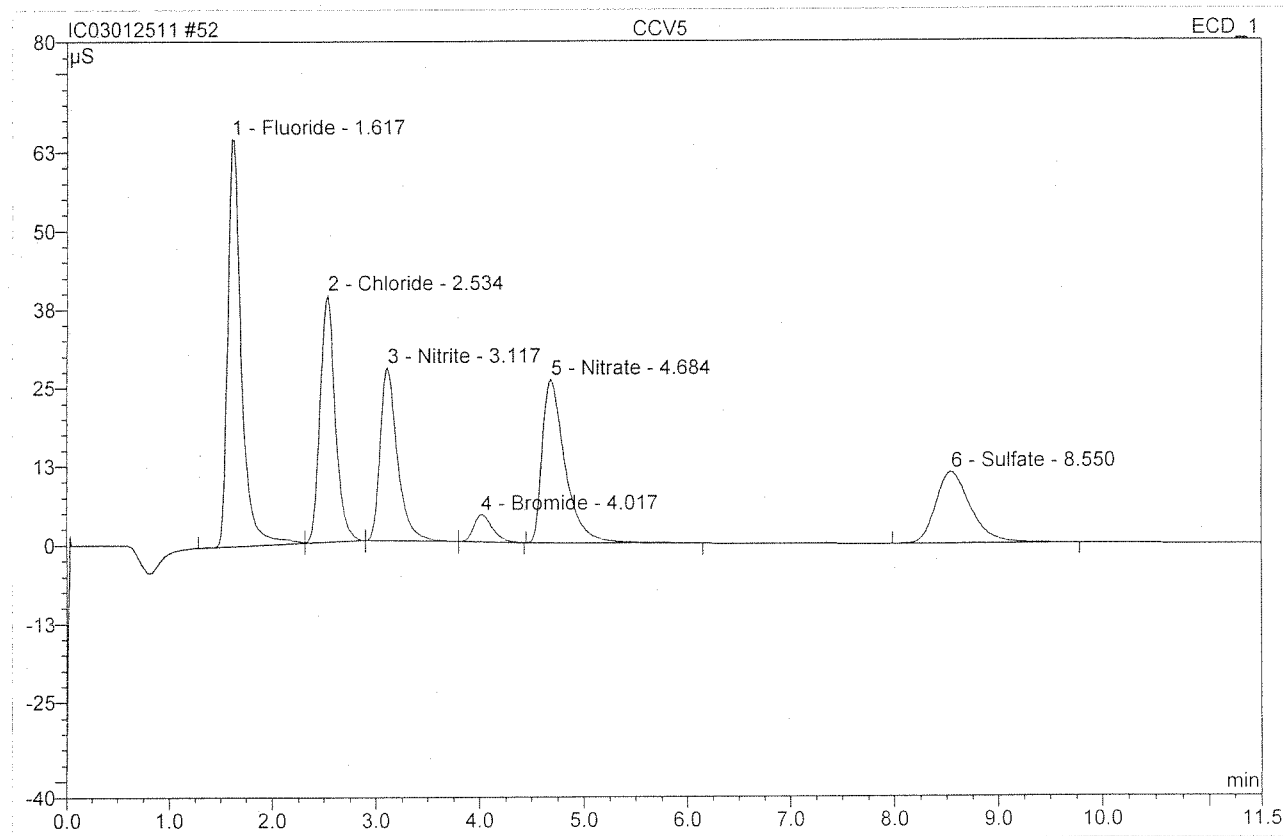
Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other _____ 121

53 CCB5			
CCB5			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 20:20	Sample Weight:	1.0000
Run Time (min):	11.50	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	

52 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	54	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 20:06	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

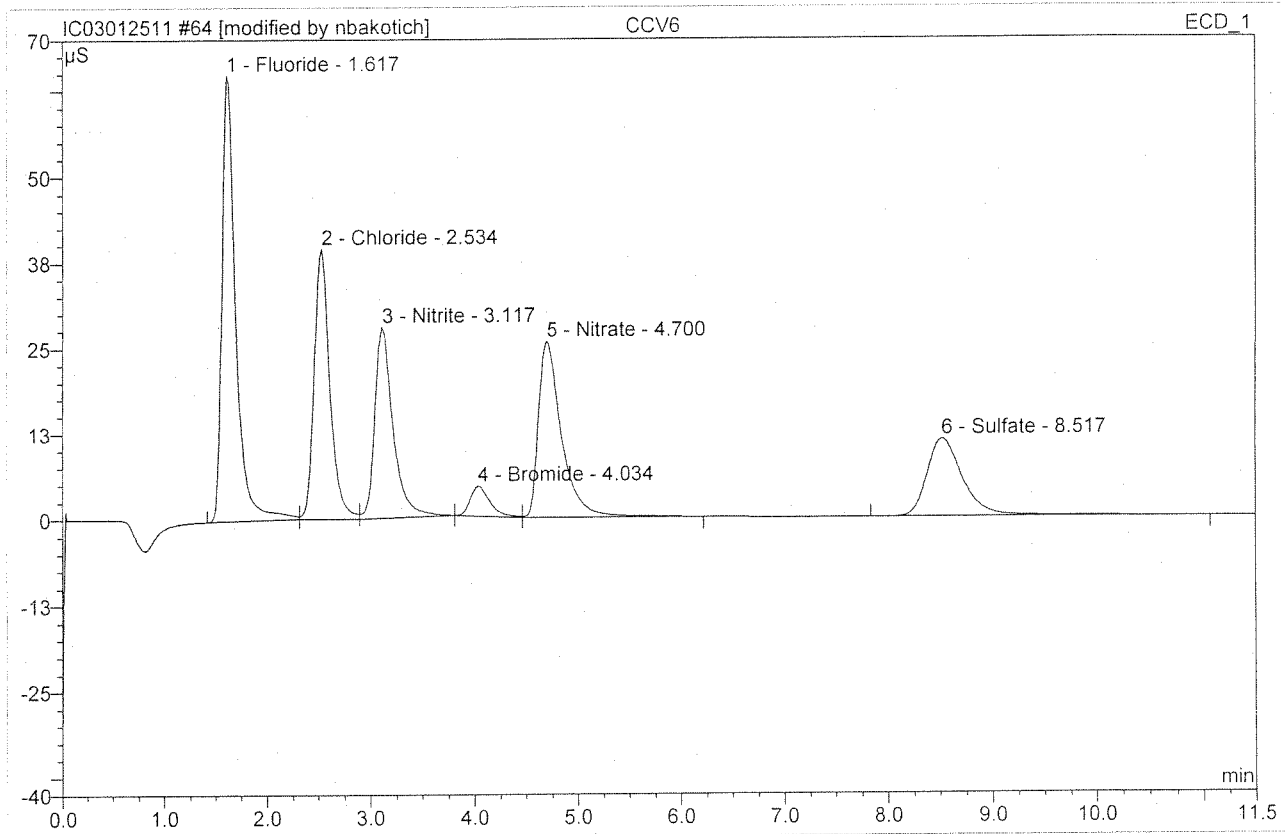


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	64.797	10.059	29.64	4.989	BM
2	2.53	Chloride	39.329	6.637	19.56	4.511	Mb
3	3.12	Nitrite	27.460	5.330	15.71	1.857	bMb
4	4.02	Bromide	4.346	0.908	2.68	1.816	bMB
5	4.68	Nitrate	25.902	6.607	19.47	1.835	BMB
6	8.55	Sulfate	11.351	4.394	12.95	4.632	BMB
Total:			173.185	33.936	100.00	19.640	

Before

JAN 26 2011

64 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	66	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 22:53	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	64.955	10.237	29.18	100 5.077	BM *
2	2.53	Chloride	39.485	6.945	19.80	94 4.720	M *
3	3.12	Nitrite	27.821	5.672	16.17	99 1.976	Mb*
4	4.03	Bromide	4.342	0.959	2.73	96 1.918	bM *
5	4.70	Nitrate	25.687	6.724	19.17	94 1.868	MB*
6	8.52	Sulfate	11.303	4.540	12.94	96 4.785	BMB
Total:			173.594	35.077	100.00	20.344	

After Initials AB

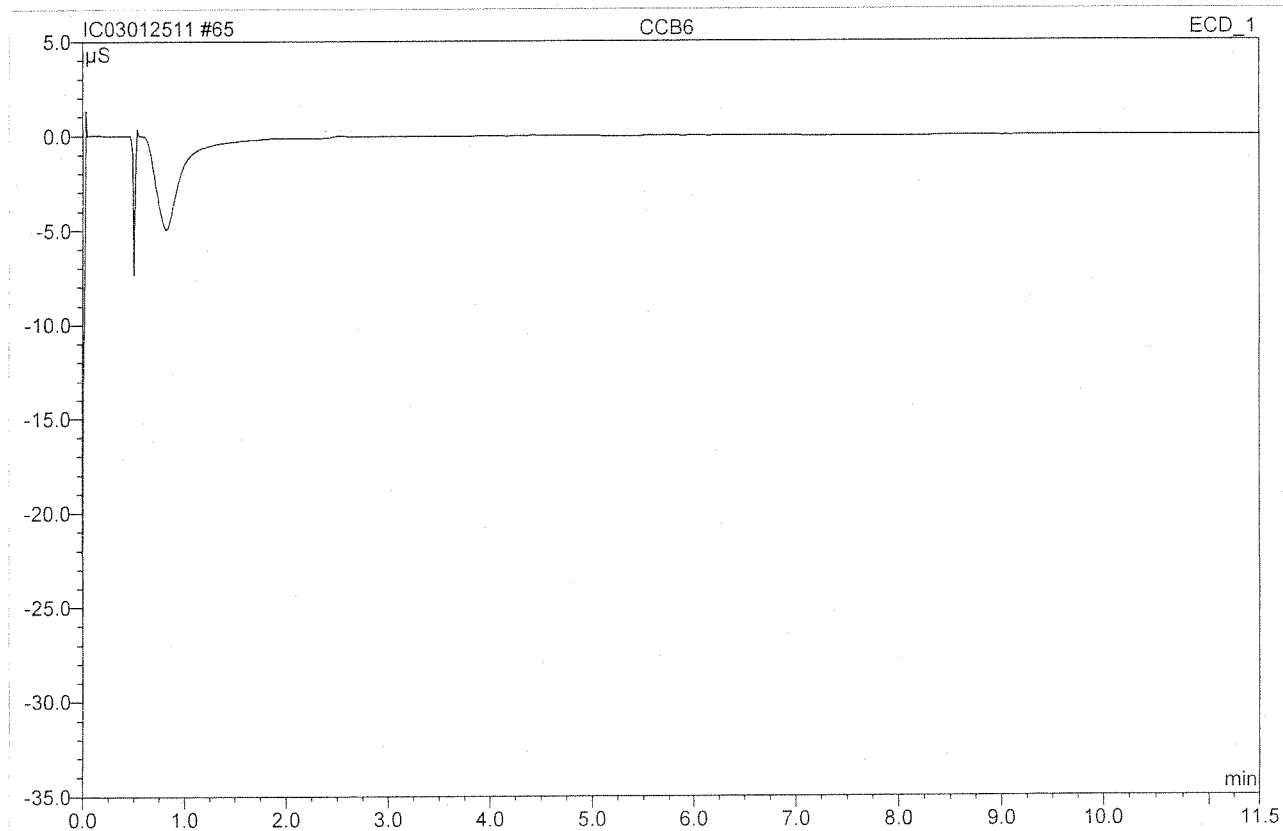
IAN 2 6 2011

default/Integration

Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____
 124

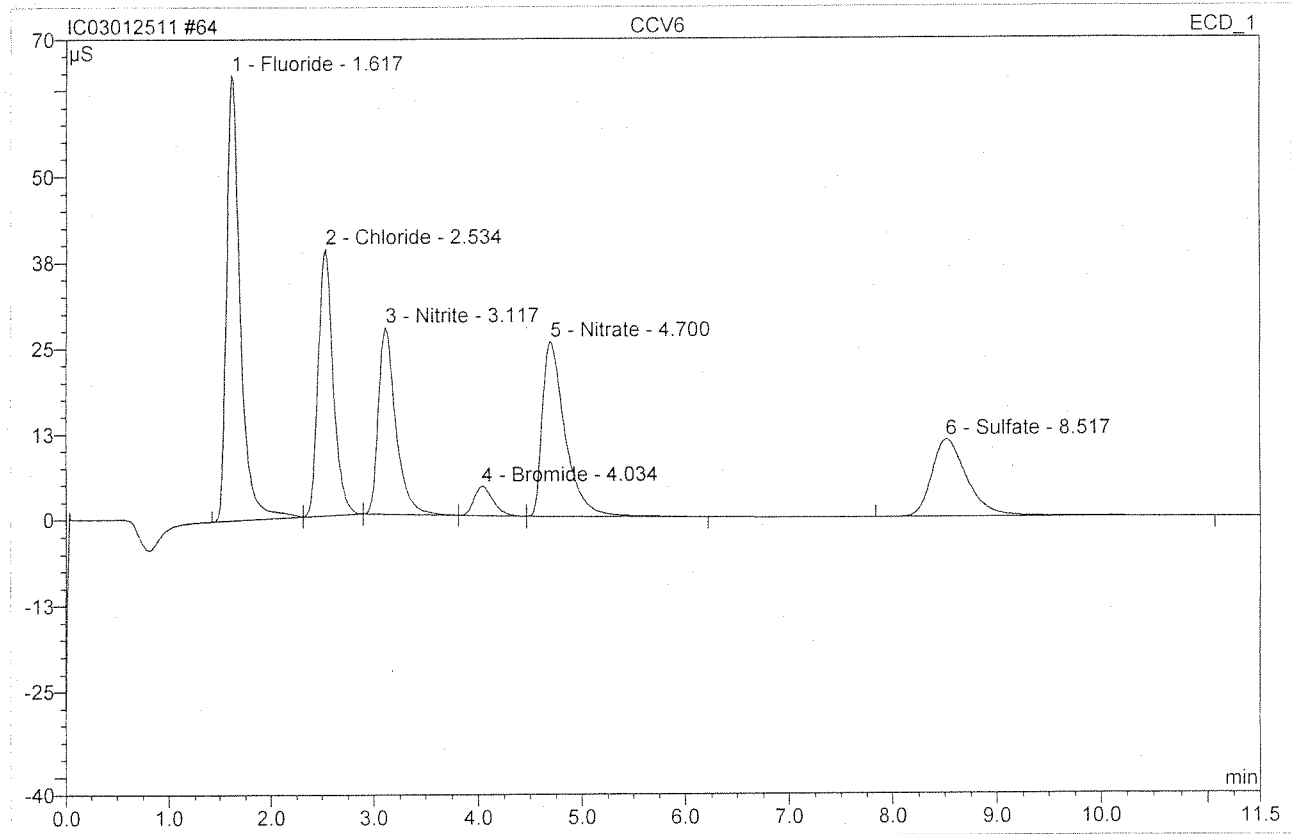
65 CCB6**CCB6**

Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	67	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 23:07	Sample Weight:	1.0000
Run Time (min):	11.50	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	

64 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	66	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/25/2011 22:53	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	64.890	10.106	29.64	5.012	BM
2	2.53	Chloride	39.029	6.646	19.49	4.516	Mb
3	3.12	Nitrite	27.259	5.335	15.65	1.859	bMb
4	4.03	Bromide	4.281	0.900	2.64	1.799	bMb
5	4.70	Nitrate	25.529	6.565	19.26	1.824	bMB
6	8.52	Sulfate	11.303	4.540	13.32	4.785	BMB
Total:			172.293	34.091	100.00	19.796	

Before

JAN 26 2011

Sequence: IC03112210c

Date: 11/22/10

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	99.9841	2.0281
Cl	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.8121	1.6325
NO2	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.9963	2.9528
Br	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.8997	0.5632
NO3	0.0	0.05	0.1	0.5	1.0	2.0	5.0	-	99.8567	4.0451
SO4	0.0	0.1	0.2	0.5	1.0	5.0	7.5	10.0	99.9341	1.0586

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

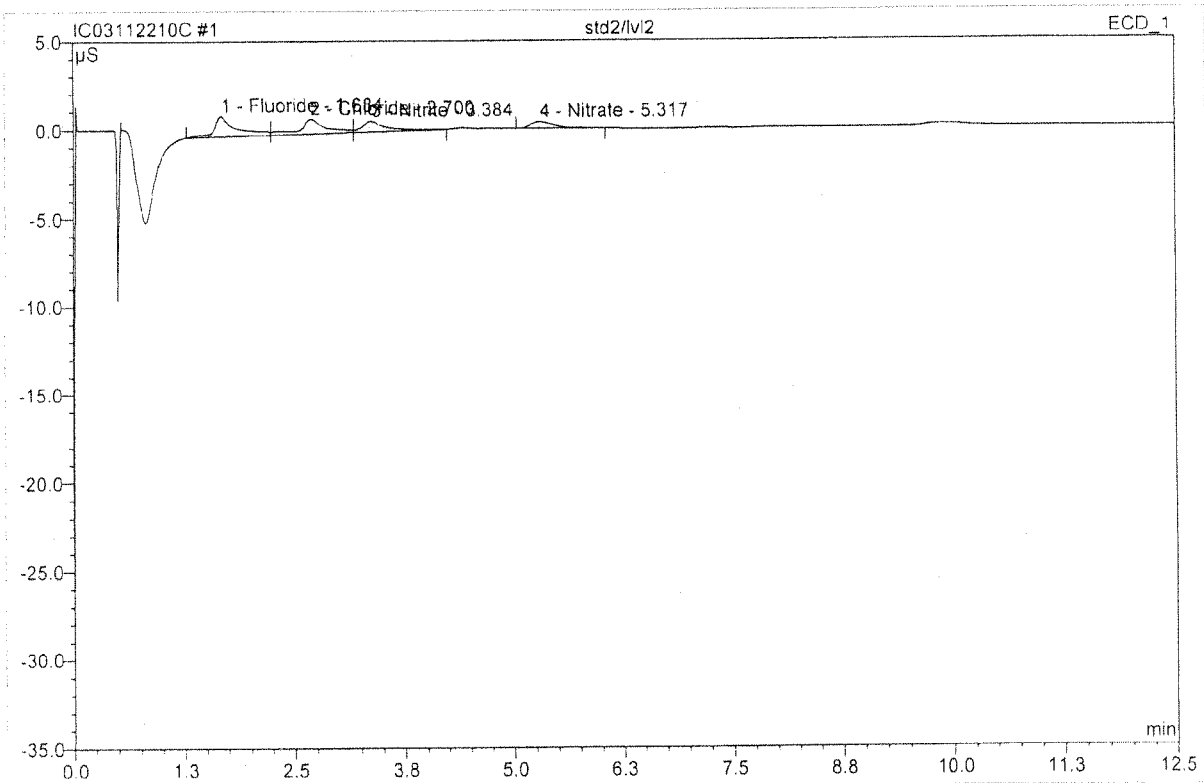
No.	Peak Name	Cal.Type	#Points	Rel.Std.Dev. %	Corr.Coeff. %	Offset	Slope	Curve
1	Fluoride	Lin	7	1.538	99.9934	0	2.0162	0
2	Chloride	Lin	7	6.3839	99.8962	0	1.4715	0
n.a.	Nitrite	Lin	6	3.47	99.9844	0	2.8702	0
n.a.	Bromide	Lin	6	5.0433	99.9621	0	0.5002	0
n.a.	Nitrate	Lin	6	9.5703	99.8817	0	3.5997	0
3	Sulfate	Lin	7	4.5792	99.9463	0	0.9487	0
Average:			6.5	5.0975	99.944	0	1.9011	0

AN11-54-A 100PPM NO2, BR, NO3
 AN11-54-B 100PPM F, CL, SO4
 AN11-54-C AN11-54-D AN11-54-E AN11-54-F AN11-54-G AN11-54-H AN11-54-I
 STD2 STD3 STD4 STD5 STD6 STD7 STD8 STD1

ml	0.050	0.100	0.200	0.500	1.000	5.00	7.50	10.00	0
F	0.100	0.200	0.500	1.000	5.00	7.50	10.00	10.00	0
CL	0.100	0.200	0.500	1.000	5.00	7.50	10.00	10.00	0
SO4	0.100	0.200	0.500	1.000	5.00	7.50	10.00	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

64121310

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 14:11	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

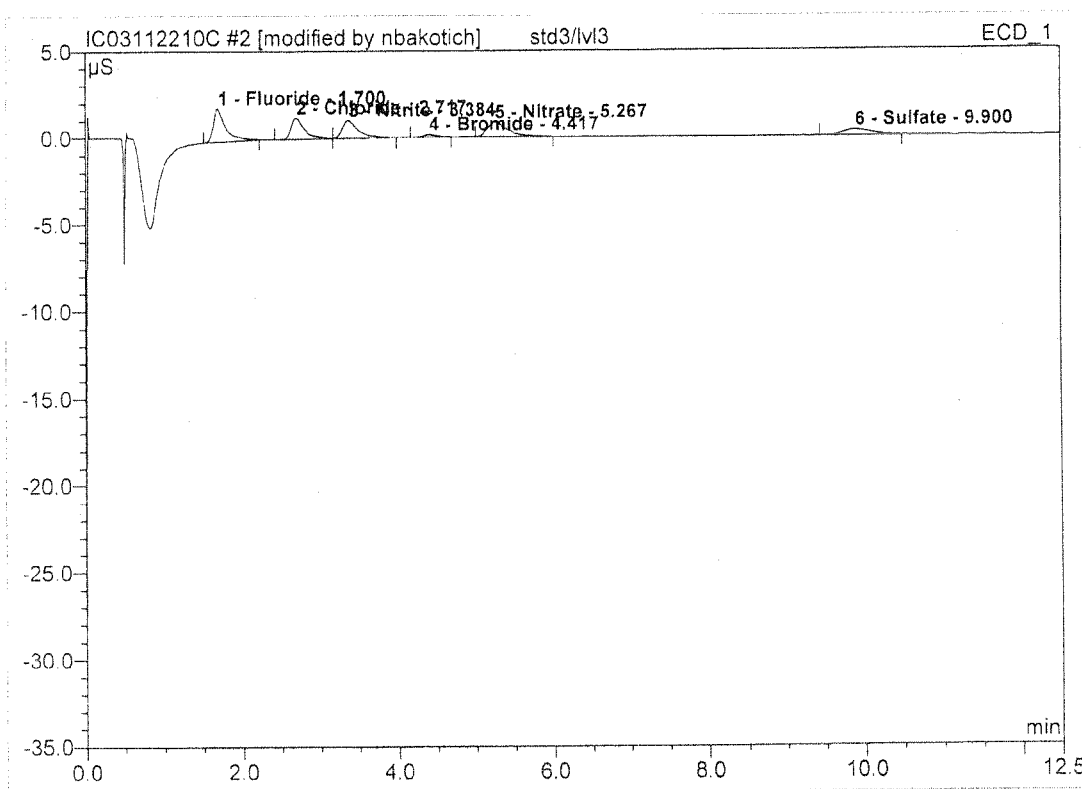


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	1.68	Fluoride	1.128	0.329	35.50	0.163	BM
2	2.70	Chloride	0.822	0.282	30.45	0.192	M
3	3.38	Nitrite	0.597	0.190	20.52	0.066	MB
4	5.32	Nitrate	0.399	0.125	13.53	0.035	BMB
Total:			2.945	0.926	100.00	0.456	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
2 std3/lv13			
Sample Name:	std3/lv13	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 14:26	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



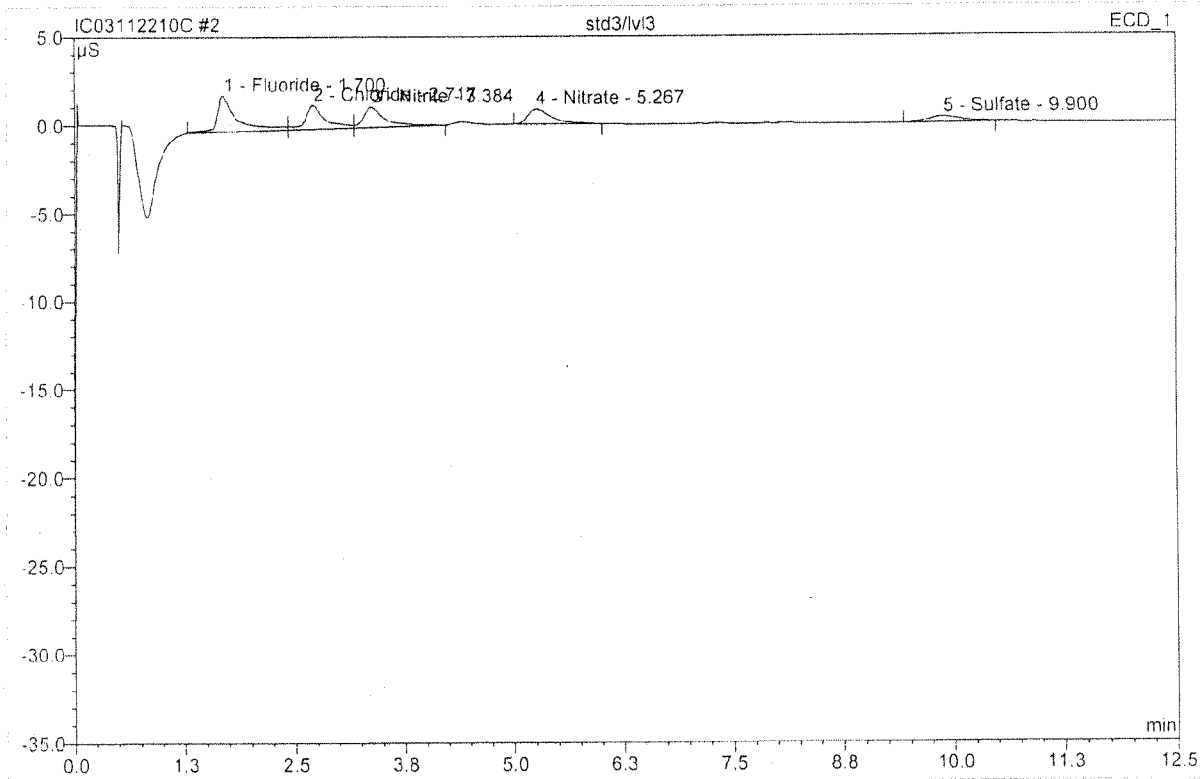
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	1.893	0.360	27.52	0.178	BMB*
2	2.72	Chloride	1.204	0.252	19.27	0.171	BM *
3	3.38	Nitrite	1.048	0.257	19.71	0.090	MB*
4	4.42	Bromide	0.160	0.035	2.71	0.071	BMB*
5	5.27	Nitrate	0.847	0.262	20.09	0.073	BMB
6	9.90	Sulfate	0.325	0.140	10.70	0.147	BMB
Total:			After	1.306	100.00	0.730	

Initials JS

NOV 22 2010

61113110

2 std3/lv13			
Sample Name:	std3/lv13	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 14:26	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

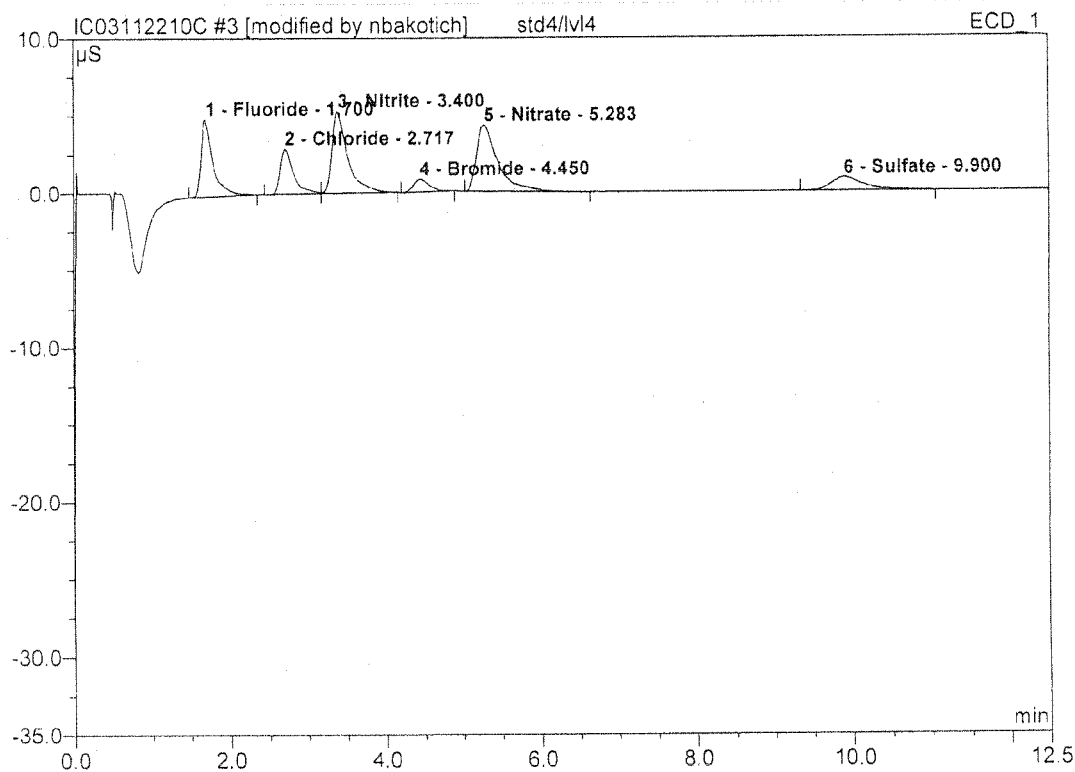


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	2.043	0.538	33.21	0.267	BM
2	2.72	Chloride	1.351	0.356	21.99	0.242	M
3	3.38	Nitrite	1.140	0.324	19.97	0.113	MB
4	5.27	Nitrate	0.847	0.262	16.20	0.073	BMB
5	9.90	Sulfate	0.325	0.140	8.63	0.147	BMB
Total:			5.707	1.620	100.00	0.842	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
3 std4/lvl4			
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 14:41	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



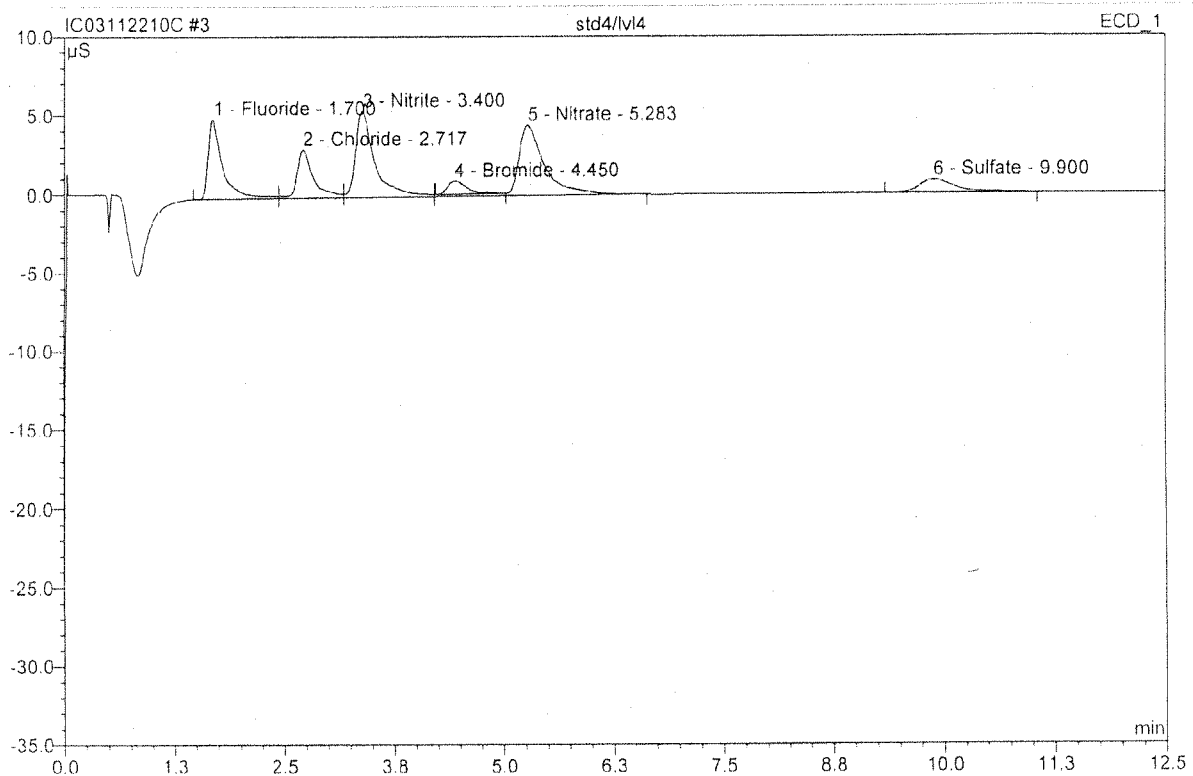
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	5.003	0.894	18.81	0.443	BMB*
2	2.72	Chloride	2.933	0.584	12.30	0.397	BM *
3	3.40	Nitrite	5.309	1.275	26.83	0.444	MB*
4	4.45	Bromide	0.826	0.194	4.08	0.388	BMB*
5	5.28	Nitrate	4.320	1.392	29.29	0.387	BMB*
6	9.90	Sulfate	0.849	0.413	8.69	0.435	BMB
Total:			19.240	4.752	100.00	2.495	

After
Initials AD

NOV 22 2010

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 14:41	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

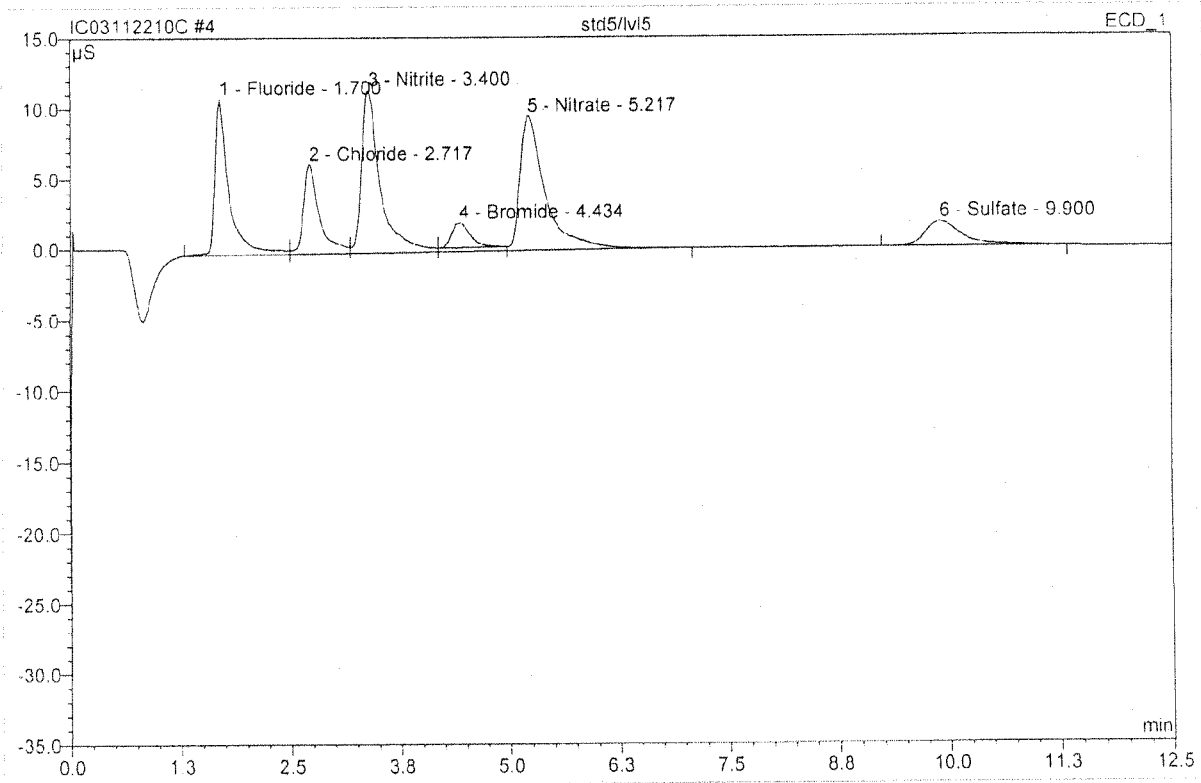


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	5.041	0.974	18.14	0.483	BM
2	2.72	Chloride	3.071	0.687	12.79	0.467	M
3	3.40	Nitrite	5.457	1.432	26.65	0.498	M
4	4.45	Bromide	0.842	0.213	3.97	0.426	Ru
5	5.28	Nitrate	4.459	1.653	30.77	0.459	MB
6	9.90	Sulfate	0.849	0.413	7.69	0.435	BMB
Total:			19.719	5.371	100.00	2.768	

~~Before~~

NOV 22 2010

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 14:56	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

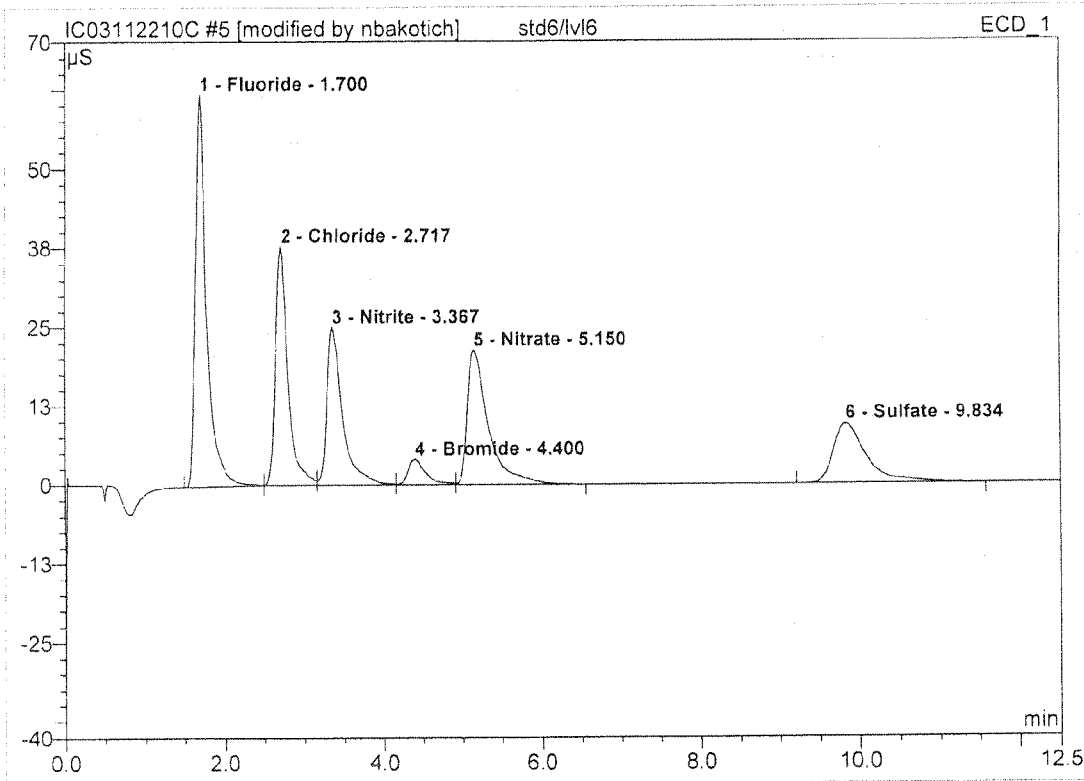


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	11.106	2.068	18.66	1.025	BM
2	2.72	Chloride	6.341	1.362	12.28	0.925	M
3	3.40	Nitrite	11.559	2.921	26.35	1.014	M
4	4.43	Bromide	1.778	0.433	3.90	0.867	Ru
5	5.22	Nitrate	9.558	3.435	30.98	0.950	MB
6	9.90	Sulfate	1.753	0.868	7.83	0.915	BMB
Total:			42.095	11.087	100.00	5.696	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
5 std6/lvl6			
Sample Name:	std6/lvl6	Injection Volume:	200.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 15:11	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	61.919	10.194	29.36	5.056	BMb*
2	2.72	Chloride	37.693	6.806	19.60	4.625	bM *
3	3.37	Nitrite	24.857	5.657	16.29	1.971	M *
4	4.40	Bromide	3.966	1.023	2.95	2.045	M *
5	5.15	Nitrate	21.252	6.574	18.93	1.826	MB*
6	9.83	Sulfate	9.417	4.472	12.88	4.714	BMB
Total:		After	159.103	34.725	100.00	20.237	

Initials JS

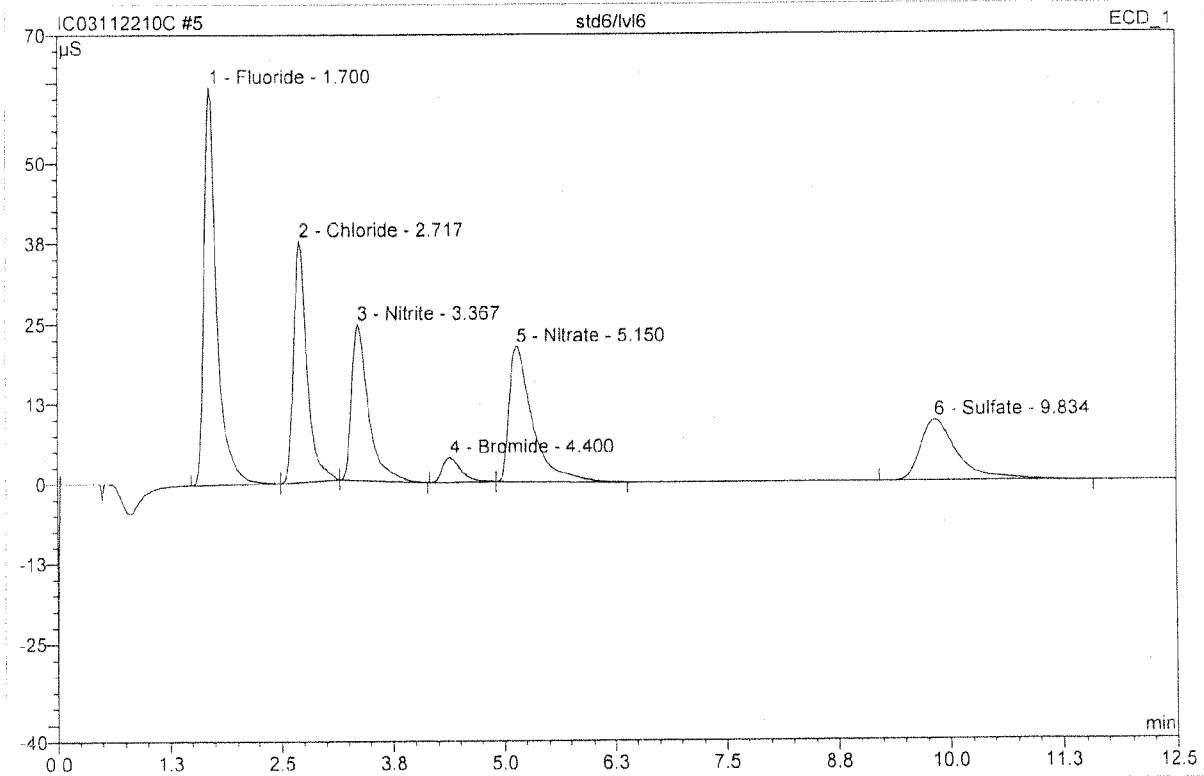
NOV 22 2010

CASLIMS_300-0/Integration Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other _____

311131*

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

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 15:11	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

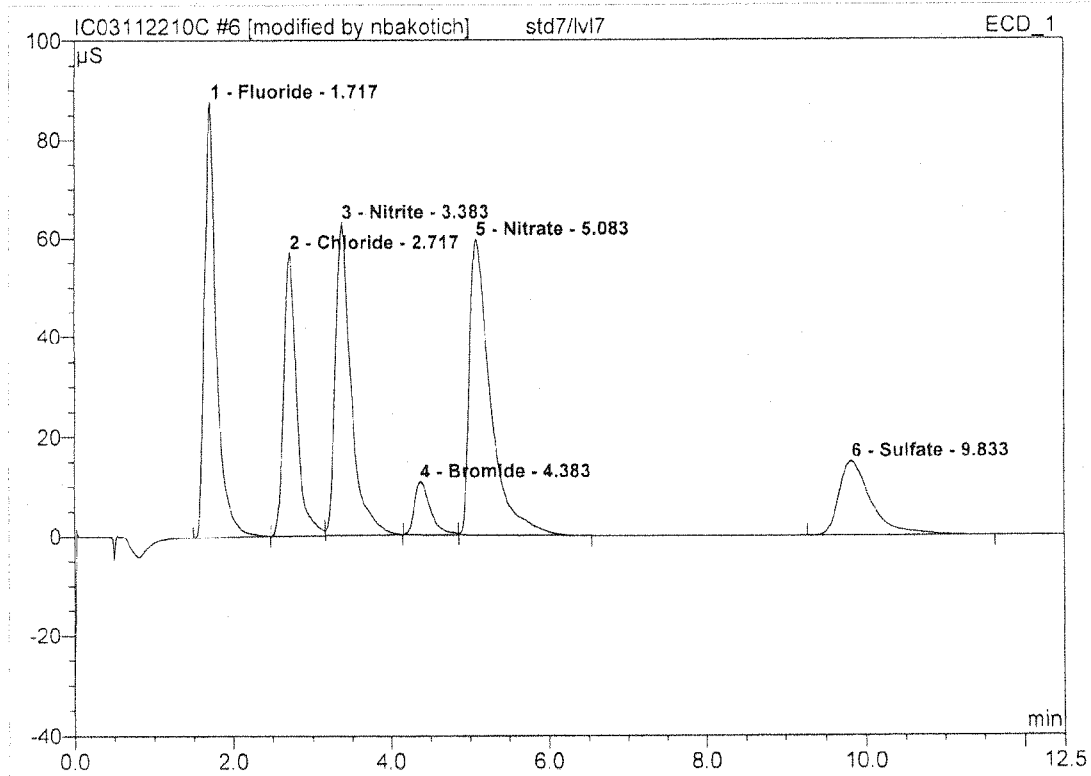


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	61.919	10.194	30.08	5.056	BMB
2	2.72	Chloride	37.503	6.612	19.51	4.510	bMb
3	3.37	Nitrite	24.368	5.310	15.67	1.865	bMB
4	4.40	Bromide	3.823	0.902	2.66	1.833	BMB
5	5.15	Nitrate	21.074	6.399	18.88	1.783	bMB
6	9.83	Sulfate	9.417	4.472	13.19	4.714	BMB
Total:			158.103	33.888	100.00	19.761	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
6 std7/lvl7			
Sample Name:	std7/lvl7	Injection Volume:	200.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 15:26	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.72	Fluoride	87.714	15.187	22.17	7.532	BMB
2	2.72	Chloride	56.910	10.892	15.90	7.402	BM *
3	3.38	Nitrite	62.916	14.448	21.09	5.034	MB*
4	4.38	Bromide	10.676	2.508	3.66	5.013	BM *
5	5.08	Nitrate	59.432	18.416	26.89	5.116	MB*
6	9.83	Sulfate	14.943	7.046	10.29	7.427	BMB
Total:			292.592	68.496	100.00	37.525	

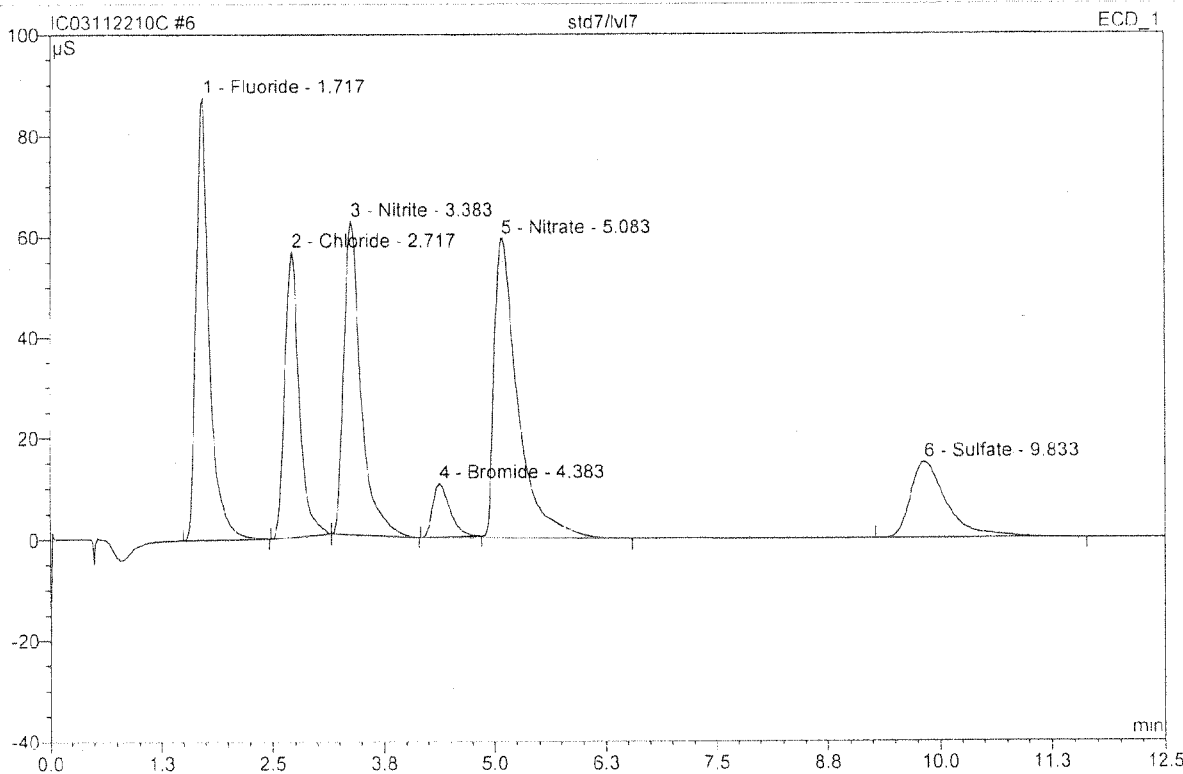
After Initials JD

NOV 22 2010

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

CASLIMS_300-0/Integration
 Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other _____

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 15:26	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

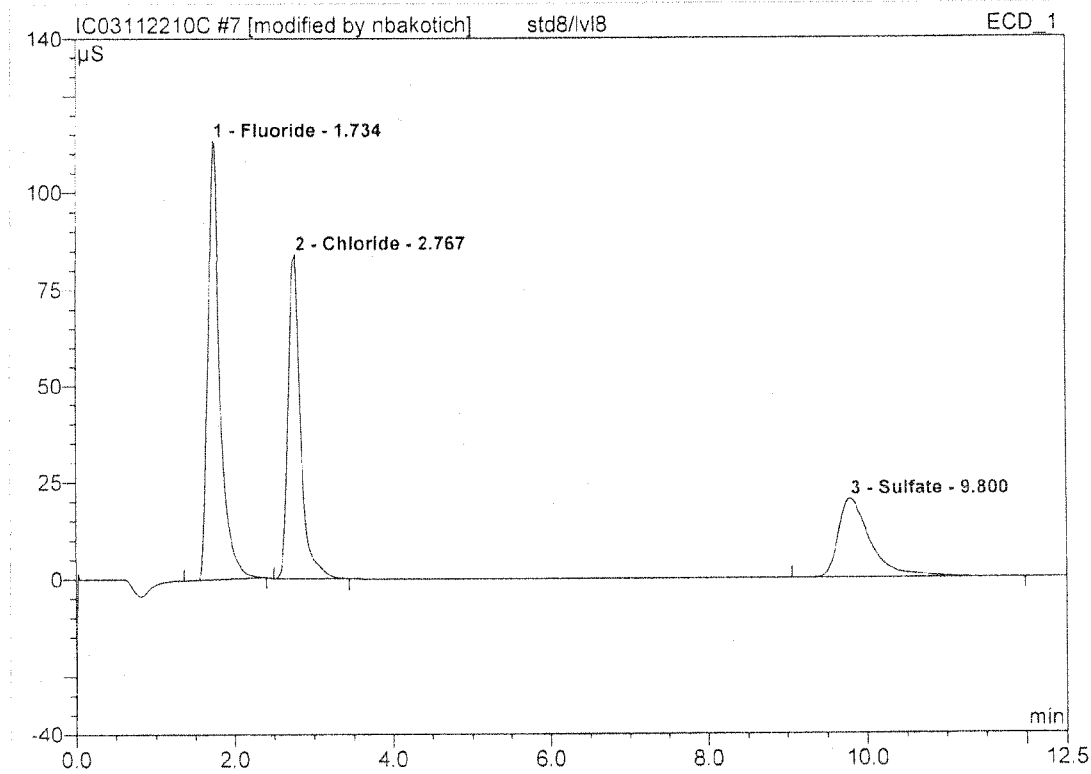


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	87.714	15.187	22.41	7.532	BMB
2	2.72	Chloride	56.611	10.593	15.63	7.259	BMb
3	3.38	Nitrite	62.232	14.017	20.68	5.008	bMB
4	4.38	Bromide	10.581	2.401	3.54	4.975	Ru
5	5.08	Nitrate	59.432	18.523	27.33	5.120	BMB
6	9.83	Sulfate	14.943	7.046	10.40	7.427	BMB
Total:			291.513	67.765	100.00	37.322	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
7 std8/lv18			
Sample Name:	std8/lv18	Injection Volume:	200.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 15:41	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.73	Fluoride	113.420	20.081	44.72	9.960	BMB*
2	2.77	Chloride	83.885	15.135	33.71	10.286	BMB*
3	9.80	Sulfate	20.407	9.687	21.57	10.211	BMB
Total:		After	217.713	44.903	100.00	30.457	

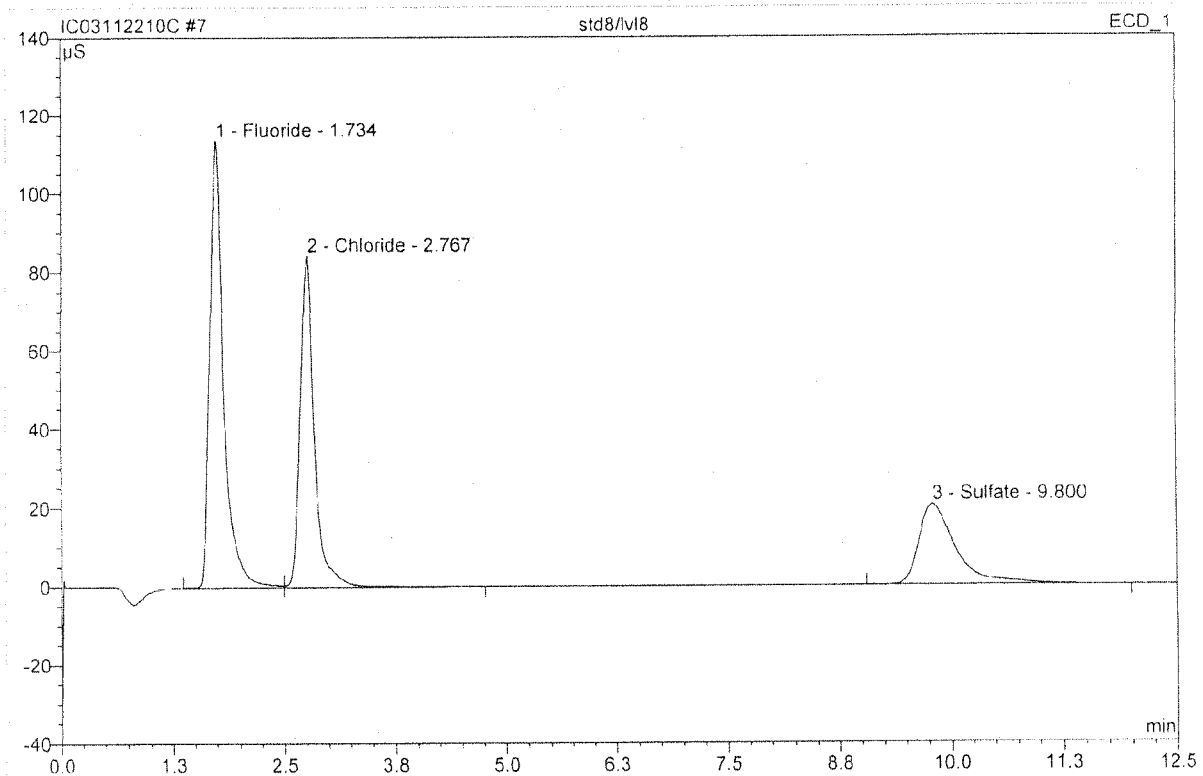
Initials JD

NOV 22 2010

Wrong Peak/Peak not Found
 Baseline/shoulder Incorrect
 Other

6/15/11/10

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 15:41	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

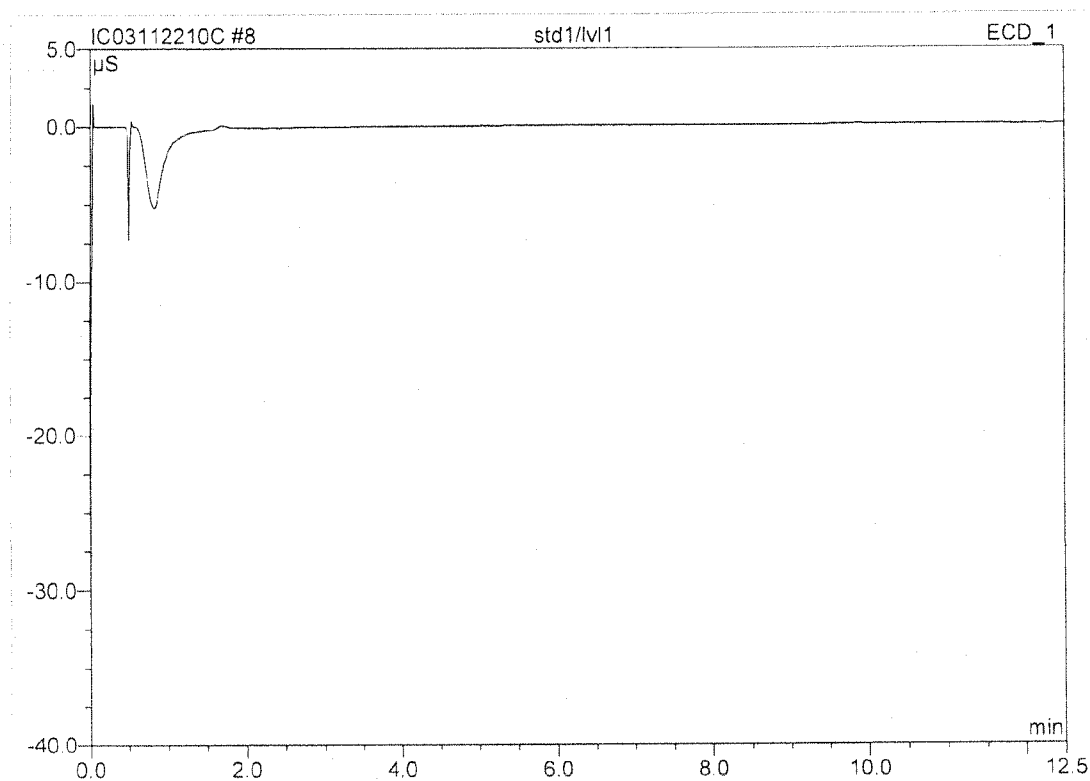


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.73	Fluoride	113.629	20.434	44.74	10.039	BM
2	2.77	Chloride	84.251	15.552	34.05	10.408	MB
3	9.80	Sulfate	20.407	9.687	21.21	10.211	BMB
Total:			218.287	45.673	100.00	30.657	

Before

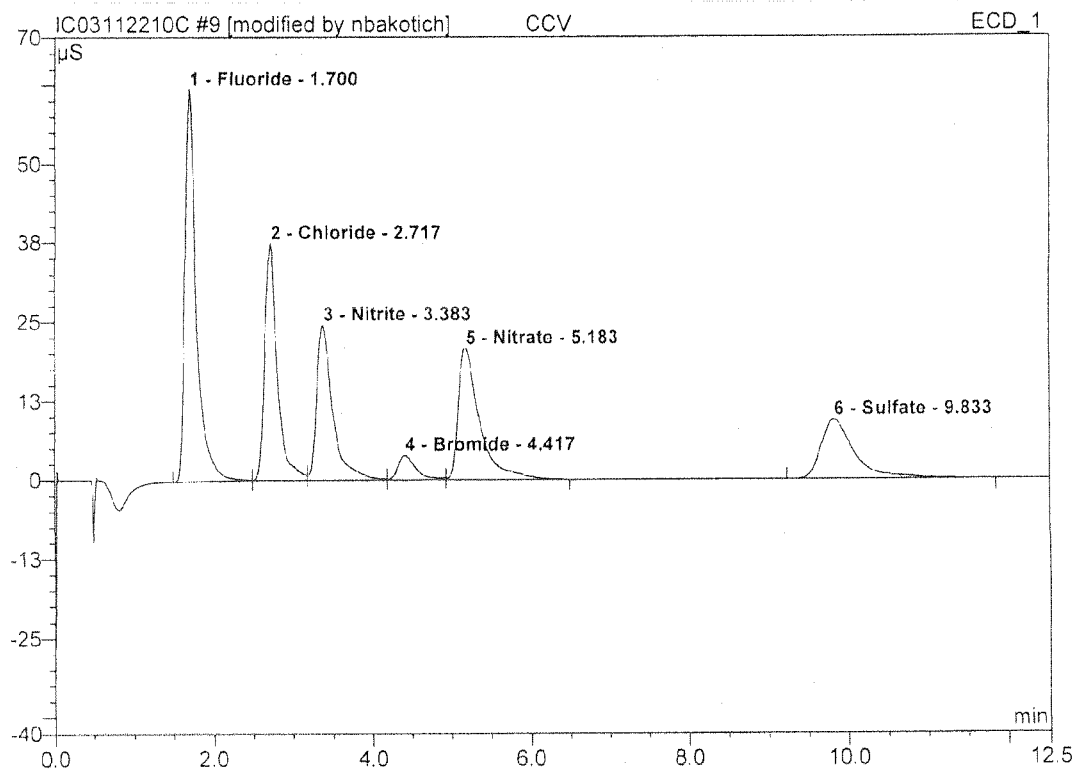
NOV 2 2010

Columbia Analytical Services, Inc.			
8 std1/lvl1			
Sample Name:	std1/lvl1	Injection Volume:	200.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 15:56	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



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

Columbia Analytical Services, Inc.			
9 CCV			
Sample Name:	CCV	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 16:11	Analyst:	JS / EM
Run Time (min):	12.52	Inst. ID:	K-IC-03



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	62.081	10.293	29.50	5.105	BMb
2	2.72	Chloride	37.316	6.836	19.59	4.646	bM *
3	3.38	Nitrite	24.508	5.662	16.22	1.973	M *
4	4.42	Bromide	3.899	1.014	2.91	2.027	M *
5	5.18	Nitrate	20.744	6.560	18.80	1.822	MB*
6	9.83	Sulfate	9.395	4.531	12.98	4.777	BMB
Total:			157.944	34.896	100.00	20.350	

After Initials nb

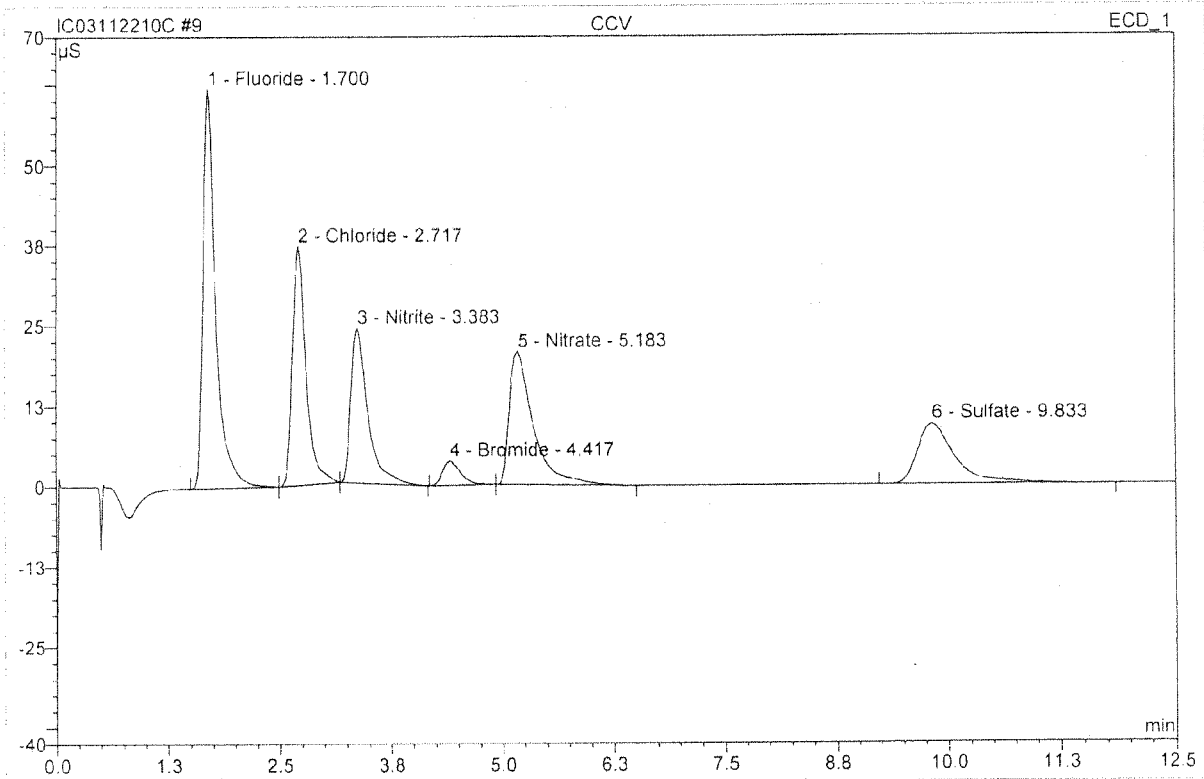
NOV 22 2010

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

CASLIMS_300-0/Integration

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

9 CCV			
Sample Name:	CCV	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 16:11	Sample Weight:	1.0000
Run Time (min):	12.52	Sample Amount:	1.0000

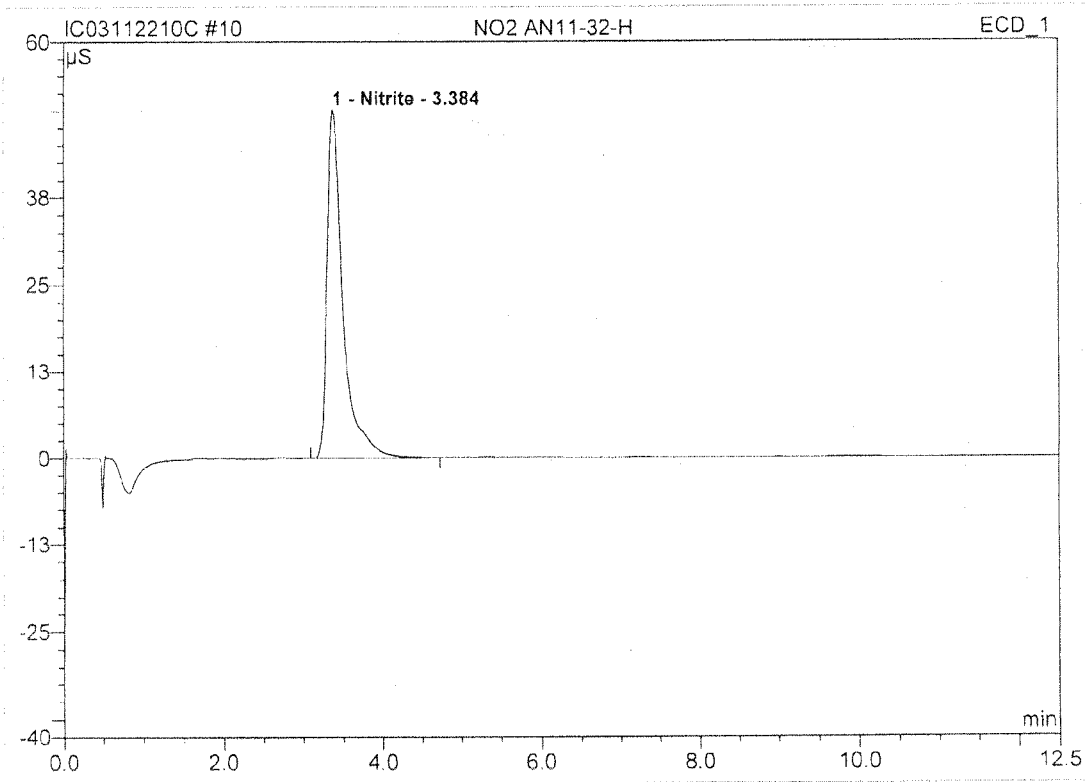


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	62.081	10.293	30.28	5.105	BMb
2	2.72	Chloride	37.108	6.612	19.45	4.493	bMb
3	3.38	Nitrite	23.960	5.280	15.53	1.840	bMB
4	4.42	Bromide	3.755	0.890	2.62	1.780	BMb
5	5.18	Nitrate	20.558	6.387	18.79	1.774	bMB
6	9.83	Sulfate	9.395	4.531	13.33	4.777	BMB
Total:			156.858	33.992	100.00	19.768	

Before

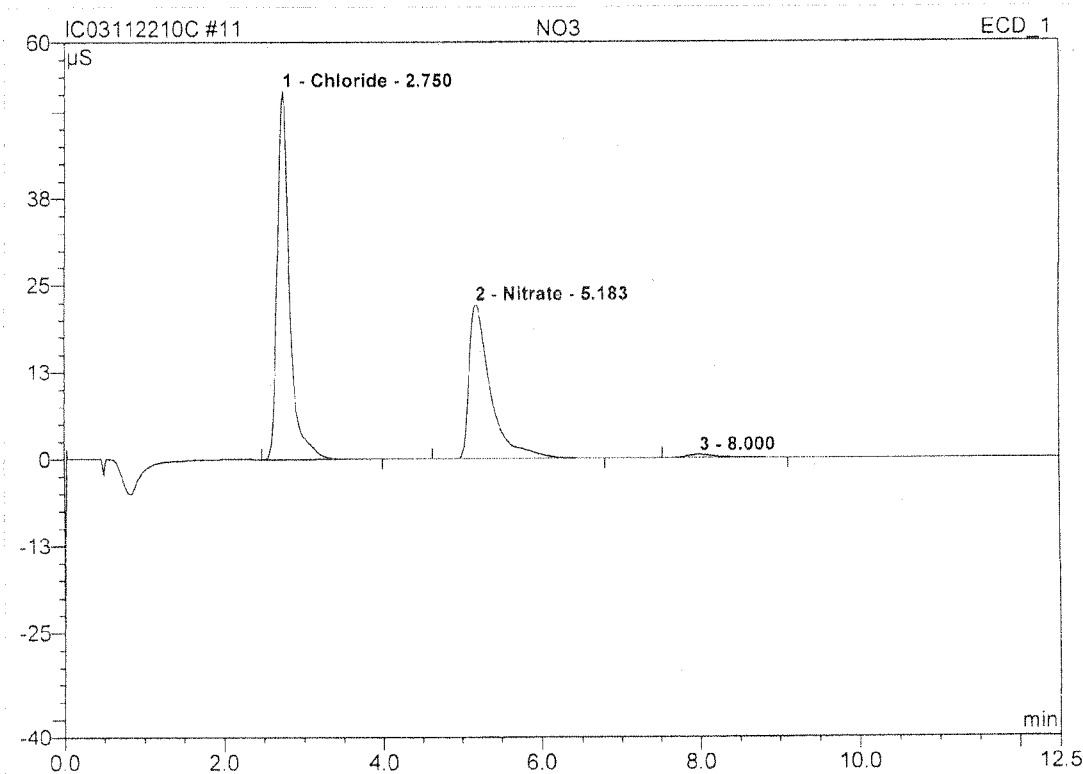
NOV 22 2010

Columbia Analytical Services, Inc.			
10 NO2 AN11-32-H			
NO2			
Sample Name:	NO2 AN11-32-H	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	25.0
Recording Time:	11/22/2010 16:26	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



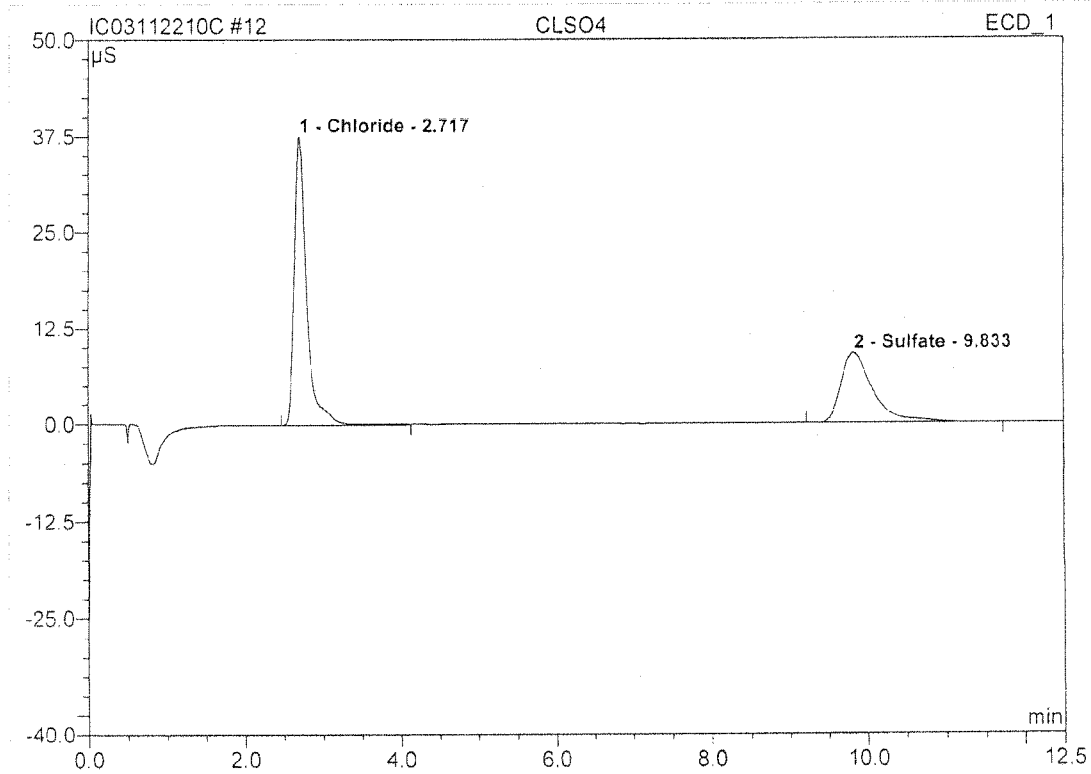
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.38	Nitrite	50.270	11.728	100.00	102.158	BMB
Total:			50.270	11.728	100.00	102.158	

Columbia Analytical Services, Inc.			
11 NO3			
NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	10.0
Recording Time:	11/22/2010 16:41	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



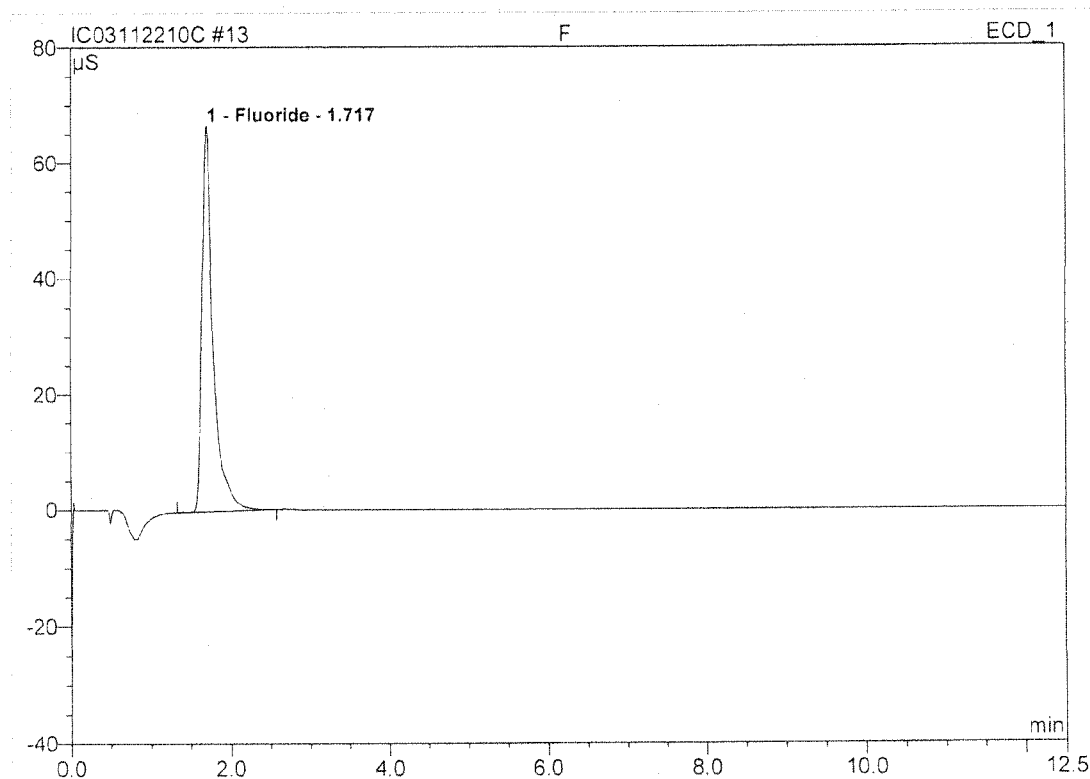
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.75	Chloride	53.078	9.510	56.79	64.626	BMB
2	5.18	Nitrate	22.119	7.007	41.84	19.466	BMB
3	8.00	n.a.	0.491	0.230	1.37	n.a.	BMB
Total:			75.688	16.746	100.00	84.092	

Columbia Analytical Services, Inc.			
12 CLSO4			
CLSO4			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 16:56	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



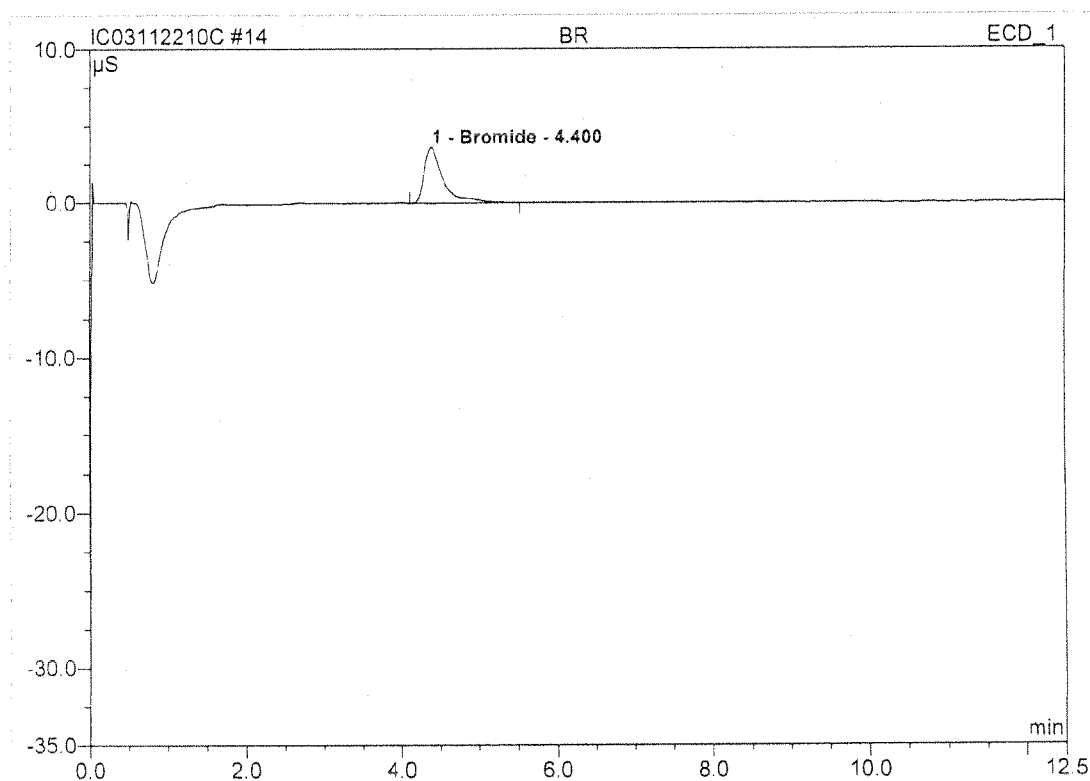
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.72	Chloride	37.687	6.916	61.01	4.700	BMB
2	9.83	Sulfate	9.129	4.421	38.99	4.660	BMB
Total:			46.817	11.337	100.00	9.360	

Columbia Analytical Services, Inc.			
13 F			
F			
Sample Name:	F	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	2.0
Recording Time:	11/22/2010 17:11	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



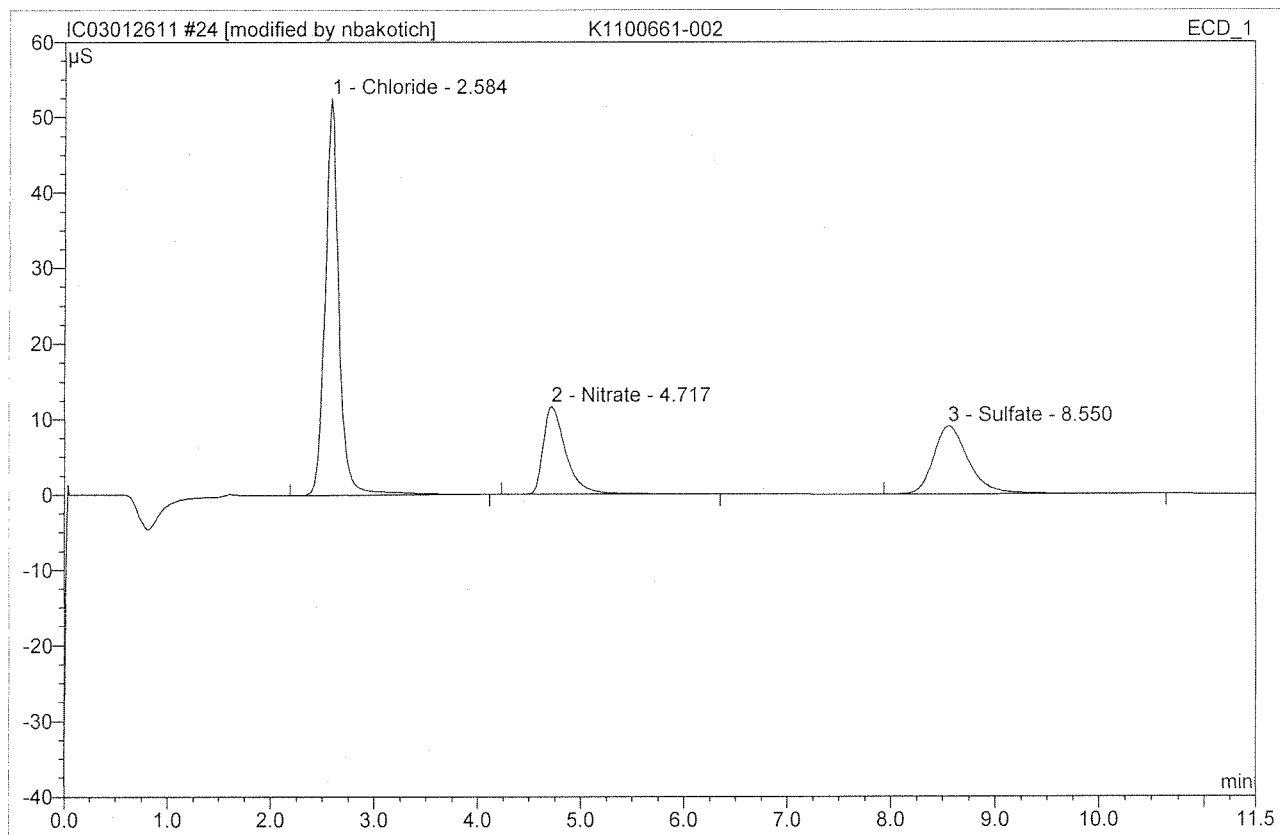
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	66.734	11.007	100.00	10.919	BMB
Total:			66.734	11.007	100.00	10.919	

Columbia Analytical Services, Inc.			
14 BR			
BR			
Sample Name:	BR	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	2.0
Recording Time:	11/22/2010 17:26	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.40	Bromide	3.615	1.033	100.00	4.130	BMB
Total:			3.615	1.033	100.00	4.130	

24 K1100661-002			
Sample Name:	K1100661-002	Injection Volume:	200.0
Vial Number:	26	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/26/2011 12:42	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



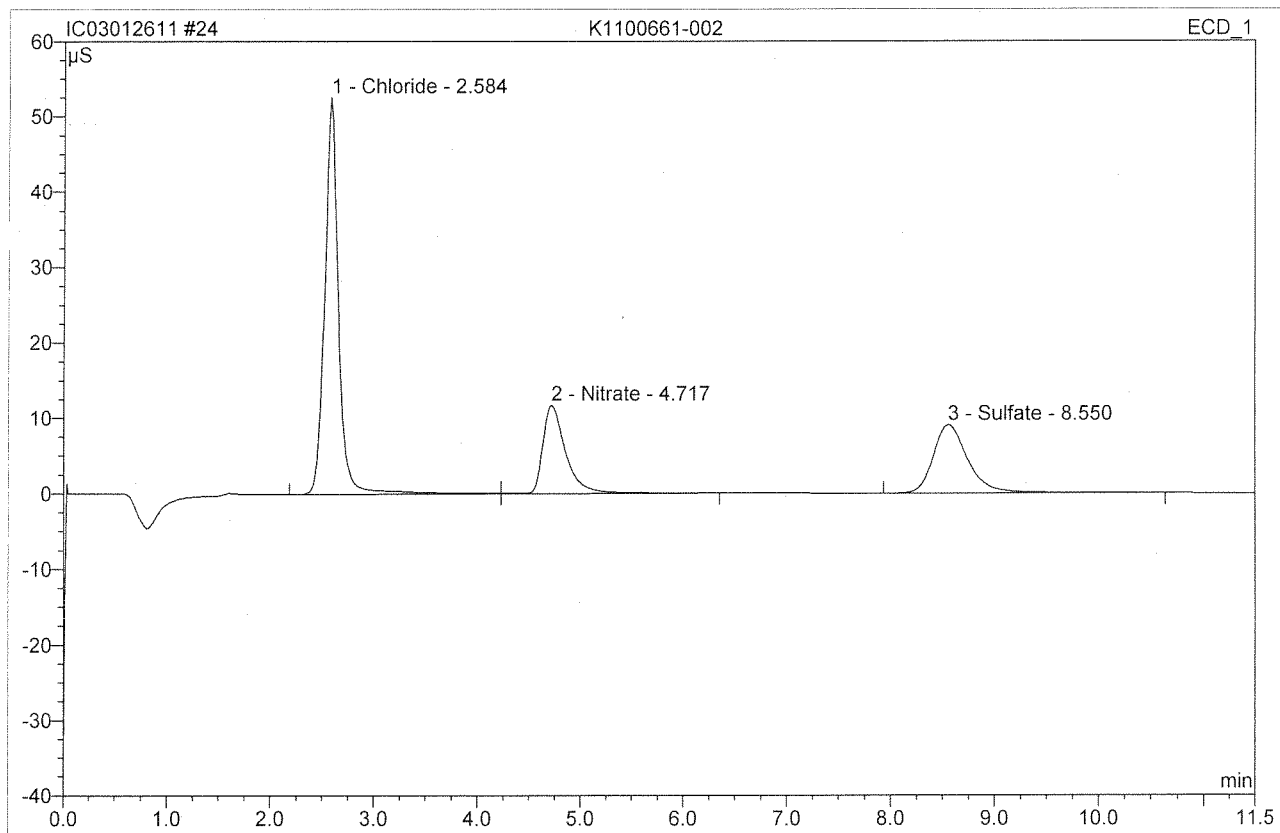
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.58	Chloride	52.599	8.184	55.76	55.617	BMB*
2	4.72	Nitrate	11.657	2.970	20.24	8.250	BMB*
3	8.55	Sulfate	9.075	3.522	24.00	37.130	BMB
Total:			73.331	14.676	100.00	100.997	

After Initials nb

64 11/27/11

JAN 27 2011

24 K1100661-002			
Sample Name:	K1100661-002	Injection Volume:	200.0
Vial Number:	26	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/26/2011 12:42	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

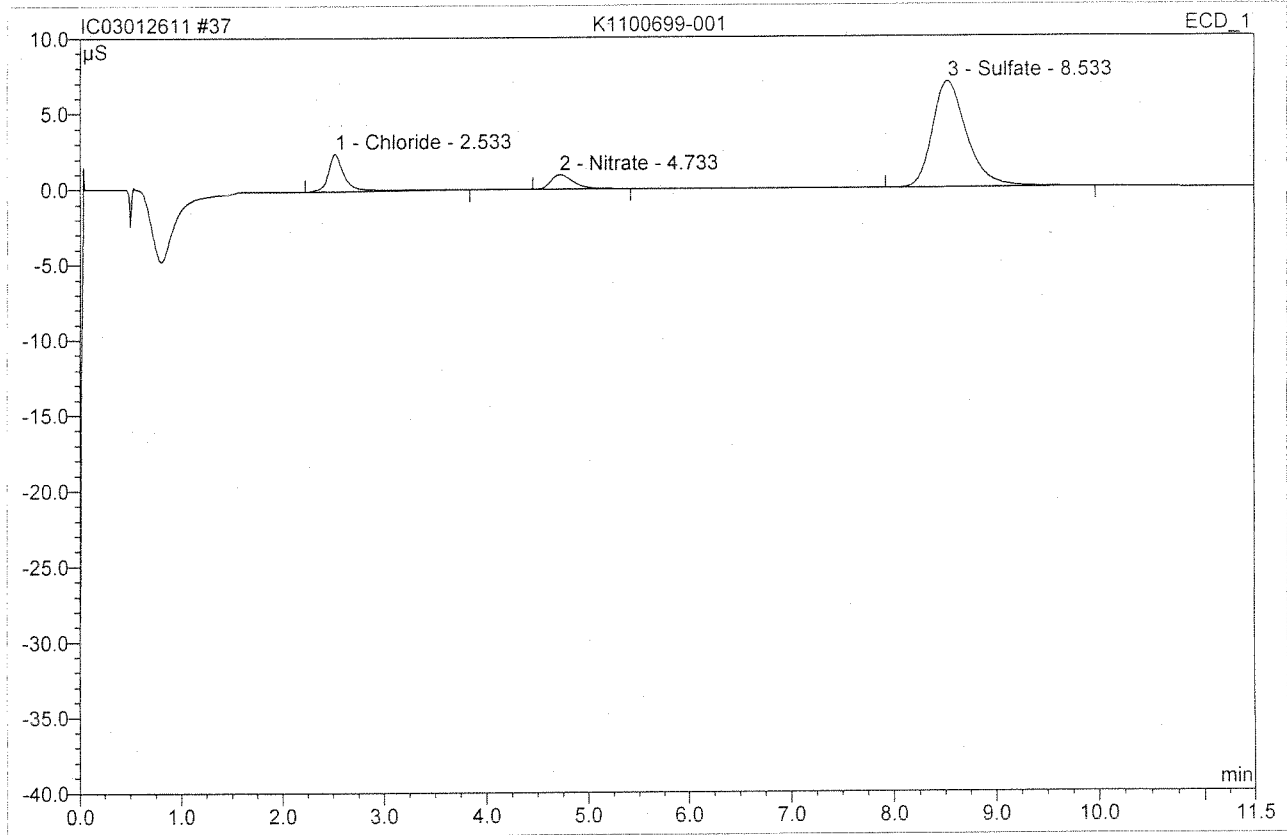


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.58	Chloride	52.625	8.319	55.75	56.533	BM
2	4.72	Nitrate	11.737	3.080	20.64	8.557	MB
3	8.55	Sulfate	9.075	3.522	23.61	37.130	BMB
Total:			73.437	14.921	100.00	102.221	

Before

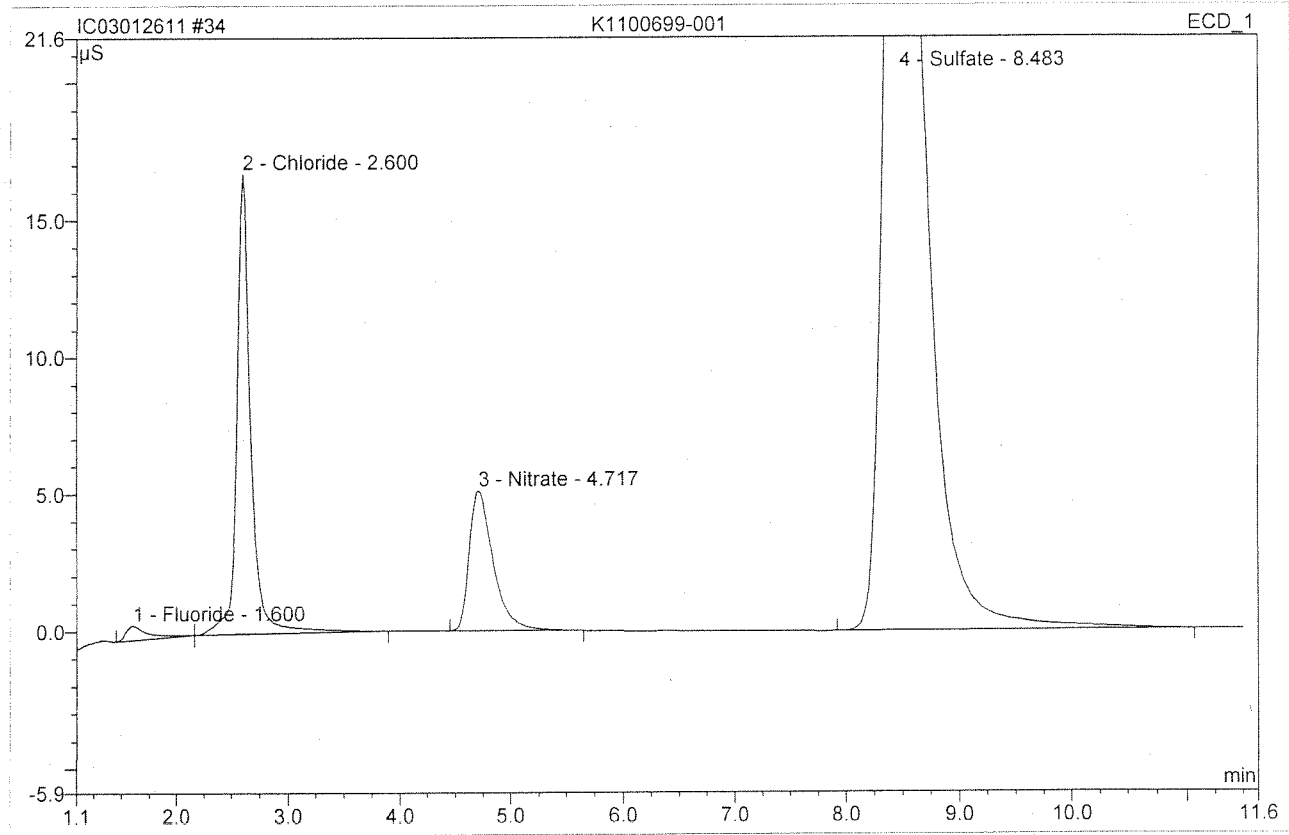
JAN 27 2011

37 K1100699-001			
Sample Name:	K1100699-001	Injection Volume:	200.0
Vial Number:	39	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/26/2011 15:43	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride	2.479	0.494	14.26	3.360	BMB
2	4.73	Nitrate	0.949	0.241	6.94	0.669	BMB
3	8.53	Sulfate <i>x=28.8 APD</i>	7.005	2.732	78.80	28.802	BMB
Total:			10.434	3.468	100.00	32.831	

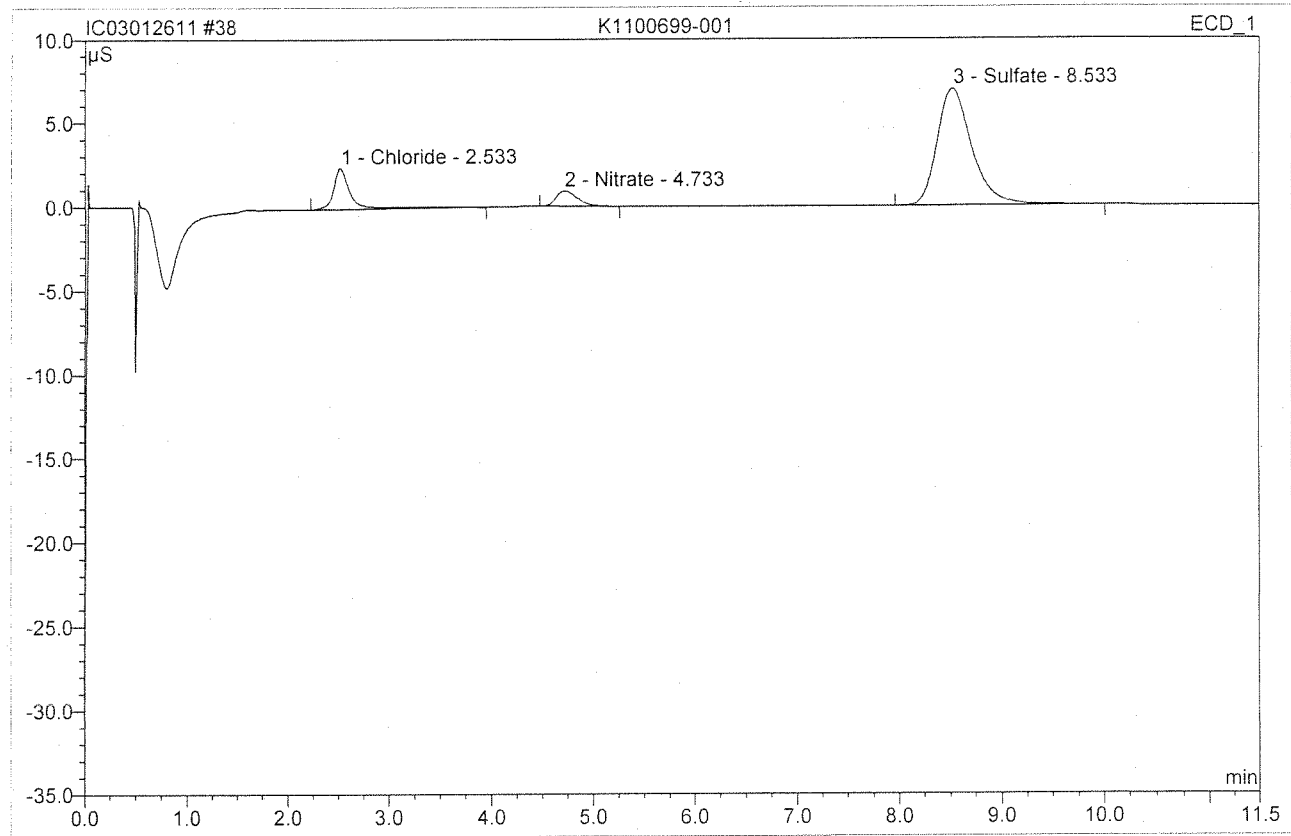
34 K1100699-001			
D			
Sample Name:	K1100699-001	Injection Volume:	200.0
Vial Number:	36	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/26/2011 15:01	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	0.529	0.124	0.61	0.123	BMB
2	2.60	Chloride	16.774	2.438	12.09	3.314	bMB
3	4.72	Nitrate	5.091	1.280	6.35	0.711	BMB
4	8.48	Sulfate	42.412	16.318	80.94	34.402	BMB
Total:			64.806	20.160	100.00	38.550	

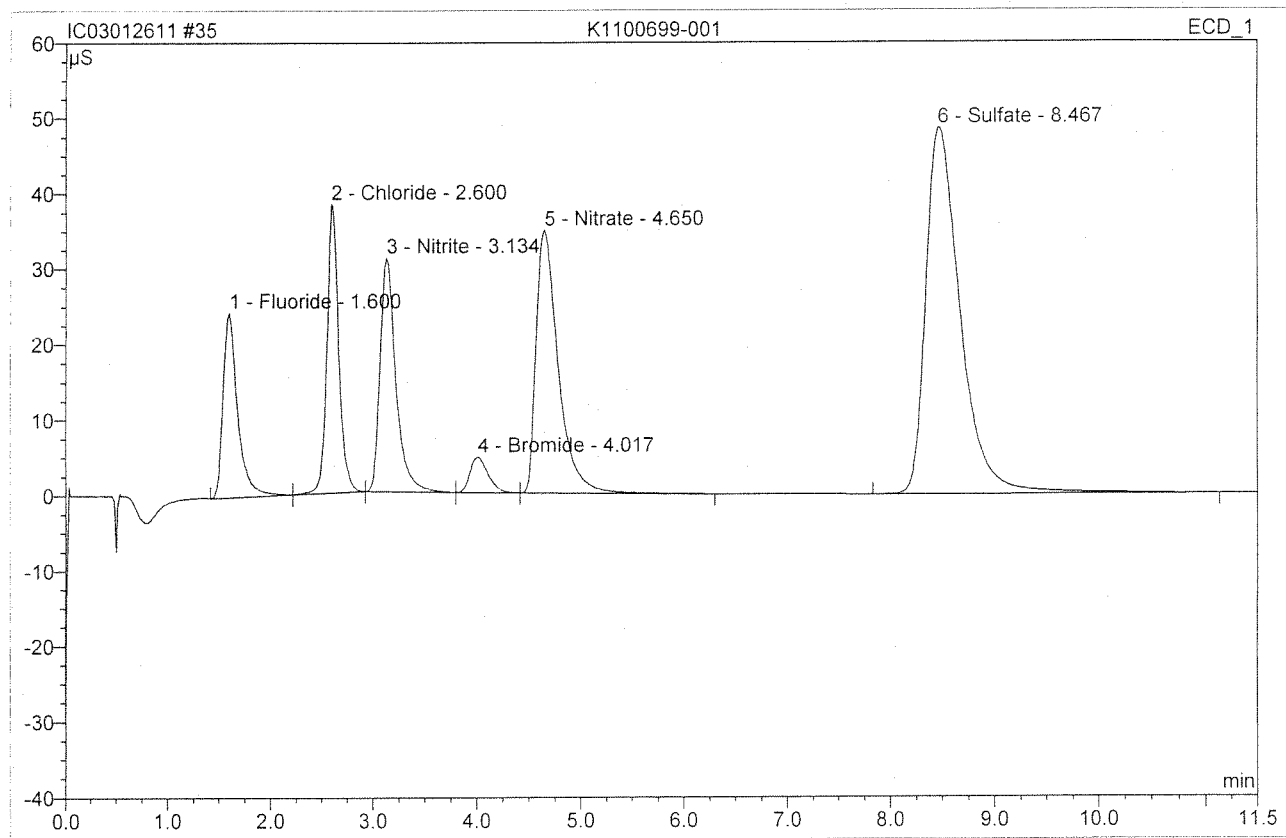
NO₂ < 0.10

38 K1100699-001			
D			
Sample Name:	K1100699-001	Injection Volume:	200.0
Vial Number:	40	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/26/2011 15:57	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride	2.439	0.499	14.43	3.389	BMB
2	4.73	Nitrate	0.925	0.228	6.60	0.634	BMB
3	8.53	Sulfate	6.970	2.728	78.96	28.756	BMB
Total:			10.334	3.455	100.00	32.778	

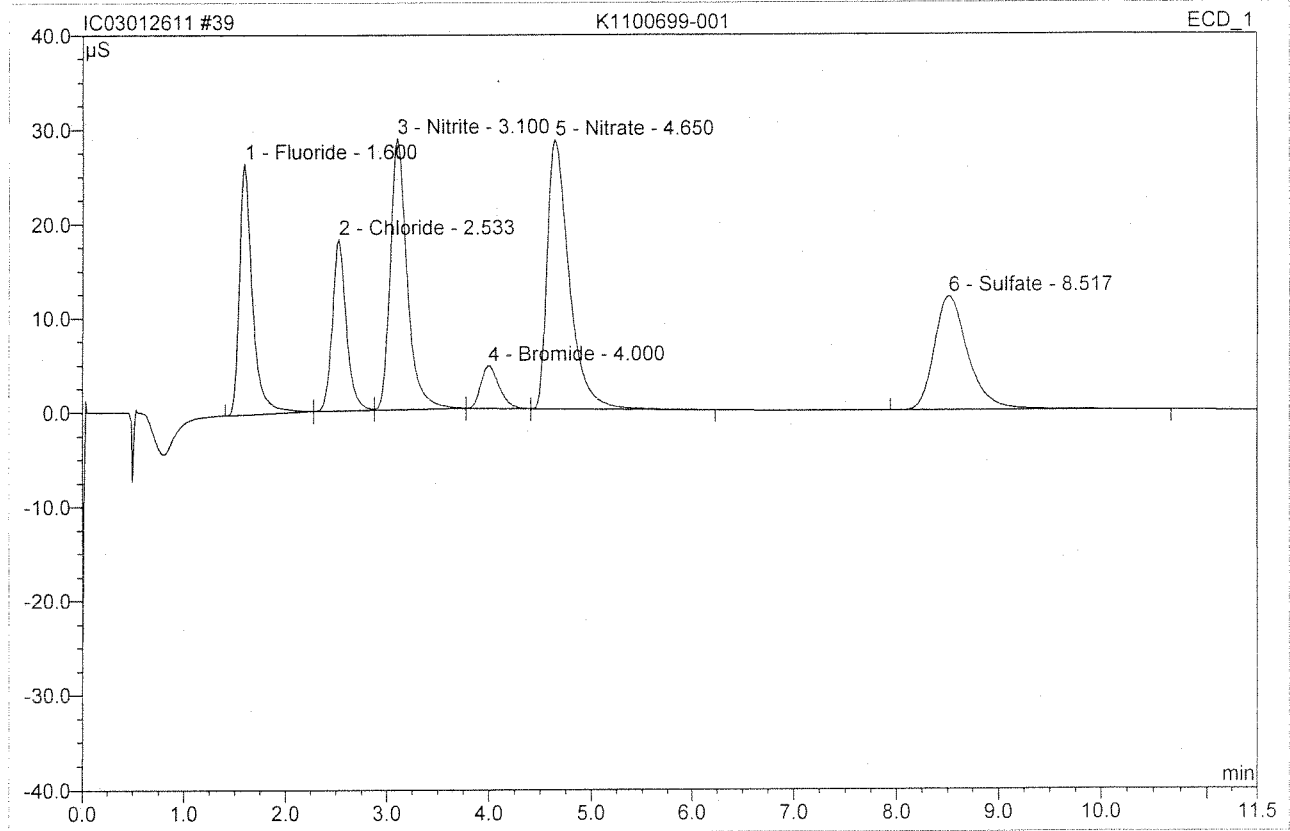
35 K1100699-001			
MS			
Sample Name:	K1100699-001	Injection Volume:	200.0
Vial Number:	37	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/26/2011 15:15	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride <i>REC=100</i>	24.388	4.025	9.35	3.993	BMB
2	2.60	Chloride <i>REC=86</i>	38.240	5.103	11.86	6.936	bMb
3	3.13	Nitrite <i>REC=97</i>	30.959	5.549	12.90	3.867	bMb
4	4.02	Bromide -	4.743	0.961	2.23	3.843	bMb
5	4.65	Nitrate <i>REC=83</i>	34.853	8.655	20.11	4.809	bMB
6	8.47	Sulfate -	48.569	18.737	43.54	39.502	BMB
Total:			181.751	43.030	100.00	62.949	

*SPK 1/1
4*

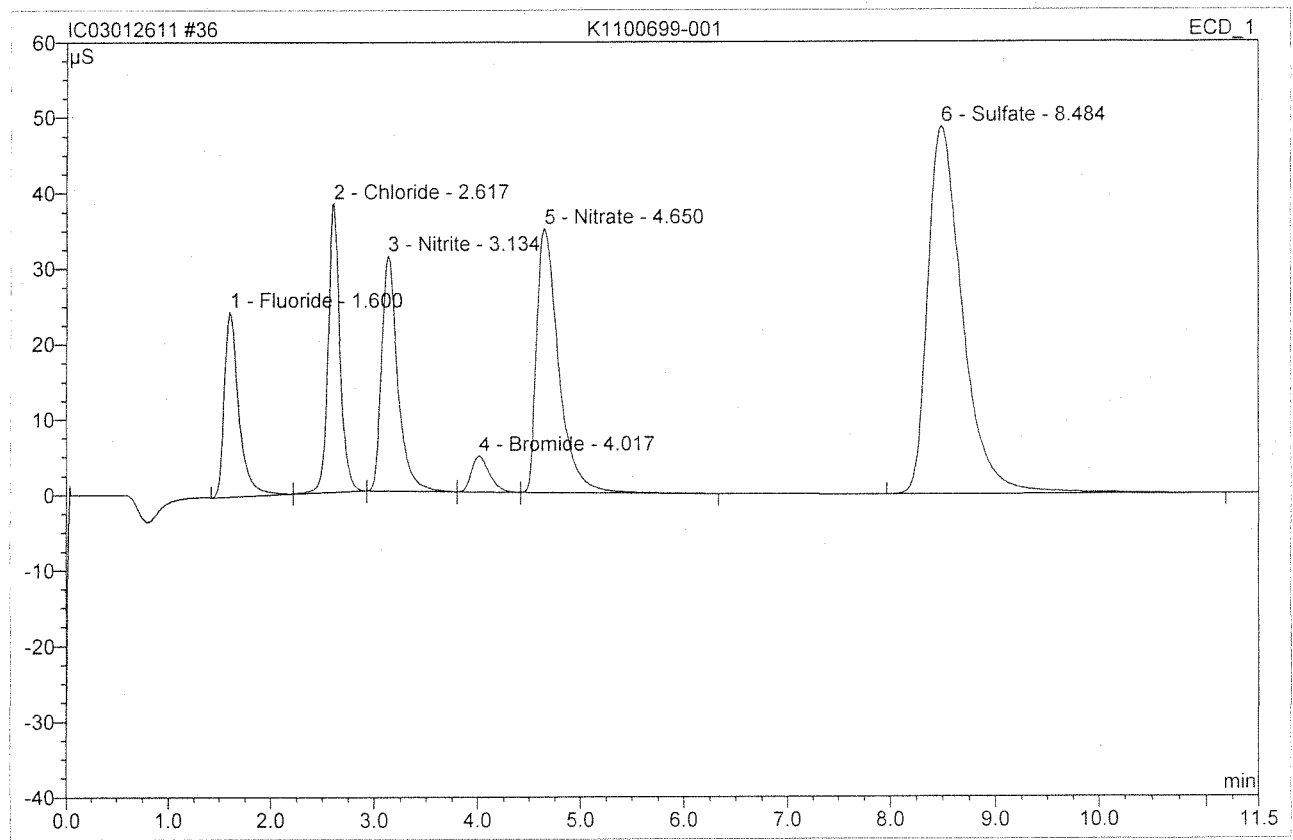
39 K1100699-001			
MS			
Sample Name:	K1100699-001	Injection Volume:	200.0
Vial Number:	41	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/26/2011 16:11	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	26.631	3.967	15.68	19.676	BMB
2	2.53	Chloride	18.223	2.951	11.67	20.057	bM
3	3.10	Nitrite	28.824	5.574	22.03	19.420	Mb
4	4.00	Bromide	4.573	0.945	3.74	18.895	bMb
5	4.65	Nitrate	28.566	7.149	28.26	19.861	bMB
6	8.52	Sulfate <i>PEC-105</i>	12.151	4.713	18.63	49.680	BMB
Total:			118.968	25.300	100.00	147.589	

5pk w/ 20

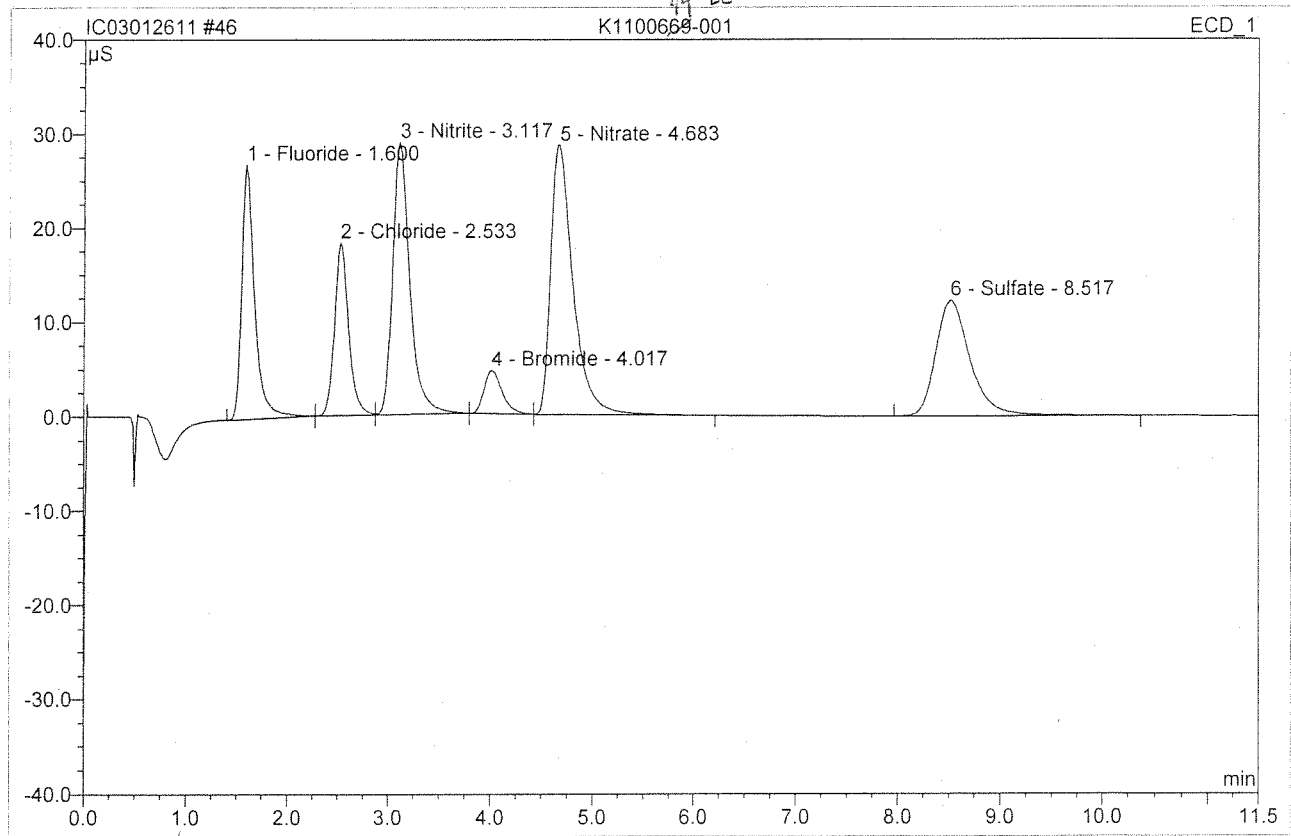
36 K1100699-001			
MSD			
Sample Name:	K1100699-001	Injection Volume:	200.0
Vial Number:	38	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/26/2011 15:29	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride <i>REC=101</i>	24.505	4.054	9.38	4.022	BMB
2	2.62	Chloride <i>REC=87</i>	38.235	5.122	11.85	<i>NR</i> 6.961	bMb
3	3.13	Nitrite <i>REC=98</i>	31.167	5.605	12.97	3.906	bMb
4	4.02	Bromide	4.787	0.967	2.24	3.868	bMb
5	4.65	Nitrate <i>REC=104</i>	35.076	8.736	20.22	4.854	bMB
6	8.48	Sulfate	48.701	18.722	43.33	39.471	BMB
Total:			182.471	43.207	100.00	63.081	

spk 1/1
4/

46 K1100669-001			
MSD			
Sample Name:	K1100669-001	Injection Volume:	200.0
Vial Number:	48	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	10.0000
Recording Time:	1/26/2011 17:50	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

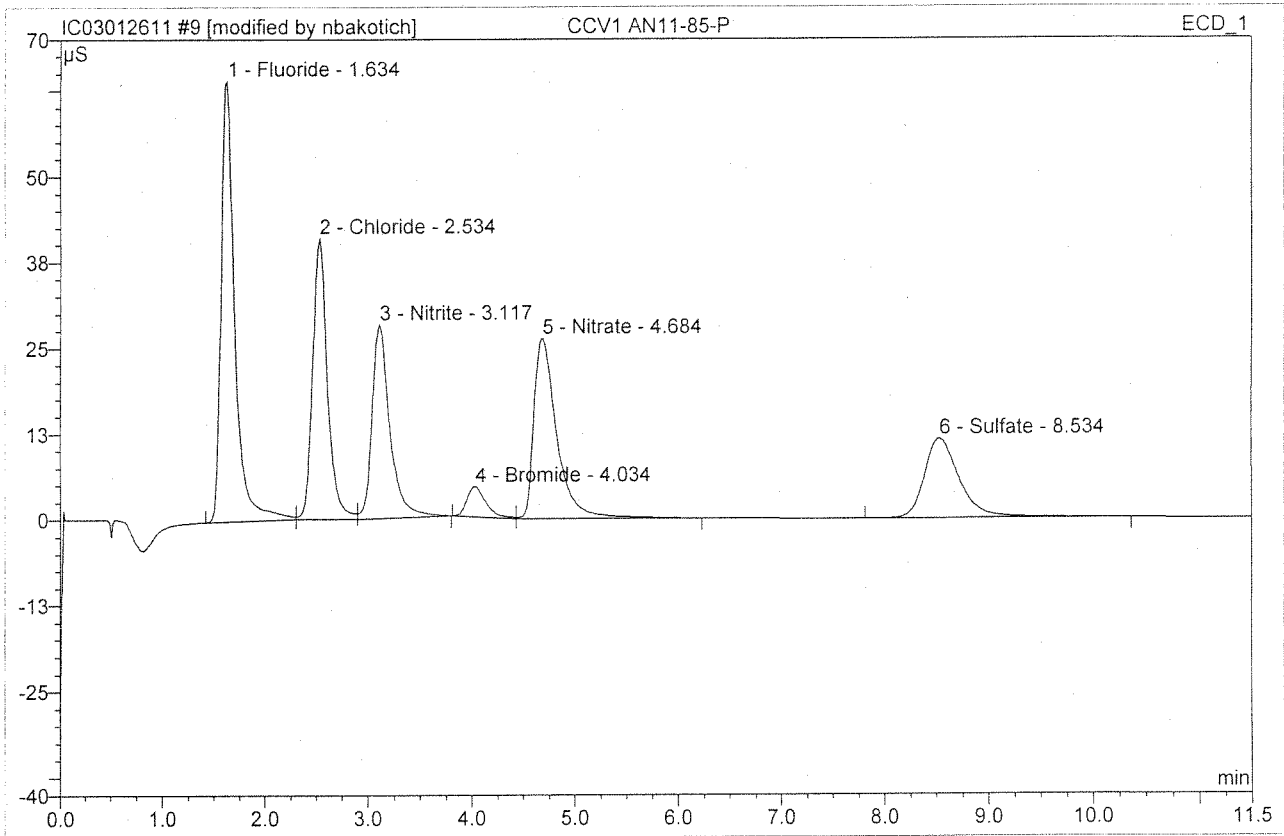


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.60	Fluoride	26.969	4.020	15.73	19.940	BMB
2	2.53	Chloride	18.282	2.994	11.72	20.349	bM
3	3.12	Nitrite	28.889	5.619	21.99	19.579	Mb
4	4.02	Bromide	4.590	0.951	3.72	19.012	bMb
5	4.68	Nitrate	28.569	7.242	28.34	20.119	bMB
6	8.52	Sulfate <i>REC=105</i>	12.203	4.726	18.49	49.817	BMB
Total:			119.502	25.553	100.00	148.815	

*spt N1
20*

OSAWATI

9 CCV1 AN11-85-P			
Sample Name:	CCV1 AN11-85-P	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 9:12	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



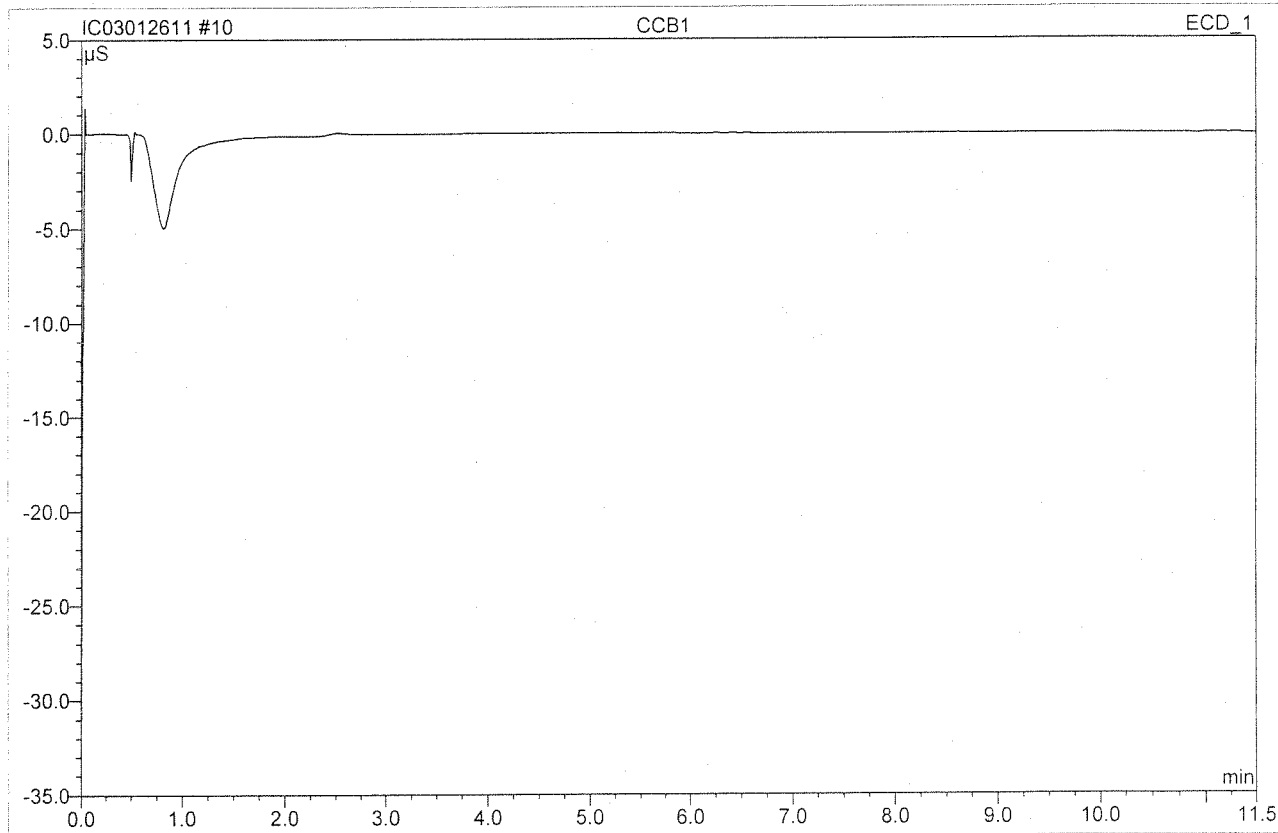
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	64.213	10.021	28.80	99 4.970	BM *
2	2.53	Chloride	40.938	6.946	19.97	94 4.721	M *
3	3.12	Nitrite	28.241	5.618	16.15	98 1.957	MB*
4	4.03	Bromide	4.430	0.949	2.73	95 1.897	BM *
5	4.68	Nitrate	26.294	6.746	19.39	94 1.874	MB*
6	8.53	Sulfate	11.576	4.510	12.96	95 4.754	BMB
Total:			175.692	34.790	100.00	20.174	

After Initials nb

01/27/2011

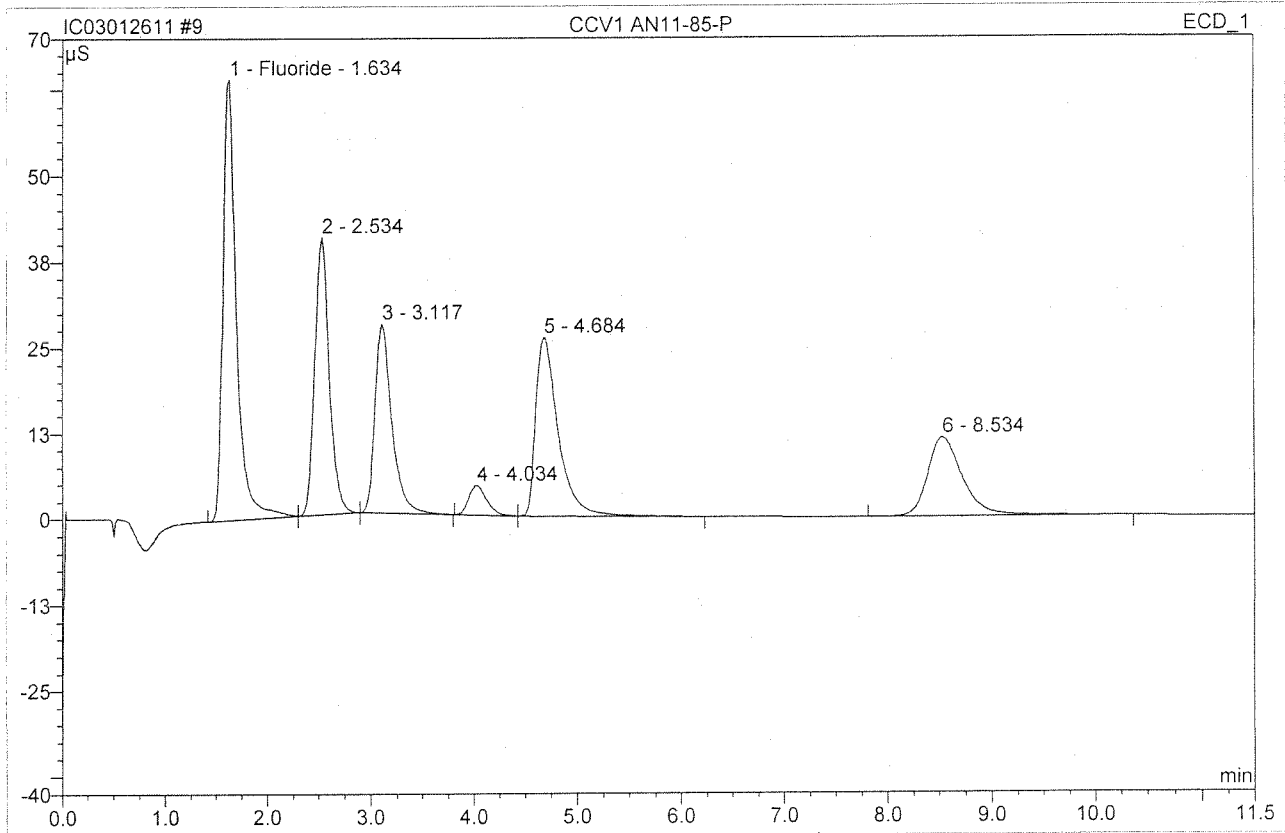
JAN 27 2011

10 CCB1			
Sample Name:	CCB1	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 9:26	Sample Weight:	1.0000
Run Time (min):	11.50	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	

9 CCV1 AN11-85-P			
Sample Name:	CCV1 AN11-85-P	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 9:12	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

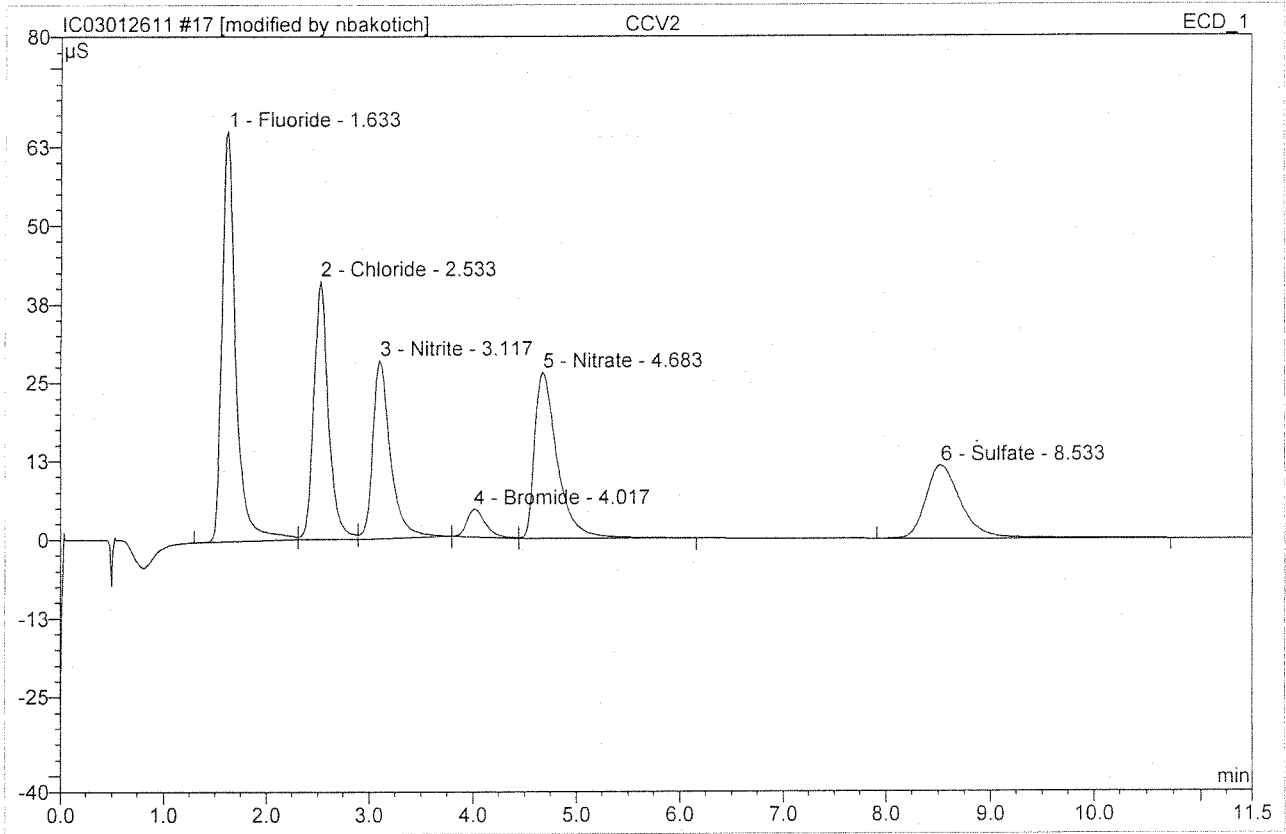


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	64.137	9.884	29.34	4.902	BM
2	2.53	n.a.	40.431	6.608	19.61	n.a.	Mb
3	3.12	n.a.	27.620	5.250	15.58	n.a.	bMB
4	4.03	n.a.	4.356	0.884	2.62	n.a.	BMb
5	4.68	n.a.	26.112	6.556	19.46	n.a.	bMB
6	8.53	n.a.	11.576	4.510	13.39	n.a.	BMB
Total:			174.232	33.693	100.00	4.902	

Before

JAN 27 2011

17 CCV2			
CCV2			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 11:04	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	65.289	10.114	28.89	100 5.017	BM *
2	2.53	Chloride	41.124	6.983	19.94	95 4.745	M *
3	3.12	Nitrite	28.446	5.614	16.03	98 1.956	Mb*
4	4.02	Bromide	4.484	0.965	2.76	97 1.930	bM *
5	4.68	Nitrate	26.502	6.768	19.33	94 1.880	MB*
6	8.53	Sulfate	11.696	4.569	13.05	96 4.817	BMB
Total:			177.541	35.013	100.00	20.344	

Alter Initials nb

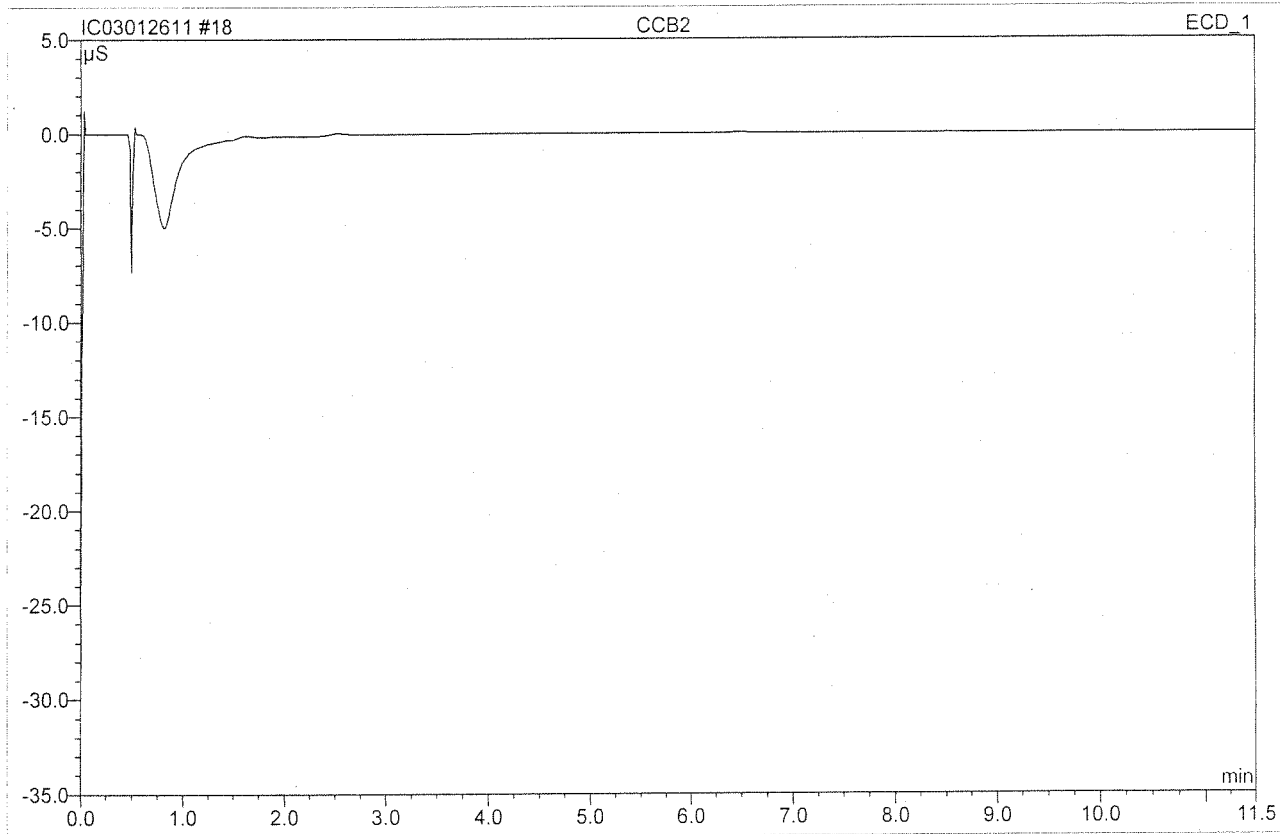
01-11-2011
JAN 27 2011

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

18 CCB2

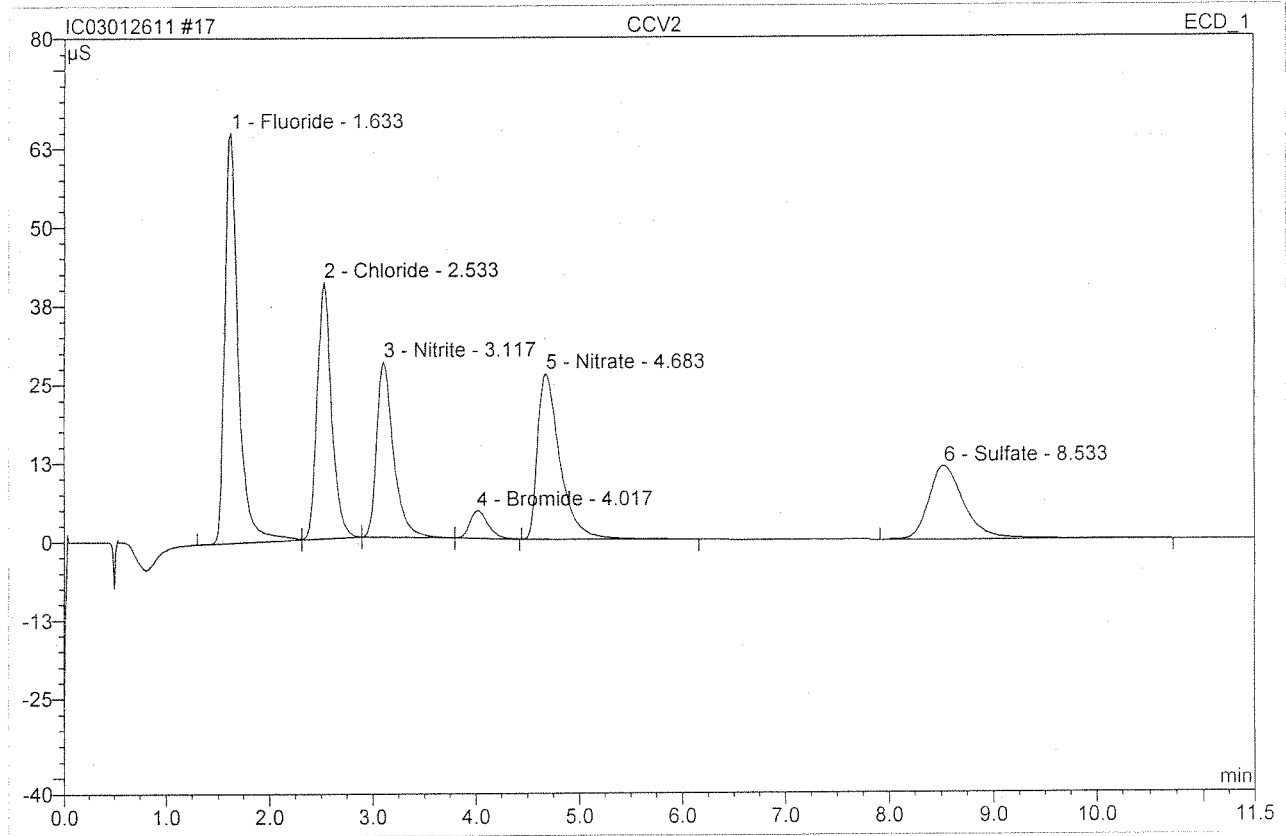
CCB2

Sample Name:	CCB2	Injection Volume:	200.0
Vial Number:	20	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 11:18	Sample Weight:	1.0000
Run Time (min):	11.50	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	

17 CCV2			
CCV2			
Sample Name:	CCV2	Injection Volume:	200.0
Vial Number:	19	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 11:04	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

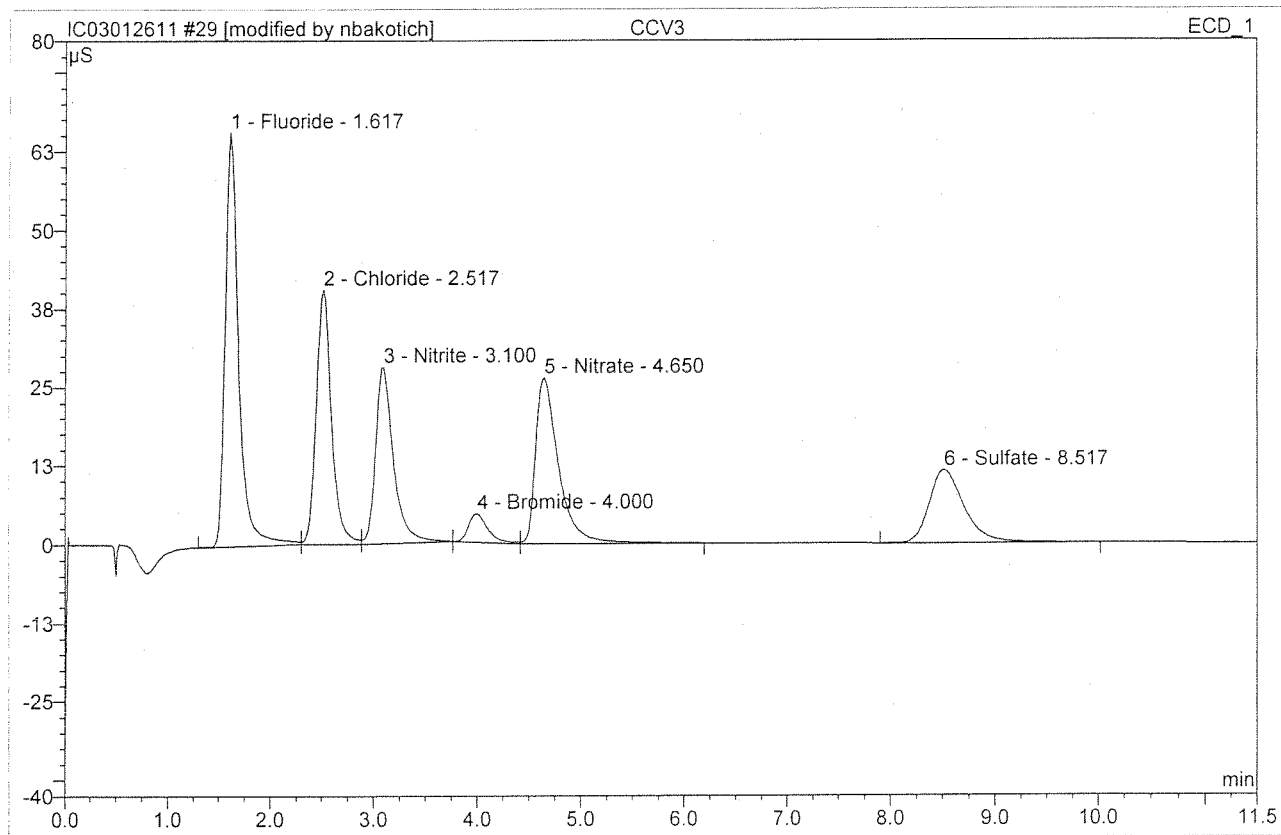


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	65.202	9.980	29.30	4.950	BM
2	2.53	Chloride	40.695	6.699	19.67	4.553	Mb
3	3.12	Nitrite	27.910	5.296	15.55	1.845	bMb
4	4.02	Bromide	4.424	0.907	2.66	1.813	bMB
5	4.68	Nitrate	26.344	6.611	19.41	1.836	BMB
6	8.53	Sulfate	11.696	4.569	13.41	4.817	BMB
Total:			176.272	34.062	100.00	19.814	

Before

JAN 27 2011

29 CCV3			
CCV3			
Sample Name:	CCV3	Injection Volume:	200.0
Vial Number:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 13:52	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



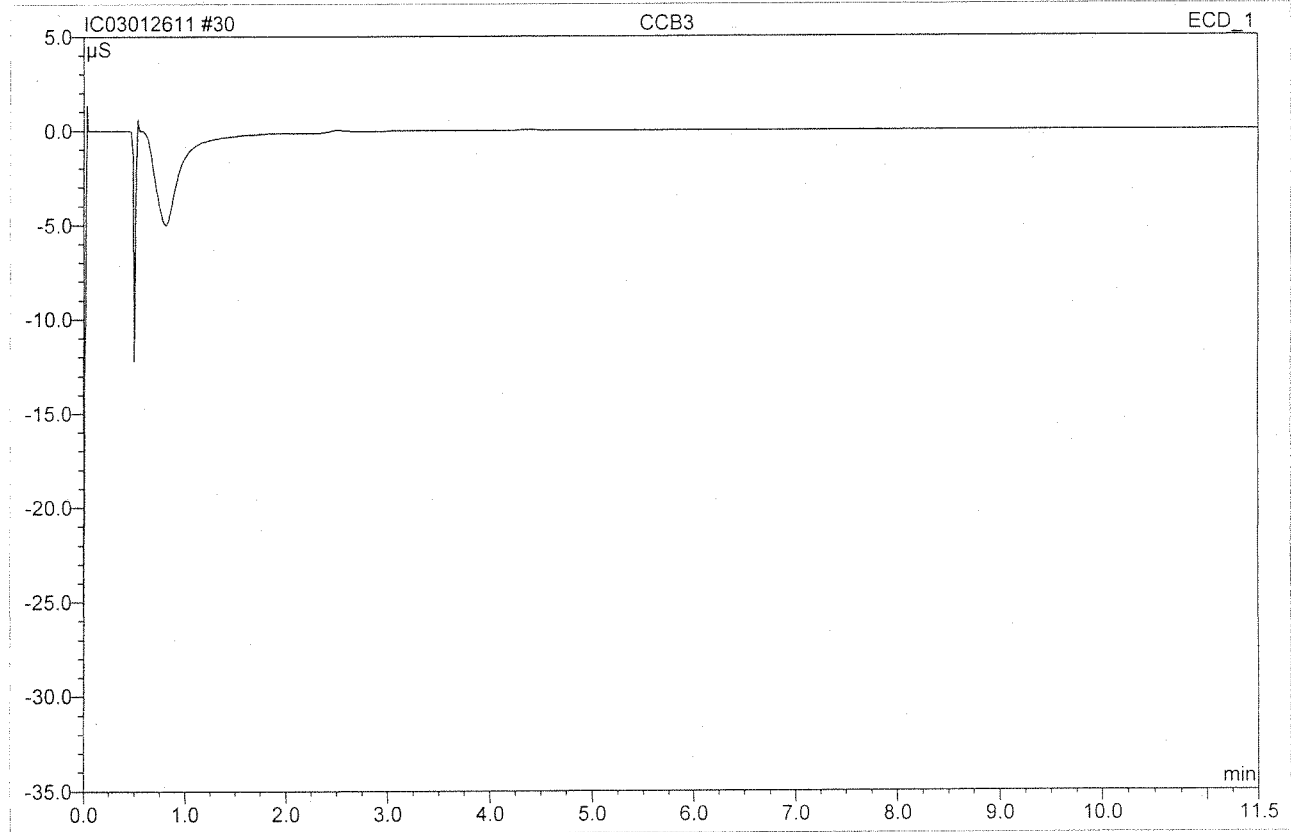
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	65.677	10.062	28.88	100 4.990	BM *
2	2.52	Chloride	40.444	6.951	19.95	94 4.724	M *
3	3.10	Nitrite	27.995	5.615	16.12	98 1.956	Mb*
4	4.00	Bromide	4.491	0.984	2.83	99 1.968	bM *
5	4.65	Nitrate	26.295	6.764	19.42	94 1.879	MB*
6	8.52	Sulfate	11.555	4.465	12.82	94 4.706	BMB
Total:			176.458	34.840	100.00	20.224	

After Initials AB

JAN 27 2011

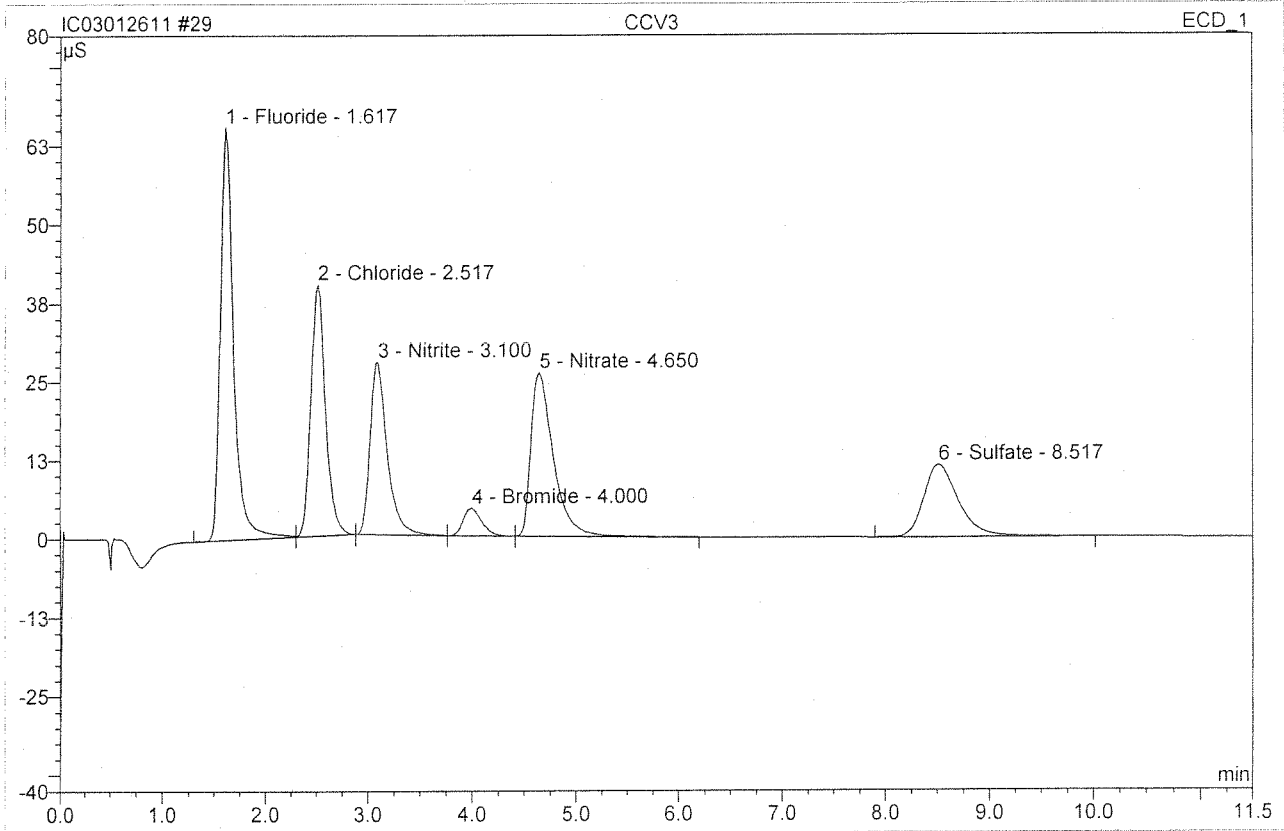
- Wrong Peak/Peak not Found
- Baseline/shoulder Incorrect
- Other

30 CCB3			
CCB3			
Sample Name:	CCB3	Injection Volume:	200.0
Vial Number:	32	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 14:06	Sample Weight:	1.0000
Run Time (min):	11.50	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:	31	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 13:52	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

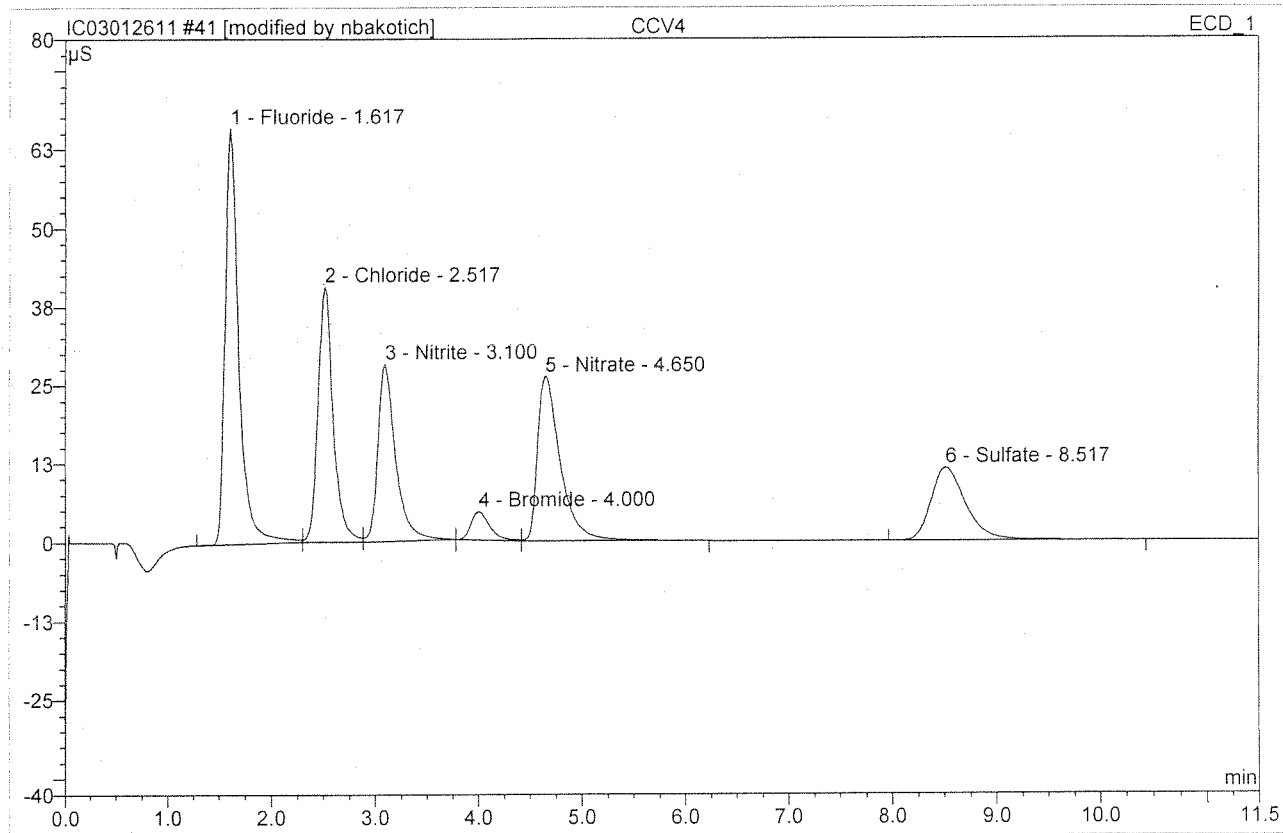


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	65.595	9.931	29.33	4.926	BM
2	2.52	Chloride	40.024	6.673	19.71	4.535	Mb
3	3.10	Nitrite	27.474	5.310	15.68	1.850	bMb
4	4.00	Bromide	4.414	0.914	2.70	1.827	bMb
5	4.65	Nitrate	26.106	6.571	19.40	1.825	bMB
6	8.52	Sulfate	11.555	4.465	13.18	4.706	BMB
Total:			175.168	33.864	100.00	19.669	

Before

JAN 27 2011

41 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 16:41	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	66.167	10.094	28.80	100 5.006	BM *
2	2.52	Chloride	40.733	7.042	20.09	96 4.786	M *
3	3.10	Nitrite	28.232	5.644	16.10	99 1.966	Mb*
4	4.00	Bromide	4.513	0.977	2.79	98 1.953	bM *
5	4.65	Nitrate	26.252	6.757	19.28	94 1.877	MB*
6	8.52	Sulfate	11.650	4.539	12.95	96 4.784	BMB
Total:			177.547	35.053	100.00	20.373	

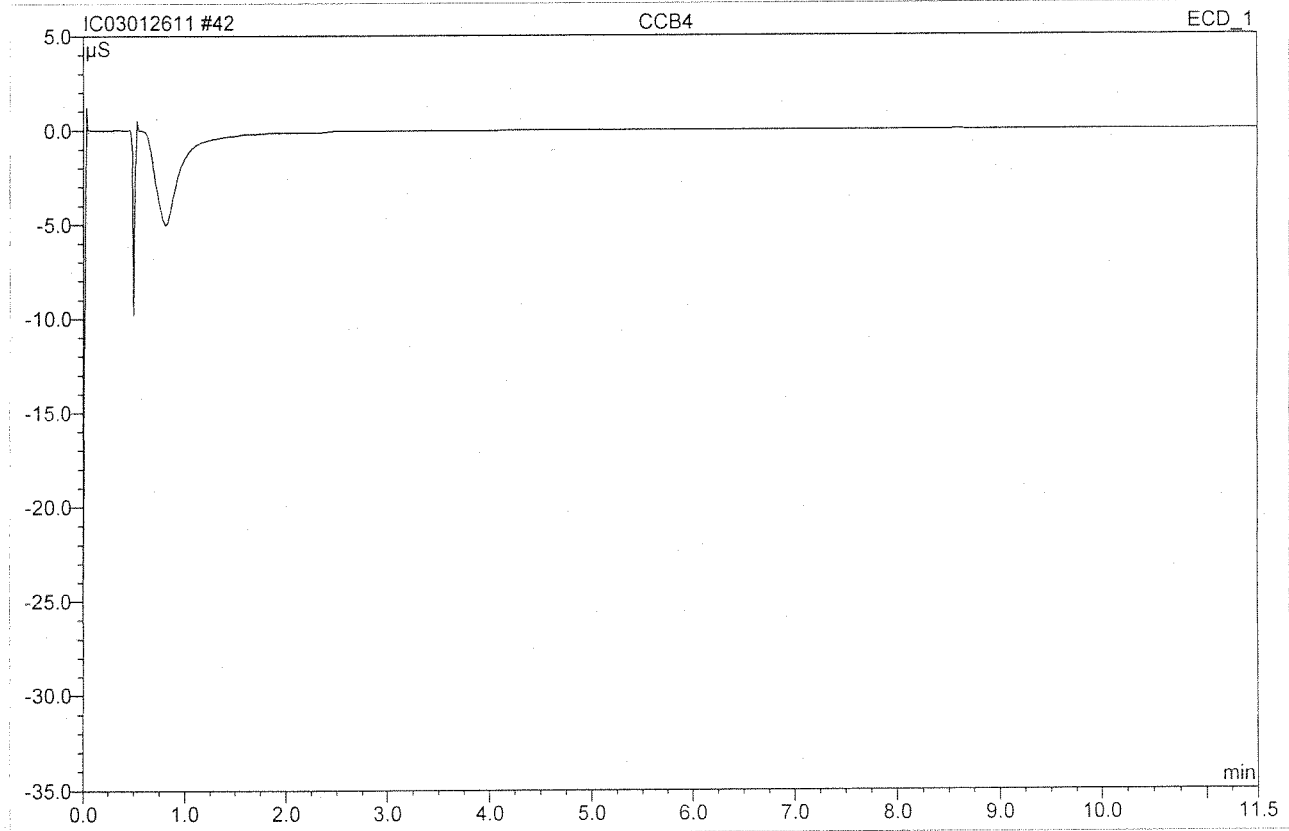
After Initials nb

JAN 27 2011
JAN 27 2011

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

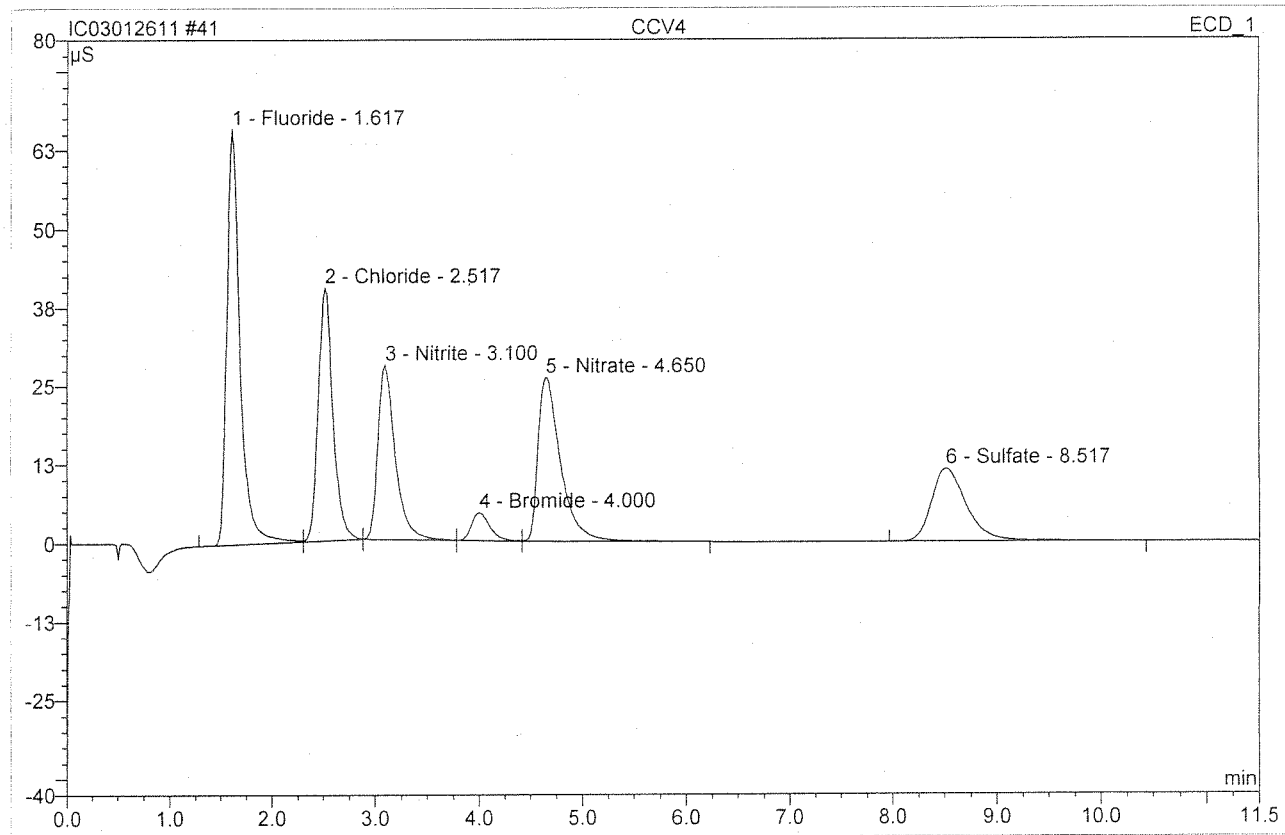
64113714

42 CCB4			
CCB4			
Sample Name:	CCB4	Injection Volume:	200.0
Vial Number:	44	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 16:55	Sample Weight:	1.0000
Run Time (min):	11.50	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	

41 CCV4			
CCV4			
Sample Name:	CCV4	Injection Volume:	200.0
Vial Number:	43	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 16:41	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

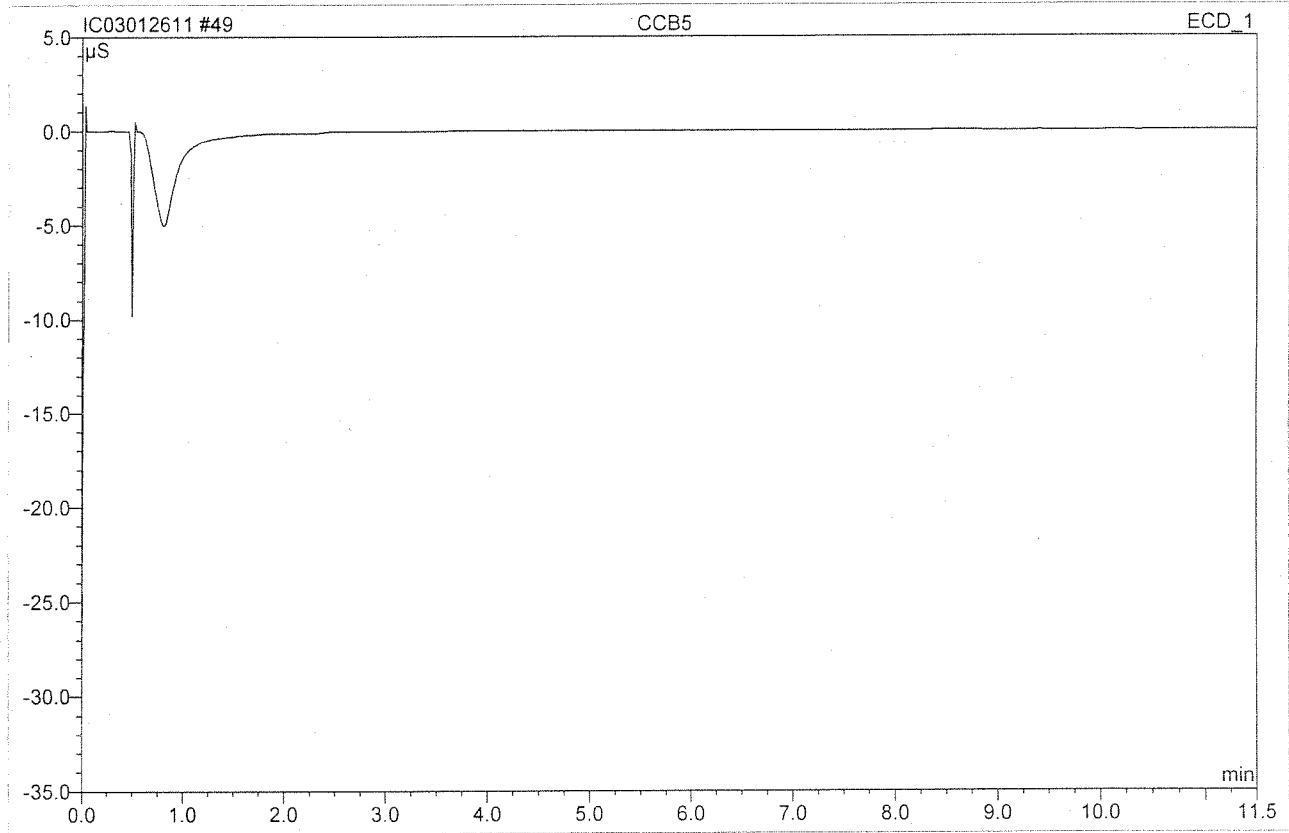


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	66.077	9.955	29.22	4.938	BM
2	2.52	Chloride	40.304	6.760	19.84	4.594	Mb
3	3.10	Nitrite	27.706	5.333	15.65	1.858	bMb
4	4.00	Bromide	4.444	0.913	2.68	1.826	bMb
5	4.65	Nitrate	26.076	6.574	19.29	1.826	bMB
6	8.52	Sulfate	11.650	4.539	13.32	4.784	BMB
Total:			176.258	34.074	100.00	19.826	

Before

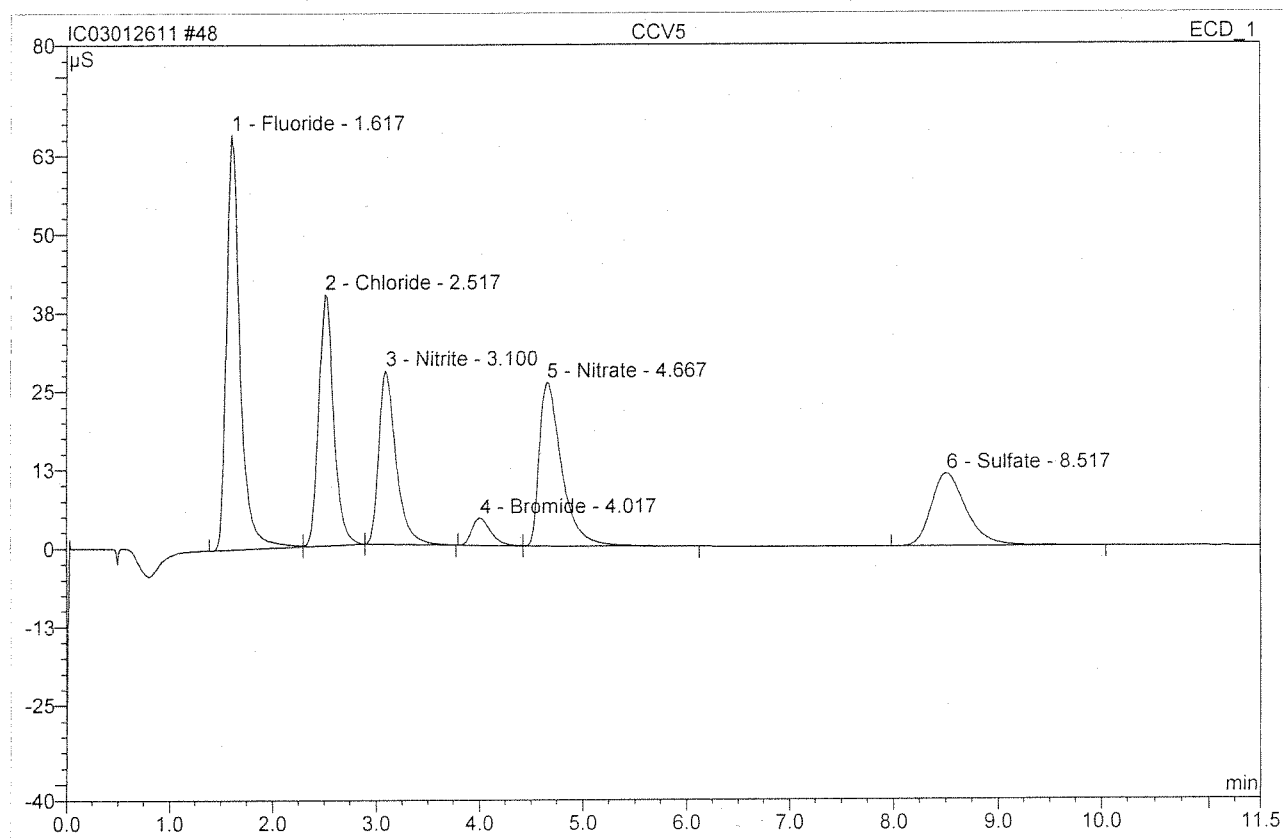
JAN 27 2011

49 CCB5			
CCB5			
Sample Name:	CCB5	Injection Volume:	200.0
Vial Number:	51	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 18:32	Sample Weight:	1.0000
Run Time (min):	11.50	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	

48 CCV5			
CCV5			
Sample Name:	CCV5	Injection Volume:	200.0
Vial Number:	50	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 18:18	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

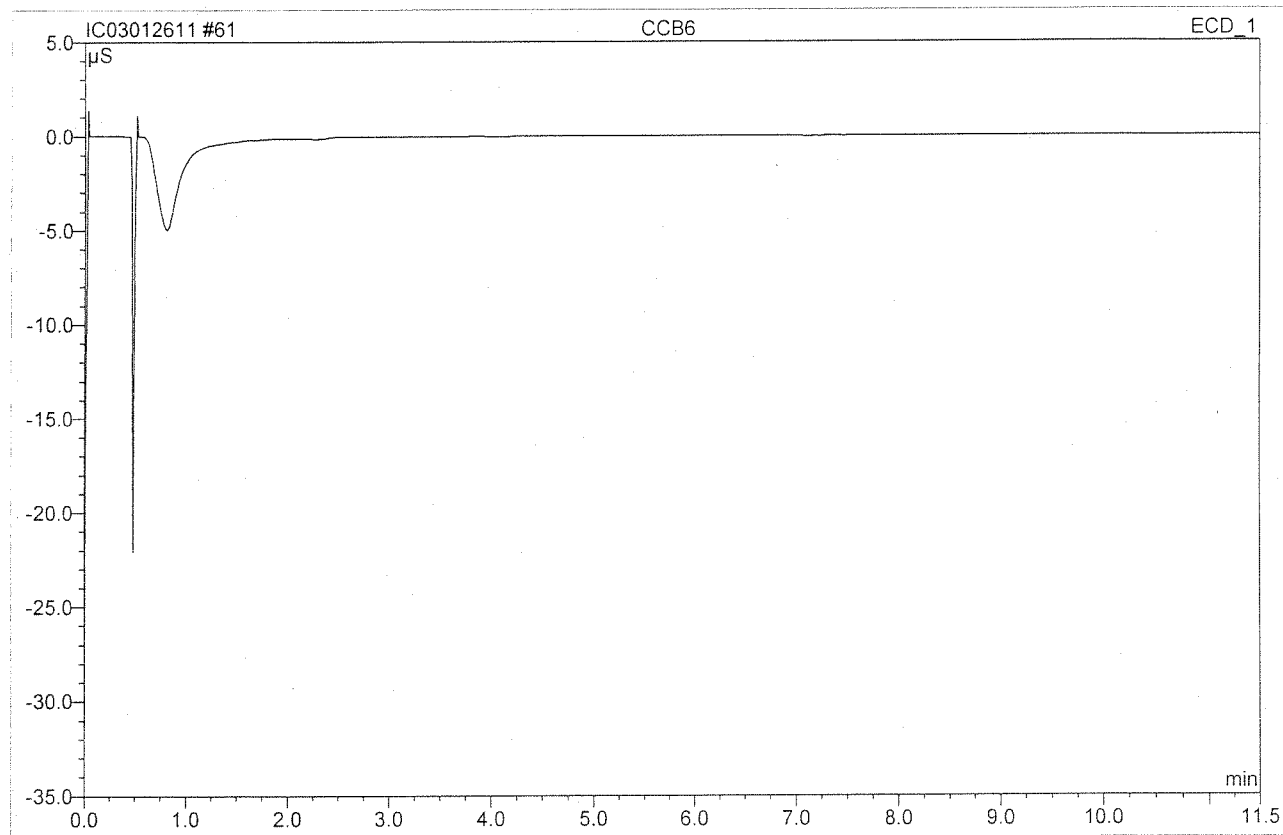


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	66.071	10.012	29.43	4.966	BM
2	2.52	Chloride	39.929	6.728	19.77	4.572	Mb
3	3.10	Nitrite	27.595	5.339	15.69	1.860	bMB
4	4.02	Bromide	4.425	0.924	2.71	1.846	BMb
5	4.67	Nitrate	26.060	6.522	19.17	1.812	bMB
6	8.52	Sulfate	11.623	4.502	13.23	4.745	BMB
Total:			175.704	34.025	100.00	19.801	

Before

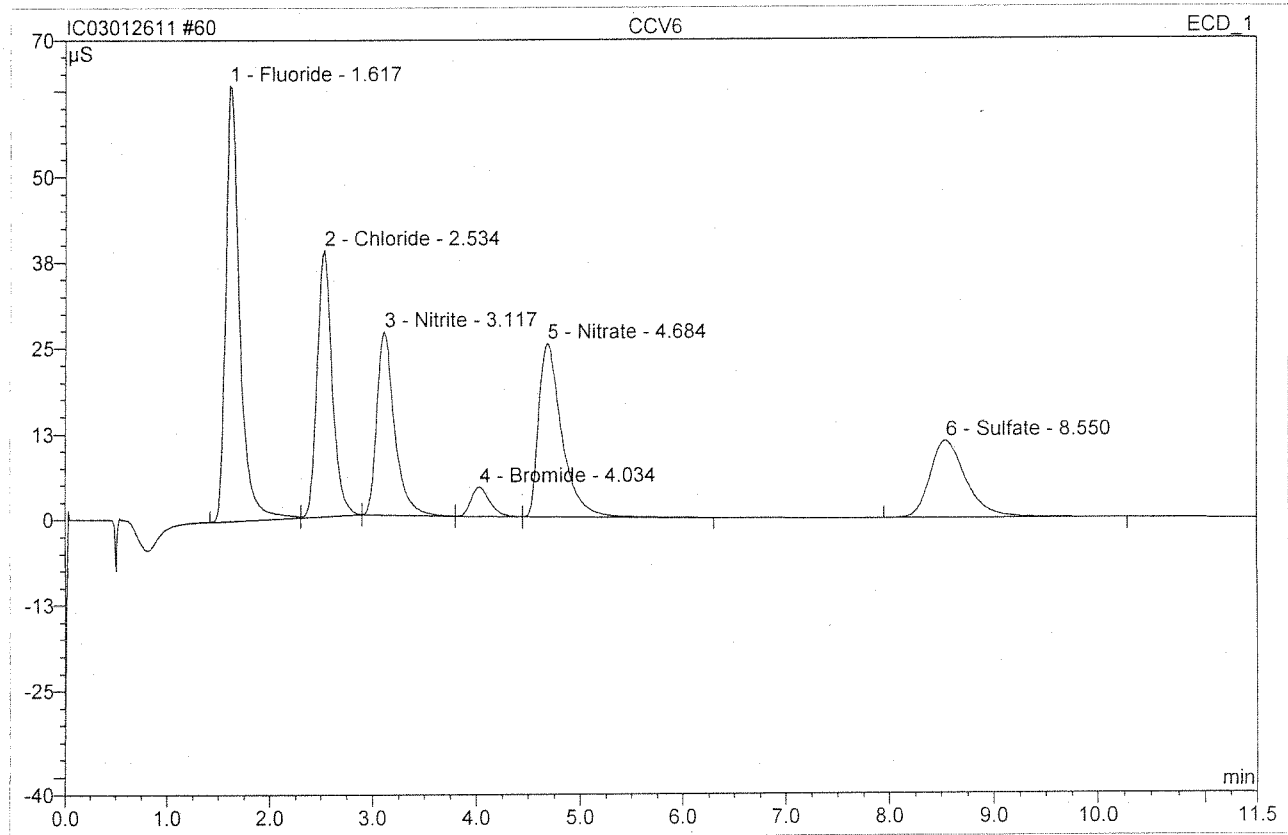
JAN 27 2011

61 CCB6			
CCB6			
Sample Name:	CCB6	Injection Volume:	200.0
Vial Number:	56	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 21:20	Sample Weight:	1.0000
Run Time (min):	11.50	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	

60 CCV6			
CCV6			
Sample Name:	CCV6	Injection Volume:	200.0
Vial Number:	55	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 21:06	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

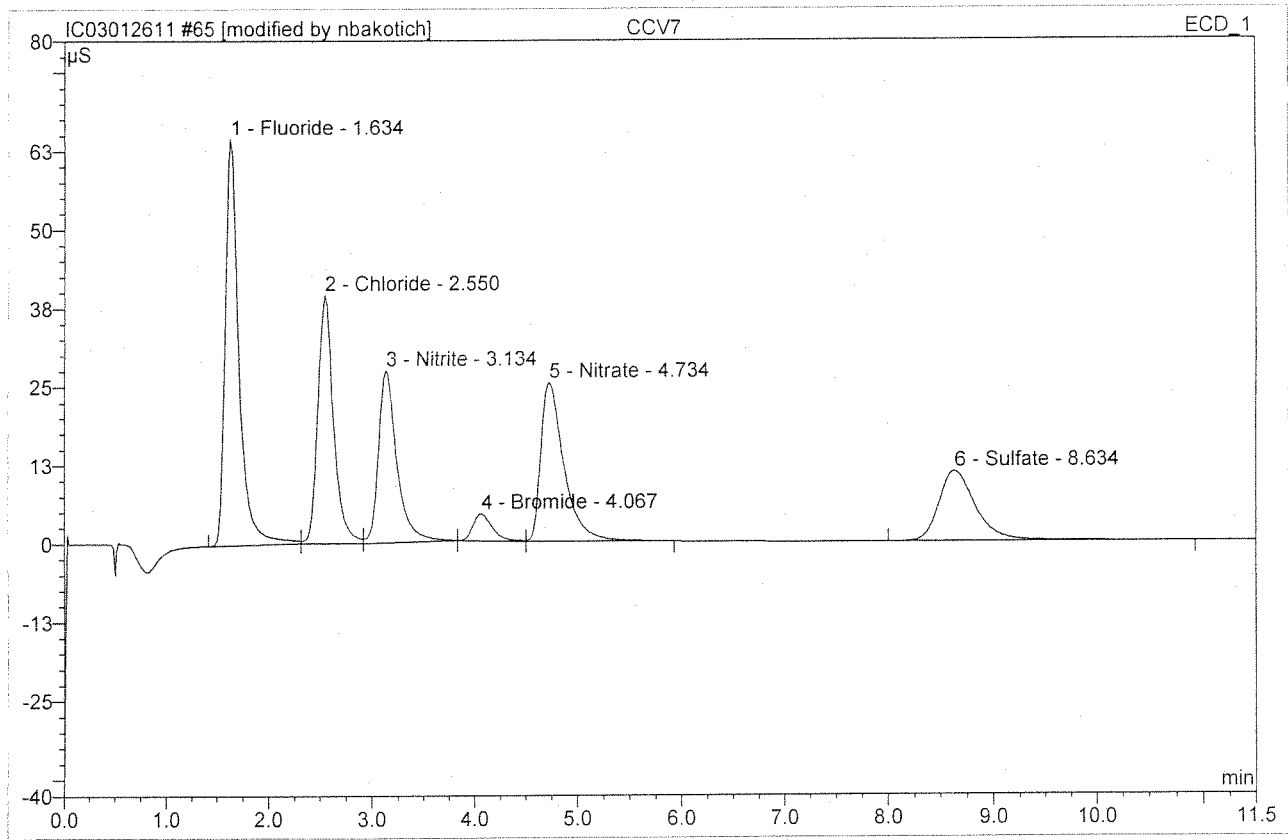


No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.62	Fluoride	63.480	9.982	29.41	4.951	BM
2	2.53	Chloride	38.855	6.676	19.67	4.537	Mb
3	3.12	Nitrite	26.713	5.314	15.66	1.851	bMb
4	4.03	Bromide	4.271	0.907	2.67	1.814	bMb
5	4.68	Nitrate	25.279	6.557	19.32	1.822	bMB
6	8.55	Sulfate	11.268	4.506	13.28	4.750	BMB
Total:			169.866	33.943	100.00	19.725	

Before

JAN 27 2011

65 CCV7			
CCV7			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	60	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 22:16	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



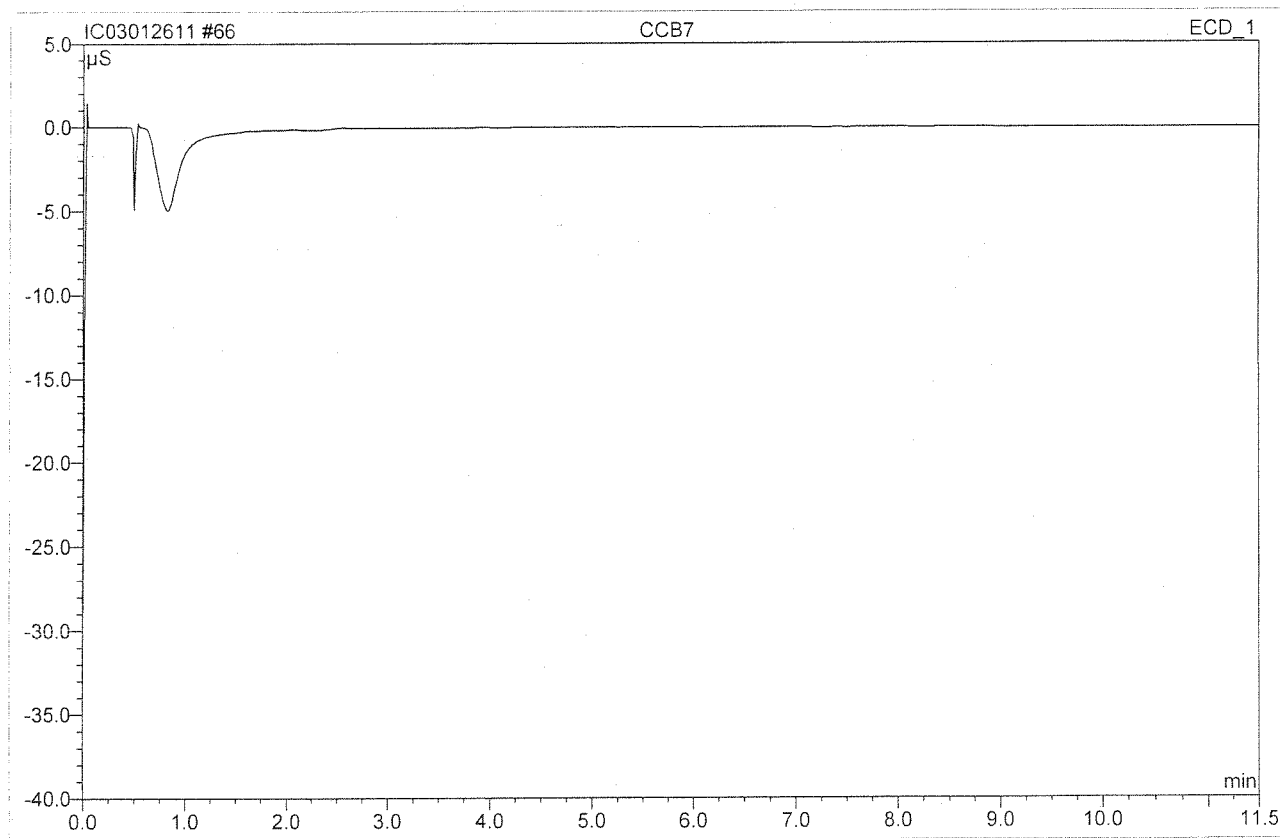
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	64.660	10.142	28.97	101 5.030	BM *
2	2.55	Chloride	39.571	7.049	20.14	96 4.790	M *
3	3.13	Nitrite	27.373	5.662	16.18	99 1.973	Mb*
4	4.07	Bromide	4.331	0.969	2.77	97 1.937	bM *
5	4.73	Nitrate	25.388	6.619	18.91	92 1.839	MB*
6	8.63	Sulfate	11.233	4.562	13.03	96 4.809	BMB
Total:			172.556	35.003	100.00	20.378	

nb

JAN 27 2011

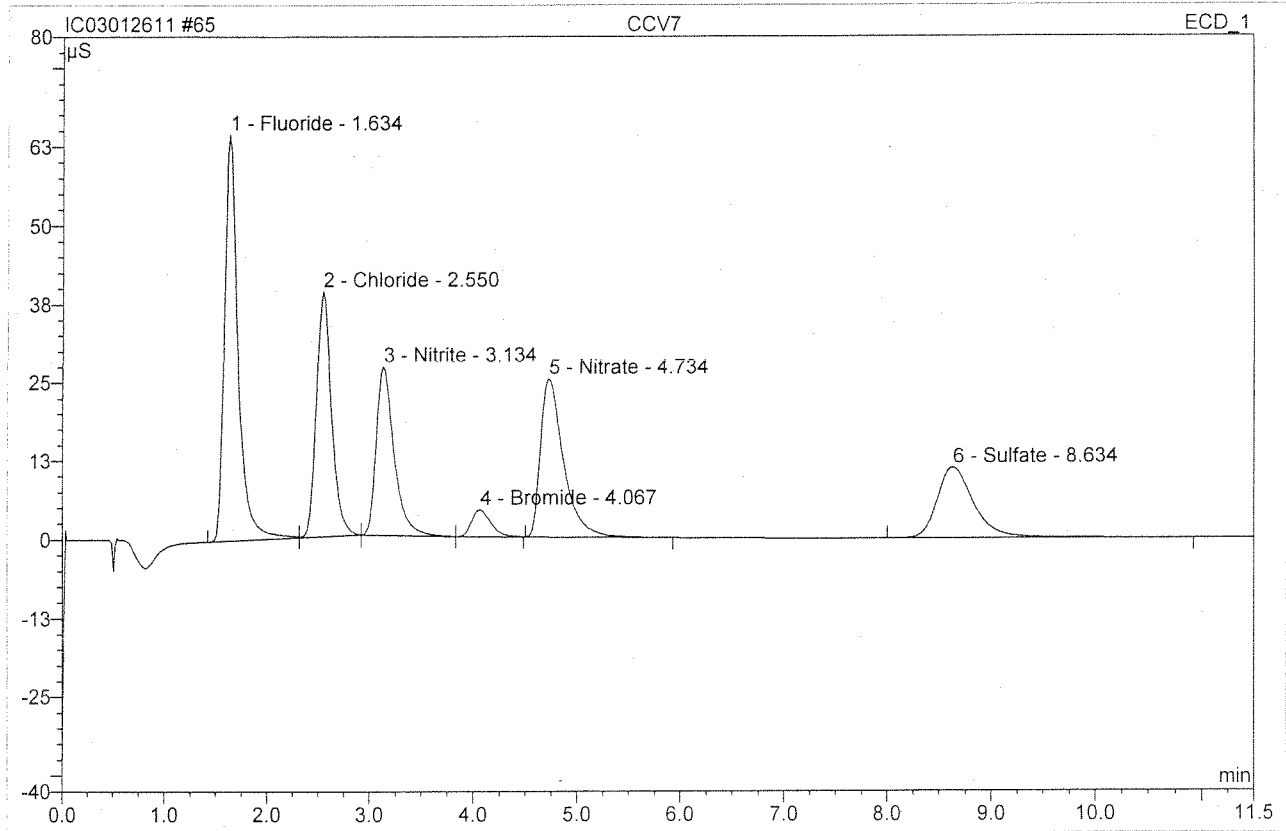
641127111

66 CCB7			
CCB7			
Sample Name:	CCB7	Injection Volume:	200.0
Vial Number:	61	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 22:30	Sample Weight:	1.0000
Run Time (min):	11.50	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	

65 CCV7			
CCV7			
Sample Name:	CCV7	Injection Volume:	200.0
Vial Number:	60	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 22:16	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

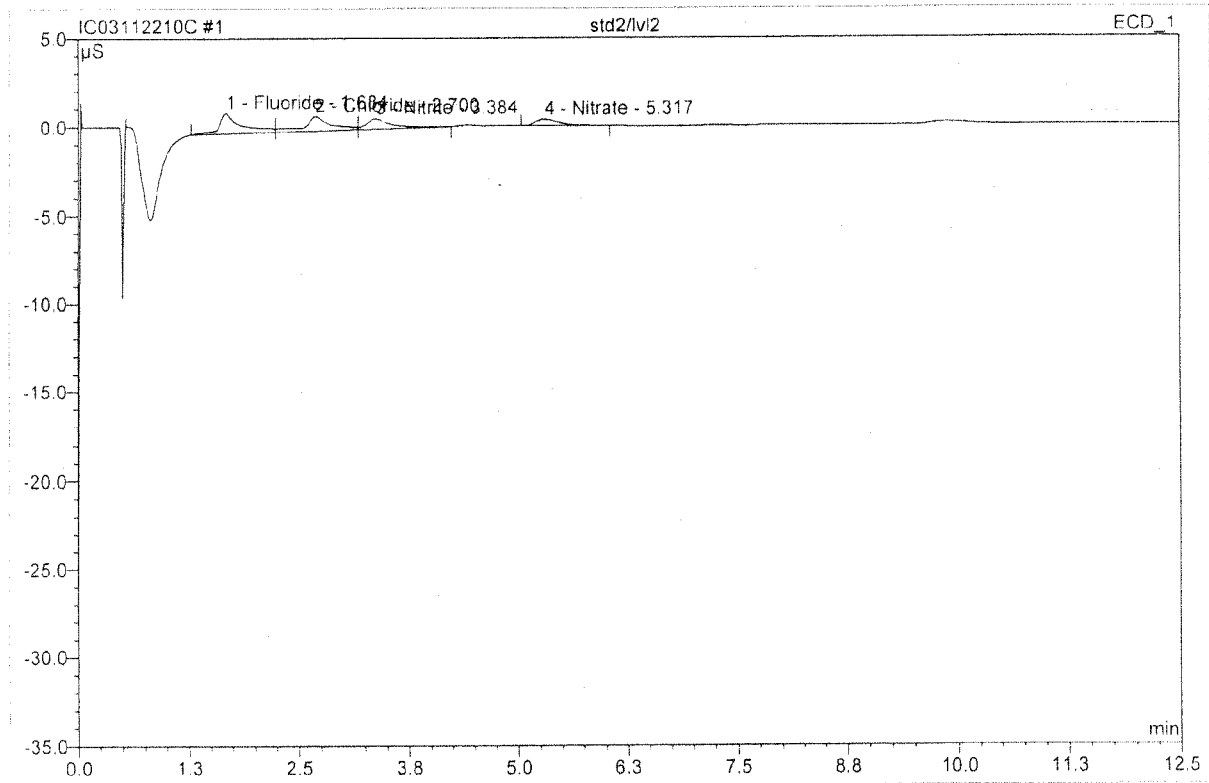


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.63	Fluoride	64.590	10.012	29.42	4.966	BM
2	2.55	Chloride	39.111	6.743	19.81	4.582	Mb
3	3.13	Nitrite	26.815	5.326	15.65	1.856	bMb
4	4.07	Bromide	4.264	0.905	2.66	1.810	bMB
5	4.73	Nitrate	25.228	6.482	19.05	1.801	BMB
6	8.63	Sulfate	11.233	4.562	13.41	4.809	BMB
Total:			171.240	34.031	100.00	19.824	

Before

JAN 27 2011

1 std2/lv12			
Sample Name:	std2/lv12	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 14:11	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

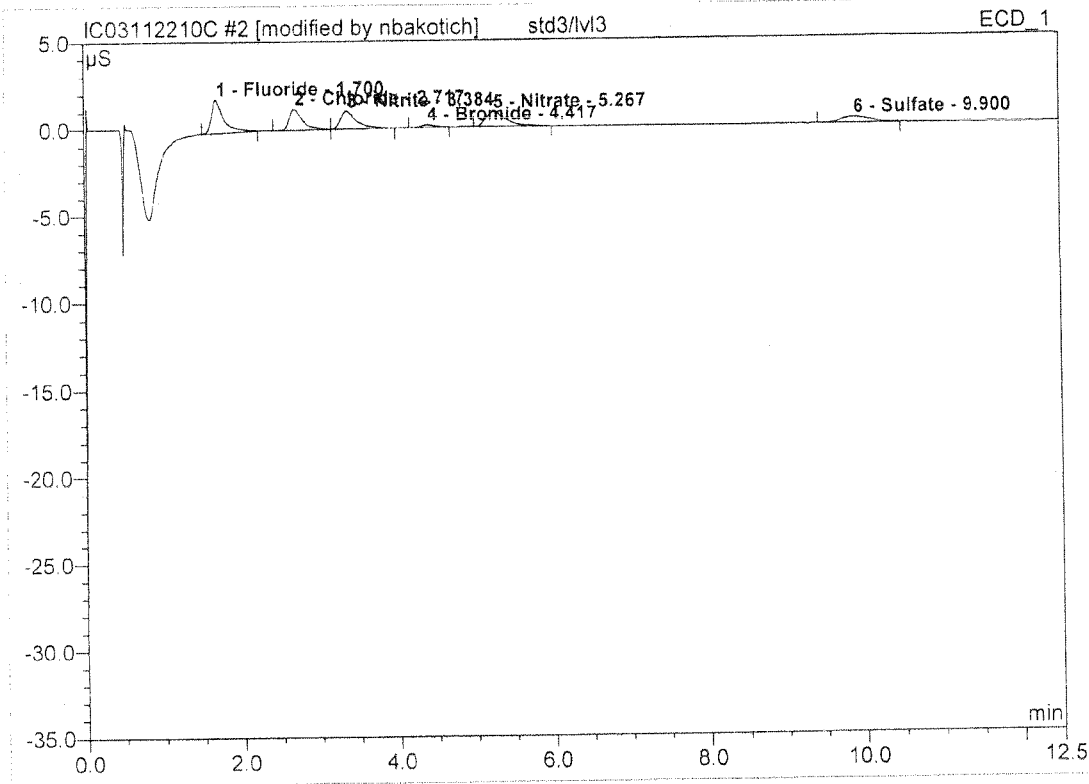


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.68	Fluoride	1.128	0.329	35.50	0.163	BM
2	2.70	Chloride	0.822	0.282	30.45	0.192	M
3	3.38	Nitrite	0.597	0.190	20.52	0.066	MB
4	5.32	Nitrate	0.399	0.125	13.53	0.035	BMB
Total:			2.945	0.926	100.00	0.456	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
2 std3/lvl3			
Sample Name:	std3/lvl3	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 14:26	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03

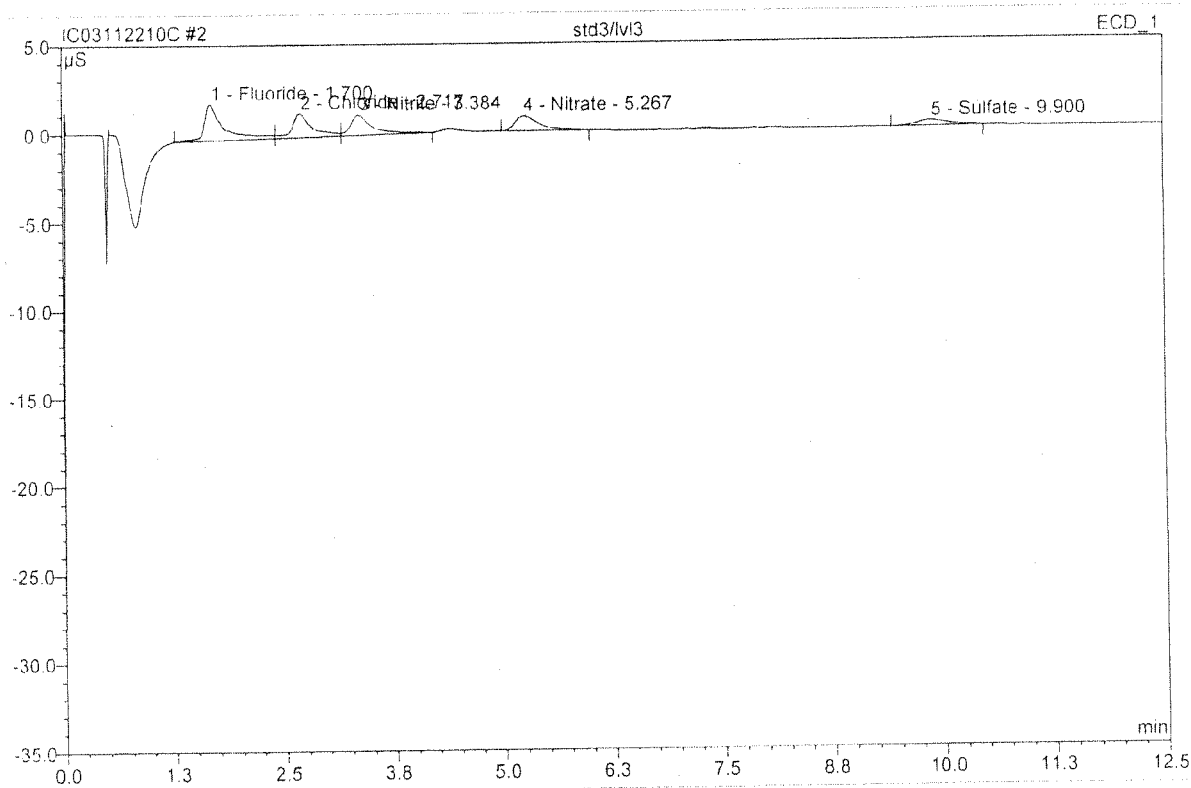


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	1.893	0.360	27.52	0.178	BMB*
2	2.72	Chloride	1.204	0.252	19.27	0.171	BM *
3	3.38	Nitrite	1.048	0.257	19.71	0.090	MB*
4	4.42	Bromide	0.160	0.035	2.71	0.071	BMB*
5	5.27	Nitrate	0.847	0.262	20.09	0.073	BMB
6	9.90	Sulfate	0.325	0.140	10.70	0.147	BMB
Total:			1.77	1.306	100.00	0.730	

Initials JS

NOV 22 2010

2 std3/lv13			
Sample Name:	std3/lv13	Injection Volume:	200.0
Vial Number:	1	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 14:26	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

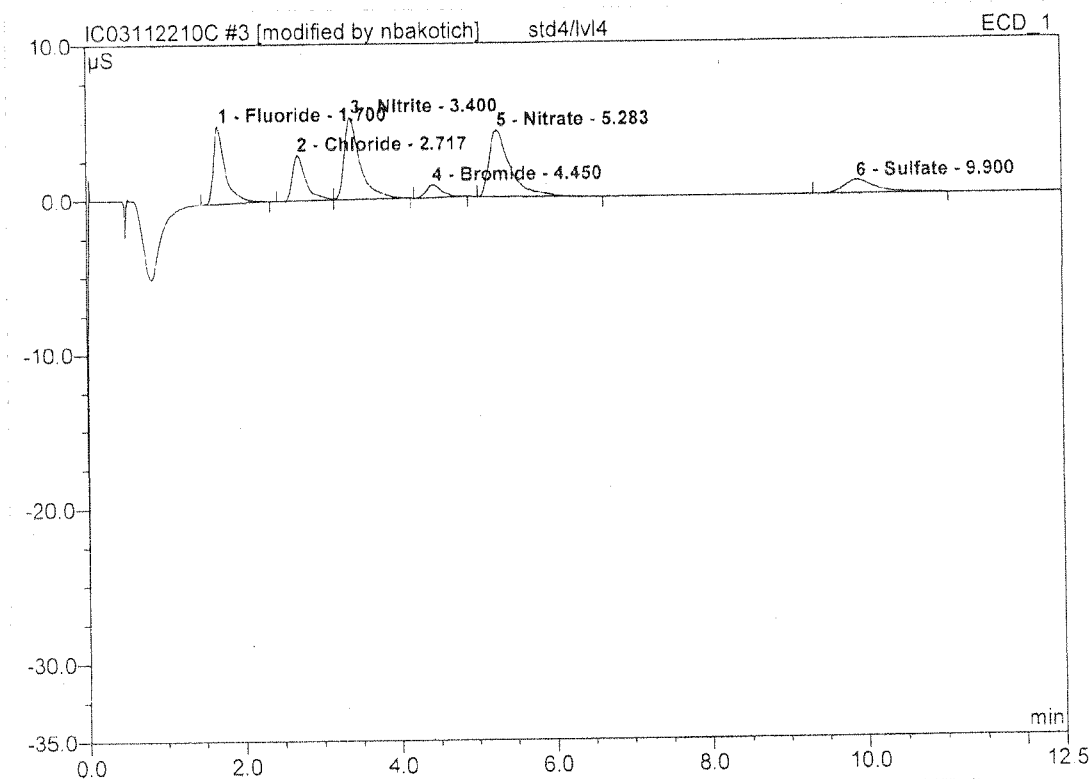


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	2.043	0.538	33.21	0.267	BM
2	2.72	Chloride	1.351	0.356	21.99	0.242	M
3	3.38	Nitrite	1.140	0.324	19.97	0.113	MB
4	5.27	Nitrate	0.847	0.262	16.20	0.073	BMB
5	9.90	Sulfate	0.325	0.140	8.63	0.147	BMB
Total:			5.707	1.620	100.00	0.842	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
3 std4/lvl4			
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 14:41	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



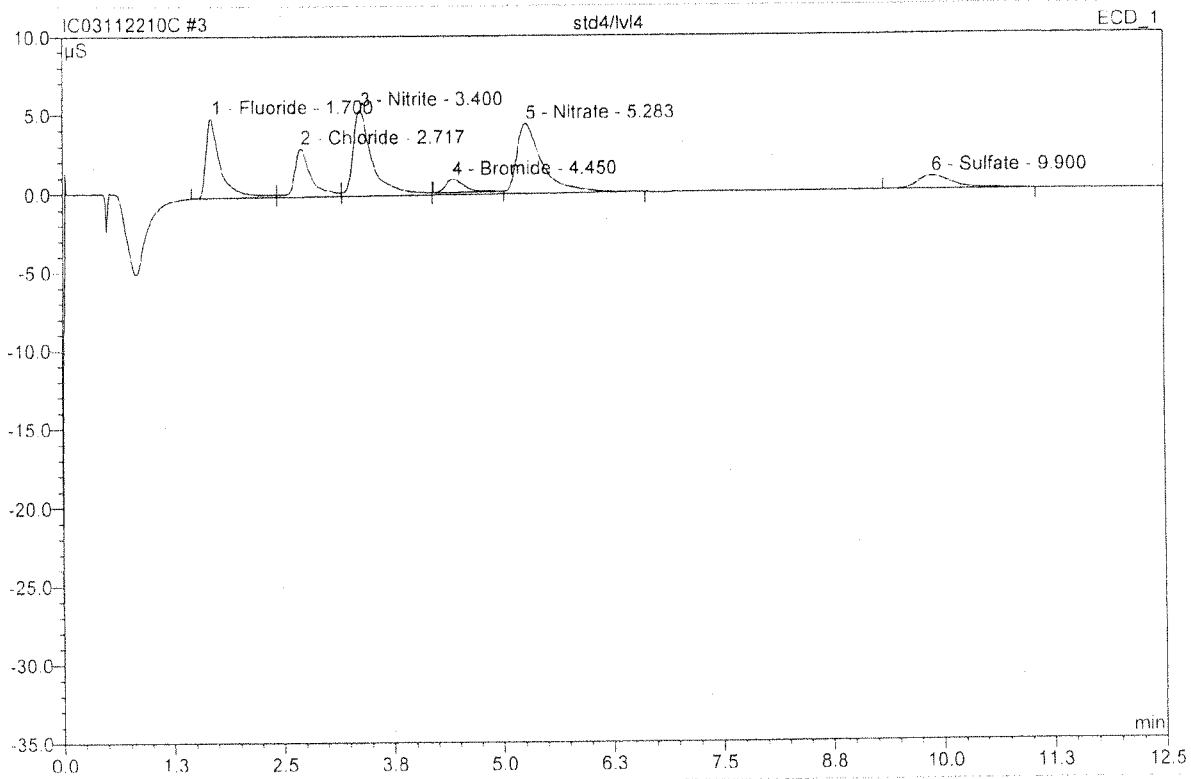
No.	Ret. Time min	Peak Name	Height µS	Area µS*min	Rel. Area %	Amount	Type
1	1.70	Fluoride	5.003	0.894	18.81	0.443	BMB*
2	2.72	Chloride	2.933	0.584	12.30	0.397	BM *
3	3.40	Nitrite	5.309	1.275	26.83	0.444	MB*
4	4.45	Bromide	0.826	0.194	4.08	0.388	BMB*
5	5.28	Nitrate	4.320	1.392	29.29	0.387	BMB*
6	9.90	Sulfate	0.849	0.413	8.69	0.435	BMB
Total:			19.240	4.752	100.00	2.495	

After
Initials AB

NOV 22 2010

511113/11

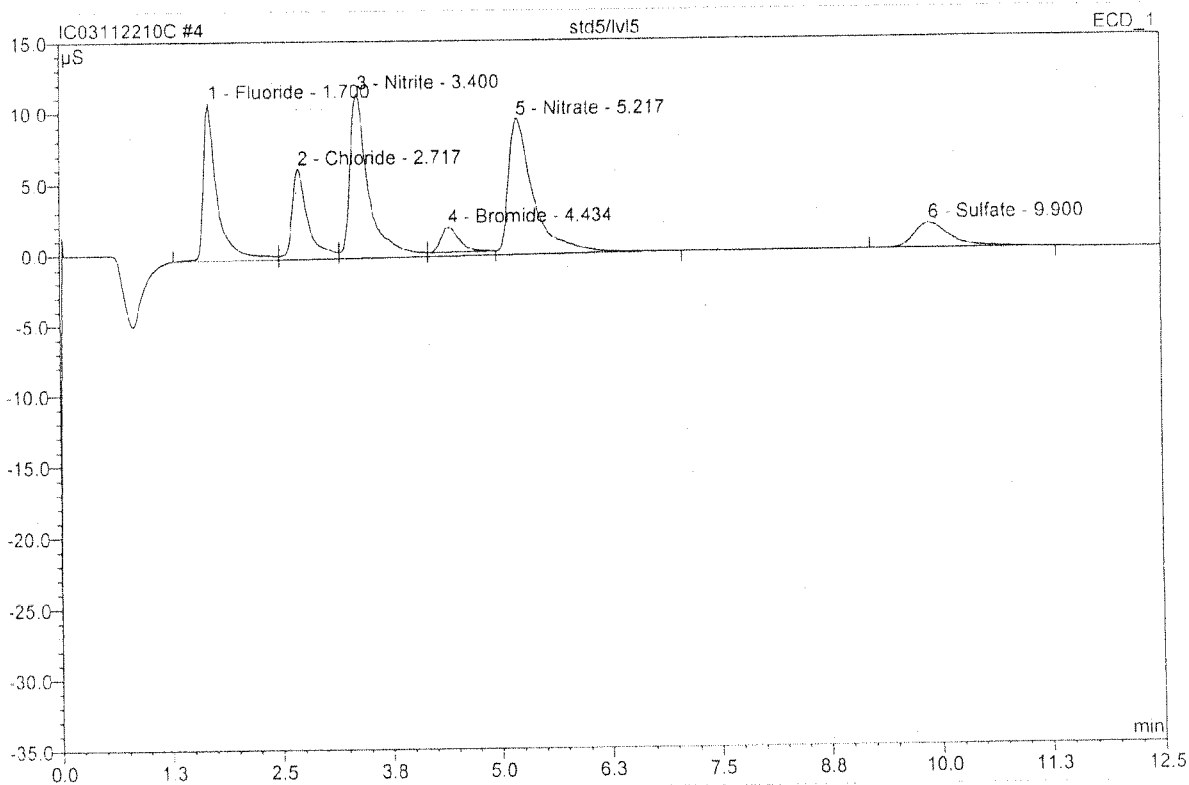
3 std4/lvl4			
Sample Name:	std4/lvl4	Injection Volume:	200.0
Vial Number:	2	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 14:41	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	5.041	0.974	18.14	0.483	BM
2	2.72	Chloride	3.071	0.687	12.79	0.467	M
3	3.40	Nitrite	5.457	1.432	26.65	0.498	M
4	4.45	Bromide	0.842	0.213	3.97	0.426	Ru
5	5.28	Nitrate	4.459	1.653	30.77	0.459	MB
6	9.90	Sulfate	0.849	0.413	7.69	0.435	BMB
Total:			19.719	5.371	100.00	2.768	

NOV 22 2010

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 14:56	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

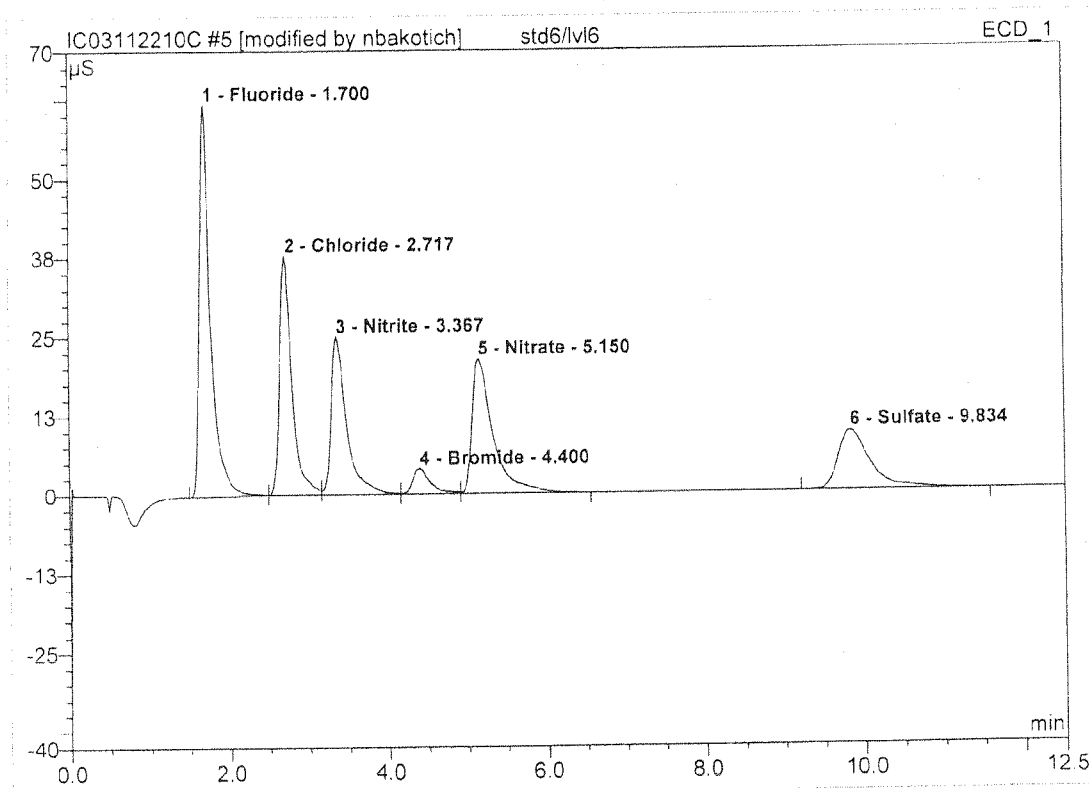


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	11.106	2.068	18.66	1.025	BM
2	2.72	Chloride	6.341	1.362	12.28	0.925	M
3	3.40	Nitrite	11.559	2.921	26.35	1.014	M
4	4.43	Bromide	1.778	0.433	3.90	0.867	Ru
5	5.22	Nitrate	9.558	3.435	30.98	0.950	MB
6	9.90	Sulfate	1.753	0.868	7.83	0.915	BMB
Total:			42.095	11.087	100.00	5.696	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
5 std6/lvl6			
Sample Name:	std6/lvl6	Injection Volume:	200.0
Vial Number:	4	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 15:11	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	61.919	10.194	29.36	5.056	BMb*
2	2.72	Chloride	37.693	6.806	19.60	4.625	bM *
3	3.37	Nitrite	24.857	5.657	16.29	1.971	M *
4	4.40	Bromide	3.966	1.023	2.95	2.045	M *
5	5.15	Nitrate	21.252	6.574	18.93	1.826	MB*
6	9.83	Sulfate	9.417	4.472	12.88	4.714	BMB
Total:		After	159.103	34.725	100.00	20.237	

Initials JS

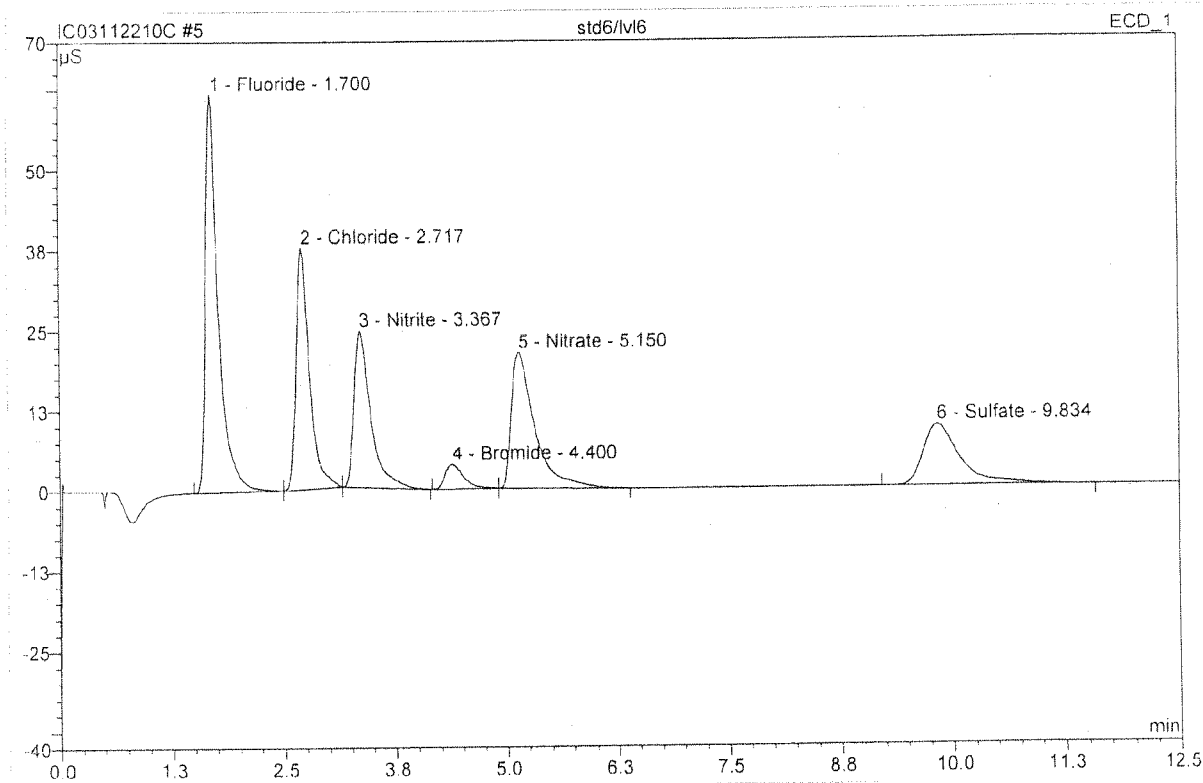
NOV 22 2010

CASLIMS_300-0/Integration Wrong Peak/Peak not Found
 Baseline/shoulder incorrect
 Other _____

54103110

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

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 15:11	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

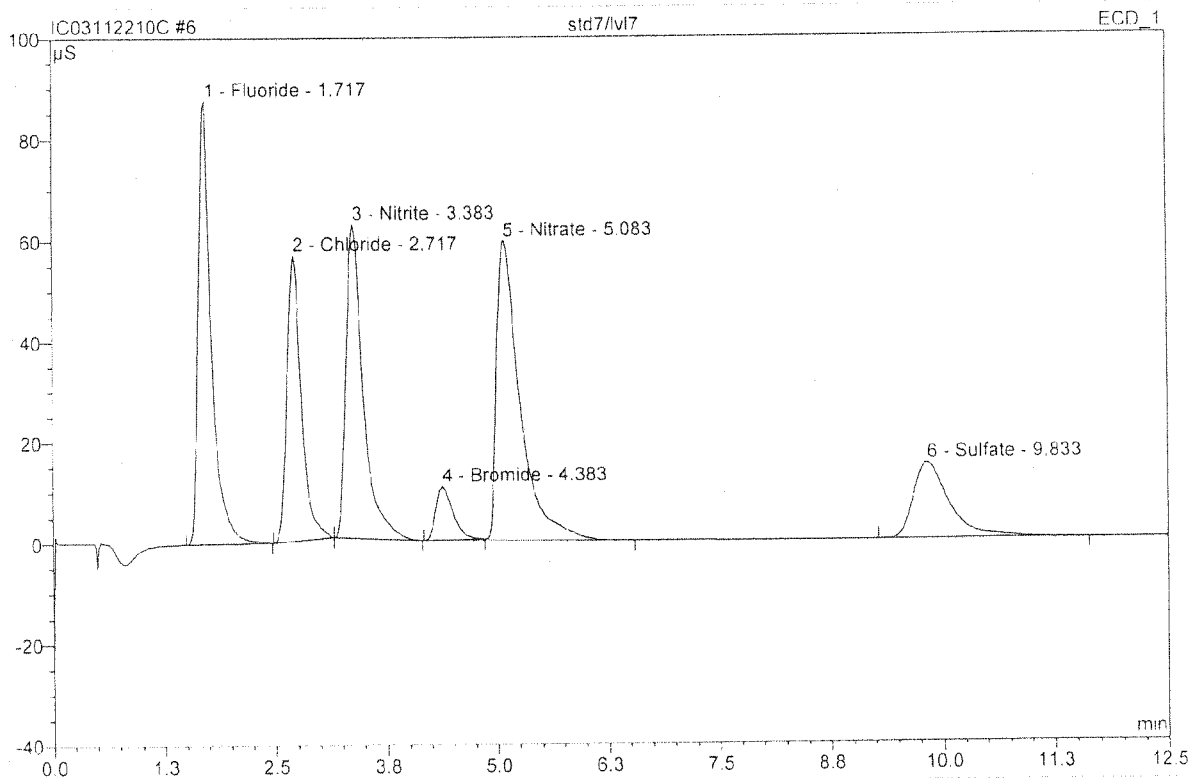


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	61.919	10.194	30.08	5.056	BMB
2	2.72	Chloride	37.503	6.612	19.51	4.510	bMb
3	3.37	Nitrite	24.368	5.310	15.67	1.865	bMB
4	4.40	Bromide	3.823	0.902	2.66	1.833	BMb
5	5.15	Nitrate	21.074	6.399	18.88	1.783	bMB
6	9.83	Sulfate	9.417	4.472	13.19	4.714	BMB
Total:			158.103	33.888	100.00	19.761	

Before

NOV 2 2010

6 std7/lv17			
Sample Name:	std7/lv17	Injection Volume:	200.0
Vial Number:	5	Channel:	ECD_1
Sample Type:	standard	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 15:26	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

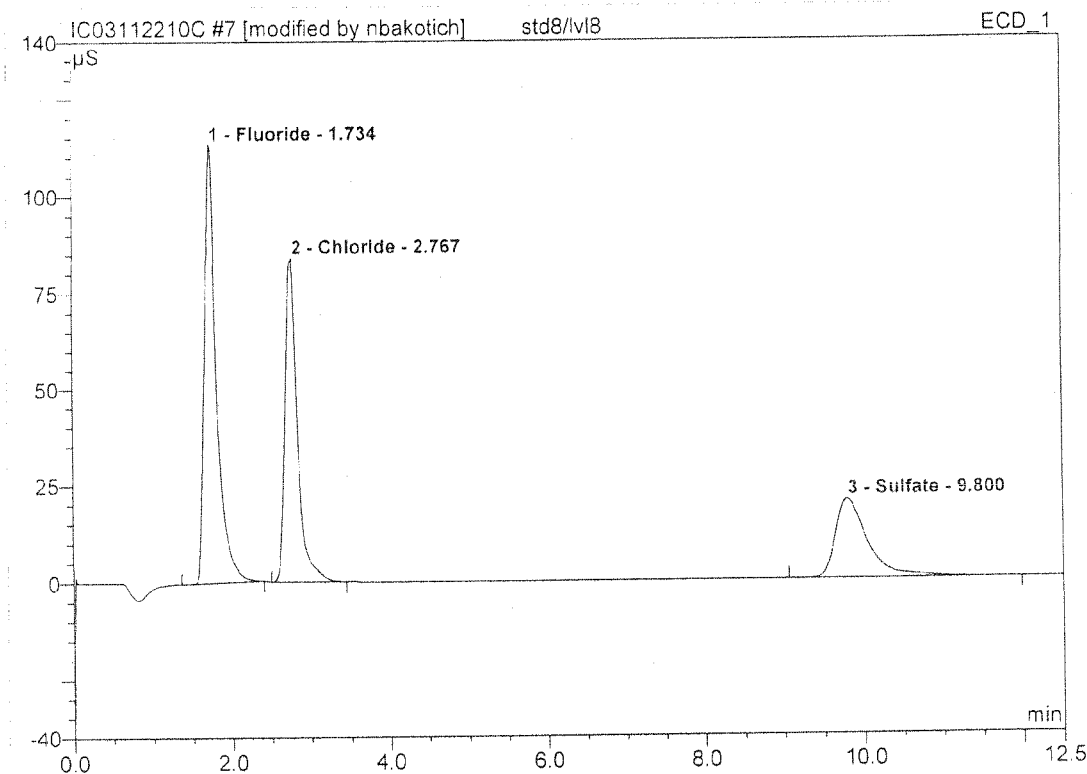


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.72	Fluoride	87.714	15.187	22.41	7.532	BMB
2	2.72	Chloride	56.611	10.593	15.63	7.259	BMb
3	3.38	Nitrite	62.232	14.017	20.68	5.008	bMB
4	4.38	Bromide	10.581	2.401	3.54	4.975	Ru
5	5.08	Nitrate	59.432	18.523	27.33	5.120	BMB
6	9.83	Sulfate	14.943	7.046	10.40	7.427	BMB
Total:			291.513	67.765	100.00	37.322	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
7 std8/lv18			
Sample Name:	std8/lv18	Injection Volume:	200.0
Vial Number:	6	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 15:41	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



No.	Ret. Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel. Area %	Amount	Type
1	1.73	Fluoride	113.420	20.081	44.72	9.960	BMB*
2	2.77	Chloride	83.885	15.135	33.71	10.286	BMB*
3	9.80	Sulfate	20.407	9.687	21.57	10.211	BMB
Total:		After	217.713	44.903	100.00	30.457	

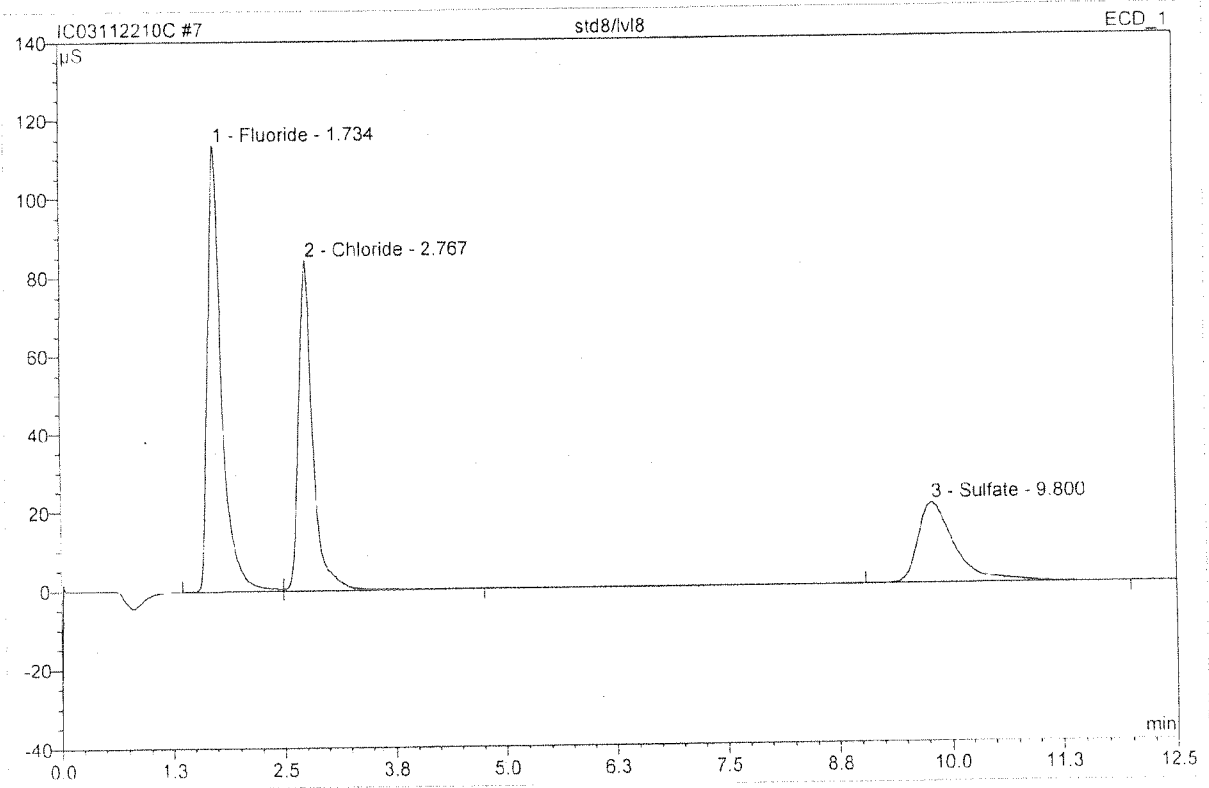
Initials JD

NOV 22 2010

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

6/13/11/11

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	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 15:41	Sample Weight:	1.0000
Run Time (min):	12.50	Sample Amount:	1.0000

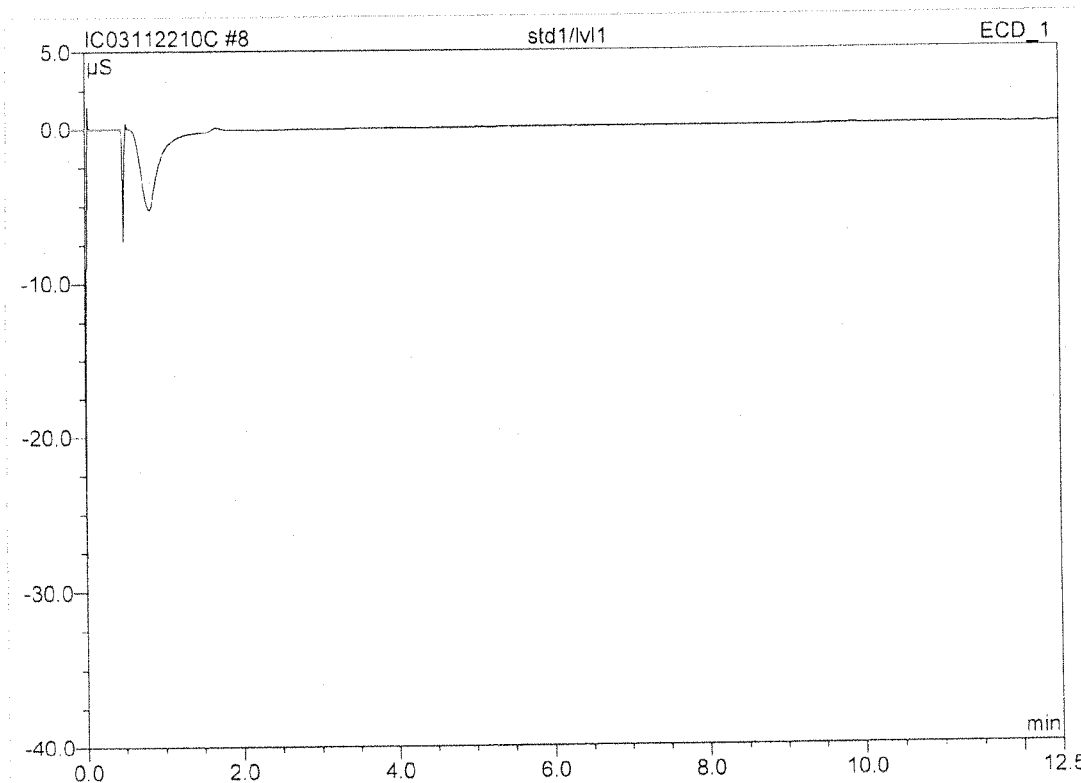


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.73	Fluoride	113.629	20.434	44.74	10.039	BM
2	2.77	Chloride	84.251	15.552	34.05	10.408	MB
3	9.80	Sulfate	20.407	9.687	21.21	10.211	BMB
Total:			218.287	45.673	100.00	30.657	

Before

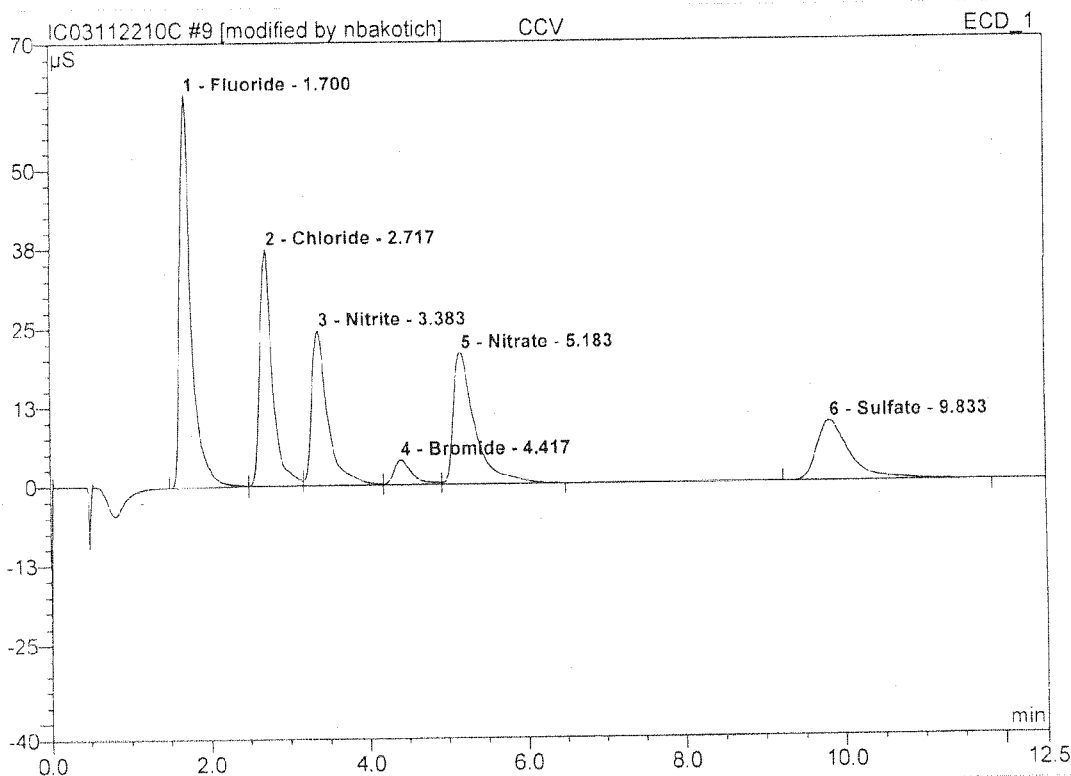
NOV 22 2010

Columbia Analytical Services, Inc.			
8 std1/lvl1			
Sample Name:	std1/lvl1	Injection Volume:	200.0
Vial Number:	7	Channel:	ECD_1
Sample Type:	standard	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 15:56	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



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

Columbia Analytical Services, Inc.			
9 CCV			
Sample Name:	CCV	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 16:11	Analyst:	JS / EM
Run Time (min):	12.52	Inst. ID:	K-IC-03



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.70	Fluoride	62.081	10.293	29.50	5.105	BMb
2	2.72	Chloride	37.316	6.836	19.59	4.646	bM *
3	3.38	Nitrite	24.508	5.662	16.22	1.973	M *
4	4.42	Bromide	3.899	1.014	2.91	2.027	M *
5	5.18	Nitrate	20.744	6.560	18.80	1.822	MB*
6	9.83	Sulfate	9.395	4.531	12.98	4.777	BMB
Total:			157.944	34.896	100.00	20.350	

After Initials ab

11/23/10

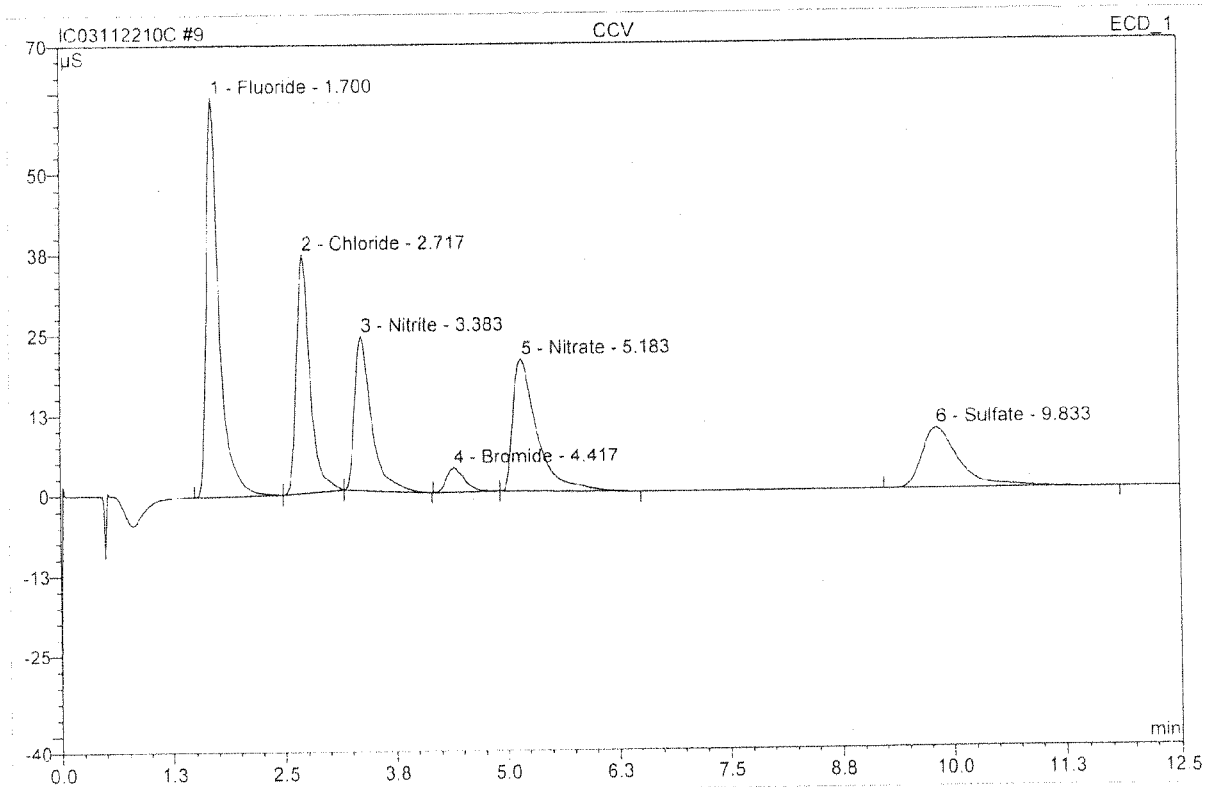
NOV 22 2010

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

CASLIMS_300-0/Integration

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

9 CCV			
Sample Name:	CCV	Injection Volume:	200.0
Vial Number:	8	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	11/22/2010 16:11	Sample Weight:	1.0000
Run Time (min):	12.52	Sample Amount:	1.0000

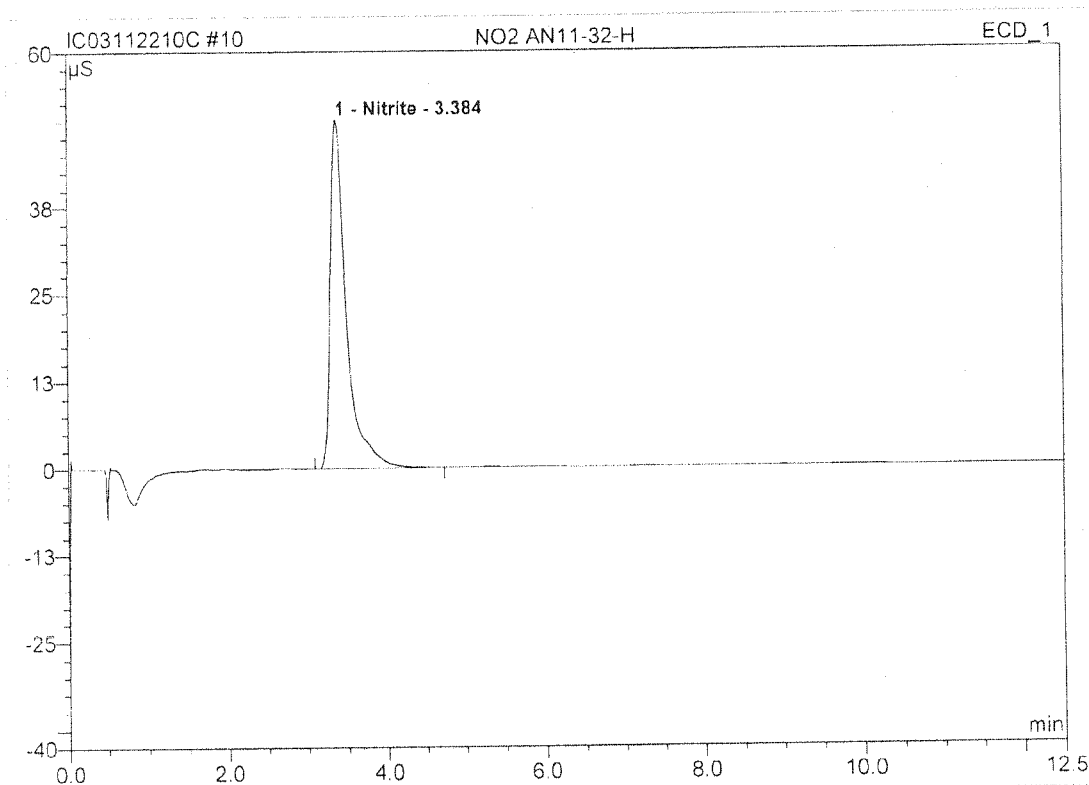


No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	1.70	Fluoride	62.081	10.293	30.28	5.105	BMB
2	2.72	Chloride	37.108	6.612	19.45	4.493	bMB
3	3.38	Nitrite	23.960	5.280	15.53	1.840	bMB
4	4.42	Bromide	3.755	0.890	2.62	1.780	BMB
5	5.18	Nitrate	20.558	6.387	18.79	1.774	bMB
6	9.83	Sulfate	9.395	4.531	13.33	4.777	BMB
Total:			156.858	33.992	100.00	19.768	

Before

NOV 22 2010

Columbia Analytical Services, Inc.			
10 NO2 AN11-32-H			
NO2			
Sample Name:	NO2 AN11-32-H	Injection Volume:	200.0
Vial Number:	10	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif Method:	epa300	Dilution Factor:	25.0
Recording Time:	11/22/2010 16:26	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03

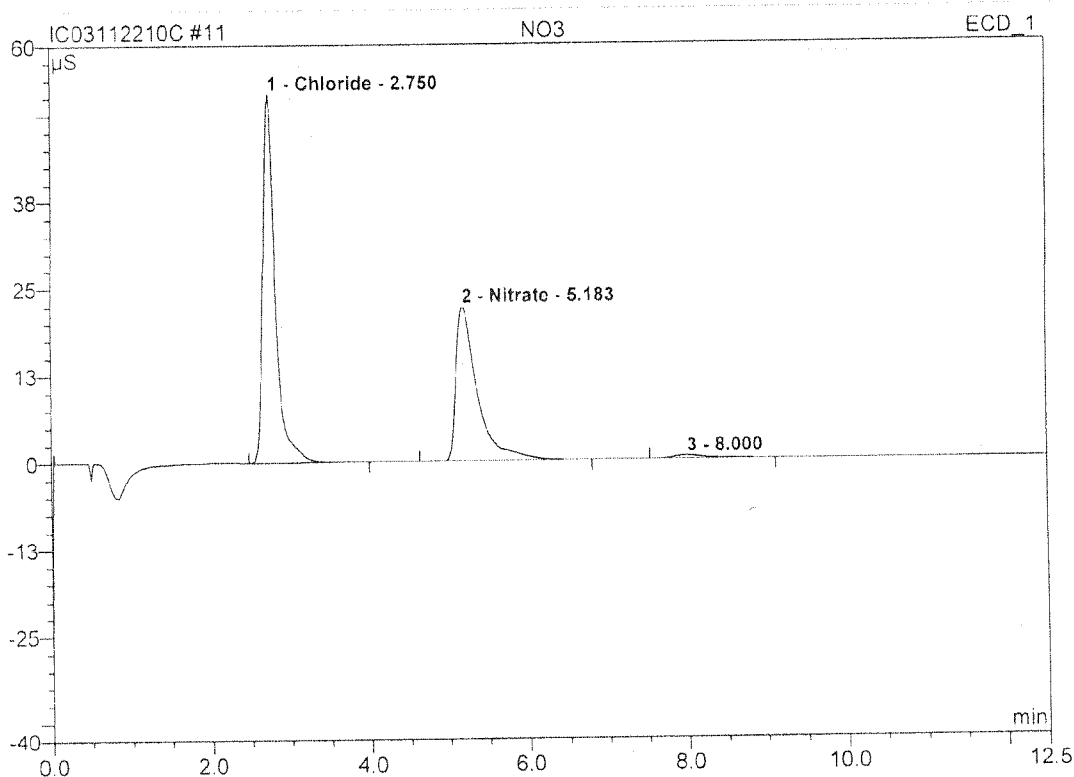


No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	3.38	Nitrite	50.270	11.728	100.00	102.158	BMB
Total:			50.270	11.728	100.00	102.158	

Columbia Analytical Services, Inc.

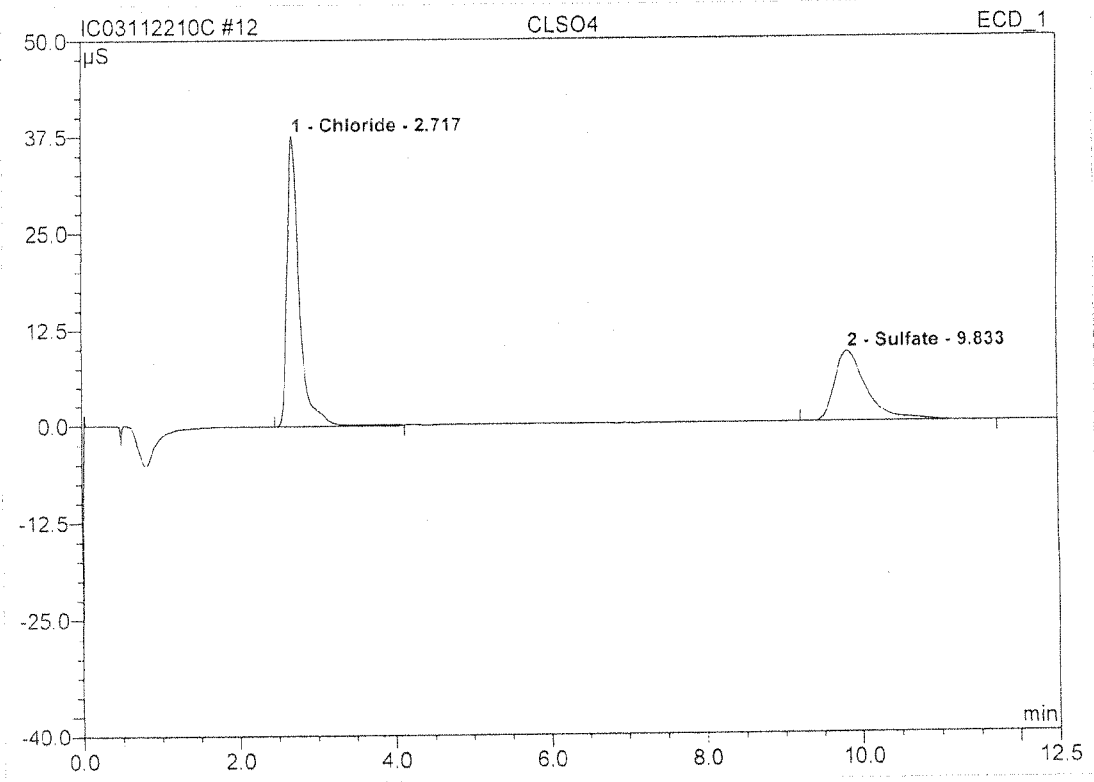
11 NO3**NO3**

Sample Name: NO3	Injection Volume: 200.0
Vial Number: 11	Channel: ECD_1
Sample Type: unknown	ICAL Date:
Control Program: epa300	ICAL ID#:
Quantif Method: epa300	Dilution Factor: 10.0
Recording Time: 11/22/2010 16:41	Analyst: JS / EM
Run Time (min): 12.50	Inst. ID: K-IC-03



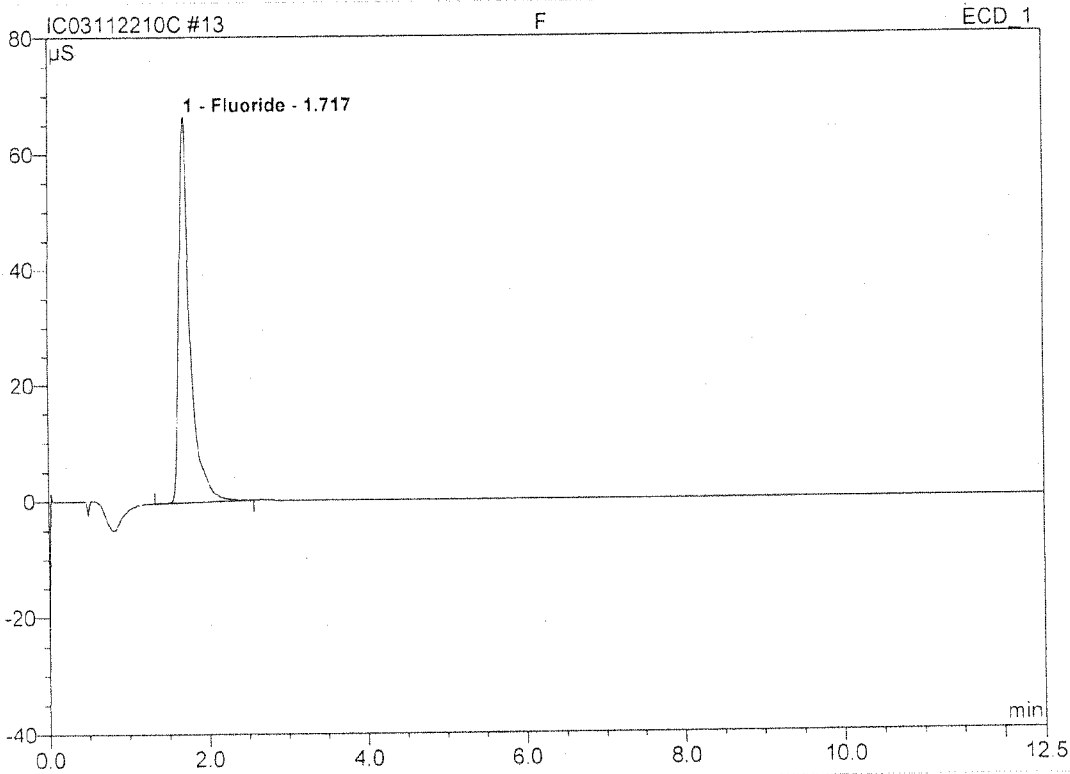
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.75	Chloride	53.078	9.510	56.79	64.626	BMB
2	5.18	Nitrate	22.119	7.007	41.84	19.466	BMB
3	8.00	n.a.	0.491	0.230	1.37	n.a.	BMB
Total:			75.688	16.746	100.00	84.092	

Columbia Analytical Services, Inc.			
12 CLSO4			
CLSO4			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	1.0
Recording Time:	11/22/2010 16:56	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



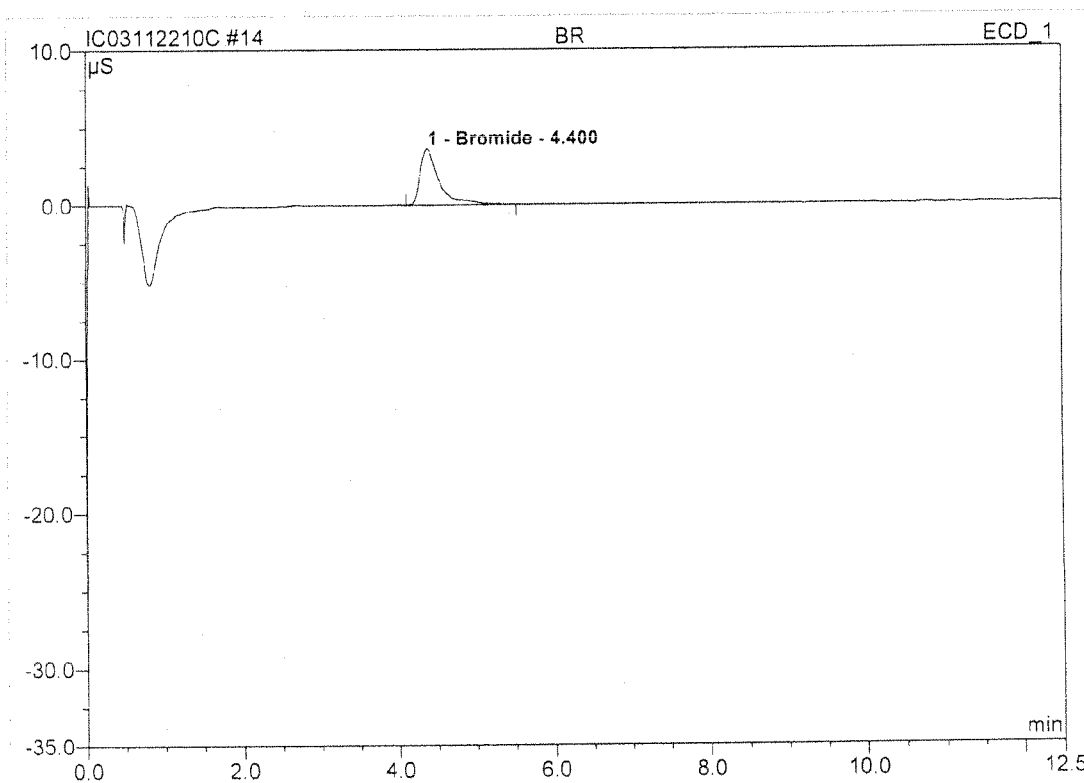
No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.72	Chloride	37.687	6.916	61.01	4.700	BMB
2	9.83	Sulfate	9.129	4.421	38.99	4.660	BMB
Total:			46.817	11.337	100.00	9.360	

Columbia Analytical Services, Inc.			
13 F			
F			
Sample Name:	F	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	2.0
Recording Time:	11/22/2010 17:11	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.72	Fluoride	66.734	11.007	100.00	10.919	BMB
Total:			66.734	11.007	100.00	10.919	

Columbia Analytical Services, Inc.			
14 BR			
BR			
Sample Name:	BR	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	ICAL Date:	
Control Program:	epa300	ICAL ID#:	
Quantif. Method:	epa300	Dilution Factor:	2.0
Recording Time:	11/22/2010 17:26	Analyst:	JS / EM
Run Time (min):	12.50	Inst. ID:	K-IC-03



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	4.40	Bromide	3.615	1.033	100.00	4.130	BMB
Total:			3.615	1.033	100.00	4.130	

Sequence # LC03012611

Ion Chromatography Data Quality Report
Inorganics

Run # 233888

- 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

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.

K0133-1,2 Reversed analysis not held.

LCS			
Fluoride	True Value = 11.0 ppm	CAS ID # = <u>AN1-33-CC</u>	Expires: <u>3.3.11</u>
Chloride	True Value = 5.0ppm	CAS ID # = <u>ERA#0824-10-01</u>	Expires: <u>3.11</u>
Nitrite	True Value = 100 ppm	CAS ID # = <u>AN11-33-Y</u>	Expires: <u>1.26.11</u>
Bromide	True Value = 4.0 ppm	CAS ID # = <u>AN1-33-Z</u>	Expires: <u>---</u>
Nitrate	True Value = 15.2 ppm	CAS ID # = <u>AN1-34-F</u>	Expires: <u>3.2.11</u>
Sulfate	True Value = 5.0 ppm	CAS ID # = <u>ERA#0824-10-01</u>	Expires: <u>3.11</u>

CCV			
Fluoride	True Value = 5.0 ppm	CAS ID # = <u>AN11-85-P</u>	Expires <u>1.26.11</u>
Chloride	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>4.28.11</u>
Nitrite	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-AA</u>	Expires: <u>2.5.11</u>
Bromide	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-33-EE</u>	Expires: <u>4.28.11</u>
Nitrate	True Value = 2.0 ppm	10K CAS ID # = <u>AN1-34-E</u>	Expires: <u>2</u>
Sulfate	True Value = 5.0 ppm	10K CAS ID # = <u>AN1-33-W</u>	Expires: <u>1.30.11</u>
		10K CAS ID # = <u>AN1-33-BB</u>	Expires: <u>2.5.11</u>

Spike			
2.0ppm X dilution factor			
	CAS ID# = <u>AN11-75-O</u>		Expires <u>1.26.11</u>
Fluoride	10K CAS ID # = <u>AN1-33-DD</u>	Expires: <u>C CCV</u>	
Chloride	10K CAS ID # = <u>AN1-33-AA</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>AN1-33-W</u>	Expires: <u> </u>	
Sulfate	10K CAS ID # = <u>AN1-33-BB</u>	Expires: <u>✓</u>	

Analyst: MD Date: 1.26.11

First Review: ↓ Date: 1.27.11

Final Review: BA Date: 1.27.11

t:\wetlic\icdq.xls

Analytical Results Summary

Instrument Name: K-JC-03

Analyst: NBAKOTICH

Analysis Lot: 233888

Method/Testcode: 300.0/SO4

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
00659-001	Sulfate	N/A		Water	6.42 mg/L	5 mL	6.42 mg/L	2	0.02	0.40			1/26/11 12:56:00	N II
00661-002	Chloride	N/A		Water	55.62 mg/L	5 mL	55.6 mg/L	10	0.3	2.0			1/26/11 12:42:00	N IV
00661-002	Sulfate	N/A		Water	37.13 mg/L	5 mL	37.1 mg/L	10	0.1	2.0			1/26/11 12:42:00	N IV
00682-001	Sulfur	N/A		Misc. Solid	0.00 mg/L	1 g	2.6 µg	U 2		2.6			1/26/11 19:56:00	N V
00683-001	Sulfur	N/A		Misc. Solid	0.00 mg/L	1 g	2.6 µg	U 2		2.6			1/26/11 20:10:00	N V
00692-001	Chloride	N/A		Water	656.01 mg/L	5 mL	656 mg/L	100	3	20			1/26/11 13:10:00	N IV
00692-001	Fluoride	N/A		Water	0.16 mg/L	5 mL	0.16 mg/L	J 2	0.006	0.40			1/26/11 13:24:00	N IV
00692-001	Sulfate	N/A		Water	26.49 mg/L	5 mL	26.5 mg/L	10	0.1	2.0			1/26/11 12:00:00	N IV
00692-002	Chloride	N/A		Water	640.75 mg/L	5 mL	641 mg/L	100	3	20			1/26/11 14:34:00	N IV
00692-002	Fluoride	N/A		Water	0.17 mg/L	5 mL	0.17 mg/L	J 2	0.006	0.40			1/26/11 14:47:00	N IV
00692-002	Sulfate	N/A		Water	26.65 mg/L	5 mL	26.7 mg/L	10	0.1	2.0			1/26/11 12:14:00	N IV
00692-003	Chloride	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	U 2	0.06	0.40			1/26/11 12:28:00	N IV
00692-003	Fluoride	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			1/26/11 12:28:00	N IV
00692-003	Sulfate	N/A		Water	0.00 mg/L	5 mL	0.40 mg/L	U 2	0.02	0.40			1/26/11 12:28:00	N IV
00699-001	Nitrate as Nitrogen	N/A		Water	0.71 mg/L	5 mL	0.71 mg/L	2	0.008	0.10			1/26/11 11:46:00	N I
00712-001	Nitric as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.10 mg/L	U 2	0.004	0.10			1/26/11 11:46:00	N I
00712-001	Fluoride	N/A		Drinking Water	0.39 mg/L	5 mL	0.40 mg/L	U 2	0.006	0.40			1/26/11 14:20:00	N I
00712-001	Sulfate	N/A		Drinking Water	1.97 mg/L	5 mL	1.97 mg/L	2	0.02	0.40			1/26/11 14:20:00	N I
00733-001	Chloride	N/A		Water	6.76 mg/L	5 mL	6.8 mg/L	2	0.06	2.0			1/26/11 17:22:00	N V
00733-001	Nitrate as Nitrogen	N/A		Water	0.28 mg/L	5 mL	0.28 mg/L	2	0.008	0.10			1/26/11 17:22:00	N V
00733-001	Sulfate	N/A		Water	69.32 mg/L	5 mL	69.3 mg/L	10	0.1	1.0			1/26/11 21:34:00	N V
00733-002	Chloride	N/A		Water	9.74 mg/L	5 mL	9.7 mg/L	2	0.06	2.0			1/26/11 17:36:00	N V
00733-002	Nitrate as Nitrogen	N/A		Water	0.13 mg/L	5 mL	0.13 mg/L	2	0.008	0.10			1/26/11 17:36:00	N V
00733-002	Sulfate	N/A		Water	31.89 mg/L	5 mL	31.9 mg/L	10	0.1	1.0			1/26/11 21:48:00	N V
00733-003	Chloride	N/A		Water	3.38 mg/L	5 mL	3.4 mg/L	2	0.06	2.0			1/26/11 16:27:00	N V
00733-003	Nitrate as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.10 mg/L	U 2	0.008	0.10			1/26/11 16:27:00	N V
00733-003	Sulfate	N/A		Water	2.19 mg/L	5 mL	2.19 mg/L	2	0.02	0.20			1/26/11 16:27:00	N V
00733-004	Chloride	N/A		Water	6.82 mg/L	5 mL	6.8 mg/L	2	0.06	2.0			1/26/11 17:08:00	N V
00733-004	Nitrate as Nitrogen	N/A		Water	0.28 mg/L	5 mL	0.28 mg/L	2	0.008	0.10			1/26/11 17:08:00	N V
00733-004	Sulfate	N/A		Water	69.10 mg/L	5 mL	69.1 mg/L	10	0.1	1.0			1/26/11 22:02:00	N V
1100783-01	Sulfur	MB		Misc. Solid	0.00 mg/L	50 g	0.14 mg/Kg	U 2		0.14			1/26/11 18:46:00	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: 233888

Method/Testcode: 300.0/Sulfur Tot H2O2

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1100783-02	Sulfur	MB		Misc. Solid	0.00 mg/L	50 g	0.14 mg/Kg U	2		0.14			1/26/11 19:00:00	N V
1100783-03	Sulfur	MB		Misc. Solid	0.00 mg/L	50 g	0.14 mg/Kg U	2		0.14			1/26/11 19:14:00	N V
1100783-04	Sulfur	LCS		Misc. Solid	141.21 mg/L	2 g	3530 mg/Kg	100		7.0	83		1/26/11 19:28:00	N V
1100783-05	Sulfur	LCS		Misc. Solid	317.67 mg/L	4 g	3970 mg/Kg	200		14	93		1/26/11 19:42:00	N V
1100784-01	Chloride	N/A		Water	3.36 mg/L	5 ml	3.4 mg/L	10	0.3	2.0	2.0		1/26/11 15:43:00	N I
1100784-01	Fluoride	N/A		Water	0.00 mg/L	5 ml	2.0 mg/L U	10	0.03	2.0	2.0		1/26/11 15:43:00	N I
1100784-01	Nitrate as Nitrogen	N/A		Water	0.67 mg/L	5 ml	0.67 mg/L	10	0.04	0.50	0.50		1/26/11 15:43:00	N I
1100784-01	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 ml	0.50 mg/L U	10	0.02	0.50	0.50		1/26/11 15:43:00	N I
1100784-01	Sulfate	N/A		Water	28.80 mg/L	5 ml	28.8 mg/L	10	0.1	2.0	2.0		1/26/11 15:43:00	N I
1100784-02	Chloride	MS	KQ1100784-01	Water	6.94 mg/L	5 ml	6.94 mg/L	2	0.06	0.40	89		1/26/11 15:15:00	N I
1100784-02	Fluoride	MS	KQ1100784-01	Water	3.99 mg/L	5 ml	3.99 mg/L	2	0.006	0.40	100		1/26/11 15:15:00	N I
1100784-02	Nitrate as Nitrogen	MS	KQ1100784-01	Water	4.81 mg/L	5 ml	4.81 mg/L	2	0.008	0.10	103		1/26/11 15:15:00	N I
1100784-02	Nitrite as Nitrogen	MS	KQ1100784-01	Water	3.87 mg/L	5 ml	3.87 mg/L	2	0.004	0.10	97		1/26/11 15:15:00	N I
1100784-02	Sulfate	MS	KQ1100784-01	Water	49.68 mg/L	5 ml	49.7 mg/L	10	0.1	2.0	104		1/26/11 16:11:00	N I
1100784-03	Chloride	DMS	KQ1100784-01	Water	6.96 mg/L	5 ml	6.96 mg/L	2	0.06	0.40	90	<1	1/26/11 15:29:00	N I
1100784-03	Fluoride	DMS	KQ1100784-01	Water	4.02 mg/L	5 ml	4.02 mg/L	2	0.006	0.40	101	<1	1/26/11 15:29:00	N I
1100784-03	Nitrate as Nitrogen	DMS	KQ1100784-01	Water	4.85 mg/L	5 ml	4.85 mg/L	2	0.008	0.10	105	<1	1/26/11 15:29:00	N I
1100784-03	Nitrite as Nitrogen	DMS	KQ1100784-01	Water	3.91 mg/L	5 ml	3.91 mg/L	2	0.004	0.10	98	1	1/26/11 15:29:00	N I
1100784-03	Sulfate	DMS	KQ1100784-01	Water	49.82 mg/L	5 ml	49.8 mg/L	10	0.1	2.0	105	<1	1/26/11 17:50:00	N I
1100784-04	Chloride	DUP	KQ1100784-01	Water	3.31 mg/L	5 ml	3.31 mg/L	2	0.06	0.40		1	1/26/11 15:01:00	N I
1100784-04	Fluoride	DUP	KQ1100784-01	Water	0.12 mg/L	5 ml	0.12 mg/L J	2	0.006	0.40		NC	1/26/11 15:01:00	N I
1100784-04	Nitrate as Nitrogen	DUP	KQ1100784-01	Water	0.71 mg/L	5 ml	0.71 mg/L	2	0.008	0.10		6	1/26/11 15:01:00	N I
1100784-04	Nitrite as Nitrogen	DUP	KQ1100784-01	Water	0.00 mg/L	5 ml	0.10 mg/L U	2	0.004	0.10		NC	1/26/11 15:01:00	N I
1100784-04	Sulfate	DUP	KQ1100784-01	Water	28.76 mg/L	5 ml	28.8 mg/L	10	0.1	2.0		<1	1/26/11 15:57:00	N I
1100784-05	Chloride	LCS		Water	4.77 mg/L	5 ml	4.77 mg/L	1	0.03	0.20	95		1/26/11 10:22:00	N I
1100784-05	Fluoride	LCS		Water	10.61 mg/L	5 ml	10.6 mg/L	2	0.006	0.40	96		1/26/11 10:36:00	N I
1100784-05	Nitrate as Nitrogen	LCS		Water	14.87 mg/L	5 ml	14.9 mg/L	5	0.02	0.25	98		1/26/11 10:08:00	N I
1100784-05	Nitrite as Nitrogen	LCS		Water	100.31 mg/L	5 ml	100 mg/L	25	0.05	1.3	100		1/26/11 09:40:00	N I
1100784-05	Sulfate	LCS		Water	4.64 mg/L	5 ml	4.64 mg/L	1	0.01	0.20	93		1/26/11 10:22:00	N I
1100784-06	Chloride	MB		Water	0.00 mg/L	5 ml	0.20 mg/L U	1	0.03	0.20			1/26/11 09:54:00	N I
1100784-06	Fluoride	MB		Water	0.00 mg/L	5 ml	0.20 mg/L U	1	0.003	0.20			1/26/11 09:54:00	N I
1100784-06	Nitrate as Nitrogen	MB		Water	0.00 mg/L	5 ml	0.050 mg/L U	1	0.004	0.050			1/26/11 09:54:00	N I

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

Analytical Results Summary

Instrument Name: K-JC-03

Analyst: NBAKOTICH

Analysis Lot: 233888

Method/Testcode: 300.0/NO3

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
100784-06	Nitrite as Nitrogen	MB		Water	0.00 mg/L	5 mL	0.050 mg/L U	1	0.002	0.050			1/26/11 09:54:00	N I
100784-06	Sulfate	MB		Water	0.00 mg/L	5 mL	0.20 mg/L U	1	0.01	0.20			1/26/11 09:54:00	N I
100784-07	Chloride	CCV		Water	4.72 mg/L	5 mL	4.72 mg/L	1					1/26/11 09:12:00	N V
100784-07	Fluoride	CCV		Water	4.97 mg/L	5 mL	4.97 mg/L	1					1/26/11 09:12:00	N V
100784-07	Nitrate as Nitrogen	CCV		Water	1.87 mg/L	5 mL	1.87 mg/L	1					1/26/11 09:12:00	N V
100784-07	Nitrite as Nitrogen	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1					1/26/11 09:12:00	N V
100784-07	Sulfate	CCV		Water	4.75 mg/L	5 mL	4.75 mg/L	1					1/26/11 09:12:00	N V
100784-08	Chloride	CCV		Water	4.75 mg/L	5 mL	4.75 mg/L	1					1/26/11 11:04:00	N V
100784-08	Fluoride	CCV		Water	5.02 mg/L	5 mL	5.02 mg/L	1					1/26/11 11:04:00	N V
100784-08	Nitrate as Nitrogen	CCV		Water	1.88 mg/L	5 mL	1.88 mg/L	1					1/26/11 11:04:00	N V
100784-08	Nitrite as Nitrogen	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1					1/26/11 11:04:00	N V
100784-08	Sulfate	CCV		Water	4.82 mg/L	5 mL	4.82 mg/L	1					1/26/11 11:04:00	N V
100784-09	Chloride	CCV		Water	4.72 mg/L	5 mL	4.72 mg/L	1					1/26/11 13:52:00	N V
100784-09	Fluoride	CCV		Water	4.99 mg/L	5 mL	4.99 mg/L	1					1/26/11 13:52:00	N V
100784-09	Nitrate as Nitrogen	CCV		Water	1.88 mg/L	5 mL	1.88 mg/L	1					1/26/11 13:52:00	N V
100784-09	Nitrite as Nitrogen	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1					1/26/11 13:52:00	N V
100784-09	Sulfate	CCV		Water	4.71 mg/L	5 mL	4.71 mg/L	1					1/26/11 13:52:00	N V
100784-10	Chloride	CCV		Water	4.79 mg/L	5 mL	4.79 mg/L	1					1/26/11 16:41:00	N V
100784-10	Fluoride	CCV		Water	5.01 mg/L	5 mL	5.01 mg/L	1					1/26/11 16:41:00	N V
100784-10	Nitrate as Nitrogen	CCV		Water	1.88 mg/L	5 mL	1.88 mg/L	1					1/26/11 16:41:00	N V
100784-10	Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					1/26/11 16:41:00	N V
100784-10	Sulfate	CCV		Water	4.78 mg/L	5 mL	4.78 mg/L	1					1/26/11 16:41:00	N V
100784-11	Chloride	CCV		Water	4.79 mg/L	5 mL	4.79 mg/L	1					1/26/11 18:18:00	N V
100784-11	Fluoride	CCV		Water	5.04 mg/L	5 mL	5.04 mg/L	1					1/26/11 18:18:00	N V
100784-11	Nitrate as Nitrogen	CCV		Water	1.85 mg/L	5 mL	1.85 mg/L	1					1/26/11 18:18:00	N V
100784-11	Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					1/26/11 18:18:00	N V
100784-11	Sulfate	CCV		Water	4.75 mg/L	5 mL	4.75 mg/L	1					1/26/11 18:18:00	N V
100784-12	Chloride	CCV		Water	4.75 mg/L	5 mL	4.75 mg/L	1					1/26/11 21:06:00	N V
100784-12	Fluoride	CCV		Water	5.02 mg/L	5 mL	5.02 mg/L	1					1/26/11 21:06:00	N V
100784-12	Nitrate as Nitrogen	CCV		Water	1.88 mg/L	5 mL	1.88 mg/L	1					1/26/11 21:06:00	N V
100784-12	Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					1/26/11 21:06:00	N V
100784-12	Sulfate	CCV		Water	4.75 mg/L	5 mL	4.75 mg/L	1					1/26/11 21:06:00	N V
100784-13	Chloride	CCV		Water	4.79 mg/L	5 mL	4.79 mg/L	1					1/26/11 22:16:00	N V
100784-13	Fluoride	CCV		Water	5.03 mg/L	5 mL	5.03 mg/L	1					1/26/11 22:16:00	N V

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: 233888

Method/Testcode: 300.0/NO3

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
100784-13	Nitrate as Nitrogen	CCV		Water	1.84 mg/L	5 mL	1.84 mg/L	1					1/26/11 22:16:00	N V
100784-13	Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1					1/26/11 22:16:00	N V
100784-13	Sulfate	CCV		Water	4.81 mg/L	5 mL	4.81 mg/L	1					1/26/11 22:16:00	N V
100784-14	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 09:26:00	N V
100784-14	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 09:26:00	N V
100784-14	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 09:26:00	N V
100784-14	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 09:26:00	N V
100784-14	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 09:26:00	N V
100784-15	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 11:18:00	N V
100784-15	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 11:18:00	N V
100784-15	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 11:18:00	N V
100784-15	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 11:18:00	N V
100784-15	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 11:18:00	N V
100784-16	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 14:06:00	N V
100784-16	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 14:06:00	N V
100784-16	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 14:06:00	N V
100784-16	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 14:06:00	N V
100784-17	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 16:55:00	N V
100784-17	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 16:55:00	N V
100784-17	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 16:55:00	N V
100784-17	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 16:55:00	N V
100784-17	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 16:55:00	N V
100784-18	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 18:32:00	N V
100784-18	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 18:32:00	N V
100784-18	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 18:32:00	N V
100784-18	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 18:32:00	N V
100784-18	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 18:32:00	N V
100784-19	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 21:20:00	N V
100784-19	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 21:20:00	N V
100784-19	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 21:20:00	N V
100784-19	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050	0.050		1/26/11 21:20:00	N V
100784-19	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 21:20:00	N V
100784-20	Chloride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20	0.20		1/26/11 22:30:00	N V

Notes: 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: 233888

Method/Testcode: 300.0/F

<u>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>
1100784-20	Fluoride	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			1/26/11 22:30:00	N V
1100784-20	Nitrate as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			1/26/11 22:30:00	N V
1100784-20	Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			1/26/11 22:30:00	N V
1100784-20	Sulfate	CCB		Water	0.00 mg/L	5 mL	0.20 mg/L	U 1	0.20	0.20			1/26/11 22:30:00	N V

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

Wed 1/27/11 12:56

Results Summary

Page 5 of 5

1386-1					F	11100 → 1119			
					Cl				
					NO2				
					Br				
					NO3				
					SO4				
661-2					F				
					Cl	0.515			✓
					NO2				
					Br				
					NO3				
					SO4				✓
599-1		1	X		F				
					Cl				
					NO2	2.515			✓
					Br				
					NO3				✓
					SO4		115 for RL		
659-1					F				
					Cl				
					NO2				
					Br				
					NO3				
					SO4				✓
592-1					F	0.515	2.515		
					Cl		11100		
					NO2				
					Br				
					NO3				
					SO4				✓
2					F		2.515		
					Cl		11100		
					NO2				
					Br				
					NO3				
					SO4				✓
3					F	2.515			✓
					Cl				✓
					NO2				
					Br				
					NO3				
					SO4				✓
72-1		1			F				✓
					Cl				✓
					NO2				
					Br				
					NO3				
					SO4				✓
733-1					F				✓
					Cl				✓
					NO2				
					Br				
					NO3				✓
					SO4		0.515		
2					F				
					Cl				✓
					NO2				
					Br				
					NO3				✓
					SO4		0.515		

733-3

F

(Cl)

0.515

NO2

Br

(NO3)

(SO4)

✓

✓

✓

-4/

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

F

Cl

NO2

Br

NO3

SO4

F

Cl

NO2

Br

NO3

SO4

F

Cl

NO2

Br

NO3

SO4

F

Cl

NO2

Br

NO3

SO4

Sequence: IC03012611
Operator: nbakotich

Page 1 of 4
Printed: 1/27/2011 12:20:07 PM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 67

Created: 1/26/2011 9:11:47 AM by ACQWET10
Last Update: 1/26/2011 9:09:40 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
1	std2/lvl2	Standard	2	200.0	epa300	epa300	Finished	11/22/2010 2:11:37 PM
2	std3/lvl3	Standard	1	200.0	epa300	epa300	Finished	11/22/2010 2:26:35 PM
3	std4/lvl4	Standard	2	200.0	epa300	epa300	Finished	11/22/2010 2:41:33 PM
4	std5/lvl5	Standard	3	200.0	epa300	epa300	Finished	11/22/2010 2:56:30 PM
5	std6/lvl6	Standard	4	200.0	epa300	epa300	Finished	11/22/2010 3:11:28 PM
6	std7/lvl7	Standard	5	200.0	epa300	epa300	Finished	11/22/2010 3:26:25 PM
7	std8/lvl8	Standard	6	200.0	epa300	epa300	Finished	11/22/2010 3:41:23 PM
8	std1/lvl1	Standard	7	200.0	epa300	epa300	Finished	11/22/2010 3:56:20 PM
9	CCV1 AN11-85-P	Unknown	8	200.0	epa300	epa300	Finished	1/26/2011 9:12:54 AM
10	CCB1	Unknown	10	200.0	epa300	epa300	Finished	1/26/2011 9:26:51 AM
11	NO2 AN11-33-Y	Unknown	11	200.0	epa300	epa300	Finished	1/26/2011 9:40:49 AM
12	MB	Unknown	12	200.0	epa300	epa300	Finished	1/26/2011 9:54:47 AM
13	NO3	Unknown	13	200.0	epa300	epa300	Finished	1/26/2011 10:08:45 AM
14	CLSO4	Unknown	14	200.0	epa300	epa300	Finished	1/26/2011 10:22:43 AM
15	F	Unknown	15	200.0	epa300	epa300	Finished	1/26/2011 10:36:40 AM
16	SPKCHK AN11-75-O	Unknown	18	200.0	epa300	epa300	Finished	1/26/2011 10:50:38 AM
17	CCV2	Unknown	19	200.0	epa300	epa300	Finished	1/26/2011 11:04:36 AM
18	CCB2	Unknown	20	200.0	epa300	epa300	Finished	1/26/2011 11:18:33 AM
19	K1014386-001	Unknown	21	200.0	epa300	epa300	Finished	1/26/2011 11:32:31 AM
20	K1100699-001	Unknown	22	200.0	epa300	epa300	Finished	1/26/2011 11:46:30 AM
21	K1100692-001	Unknown	23	200.0	epa300	epa300	Finished	1/26/2011 12:00:28 PM
22	K1100692-002	Unknown	24	200.0	epa300	epa300	Finished	1/26/2011 12:14:26 PM
23	K1100692-003	Unknown	25	200.0	epa300	epa300	Finished	1/26/2011 12:28:23 PM
24	K1100661-002	Unknown	26	200.0	epa300	epa300	Finished	1/26/2011 12:42:21 PM
25	K1100659-001	Unknown	27	200.0	epa300	epa300	Finished	1/26/2011 12:56:18 PM
26	K1100692-001	Unknown	28	200.0	epa300	epa300	Finished	1/26/2011 1:10:16 PM
27	K1100692-001	Unknown	29	200.0	epa300	epa300	Finished	1/26/2011 1:24:13 PM
28	RB	Unknown	30	200.0	epa300	epa300	Finished	1/26/2011 1:38:11 PM
29	CCV3	Unknown	31	200.0	epa300	epa300	Finished	1/26/2011 1:52:09 PM
30	CCB3	Unknown	32	200.0	epa300	epa300	Finished	1/26/2011 2:06:06 PM
31	K1100712-001	Unknown	33	200.0	epa300	epa300	Finished	1/26/2011 2:20:04 PM
32	K1100692-002	Unknown	34	200.0	epa300	epa300	Finished	1/26/2011 2:34:02 PM
33	K1100692-002	Unknown	35	200.0	epa300	epa300	Finished	1/26/2011 2:47:59 PM
34	K1100699-001	Unknown	36	200.0	epa300	epa300	Finished	1/26/2011 3:01:57 PM
35	K1100699-001	Unknown	37	200.0	epa300	epa300	Finished	1/26/2011 3:15:55 PM
36	K1100699-001	Unknown	38	200.0	epa300	epa300	Finished	1/26/2011 3:29:53 PM
37	K1100699-001	Unknown	39	200.0	epa300	epa300	Finished	1/26/2011 3:43:50 PM
38	K1100699-001	Unknown	40	200.0	epa300	epa300	Finished	1/26/2011 3:57:48 PM
39	K1100699-001	Unknown	41	200.0	epa300	epa300	Finished	1/26/2011 4:11:45 PM
40	K1100733-003	Unknown	42	200.0	epa300	epa300	Finished	1/26/2011 4:27:05 PM
41	CCV4	Unknown	43	200.0	epa300	epa300	Finished	1/26/2011 4:41:03 PM
42	CCB4	Unknown	44	200.0	epa300	epa300	Finished	1/26/2011 4:55:00 PM

Sequence: IC03012611
Operator: nbakotich

Page 2 of 4
Printed: 1/27/2011 12:20:07 PM

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 67

Created: 1/26/2011 9:11:47 AM by ACQWET10
Last Update: 1/26/2011 9:09:40 PM by ACQWET10

No.	Name	Dil. Factor	Comment
1	std2/vl2	1.0000	
2	std3/vl3	1.0000	
3	std4/vl4	1.0000	
4	std5/vl5	1.0000	
5	std6/vl6	1.0000	
6	std7/vl7	1.0000	
7	std8/vl8	1.0000	
8	std1/vl1	1.0000	
9	CCV1 AN11-85-P	1.0000	
10	CCB1	1.0000	
11	NO2 AN11-33-Y	25.0000	NO2
12	MB	1.0000	MB
13	NO3	5.0000	NO3
14	CLSO4	1.0000	CLSO4
15	F	2.0000	F
16	SPKCHK AN11-75-O	1.0000	SPKCHK
17	CCV2	1.0000	CCV2
18	CCB2	1.0000	CCB2
19	K1014386-001	500.0000	
20	K1100699-001	2.0000	
21	K1100692-001	10.0000	
22	K1100692-002	10.0000	
23	K1100692-003	2.0000	
24	K1100661-002	10.0000	
25	K1100659-001	2.0000	
26	K1100692-001	100.0000	
27	K1100692-001	2.0000	
28	RB	1.0000	
29	CCV3	1.0000	CCV3
30	CCB3	1.0000	CCB3
31	K1100712-001	2.0000	
32	K1100692-002	100.0000	
33	K1100692-002	2.0000	
34	K1100699-001	2.0000	D
35	K1100699-001	2.0000	MS
36	K1100699-001	2.0000	MSD
37	K1100699-001	10.0000	
38	K1100699-001	10.0000	D
39	K1100699-001	10.0000	MS
40	K1100733-003	2.0000	
41	CCV4	1.0000	CCV4
42	CCB4	1.0000	CCB4

Sequence: IC03012611
Operator: nbakotich

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 67

Created: 1/26/2011 9:11:47 AM by ACQWET10
Last Update: 1/26/2011 9:09:40 PM by ACQWET10

No.	Name	Type	Pos.	Inj. Vol.	Program	Method	Status	Inj. Date/Time
43	☐ K1100733-004	Unknown	45	200.0	epa300	epa300	Finished	1/26/2011 5:08:58 PM
44	☐ K1100733-001	Unknown	46	200.0	epa300	epa300	Finished	1/26/2011 5:22:56 PM
45	☐ K1100733-002	Unknown	47	200.0	epa300	epa300	Finished	1/26/2011 5:36:54 PM
46	☐ K1100688-001	Unknown	48	200.0	epa300	epa300	Finished	1/26/2011 5:50:52 PM
47	☐ RB	Unknown	49	200.0	epa300	epa300	Finished	1/26/2011 6:04:50 PM
48	☐ CCV5	Unknown	50	200.0	epa300	epa300	Finished	1/26/2011 6:18:48 PM
49	☐ CCB5	Unknown	51	200.0	epa300	epa300	Finished	1/26/2011 6:32:45 PM
50	☐ MB1 TS	Unknown	45	200.0	epa300	epa300	Finished	1/26/2011 6:46:43 PM
51	☐ MB2 TS	Unknown	46	200.0	epa300	epa300	Finished	1/26/2011 7:00:42 PM
52	☐ MB3 TS	Unknown	47	200.0	epa300	epa300	Finished	1/26/2011 7:14:40 PM
53	☐ LCS1 TS	Unknown	48	200.0	epa300	epa300	Finished	1/26/2011 7:28:38 PM
54	☐ LCS2 TS	Unknown	49	200.0	epa300	epa300	Finished	1/26/2011 7:42:36 PM
55	☐ K1100682-001	Unknown	50	200.0	epa300	epa300	Finished	1/26/2011 7:56:34 PM
56	☐ K1100683-001	Unknown	51	200.0	epa300	epa300	Finished	1/26/2011 8:10:32 PM
57	☐ K1100682-001	Unknown	52	200.0	epa300	epa300	Finished	1/26/2011 8:24:29 PM
58	☐ K1100683-001	Unknown	53	200.0	epa300	epa300	Finished	1/26/2011 8:38:27 PM
59	☐ RB	Unknown	54	200.0	epa300	epa300	Finished	1/26/2011 8:52:25 PM
60	☐ CCV6	Unknown	55	200.0	epa300	epa300	Finished	1/26/2011 9:06:23 PM
61	☐ CCB6	Unknown	56	200.0	epa300	epa300	Finished	1/26/2011 9:20:21 PM
62	☐ K1100733-001	Unknown	57	200.0	epa300	epa300	Finished	1/26/2011 9:34:19 PM
63	☐ K1100733-002	Unknown	58	200.0	epa300	epa300	Finished	1/26/2011 9:48:16 PM
64	☐ K1100733-004	Unknown	59	200.0	epa300	epa300	Finished	1/26/2011 10:02:15 PM
65	☐ CCV7	Unknown	60	200.0	epa300	epa300	Finished	1/26/2011 10:16:12 PM
66	☐ CCB7	Unknown	61	200.0	epa300	epa300	Finished	1/26/2011 10:30:10 PM
67	☐ STOP	Unknown	62	200.0	shutdown 120	epa300	Finished	1/26/2011 10:44:07 PM

Sequence: IC03012611
Operator: nbakotich

Title:
Datasource: ACQWET10_local
Location: DX120A
Timebase: DX120
#Samples: 67

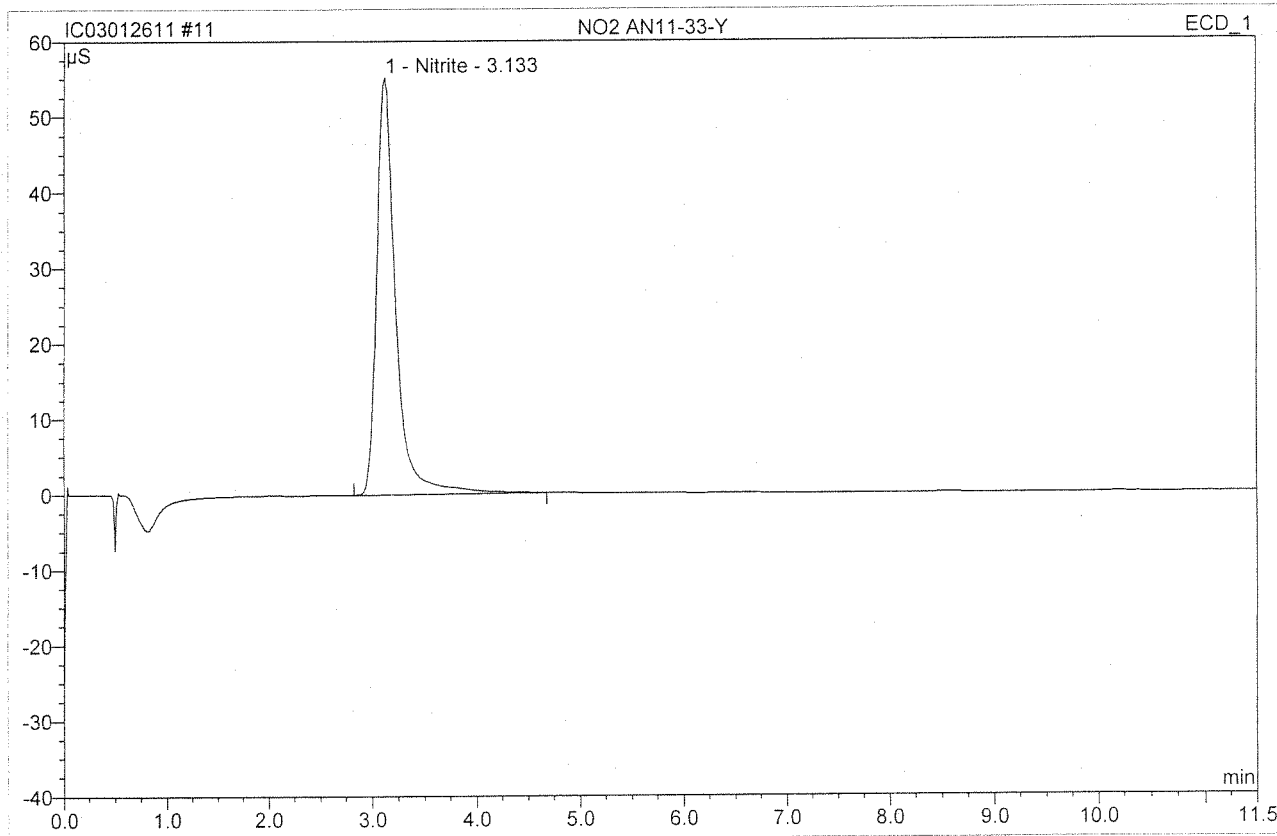
Created: 1/26/2011 9:11:47 AM by ACQWET10
Last Update: 1/26/2011 9:09:40 PM by ACQWET10

No.	Name	Dil. Factor	Comment
43	K1100733-004	2.0000	
44	K1100733-001	2.0000	
45	K1100733-002	2.0000	
46	K1100689-001	10.0000	MSD
47	RB	1.0000	
48	CCV5	1.0000	CCV5
49	CCB5	1.0000	CCB5
50	MB1 TS	2.0000	
51	MB2 TS	2.0000	
52	MB3 TS	2.0000	
53	LCS1 TS	100.0000	
54	LCS2 TS	200.0000	
55	K1100682-001	2.0000	
56	K1100683-001	2.0000	
57	K1100682-001	20.0000	
58	K1100683-001	20.0000	
59	RB	1.0000	
60	CCV6	1.0000	CCV6
61	CCB6	1.0000	CCB6
62	K1100733-001	10.0000	
63	K1100733-002	10.0000	
64	K1100733-004	10.0000	
65	CCV7	1.0000	CCV7
66	CCB7	1.0000	CCB7
67	STOP	1.0000	CCB7

11 NO2 AN11-33-Y

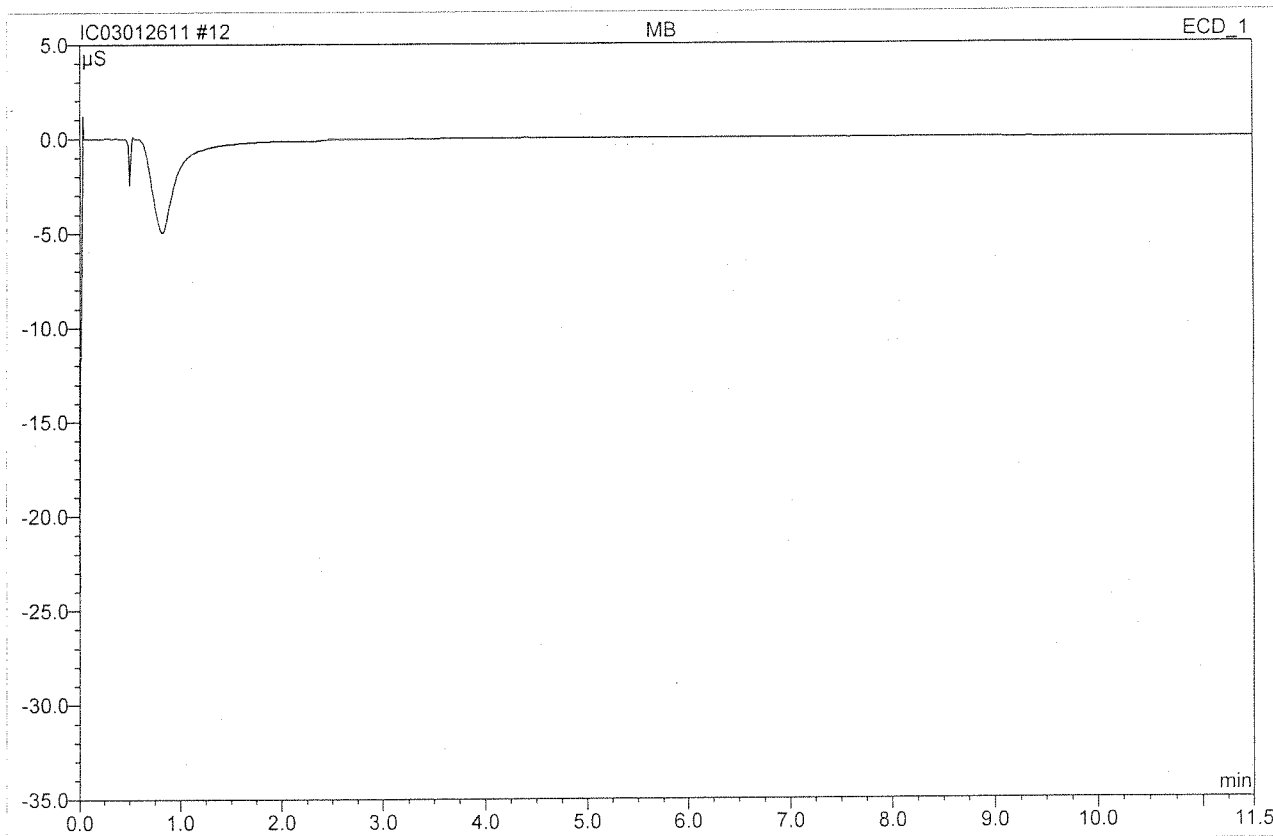
NO2

Sample Name:	NO2 AN11-33-Y	Injection Volume:	200.0
Vial Number:	11	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	25.0000
Recording Time:	1/26/2011 9:40	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



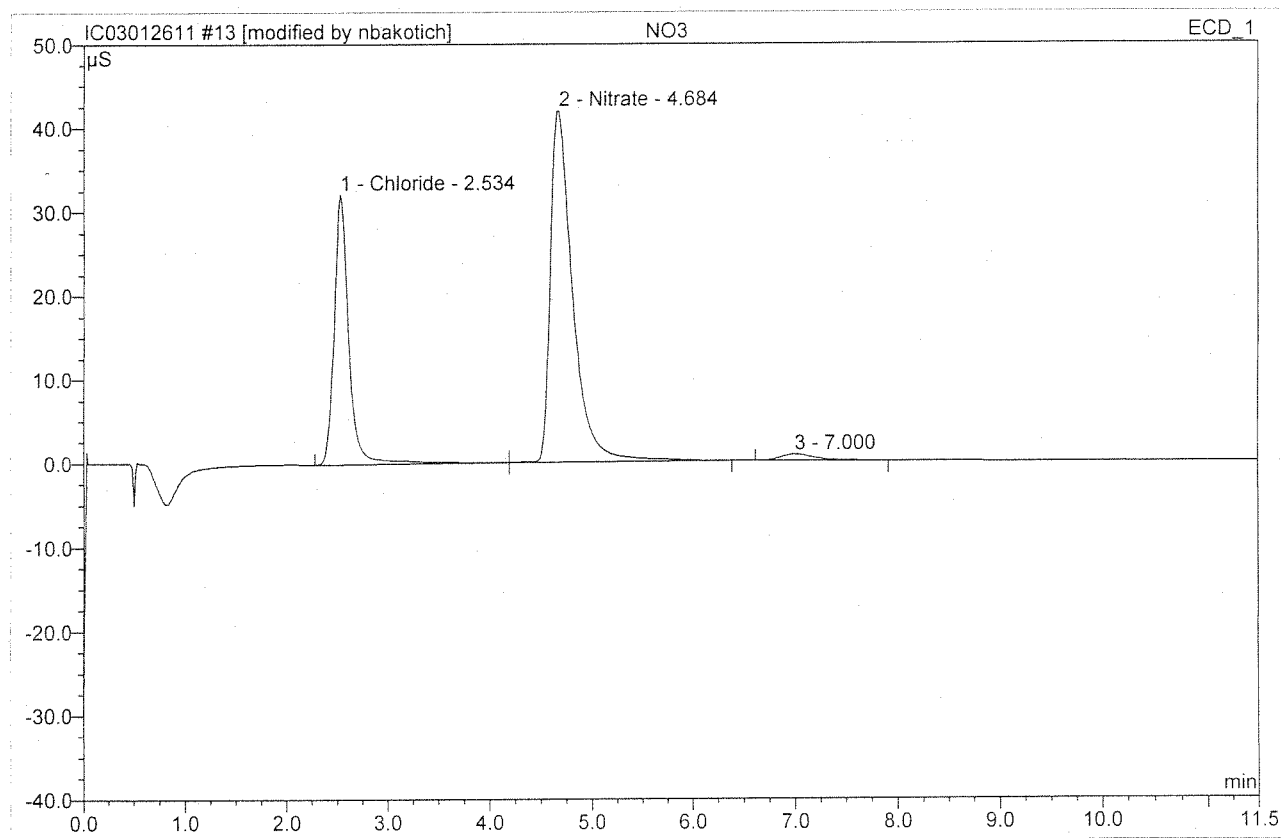
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	3.13	Nitrite	55.186	11.517	100.00	100.313	BMB
Total:			55.186	11.517	100.00	100.313	

12 MB			
MB			
Sample Name:	MB	Injection Volume:	200.0
Vial Number:	12	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 9:54	Sample Weight:	1.0000
Run Time (min):	11.50	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			
NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	1/26/2011 10:08	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	2.53	Chloride	32.193	5.513	33.38	18.732	BMB*
2	4.68	Nitrate	41.908	10.707	64.84	78 14.872	bMB*
3	7.00	n.a.	0.744	0.294	1.78	n.a.	BMB*
Total:			74.845	16.513	100.00	33.604	

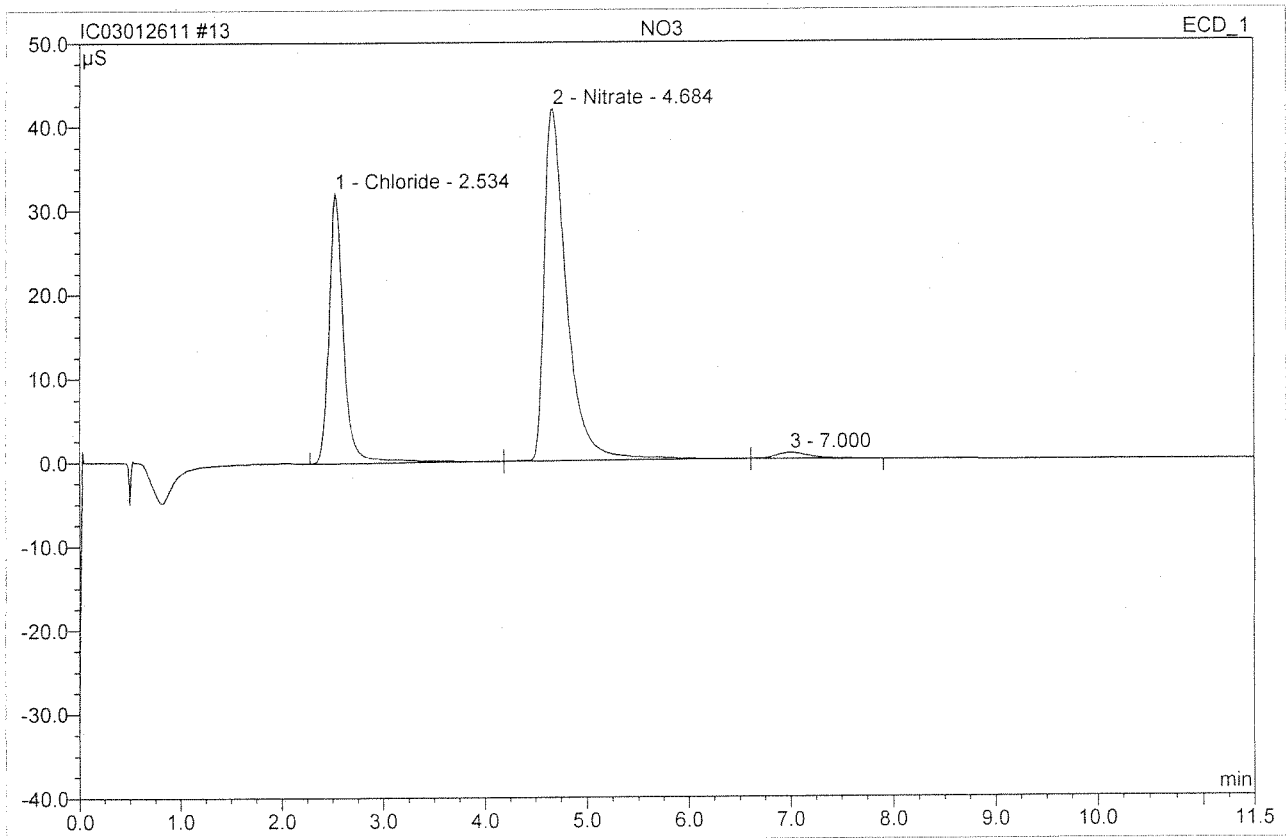
After Initials WB

JAN 27 2011

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

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

13 NO3			
NO3			
Sample Name:	NO3	Injection Volume:	200.0
Vial Number:	13	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	5.0000
Recording Time:	1/26/2011 10:08	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000

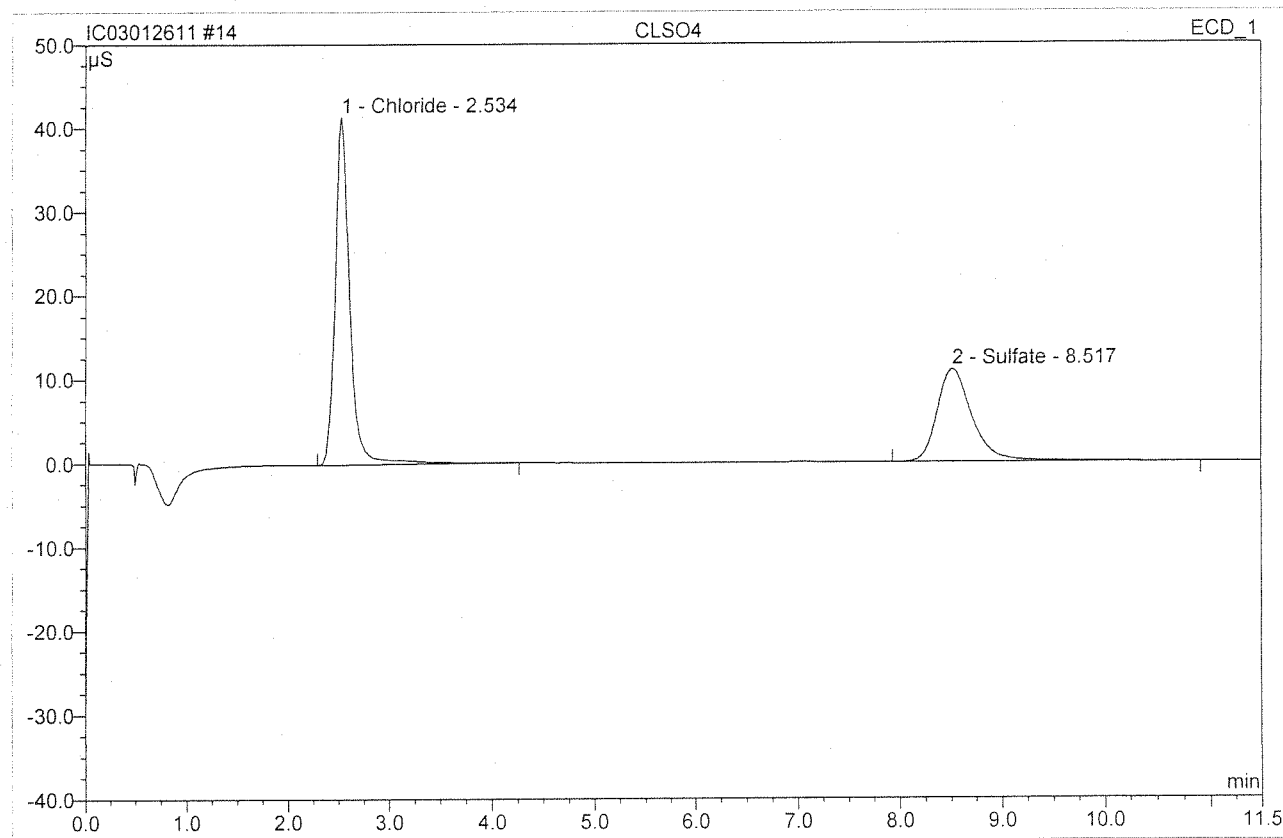


No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride	32.193	5.513	33.30	18.732	BMB
2	4.68	Nitrate	41.915	10.747	64.92	14.928	bMb
3	7.00	n.a.	0.744	0.294	1.77	n.a.	bMB
Total:			74.852	16.553	100.00	33.660	

Before

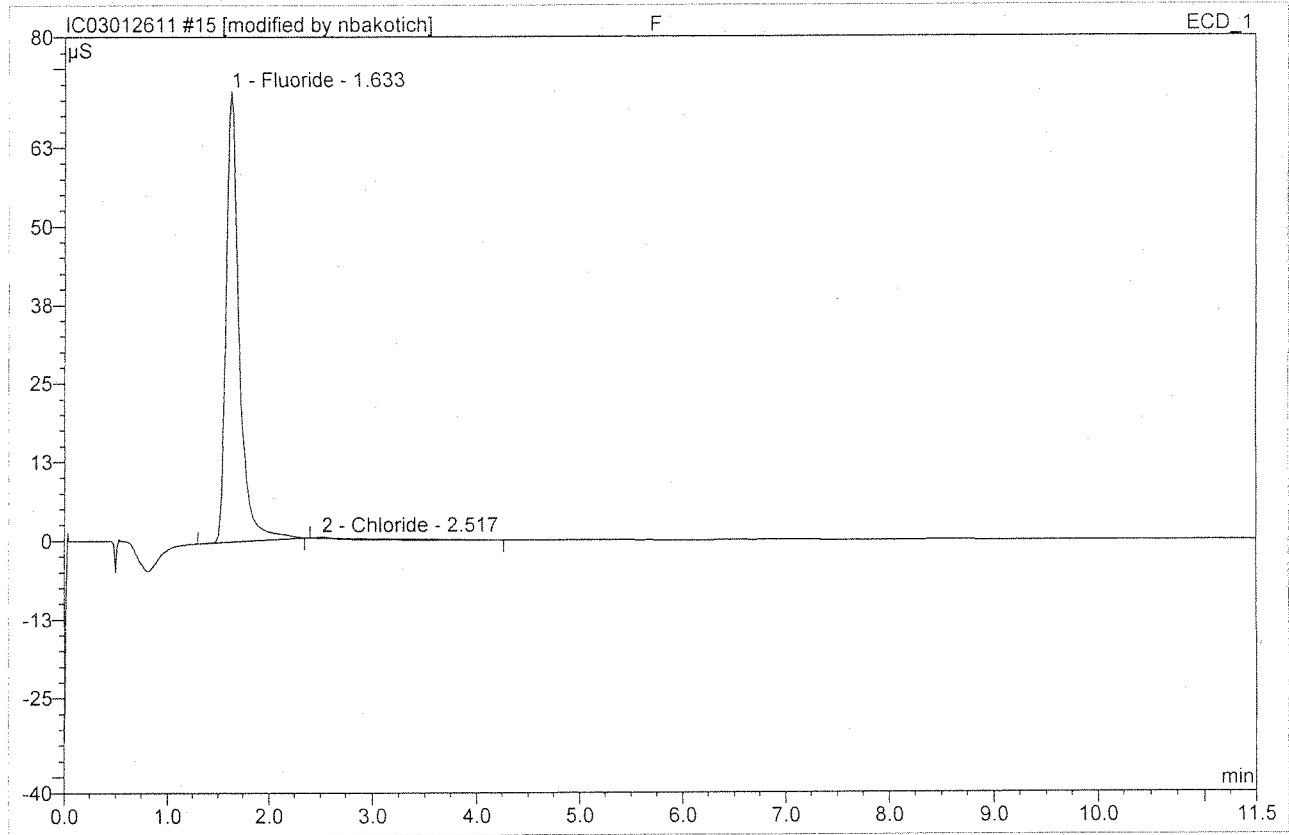
JAN 27 2011

14 CLSO4			
CLSO4			
Sample Name:	CLSO4	Injection Volume:	200.0
Vial Number:	14	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 10:22	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	2.53	Chloride	41.473	7.025	61.48	95 4.774	BMB
2	8.52	Sulfate	11.019	4.401	38.52	93 4.639	BMB
Total:			52.492	11.425	100.00	9.413	

15 F			
F			
Sample Name:	F	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/26/2011 10:36	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area $\mu\text{S}\cdot\text{min}$	Rel.Area %	Amount	Type
1	1.63	Fluoride	71.603	10.698	98.59	96 10.612	BMB*
2	2.52	Chloride	0.203	0.153	1.41	0.209	BMB*
Total:			71.806	10.851	100.00	10.820	

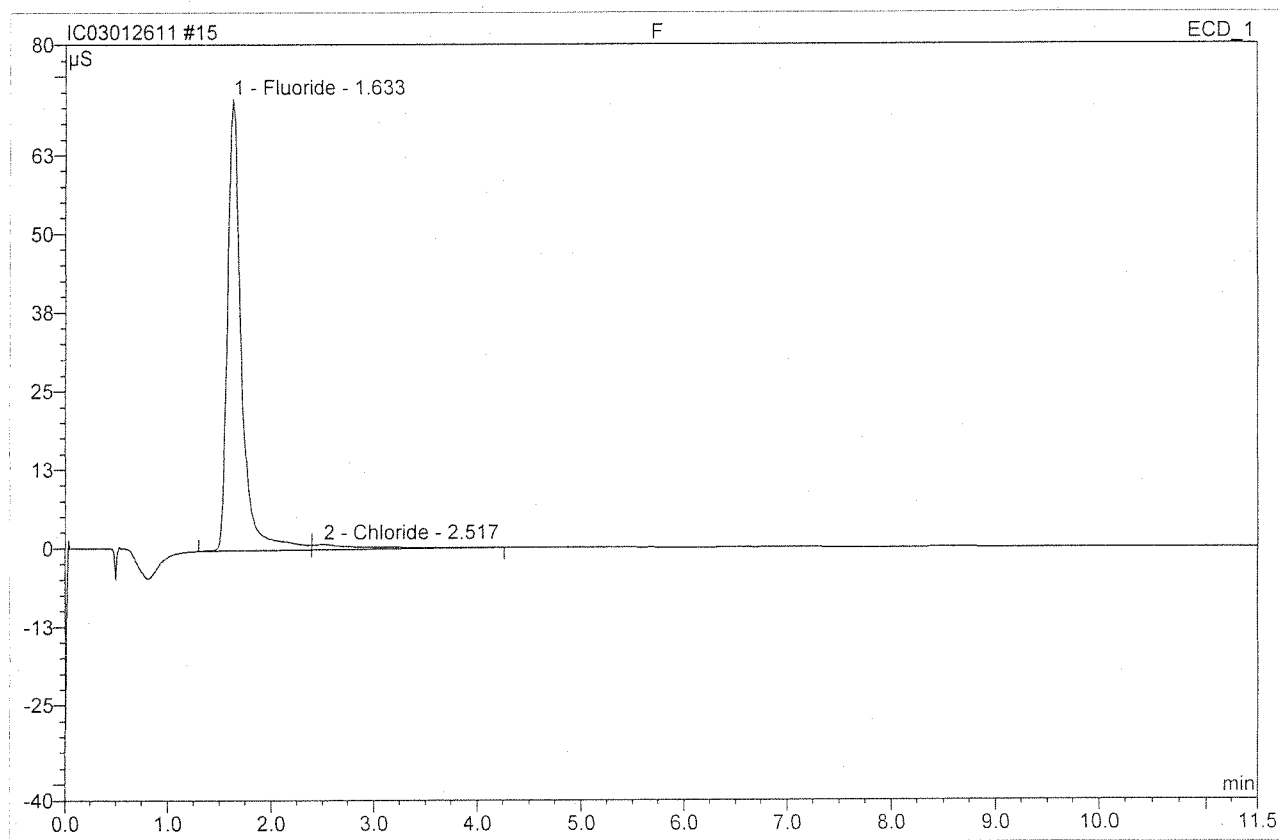
After Initials NB

JAN 27 2011

6/11/11

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

15 F			
F			
Sample Name:	F	Injection Volume:	200.0
Vial Number:	15	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/26/2011 10:36	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret. Time min	Peak Name	Height μS	Area μS*min	Rel. Area %	Amount	Type
1	1.63	Fluoride	71.847	11.138	95.45	11.049	BM
2	2.52	Chloride	0.890	0.531	4.55	0.721	MB
Total:			72.737	11.669	100.00	11.770	

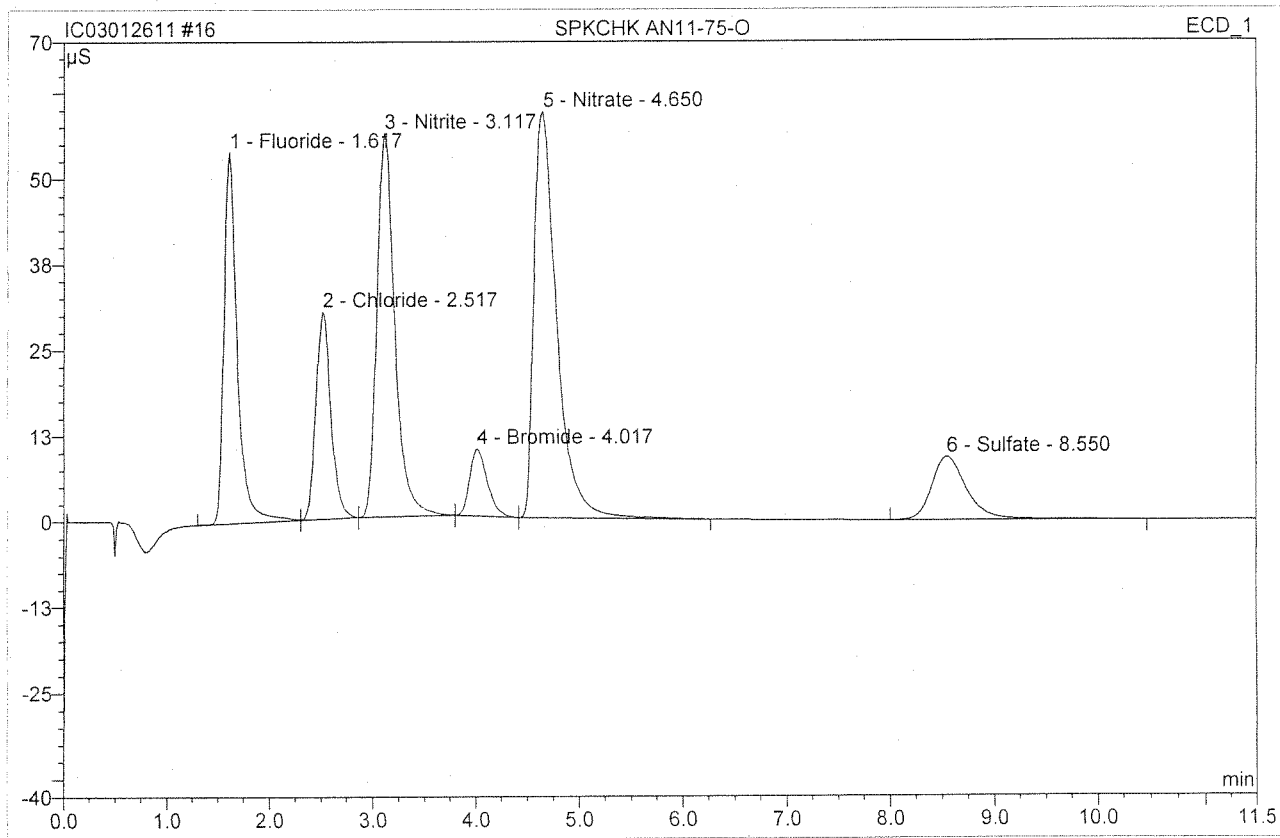
Before

JAN 27 2011

16 SPKCHK AN11-75-O

SPKCHK

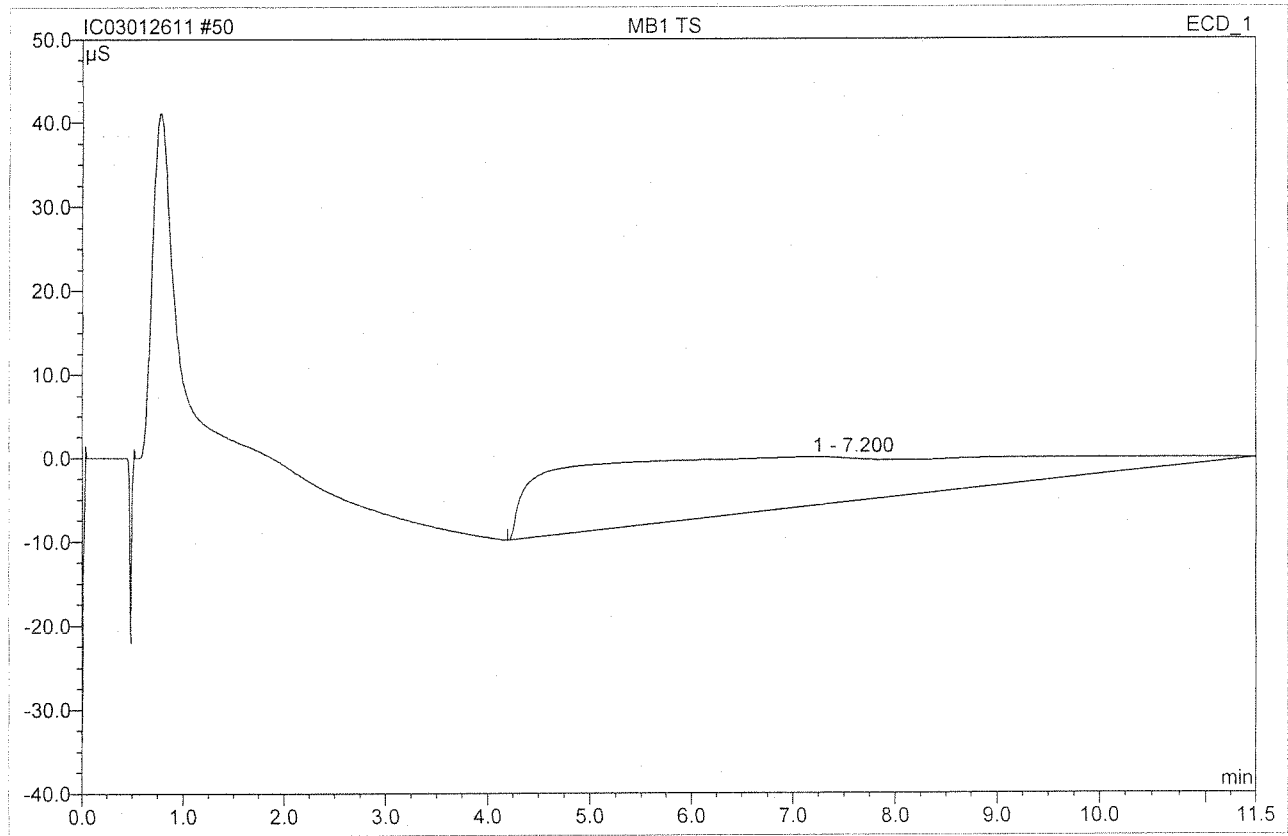
Sample Name:	SPKCHK AN11-75-O	Injection Volume:	200.0
Vial Number:	18	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	1.0000
Recording Time:	1/26/2011 10:50	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	1.62	Fluoride	54.165	8.154	18.10	4.044	BM
2	2.52	Chloride	30.220	5.211	11.57	3.541	Mb
3	3.12	Nitrite	55.922	11.154	24.75	3.886	bMb
4	4.02	Bromide	9.799	1.952	4.33	3.903	bMb
5	4.65	Nitrate	59.203	15.004	33.30	4.168	bMB
6	8.55	Sulfate	9.247	3.583	7.95	3.777	BMB
Total:			218.557	45.057	100.00	23.319	

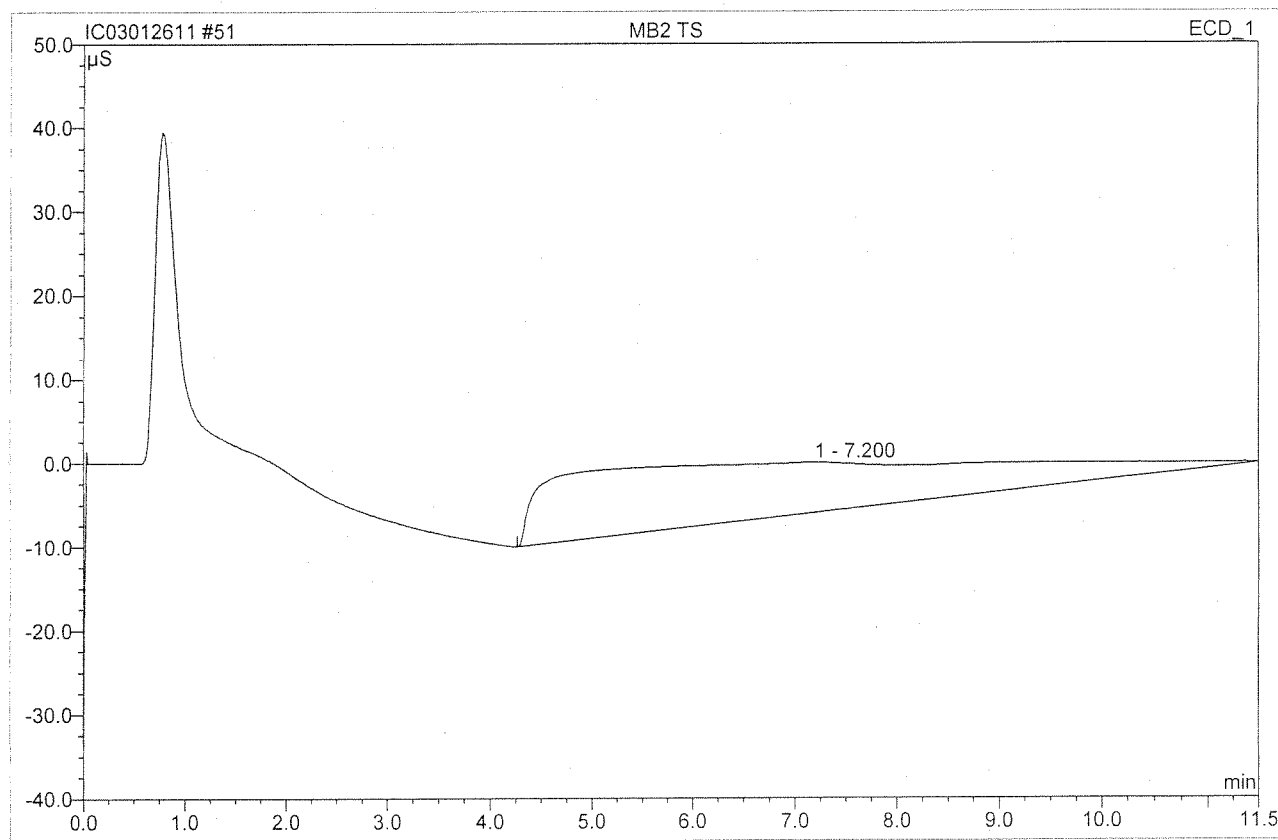
TV=4.0

50 MB1 TS			
Sample Name:	MB1 TS	Injection Volume:	200.0
Vial Number:	45	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/26/2011 18:46	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



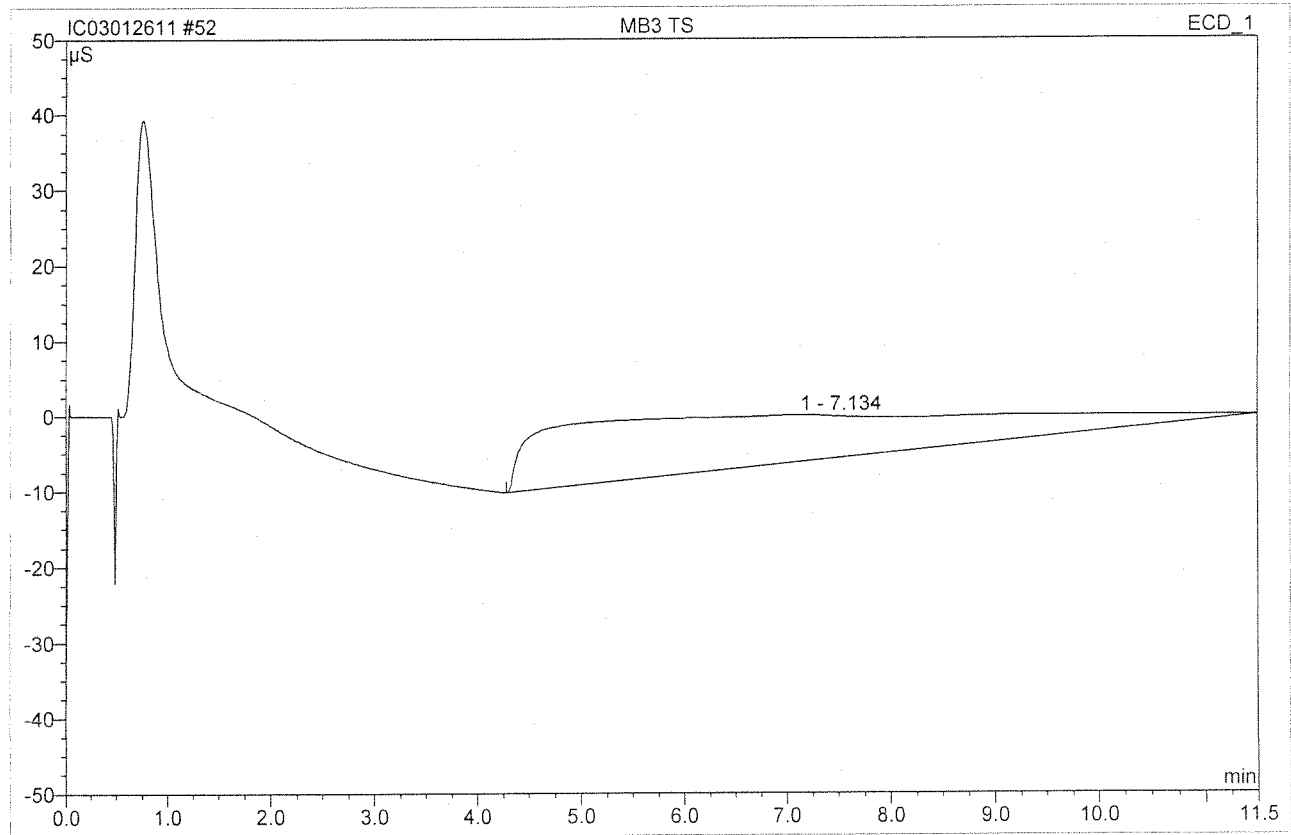
No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	7.20	n.a.	5.855	32.698	100.00	n.a.	BMB
Total:			5.855	32.698	100.00	0.000	

51 MB2 TS			
Sample Name:	MB2 TS	Injection Volume:	200.0
Vial Number:	46	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/26/2011 19:00	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



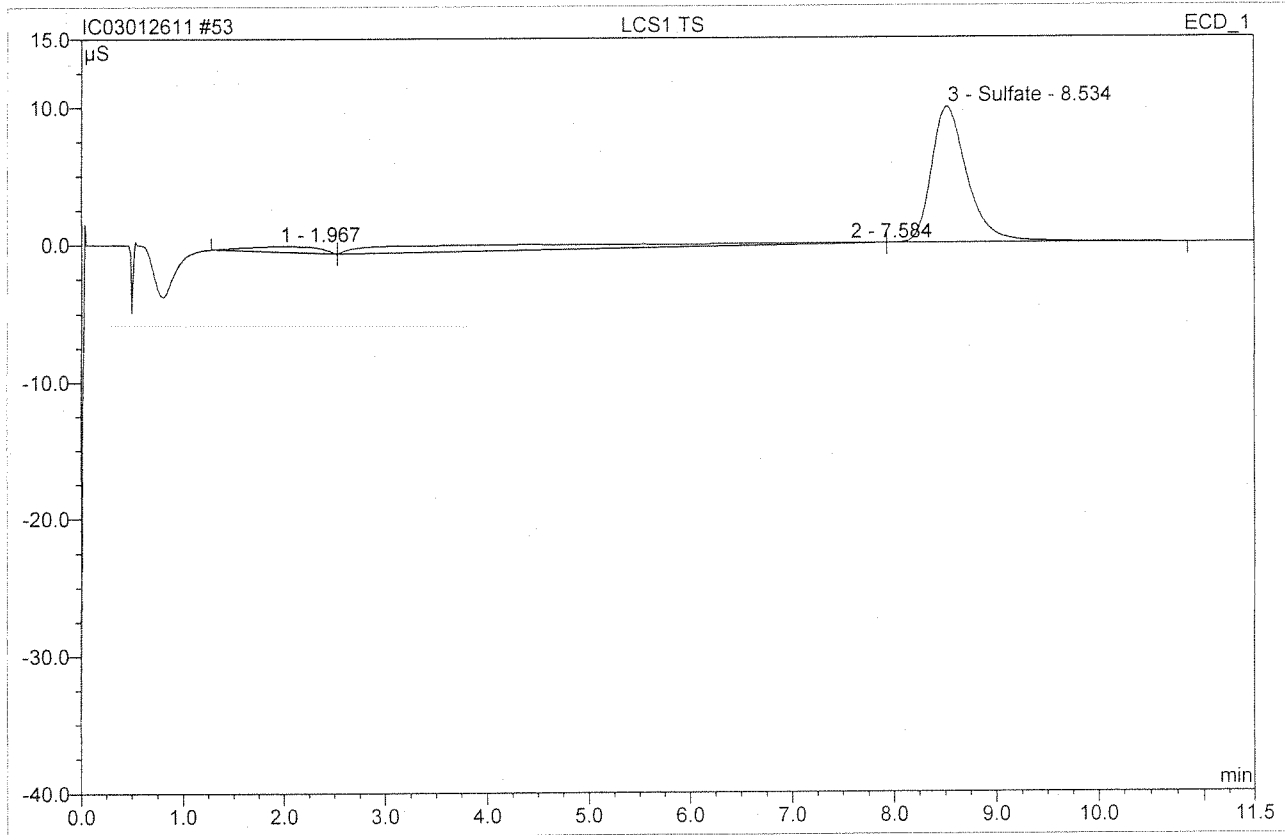
No.	Ret.Time min	Peak Name	Height μS	Area μS*min	Rel.Area %	Amount	Type
1	7.20	n.a.	5.984	32.887	100.00	n.a.	BMB
Total:			5.984	32.887	100.00	0.000	

52 MB3 TS			
Sample Name:	MB3 TS	Injection Volume:	200.0
Vial Number:	47	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	2.0000
Recording Time:	1/26/2011 19:14	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	7.13	n.a.	6.216	33.406	100.00	n.a.	BMB
Total:			6.216	33.406	100.00	0.000	

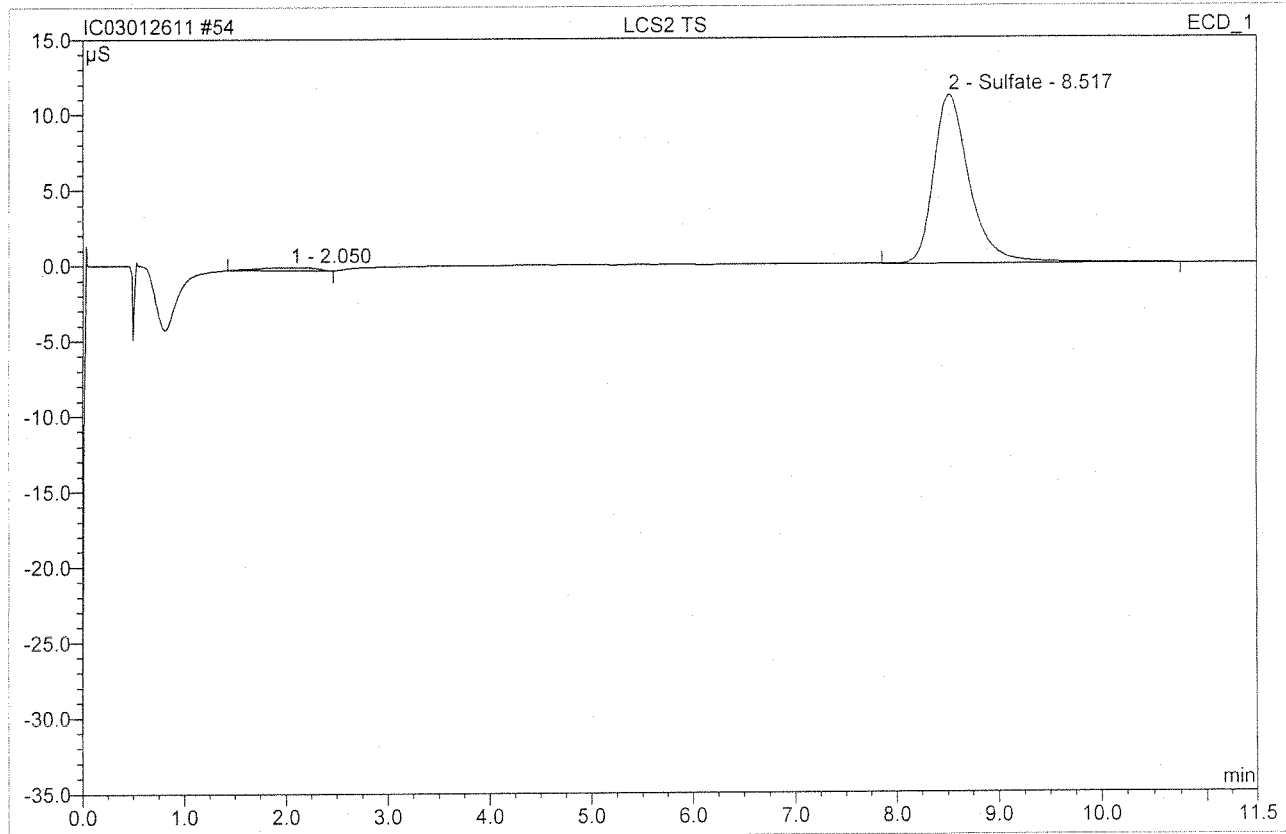
53 LCS1 TS			
Sample Name:	LCS1 TS	Injection Volume:	200.0
Vial Number:	48	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	100.0000
Recording Time:	1/26/2011 19:28	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	1.97	n.a.	0.401	0.347	5.94	n.a.	BMB
2	7.58	n.a.	0.050	1.481	25.36	n.a.	bMB
3	8.53	Sulfate	9.876	4.013	68.70	423.038	bMB
Total:			10.326	5.841	100.00	423.038	

54 LCS2 TS

Sample Name:	LCS2 TS	Injection Volume:	200.0
Vial Number:	49	Channel:	ECD_1
Sample Type:	unknown	Wavelength:	n.a.
Control Program:	epa300	Bandwidth:	n.a.
Quantif. Method:	epa300	Dilution Factor:	200.0000
Recording Time:	1/26/2011 19:42	Sample Weight:	1.0000
Run Time (min):	11.50	Sample Amount:	1.0000



No.	Ret.Time min	Peak Name	Height µS	Area µS*min	Rel.Area %	Amount	Type
1	2.05	n.a.	0.207	0.142	3.06	n.a.	BMB
2	8.52	Sulfate	11.166	4.514	96.94	951.714	BMB
Total:			11.373	4.657	100.00	951.714	

Work Request # ^{Original} (K486) K588 K595 K636 K659 ~~K661~~
 Tier: IIA T II II II IV
 Date Analyzed: 01/26/11
 Analyst: Howe MW
 Analysis: NH₃-N - 350.1/SM 4500-NH₃ G

233907

**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: BOK Date: 1/27/11 DOREPORT

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 233907

Method/Testcode: SM 4500-NH3 G/Ammonia

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
00586-002	Ammonia as Nitrogen	N/A		Water	1.37 mg/L	5 mL	1.37 mg/L	1	0.02	0.10			1/26/11 12:51	N V
00588-001	Ammonia as Nitrogen	N/A		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N I
100588-002	Ammonia as Nitrogen	N/A		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N I
100595-001	Ammonia as Nitrogen	N/A		Water	0.06 mg/L	5 mL	0.060 mg/L	1	0.020	0.050			1/26/11 12:51	N II
100595-003	Ammonia as Nitrogen	N/A		Water	0.30 mg/L	5 mL	0.296 mg/L	1	0.020	0.050			1/26/11 12:51	N II
100595-004	Ammonia as Nitrogen	N/A		Water	0.69 mg/L	5 mL	0.690 mg/L	1	0.020	0.050			1/26/11 12:51	N II
100636-004	Ammonia as Nitrogen	N/A		Water	1.08 mg/L	5 mL	5.42 mg/L	5	0.10	0.25			1/26/11 12:51	N II
100636-006	Ammonia as Nitrogen	N/A		Water	0.37 mg/L	5 mL	0.365 mg/L	1	0.020	0.050			1/26/11 12:51	N II
100659-001	Ammonia as Nitrogen	N/A		Water	1.37 mg/L	5 mL	1.37 mg/L	1	0.020	0.050			1/26/11 12:51	N II
100659-002	Ammonia as Nitrogen	N/A		Water	1.37 mg/L	5 mL	6.85 mg/L	5	0.10	0.25			1/26/11 12:51	N II
100661-001	Ammonia as Nitrogen, Dissolved	N/A		Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N IV
100661-002	Ammonia as Nitrogen, Dissolved	N/A		Water	-0.03 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N IV
100661-003	Ammonia as Nitrogen, Dissolved	N/A		Water	2.31 mg/L	5 mL	2.31 mg/L	1	0.020	0.050			1/26/11 12:51	N IV
100661-004	Ammonia as Nitrogen, Dissolved	N/A		Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N IV
100661-005	Ammonia as Nitrogen, Dissolved	N/A		Water	-0.02 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N IV
100661-006	Ammonia as Nitrogen, Dissolved	N/A		Water	-0.03 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N IV
100661-007	Ammonia as Nitrogen, Dissolved	N/A		Water	-0.03 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N IV
21100751-01	Ammonia as Nitrogen	MB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N I
21100751-01	Ammonia as Nitrogen	MB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N I
21100751-01	Ammonia as Nitrogen, Dissolved	MB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N I
21100751-02	Ammonia as Nitrogen	LCS		Reagent Water	2.87 mg/L	5 mL	2.87 mg/L	1	0.020	0.050			1/26/11 12:51	N I
21100751-02	Ammonia as Nitrogen, Dissolved	LCS		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050			1/26/11 12:51	N I
21100751-03	Ammonia as Nitrogen	CCB		Reagent Water	2.87 mg/L	5 mL	2.87 mg/L	1	0.020	0.050			1/26/11 12:51	N I
21100751-03	Ammonia as Nitrogen, Dissolved	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			1/26/11 12:51	N I
21100751-04	Ammonia as Nitrogen	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L	U 1	0.050	0.050			1/26/11 12:51	N I

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 3

01/26/11
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Analytical Results Summary

Instrument Name: K-FLA-01

Analyst: THANGANU

Analysis Lot: 233907

Method/Testcode: SM 4500-NH3 G/Ammonia

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
1100751-04	Ammonia as Nitrogen	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-04	Ammonia as Nitrogen, Dissolved	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-05	Ammonia as Nitrogen	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-05	Ammonia as Nitrogen, Dissolved	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-06	Ammonia as Nitrogen	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-06	Ammonia as Nitrogen, Dissolved	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-07	Ammonia as Nitrogen	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-07	Ammonia as Nitrogen, Dissolved	CCB		Reagent Water	-0.04 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-08	Ammonia as Nitrogen	CCB		Reagent Water	-0.05 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-08	Ammonia as Nitrogen, Dissolved	CCB		Reagent Water	-0.05 mg/L	5 mL	0.050 mg/L U	1	0.050	0.050			1/26/11 12:51	N 1
1100751-09	Ammonia as Nitrogen	CCV		Reagent Water	1.97 mg/L	5 mL	1.97 mg/L	1	0.050	0.050			1/26/11 12:51	N 1
1100751-09	Ammonia as Nitrogen, Dissolved	CCV		Reagent Water	1.97 mg/L	5 mL	1.97 mg/L	1	0.050	0.050			1/26/11 12:51	N 1
1100751-10	Ammonia as Nitrogen	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.050	0.050			1/26/11 12:51	N 1
1100751-10	Ammonia as Nitrogen, Dissolved	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.050	0.050			1/26/11 12:51	N 1
1100751-11	Ammonia as Nitrogen	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.050	0.050			1/26/11 12:51	N 1
1100751-11	Ammonia as Nitrogen, Dissolved	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.050	0.050			1/26/11 12:51	N 1
1100751-12	Ammonia as Nitrogen	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.050	0.050			1/26/11 12:51	N 1

230

98%

01/26/11
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indicates Final Result is not yet adjusted for Solids because it has not yet been determined.

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 233907

Method/Testcode: SM 4500-NH3 G/Ammonia

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
1100751-12	Ammonia as Nitrogen	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050	98	<1	1/26/11 12:51	N I
1100751-12	Ammonia as Nitrogen, Dissolved	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050	97	<1	1/26/11 12:51	N I
1100751-13	Ammonia as Nitrogen	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050	98	<1	1/26/11 12:51	N I
1100751-13	Ammonia as Nitrogen, Dissolved	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050	97	<1	1/26/11 12:51	N I
1100751-14	Ammonia as Nitrogen	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050	99	<1	1/26/11 12:51	N I
1100751-14	Ammonia as Nitrogen, Dissolved	CCV		Reagent Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050	102	<1	1/26/11 12:51	N I
1100751-15	Ammonia as Nitrogen	MS	K1100586-002	Water	3.35 mg/L	5 mL	3.35 mg/L	1	0.020	0.050	99	<1	1/26/11 12:51	N V
1100751-16	Ammonia as Nitrogen	DMS	K1100586-002	Water	3.41 mg/L	5 mL	3.41 mg/L	1	0.020	0.050	102	<1	1/26/11 12:51	N V
1100751-17	Ammonia as Nitrogen	DUP	K1100586-002	Water	1.37 mg/L	5 mL	1.37 mg/L	1	0.020	0.050	97	<1	1/26/11 12:51	N V
1100751-18	Ammonia as Nitrogen, Dissolved	MS	K1100661-001	Water	1.95 mg/L	5 mL	1.95 mg/L	1	0.020	0.050	97	<1	1/26/11 12:51	N IV
1100751-19	Ammonia as Nitrogen, Dissolved	DMS	K1100661-001	Water	1.96 mg/L	5 mL	1.96 mg/L	1	0.020	0.050	98	<1	1/26/11 12:51	N IV
1100751-20	Ammonia as Nitrogen, Dissolved	DUP	K1100661-001	Water	-0.05 mg/L	5 mL	0.050 mg/L	U 1	0.020	0.050	NC	<1	1/26/11 12:51	N IV

LES ID#: PD_{3/3}-79-E TV=2.81
 Spike ID#: B+LNH₃/-86-FF TV=2.00
 Curve, CV ID#: B+LNH₃/-57-A TV=2.00
 MB MS = 2.00

RPK
 112711

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

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Post-run report

Name of Run : 110126A
 Date of Report : 1/26/2011
 Date of Run : 1/26/2011
 Operator :
 Comment :

Name of Analysis : Ammonia
 System No. : 1
 Type of System : AA3
 Start/Stop time : 12:51 - 14:13

Channel : 2
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. : 0.9998
 Base : -24459
 Gain : 22
 Sensitivity : 0.3775
 Sample Limit 1 :
 Sample Limit 2 :

BOK
1/27/11

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0418
1	1	P Primer	4.9824
2	1	D Drift	4.9992
3	1	C 5.00	5.0081
4	2	C 2.00	1.9784
5	3	C 0.50	0.4887
6	4	C 0.05	0.1105
7	5	C 0	-0.0357
8	0	B Baseline	-0.0418
9	1	H1 High	5.0183
10	0	L1 Low	-0.0362
11	0	L1 Low	-0.0361
12	5	QC2 CCB1	-0.0360
13	2	QC1 CCV1	1.9670
14	10	QC3 LCS1*10	2.8730
15	11	S MB MS	1.9337
16	0	N Null	-0.0334N
17	5	QC2 MB1	-0.0371
18	12	S k1100588-001	-0.0393
19	13	S k1100588-002	-0.0428
20	14	S k1100586-002	1.3743
21	15	S k1100586-002d	1.3684
22	16	S k1100586-002ms	3.3536
23	0	B baseline	-0.0418
24	5	QC2 CCB2	-0.0419
25	2	QC1 CCV2	1.9618
26	17	S k1100586-002msd	3.4092

01/26/11
Henry

OTH 01/26/11

BRAN+LUEBBE AACE 6.02

27	18	S	k1100595-001	0:0603	
28	19	S	k1100595-003	0.2958	
29	20	S	k1100595-004	0.6904	
30	21	S	k1100636-004	5.2064	} NR
31	22	S	k1100636-006	0.3476	} NR
32	23	S	k1100659-001	1.3678	
33	24	S	k1100659-002	6.8527*	} NR
34	25	S	rinse	-0.0317	
35	0	B	BASELINE	-0.0418	
36	5	QC2	CCB-3	-0.0394	
37	2	QC1	CCV-3	1.9637	
38	26	S	k1100661-001	-0.0375	} NR
39	27	S	k1100661-001d	0.0943	} NR
40	28	S	k1100661-001ms	1.9454	
41	29	S	k1100661-001msd	1.9600	
42	30	S	k1100661-002	-0.0304	
43	31	S	k1100661-003	2.3147	
44	32	S	k1100661-004	-0.0364	
45	33	S	k1100661-005	-0.0170	
46	34	S	k1100661-006	-0.0341	
47	0	B	Baseline	-0.0418	
48	5	QC2	CCB4	-0.0391	
49	2	QC1	CCV4	1.9645	
50	35	S	k1100661-007	-0.0341	
51	22	S	k1100626-006 k1100636-006	0.3651	
52	36	S	k1100636-004*5	1.0837	
53	37	S	k1100659-002*5	1.3697	
54	0	B	Baseline	-0.0418	
55	5	QC2	CCB5	-0.0416	
56	2	QC1	CCV5	1.9593	
57	1	D	Drift	4.9992	
58	0	B	Baseline	-0.0418	
59	38	S	k1100661-001	-0.0407	
60	39	S	k1100661-001d	-0.0482	
61	40	S	k1100661-003	2.2791	} NR
62	5	QC2	Quality Cup CCG	-0.0452	
63	2	QC1	Quality Cup CCV6	1.9623	
64	1	D	Drift	4.9992	
65	0	B	Baseline	-0.0418	
66	0	B	FinalBase	-0.0418	

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	

01/26/11

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> **

01/26/11
Huang

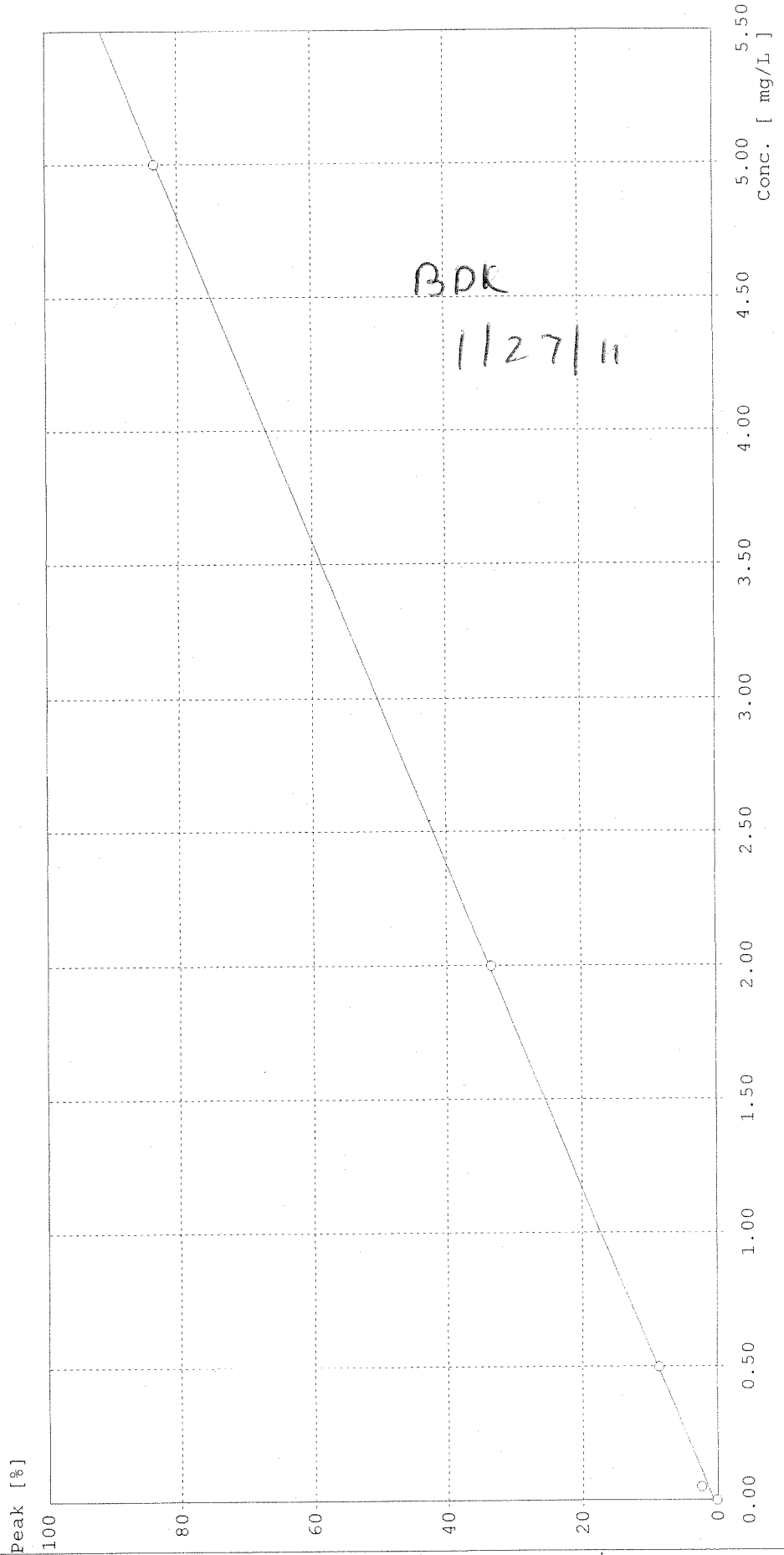
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Calibration Curve

Name of run : 110126A.run
Comment :

Name of analysis : Ammonia

Channel : 2
Method : Method 2
Curve fit : linear
Corr. coeff. : 0.9998
a=-3.6243E-001 b=9.2303E-005



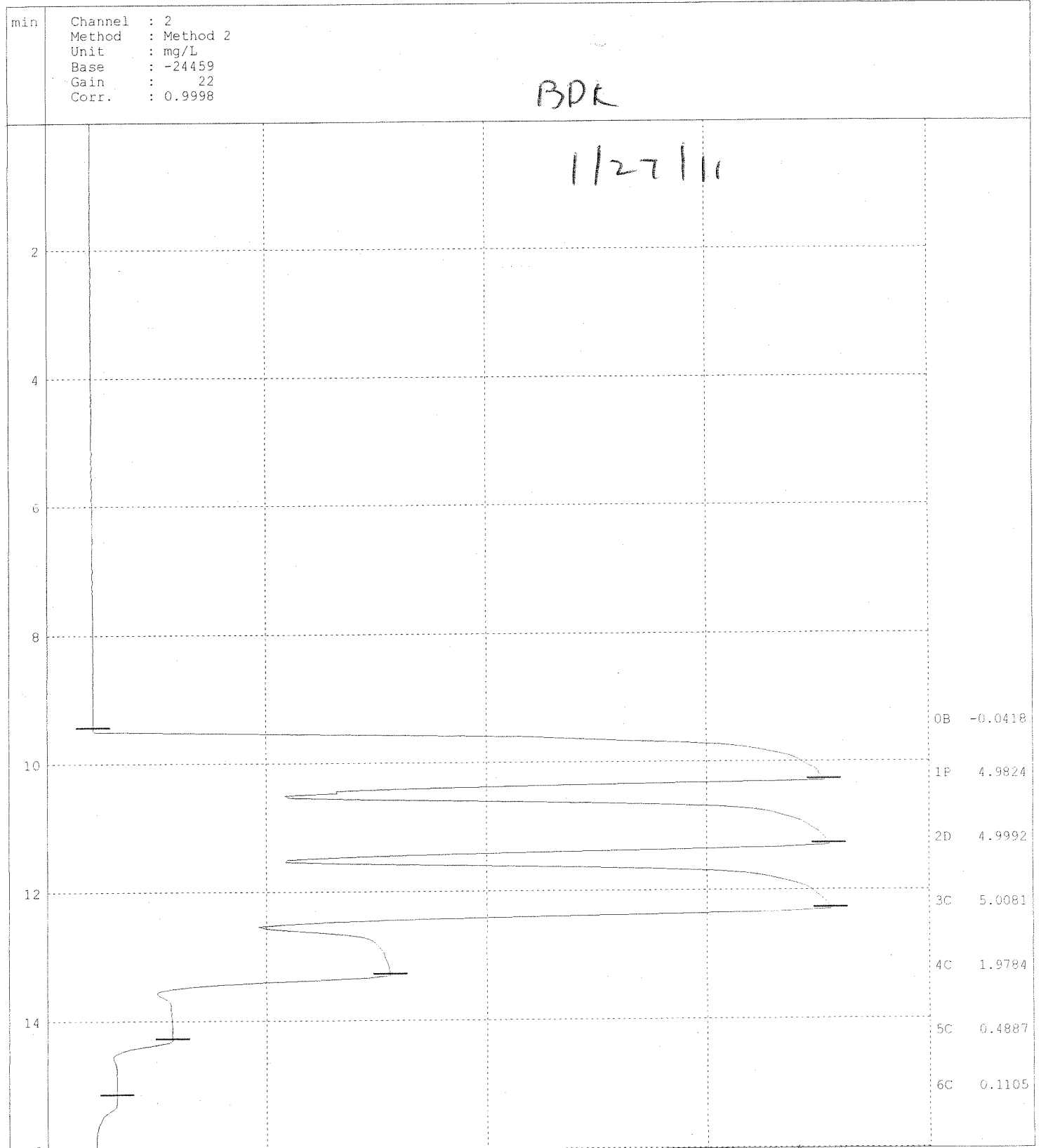
*01/26/11
Tracy*

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Post-run chart

Name of run : 110126A.RUN
Comment :

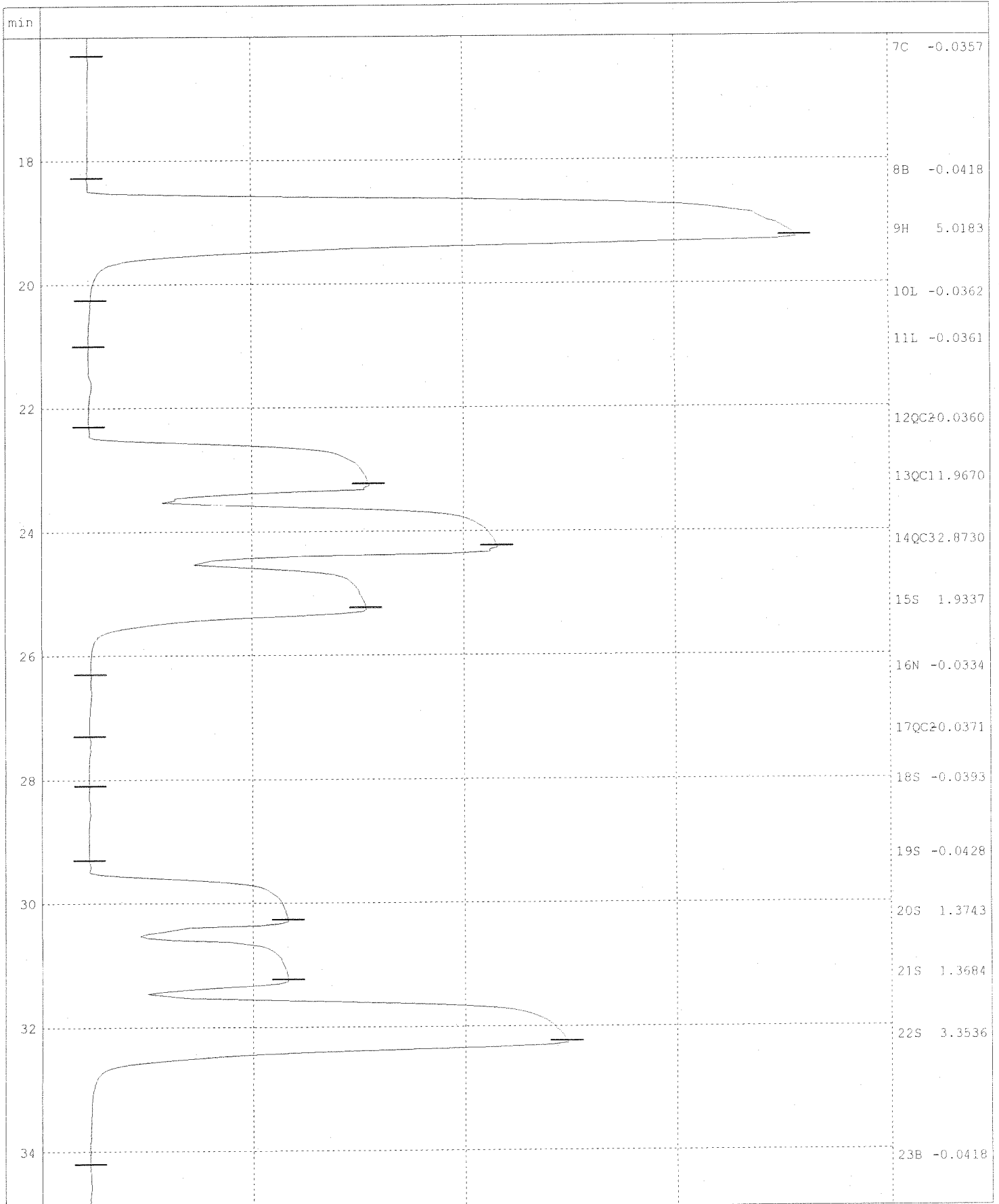
Name of analysis : Ammonia



01/26/11
Thompson

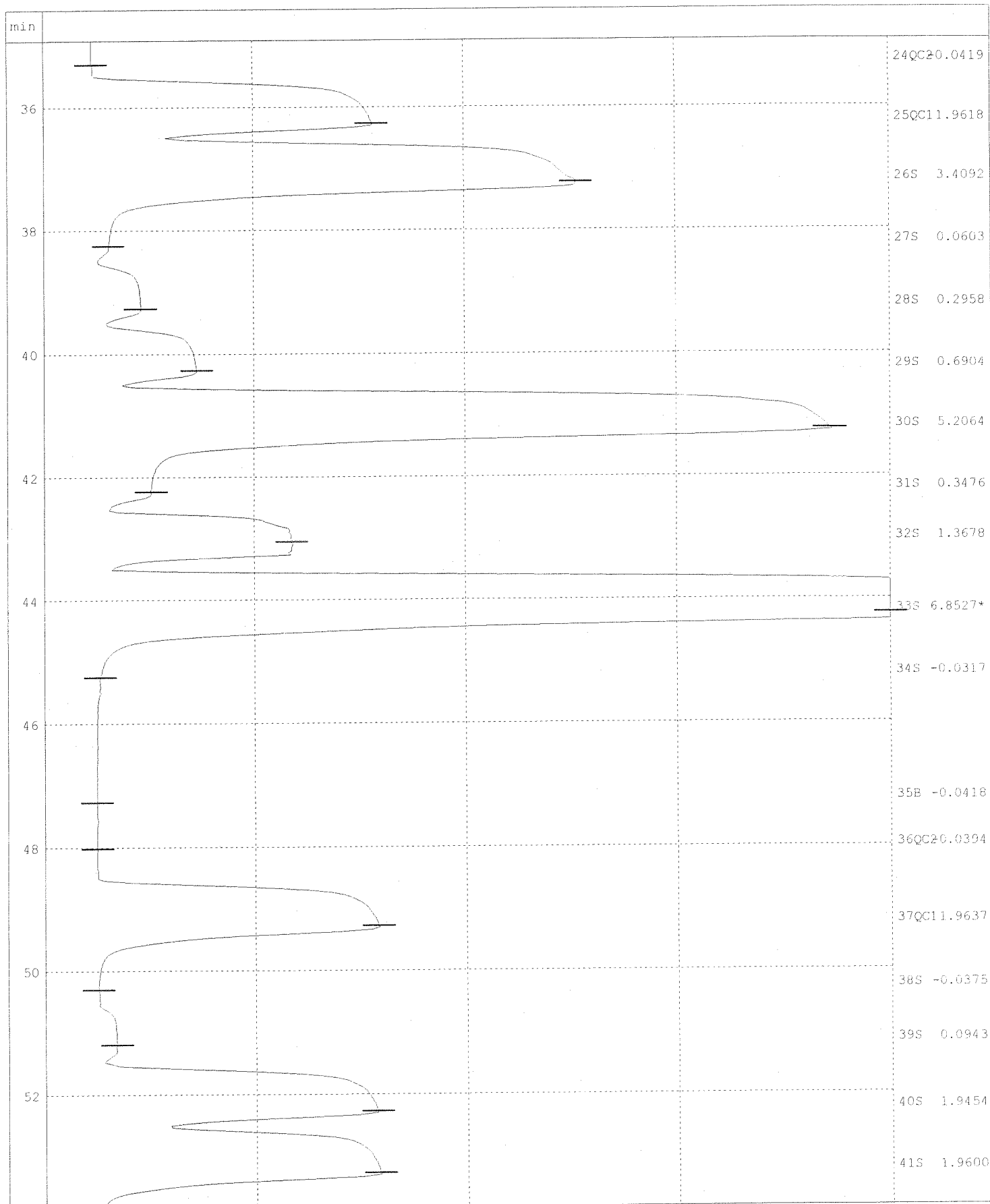
Name of run : 110126A.RUN
 Comment :

Name of analysis : Ammonia



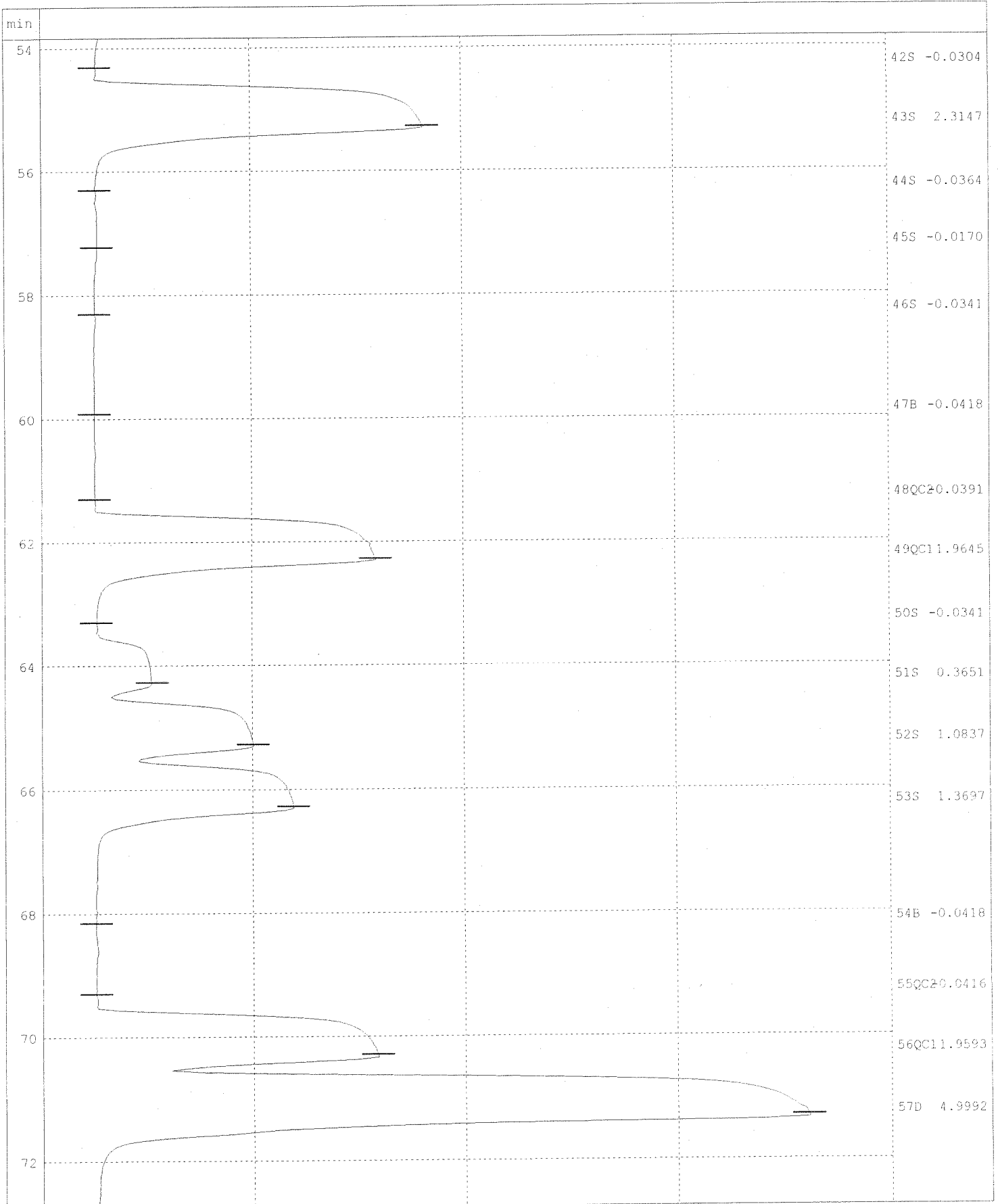
Name of run :110126A.RUN
Comment :

Name of analysis :Ammonia



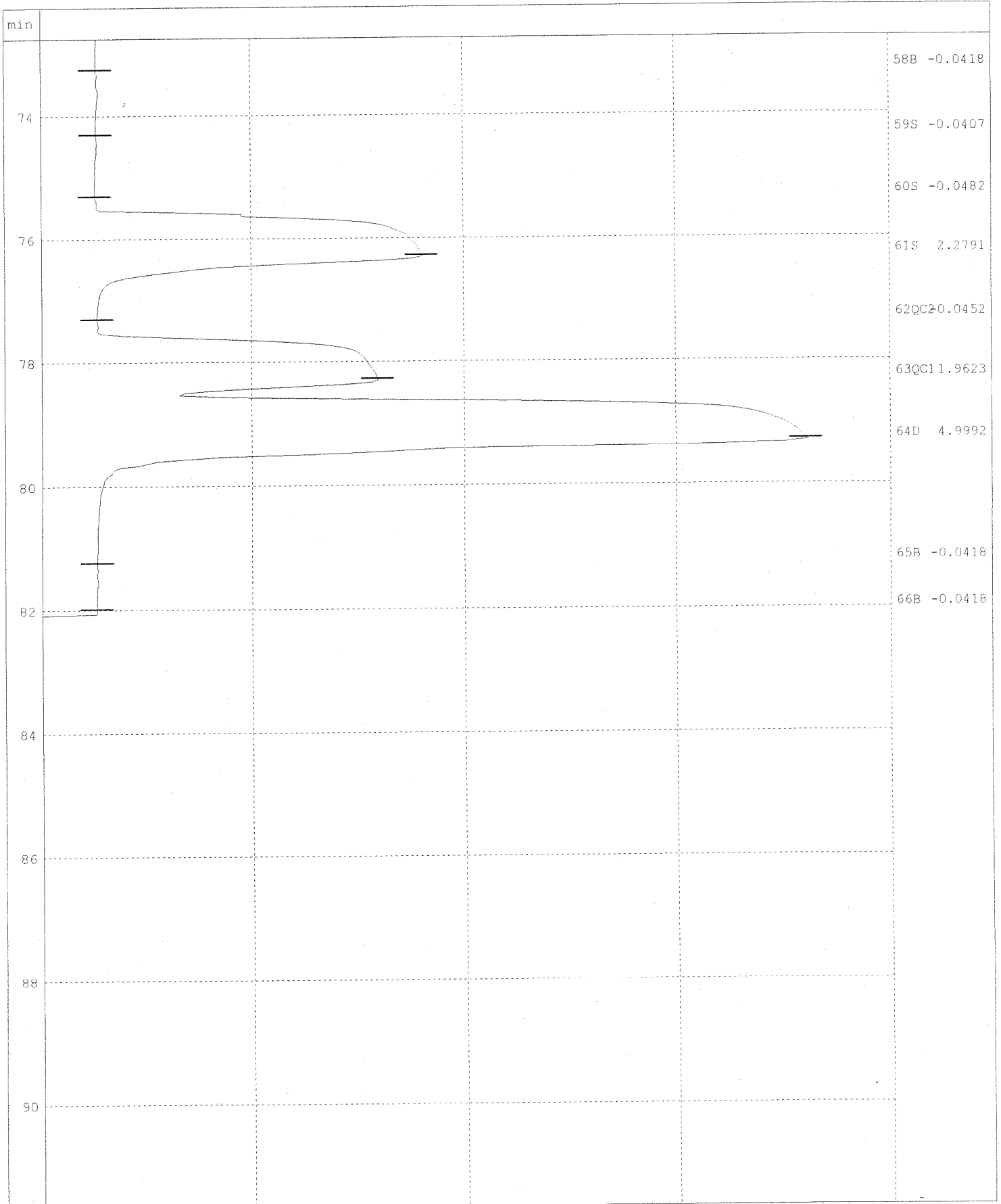
Name of run : 110126A.RUN
 Comment :

Name of analysis : Ammonia



Name of run :110126A.RUN
Comment :

Name of analysis :Ammonia



Diss,
Original

Work Request # (K661)

Tier: III

Date Analyzed: 01/25/11

Analyst: Hawyer

Analysis: NO₂-M - 353.2

233686

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?
 - 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: 1/22/11 DOREPORT

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot:

233686

Method/Testcode: 353.2/NO2 (D199)

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
1100661-001	Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 ml	0.050 mg/L	U 1	0.005	0.050			1/25/11 10:19	N IV
1100661-002	Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 ml	0.032 mg/L	J 1	0.005	0.050			1/25/11 10:19	N IV
1100661-003	Nitrite as Nitrogen	N/A		Water	0.02 mg/L	5 ml	0.021 mg/L	J 1	0.005	0.050			1/25/11 10:19	N IV
1100661-004	Nitrite as Nitrogen	N/A		Water	0.01 mg/L	5 ml	0.012 mg/L	J 1	0.005	0.050			1/25/11 10:19	N IV
1100661-005	Nitrite as Nitrogen	N/A		Water	0.01 mg/L	5 ml	0.011 mg/L	J 1	0.005	0.050			1/25/11 10:19	N IV
1100661-006	Nitrite as Nitrogen	N/A		Water	0.01 mg/L	5 ml	0.010 mg/L	J 1	0.005	0.050			1/25/11 10:19	N IV
1100661-007	Nitrite as Nitrogen	N/A		Water	0.01 mg/L	5 ml	0.010 mg/L	J 1	0.005	0.050			1/25/11 10:19	N IV
Q1100697-01	Nitrite as Nitrogen	MS	K1100661-001	Water	2.05 mg/L	5 ml	2.05 mg/L	1	0.005	0.050	102		1/25/11 10:19	N IV
Q1100697-02	Nitrite as Nitrogen	DMS	K1100661-001	Water	2.04 mg/L	5 ml	2.04 mg/L	1	0.005	0.050	102	<1	1/25/11 10:19	N IV
Q1100697-03	Nitrite as Nitrogen	DUP	K1100661-001	Water	0.01 mg/L	5 ml	0.008 mg/L	J 1	0.005	0.050		NC	1/25/11 10:19	N IV
Q1100697-04	Nitrite as Nitrogen	MB		Water	0.00 mg/L	5 ml	0.050 mg/L	U 1	0.005	0.050			1/25/11 10:19	N IV
Q1100697-05	Nitrite as Nitrogen	LCS		Water	4.03 mg/L	5 ml	4.03 mg/L	1	0.005	0.050	101		1/25/11 10:19	N IV
Q1100697-06	Nitrite as Nitrogen	CCB		Water	0.01 mg/L	5 ml	0.050 mg/L	U 1	0.050	0.050			1/25/11 10:19	N IV
Q1100697-07	Nitrite as Nitrogen	CCB		Water	0.01 mg/L	5 ml	0.050 mg/L	U 1	0.050	0.050			1/25/11 10:19	N IV
Q1100697-08	Nitrite as Nitrogen	CCB		Water	0.01 mg/L	5 ml	0.050 mg/L	U 1	0.050	0.050			1/25/11 10:19	N IV
Q1100697-09	Nitrite as Nitrogen	CCV		Water	1.98 mg/L	5 ml	1.98 mg/L	1	99%				1/25/11 10:19	N IV
Q1100697-10	Nitrite as Nitrogen	CCV		Water	2.01 mg/L	5 ml	2.01 mg/L	1	101%				1/25/11 10:19	N IV
Q1100697-11	Nitrite as Nitrogen	CCV		Water	2.01 mg/L	5 ml	2.01 mg/L	1	101%				1/25/11 10:19	N IV

LCS ID#: AN/1/- 33-X T.V. = 4.00
 Spike ID#: B+LN₂/- 99-V T.V. = 2.00
 Blank, CCV ID#: B+LN₂/- 70-A T.V. = 2.00

01/25/11
 Thompson

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

BRAN+LUEBBE

Post-run report

Name of Run : 110125C
 Date of Report : 1/25/2011
 Date of Run : 1/25/2011
 Operator :
 Comment :

Name of Analysis : Nitrite
 System No. : 1
 Type of System : AA3
 Start/Stop time : 10:19 - 11:04

Channel : 2
 Method : Method 2
 Unit :
 Calibr. Fit : Linear
 Corr. Coeff. : 1.0000
 Base : -26051
 Gain : 5
 Sensitivity : 1.5820
 Sample Limit 1 :
 Sample Limit 2 :

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0011
1	1	P Primer	4.9705
2	1	D Drift	5.0016
3	1	C 5.00	4.9987
4	2	C 2.00	2.0045
5	3	C 0.50	0.4953
6	4	C 0.05	0.0487
7	5	C 0	0.0029
8	1	H1 High	4.9822
9	0	L1 Low	0.0113
10	0	L1 Low	0.0013
11	5	QC2 CCB1	0.0056
12	2	QC1 CCV1	1.9770
13	10	QC3 LCS1	4.0333
14	0	N Null	0.0098N
15	5	QC2 MB1	0.0048
16	11	S k1100661-001	0.0016
17	12	S k1100661-001d	0.0079
18	13	S k1100661-001ms	2.0476
19	14	S k1100661-001msd	2.0447
20	15	S k1100661-002	0.0323
21	16	S k1100661-003	0.0205
22	0	B Baseline	0.0034
23	5	QC2 CCB2	0.0114
24	2	QC1 CCV2	2.0083
25	17	S k1100661-004	0.0123
26	18	S k1100661-005	0.0110

01/25/11
Fluor

27	19	S	k1100661-006	0.0095
28	20	S	k1100661-007	0.0096
29	0	B	Baseline	0.0060
30	5	QC2	CCB3	0.0116
31	2	QC1	CCV3	2.0057
32	1	D	Drift	5.0443
33	0	B	Baseline	0.0096
34	0	B	FinalBase	0.0089

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	:	No
Drift	:	No
Carry over	:	No
%:		0.0

* ... 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> **

01/25/11
Huang

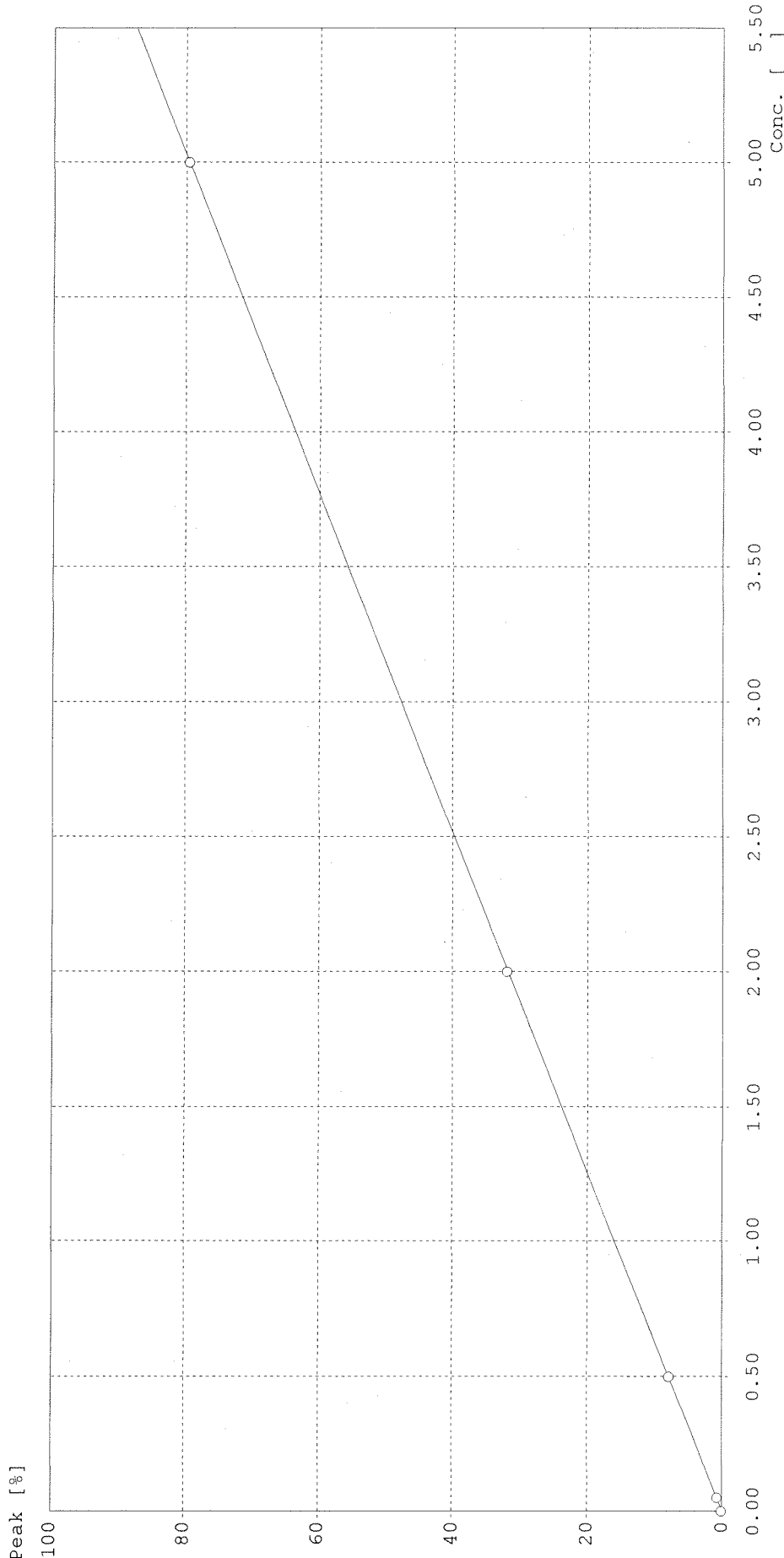
BRAN+LUEBBE

Calibration Curve

Name of run :110125C.run
Comment :

Name of analysis :Nitrite

Channel :2
Method :Method 2
Curve fit :linear a=-3.0656E-001 b=9.5901E-005
Corr. coeff. :1.0000



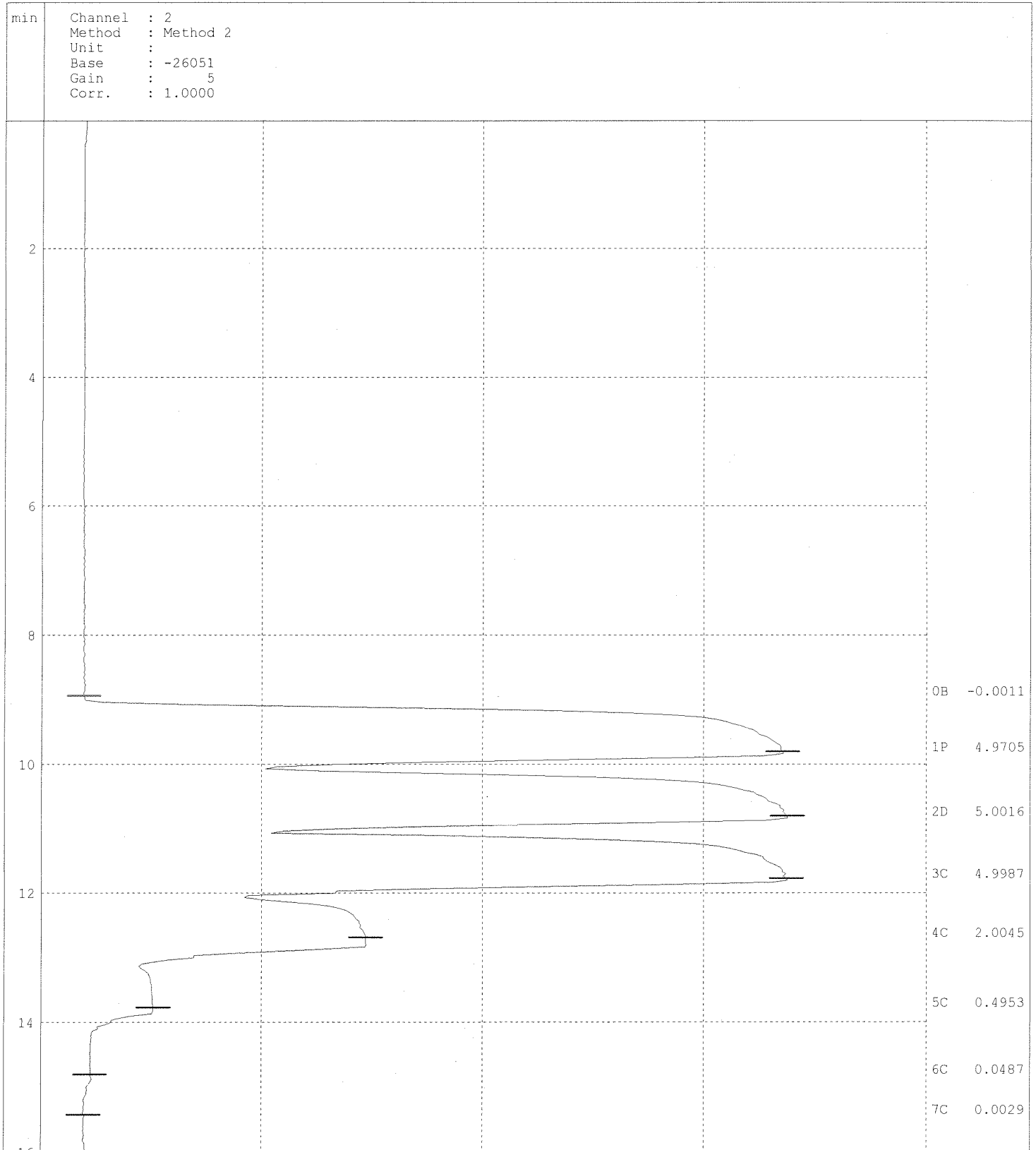
01/25/11
Haugen

BRAN+LUEBBE

Post-run chart

Name of run :110125C.RUN
Comment :

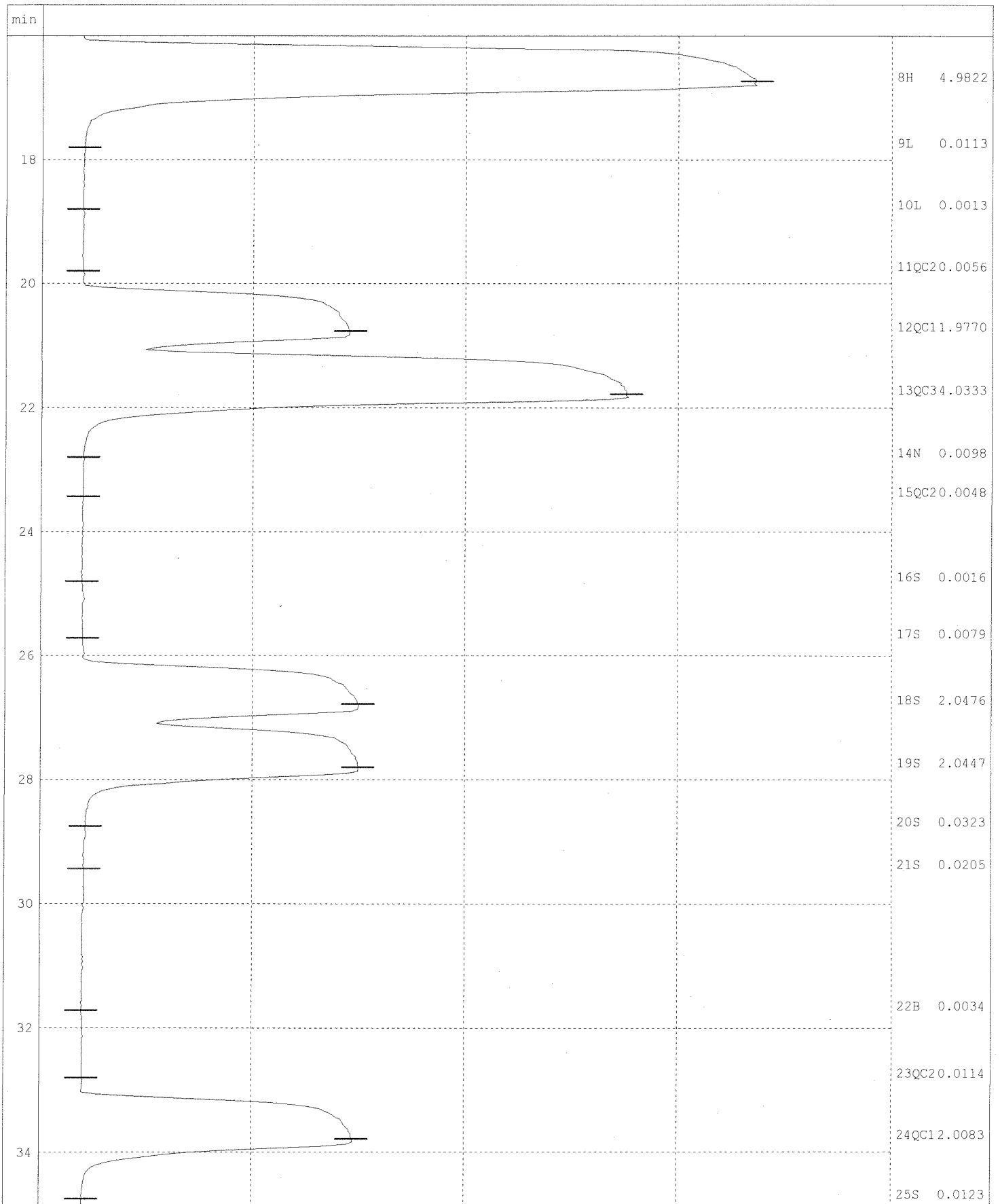
Name of analysis :Nitrite



*01/25/11
Thullus*

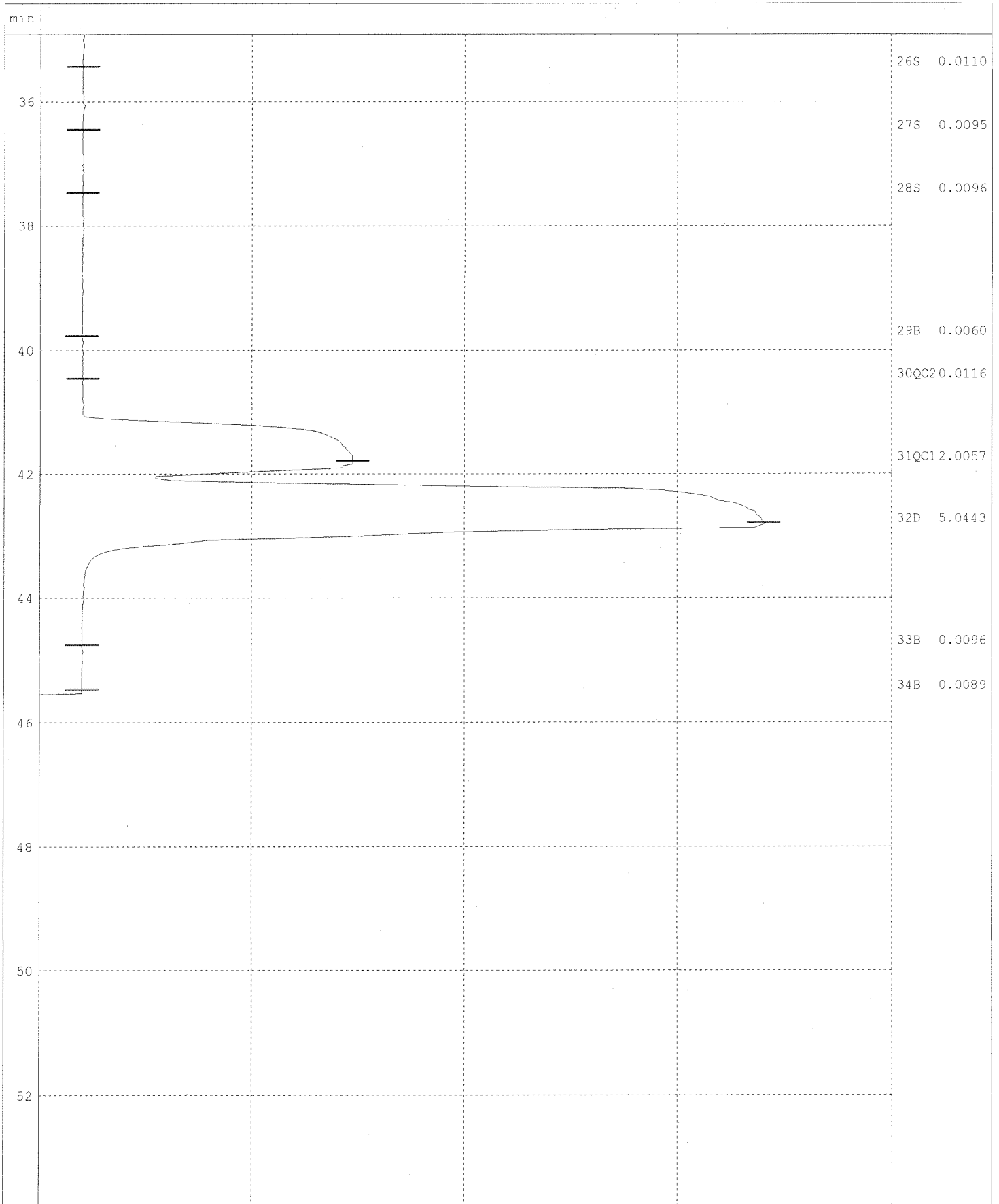
Name of run :110125C.RUN
Comment :

Name of analysis :Nitrite



Name of run :110125C.RUN
Comment :

Name of analysis :Nitrite



Original
 Work Request # (K659) K661 K726
 Tier: II IV V
 Date Analyzed: 01/27/11
 Analyst: Fruryu
 Analysis: NO₂/NO₃-N = 353.2

234048

**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:

K726 - Rush - due date: 02/05/11

Final Approved by: H Date: 1/28/11
 DQREPORT

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: THANGANU

Analysis Lot: 234048

Method/Testcode: 353.2/NO2 NO3 T

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	POL	% Rec	% RSD	Date Analyzed	QC? Tier
00659-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.20 mg/L	5 mL	0.197 mg/L	1	0.009	0.050			1/27/11 10:30:09	N II
00659-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.32 mg/L	5 mL	0.323 mg/L	1	0.009	0.050			1/27/11 10:30:09	N II
00661-001	Nitrate+Nitrite as Nitrogen	N/A		Water	1.79 mg/L	5 mL	1.79 mg/L	10	0.09	0.50			1/27/11 10:30:09	N IV
00661-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.94 mg/L	5 mL	9.36 mg/L	10	0.09	0.50			1/27/11 10:30:09	N IV
00661-005	Nitrate+Nitrite as Nitrogen	N/A		Water	1.41 mg/L	5 mL	7.05 mg/L	5	0.05	0.25			1/27/11 10:30:09	N IV
00661-006	Nitrate+Nitrite as Nitrogen	N/A		Water	0.01 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			1/27/11 10:30:09	N IV
00661-007	Nitrate+Nitrite as Nitrogen	N/A		Water	0.15 mg/L	5 mL	0.146 mg/L	1	0.009	0.050			1/27/11 10:30:09	N IV
00726-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.16 mg/L	5 mL	0.162 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
00726-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.04 mg/L	5 mL	0.036 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
00726-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.16 mg/L	5 mL	0.162 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
00726-004	Nitrate+Nitrite as Nitrogen	N/A		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
00726-005	Nitrate+Nitrite as Nitrogen	N/A		Water	0.05 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
00726-006	Nitrate+Nitrite as Nitrogen	N/A		Water	0.06 mg/L	5 mL	0.061 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
1100789-01	Nitrate+Nitrite as Nitrogen	MS	K1100661-001	Water	3.84 mg/L	5 mL	38.4 mg/L	10	0.09	0.50			1/27/11 10:30:09	N IV
1100789-02	Nitrate+Nitrite as Nitrogen	DMS	K1100661-001	Water	3.82 mg/L	5 mL	38.2 mg/L	10	0.09	0.50			1/27/11 10:30:09	N IV
1100789-03	Nitrate+Nitrite as Nitrogen	DUP	K1100661-001	Water	1.81 mg/L	5 mL	18.1 mg/L	10	0.09	0.50			1/27/11 10:30:09	N IV
1100789-04	Nitrate+Nitrite as Nitrogen	MS	K1100726-001	Water	2.21 mg/L	5 mL	2.21 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
1100789-05	Nitrate+Nitrite as Nitrogen	DMS	K1100726-001	Water	2.21 mg/L	5 mL	2.21 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
1100789-06	Nitrate+Nitrite as Nitrogen	DUP	K1100726-001	Water	0.16 mg/L	5 mL	0.158 mg/L	1	0.009	0.050			1/27/11 10:30:09	N V
1100789-07	Nitrate+Nitrite as Nitrogen	MB		Water	-0.01 mg/L	5 mL	0.050 mg/L	1	0.009	0.050			1/27/11 10:30:09	N II
1100789-08	Nitrate+Nitrite as Nitrogen	LCS		Water	1.54 mg/L	5 mL	15.4 mg/L	10	0.09	0.50			1/27/11 10:30:09	N II
1100789-09	Nitrate+Nitrite as Nitrogen	CCB		Water	-0.01 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			1/27/11 10:30:09	N II
1100789-10	Nitrate+Nitrite as Nitrogen	CCB		Water	-0.01 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			1/27/11 10:30:09	N II
1100789-11	Nitrate+Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			1/27/11 10:30:09	N II
1100789-12	Nitrate+Nitrite as Nitrogen	CCB		Water	-0.01 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			1/27/11 10:30:09	N II
1100789-13	Nitrate+Nitrite as Nitrogen	CCB		Water	0.00 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			1/27/11 10:30:09	N II
1100789-14	Nitrate+Nitrite as Nitrogen	CCB		Water	-0.01 mg/L	5 mL	0.050 mg/L	1	0.050	0.050			1/27/11 10:30:09	N II
1100789-15	Nitrate+Nitrite as Nitrogen	CCV		Water	1.98 mg/L	5 mL	1.98 mg/L	1	0.98%				1/27/11 10:30:09	N II
1100789-16	Nitrate+Nitrite as Nitrogen	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1	100%				1/27/11 10:30:09	N II
1100789-17	Nitrate+Nitrite as Nitrogen	CCV		Water	1.98 mg/L	5 mL	1.98 mg/L	1	99%				1/27/11 10:30:09	N II
1100789-18	Nitrate+Nitrite as Nitrogen	CCV		Water	1.98 mg/L	5 mL	1.98 mg/L	1	98%				1/27/11 10:30:09	N II
1100789-19	Nitrate+Nitrite as Nitrogen	CCV		Water	1.98 mg/L	5 mL	1.98 mg/L	1					1/27/11 10:30:09	N II
1100789-20	Nitrate+Nitrite as Nitrogen	CCV		Water	1.96 mg/L	5 mL	1.96 mg/L	1	98%				1/27/11 10:30:09	N II

indicates Final Result is not yet adjusted for Solids because it has not yet been determined.
 Spike ID#: B + LNO₃ - 98-Y TV = 20.0 (K661) TV = 2.00 (K726)
 Curve, CCV ID#: B + LNO₃ - 87-E TV = 2.00
 I CV: B + LNO₃ / 1 - 70 - B TV = 2.00
 Results Summary
 M/M MS - 9 2
 01/27/11
 Thangnu

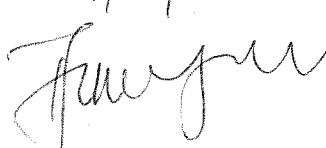
BRAN+LUEBBE

Post-run report

Name of Run	: 110127A	Name of Analysis	: NO2+NO3
Date of Report	: 1/27/2011	System No.	: 1
Date of Run	: 1/27/2011	Type of System	: AA3
Operator	:	Start/Stop time	: 10:30 - 11:54
Comment	:		

Channel	:	2
Method	:	Method 2
Unit	:	mg/L
Calibr. Fit	:	Linear
Corr. Coeff.	:	1.0000
Base	:	-26029
Gain	:	5
Sensitivity	:	1.5620
Sample Limit 1	:	
Sample Limit 2	:	

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0139
1	1	P primer	4.9849
2	1	D Drift	4.9719
3	1	C 5.00	4.9958
4	2	C 2.00	2.0098
5	3	C 0.50	0.5026
6	4	C 0.05	0.0463
7	5	C 0	-0.0045
8	1	H1 High	4.9833
9	0	L1 Low	-0.0095
10	0	L1 Low	-0.0095
11	9	QC3 ICV	1.9374
12	5	QC2 ICB	-0.0067
13	5	QC2 CCB1	-0.0101
14	2	QC1 CCV1	1.9834
15	10	QC4 LCS1*10	1.5352
16	11	S MB MS	2.0055
17	0	N Null	-0.0147N
18	5	QC2 MB1	-0.0084
19	12	S k1100731-002	6.9532* ² NR
20	13	S k1100659-001	0.2011 NR
21	14	S k1100659-002	0.3225
22	15	S rinse	-0.0104
23	16	S k1100661-001	15.5563* NR
24	0	B Baseline	-0.0139
25	5	QC2 CCB2	-0.0073
26	2	QC1 CCV2	1.9855

01/27/11


27	17	S	k1100661-001d	15.5217*
28	18	S	k1100661-001ms	15.4917*
29	19	S	k1100661-001msd	15.4862*
30	20	S	k1100661-002	15.4806*
31	21	S	k1100661-003	15.4748*
32	22	S	k1100661-004	15.4693*
33	23	S	k1100661-005	7.5752*
34	24	S	k1100661-006	0.0402
35	25	S	k1100661-007	0.1460
36	0	B	Baseline	-0.0139
37	5	QC2	CCB3	0.0008
38	2	QC1	CCV3	1.9815
39	26	S	k1100726-001	0.1619
40	27	S	k1100726-001d	0.1582
41	28	S	k1100726-001ms	2.2133
42	29	S	k1100726-001msd	2.2052
43	30	S	k1100726-002	0.0357
44	31	S	k1100726-003	0.1615
45	32	S	k1100726-004	-0.0045
46	33	S	k1100726-005	0.0503
47	34	S	k1100726-006	0.0613
48	0	B	Baseline	-0.0139
49	5	QC2	CCB4	-0.0066
50	2	QC1	CCV4	1.9808
51	13	S	k1100659-001	0.1969
52	35	S	k1100661-001*10	1.7933
53	36	S	k1100661-001d*10	1.8114
54	37	S	k1100661-001ms*10	3.8371
55	38	S	k1100661-001msd*10	3.8156
56	39	S	k1100661-002*10	0.9355
57	40	S	k1100661-003*10	5.0757
58	41	S	k1100661-004*10	1.3206
59	42	S	k1100661-005*5	1.4109
60	0	B	Baseline	-0.0139
61	5	QC2	CCB5	-0.0047
62	2	QC1	CCV5	1.9789
63	24	S	k1100661-006	0.0082
64	0	B	Baseline	-0.0139
65	5	QC2	CCB6	-0.0071
66	2	QC1	CCV6	1.9565
67	1	D	Drift	4.9719
68	0	B	Baseline	-0.0139
69	0	B	FinalBase	-0.0139

} NR

} HR

QC Limits

Channel	:	2
QC 1	Unused	
QC 2	Unused	
QC 3	Unused	
QC 4	Unused	
QC 5	Unused	

01/27/11
Handwritten signature

QC 6 Unused
QC 7 Unused
QC 8 Unused
QC 9 Unused
QC10 Unused

CORRECTIONS

Channel : 2
Baseline : Yes
Drift : Yes
Carry over : Yes
%: 0.2

* ... 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> **

01/27/11
Hawyer

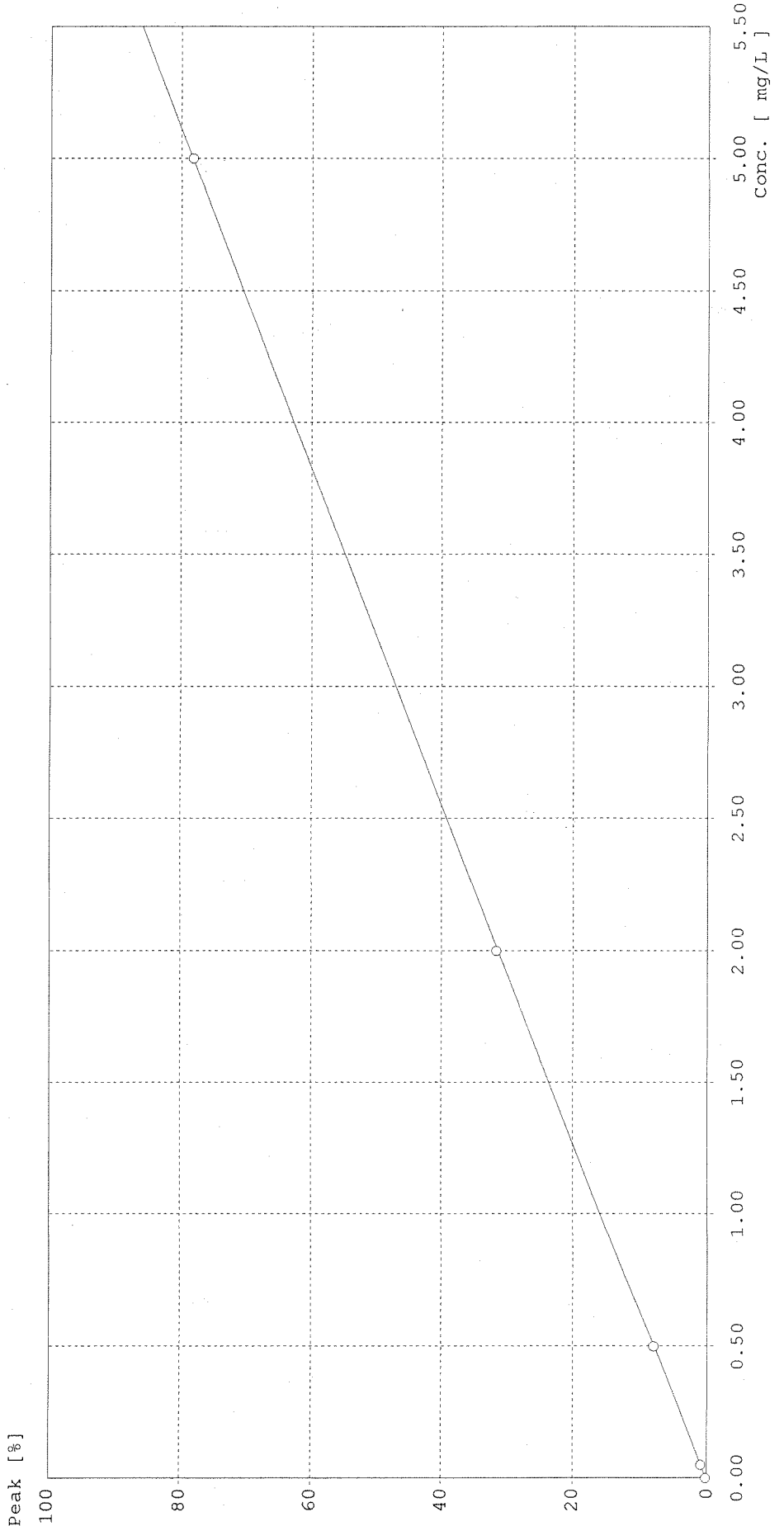
BRAN+LUEBBE

Calibration Curve

Name of run : 110127A.run
Comment :

Name of analysis : NO2+NO3

Channel : 2
Method : Method 2
Curve fit : linear a=-3.3005E-001 b=9.7680E-005
Corr. coeff. : 1.0000



9/27/11
Hansen

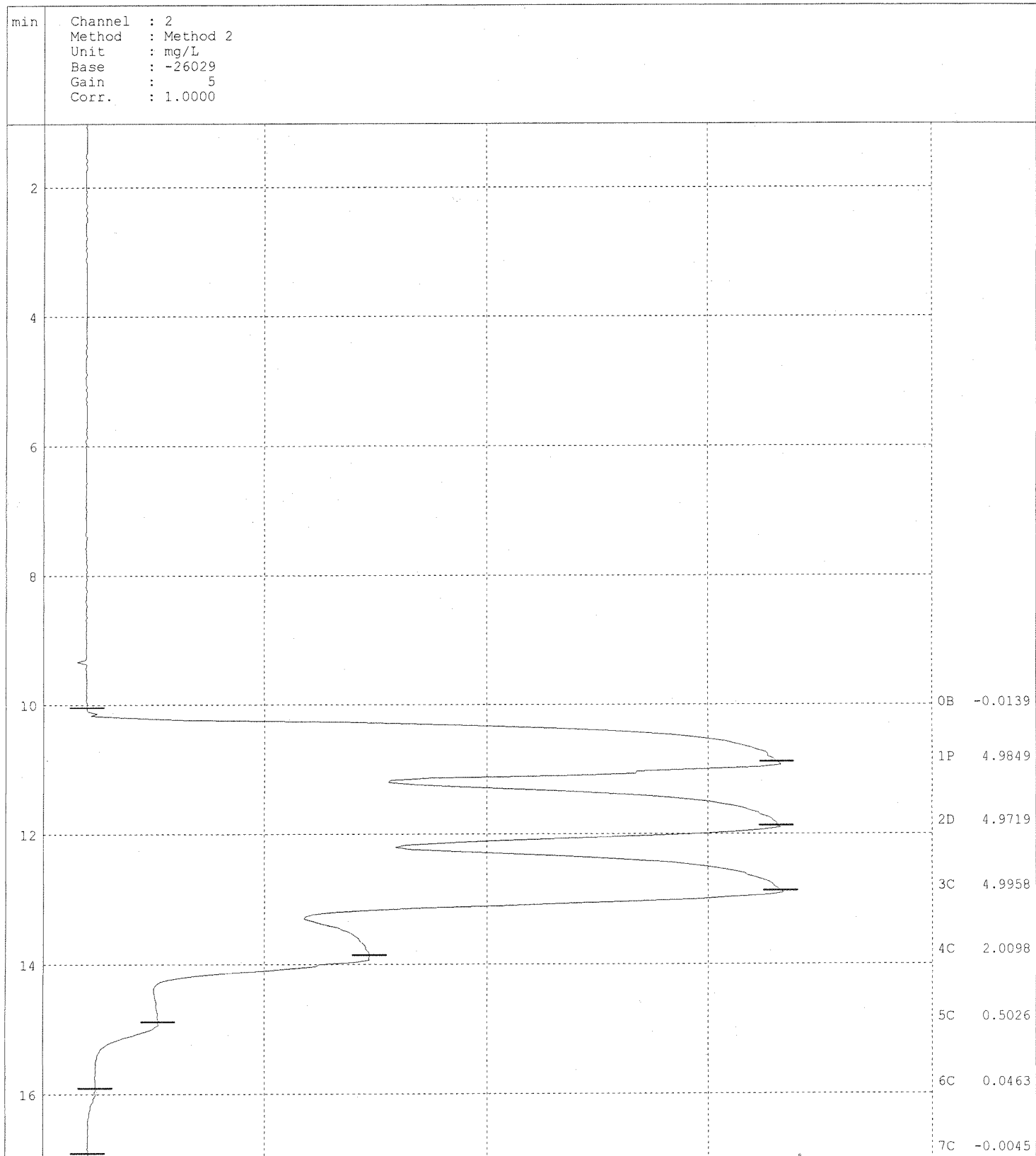
BRAN+LUEBBE

Post-run chart

Name of run :110127A.RUN

Name of analysis :NO2+NO3

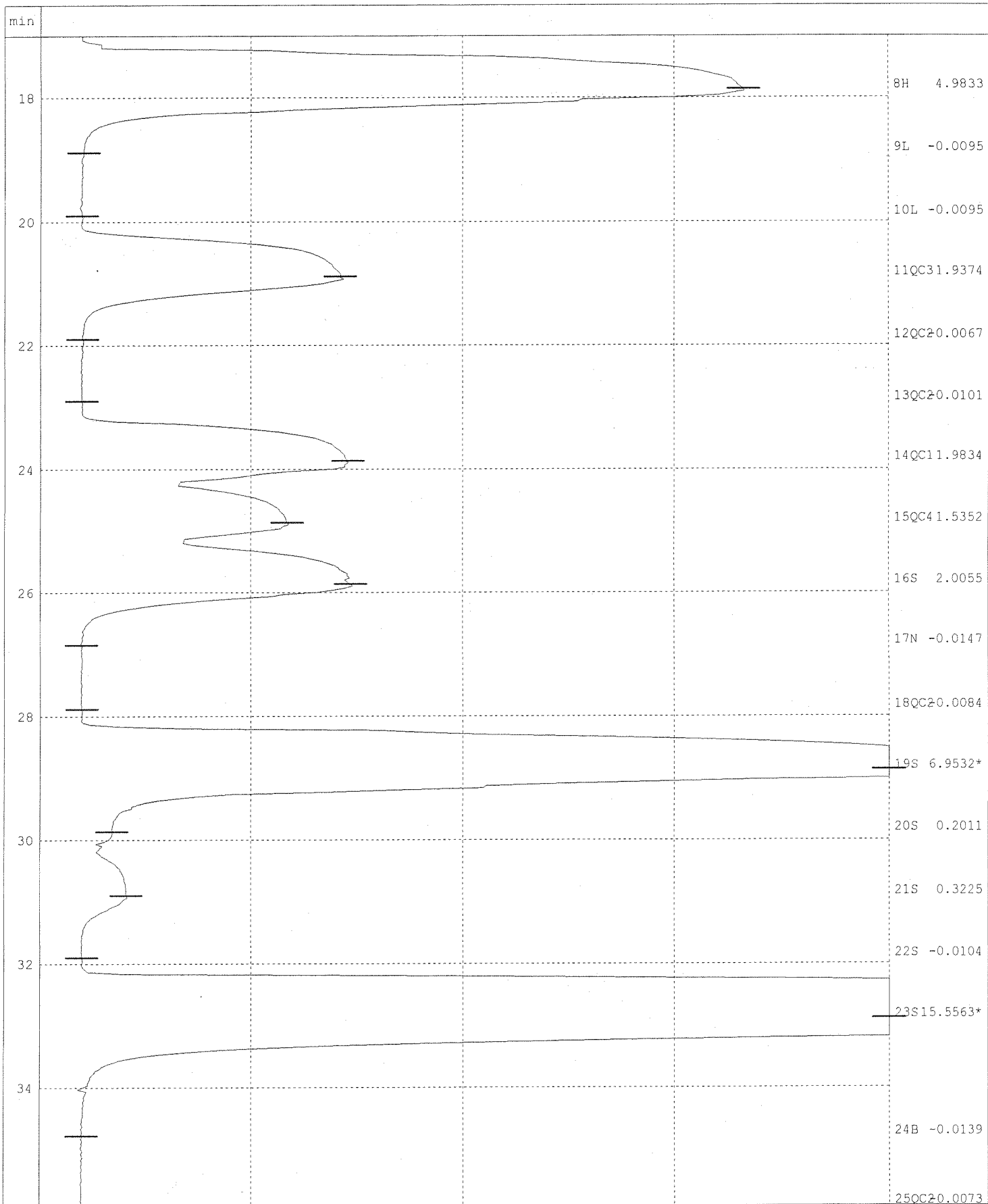
Comment :



*01/27/11
Hudson*

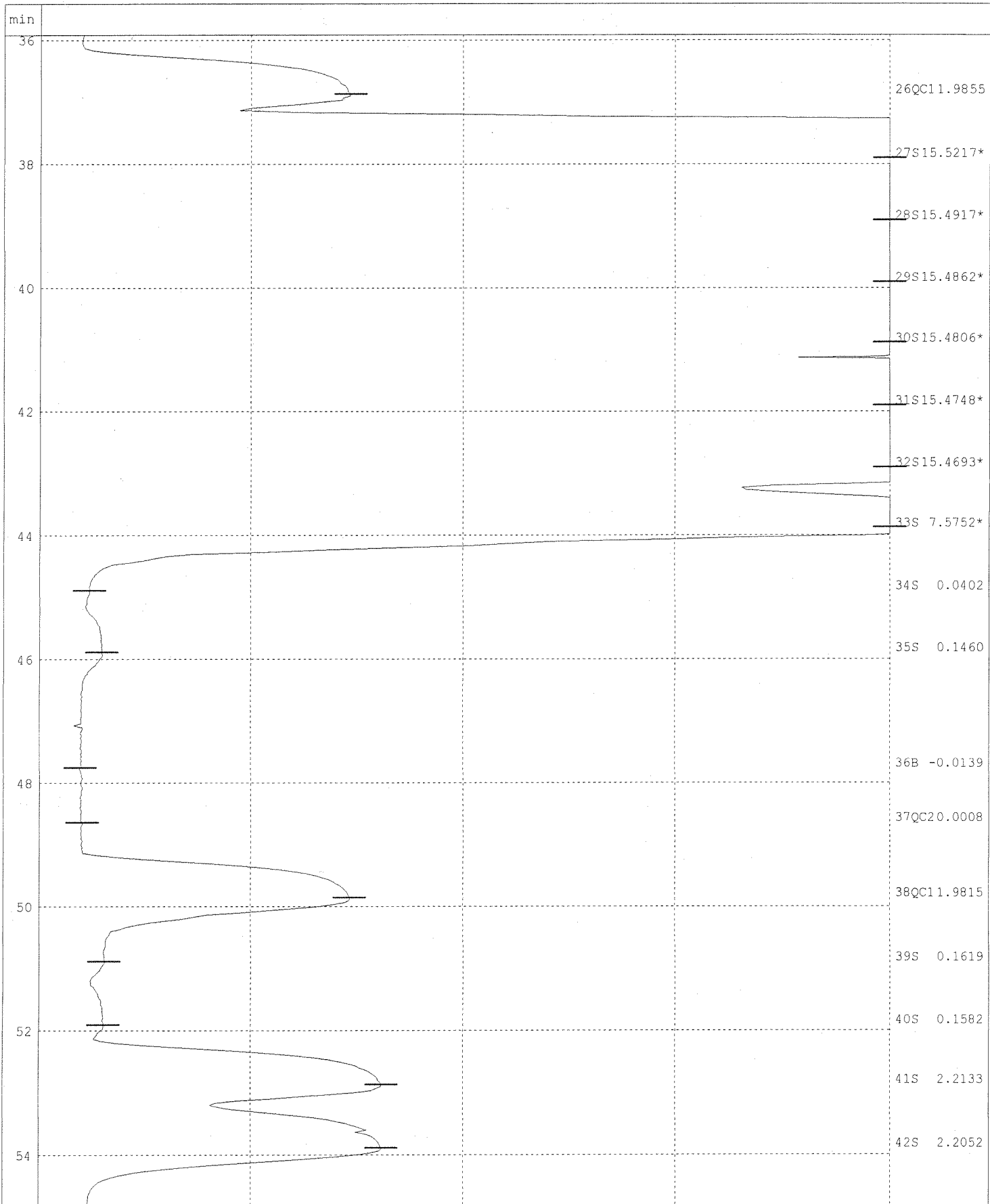
Name of run :110127A.RUN
Comment :

Name of analysis :NO2+NO3



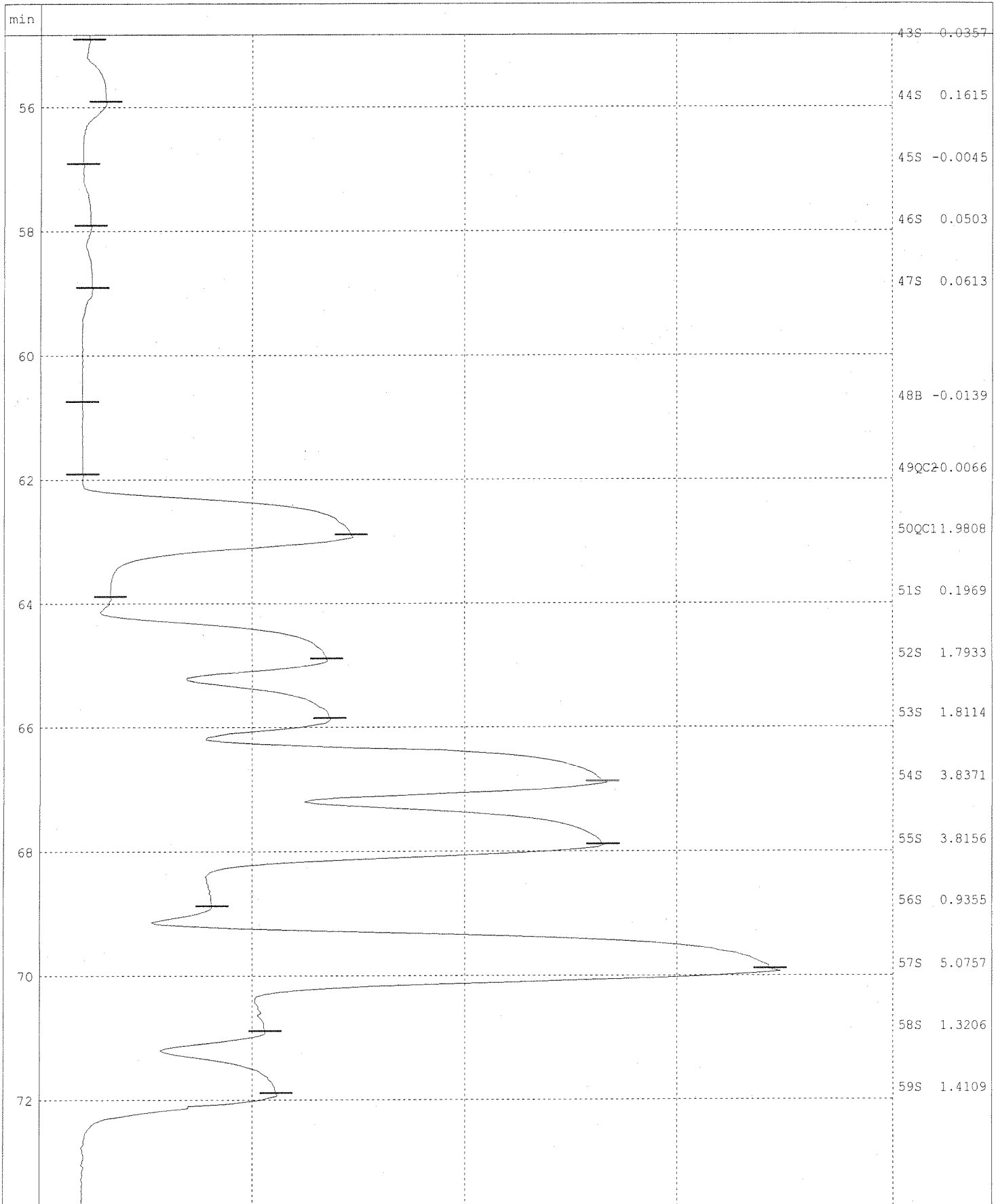
Name of run :110127A.RUN
Comment :

Name of analysis :NO2+NO3



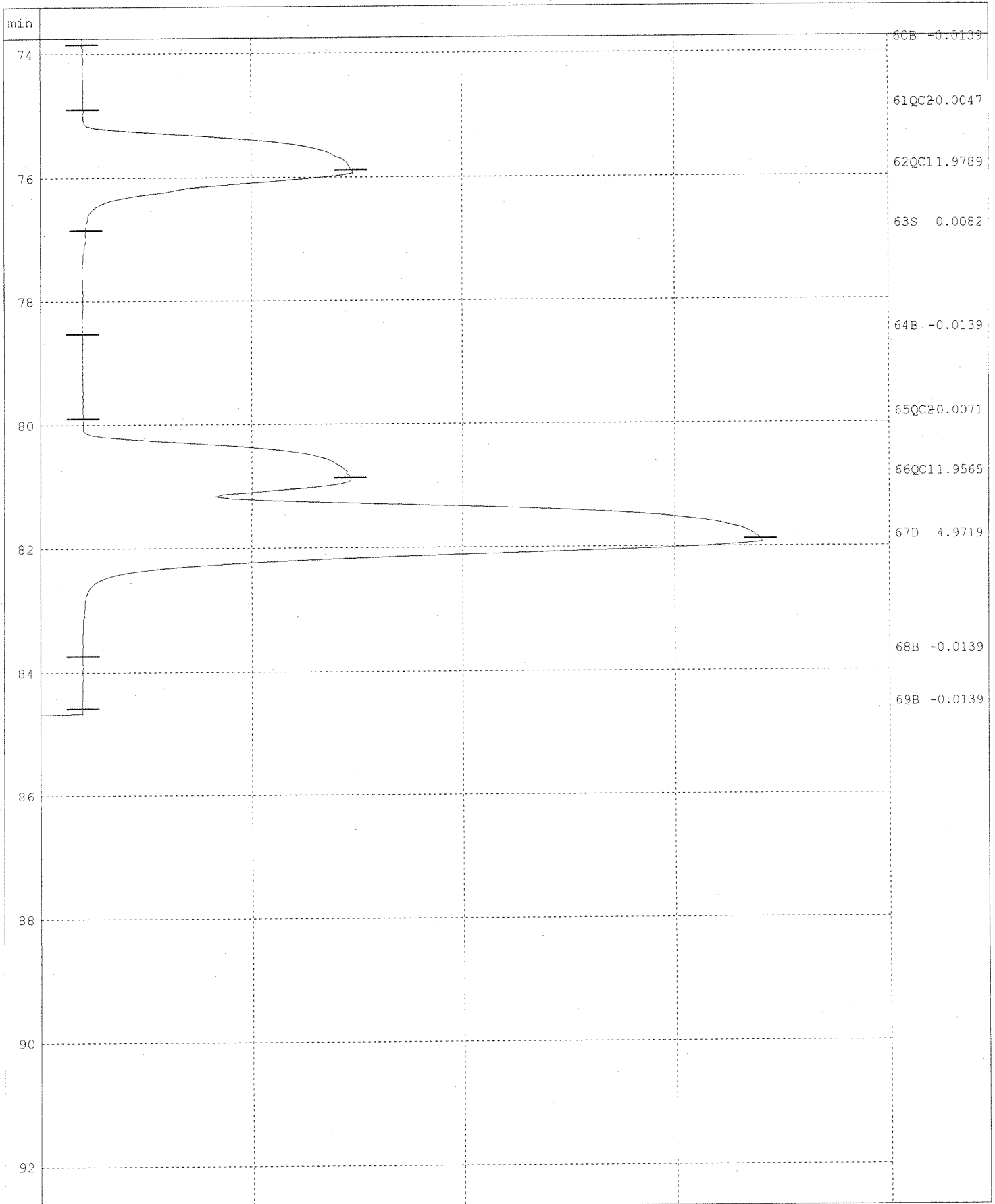
Name of run :110127A.RUN
Comment :

Name of analysis :NO2+NO3



Name of run :110127A.RUN
Comment :

Name of analysis :NO2+NO3



Original
Work Request # (K0692) K0661 K0731 K0778 K0966 K0912

Tier: III III I I II I

Date Analyzed: 1/31/11

Analyst: B. H. Etland

Analysis: NO₂/NO₃ - N / 353.2

DATA QUALITY REPORT
INORGANICS

Run # 234379

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?
 - 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: 12.) K0731 Rush dup 2/2/11

Final Approved by: BDK Date: 1/31/11 DQREPORT

Analytical Results Summary

Instrument Name: K-FIA-01

Analyst: BHEFLAND

Analysis Lot: 234379

Method/Testcode: 353.2/NO2 NO3 T

Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
00661-003	Nitrate+Nitrite as Nitrogen	N/A		Water	2.69 mg/L	5 mL	53.8 mg/L	20	0.2	1.0			1/31/11 13:22	N IV
00661-004	Nitrate+Nitrite as Nitrogen	N/A		Water	1.42 mg/L	5 mL	14.2 mg/L	10	0.09	0.50			1/31/11 13:22	N IV
00692-001	Nitrate+Nitrite as Nitrogen	N/A		Water	1.18 mg/L	5 mL	29.4 mg/L	25	0.3	1.3			1/31/11 13:22	N IV
00692-002	Nitrate+Nitrite as Nitrogen	N/A		Water	1.18 mg/L	5 mL	29.5 mg/L	25	0.3	1.3			1/31/11 13:22	N IV
00692-003	Nitrate+Nitrite as Nitrogen	N/A		Water	0.02 mg/L	5 mL	0.020 mg/L	BJ	1	0.009	0.050		1/31/11 13:22	N IV
00712-001	Nitrate+Nitrite as Nitrogen	N/A		Drinking Water	0.32 mg/L	5 mL	0.318 mg/L	1	0.009	0.050			1/31/11 13:22	N I
00731-002	Nitrate+Nitrite as Nitrogen	N/A		Water	0.71 mg/L	5 mL	7.09 mg/L	10	0.09	0.50			1/31/11 13:22	N I
00766-001	Nitrate+Nitrite as Nitrogen	N/A		Water	2.78 mg/L	5 mL	2.78 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-002	Nitrate+Nitrite as Nitrogen	N/A		Water	2.46 mg/L	5 mL	2.46 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-003	Nitrate+Nitrite as Nitrogen	N/A		Water	2.68 mg/L	5 mL	2.68 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-004	Nitrate+Nitrite as Nitrogen	N/A		Water	2.72 mg/L	5 mL	2.72 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-005	Nitrate+Nitrite as Nitrogen	N/A		Water	2.99 mg/L	5 mL	2.99 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-006	Nitrate+Nitrite as Nitrogen	N/A		Water	2.15 mg/L	5 mL	2.15 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-007	Nitrate+Nitrite as Nitrogen	N/A		Water	1.46 mg/L	5 mL	1.46 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-008	Nitrate+Nitrite as Nitrogen	N/A		Water	1.68 mg/L	5 mL	1.68 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-009	Nitrate+Nitrite as Nitrogen	N/A		Water	1.31 mg/L	5 mL	1.31 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-010	Nitrate+Nitrite as Nitrogen	N/A		Water	1.78 mg/L	5 mL	1.78 mg/L	1	0.009	0.050			1/31/11 13:22	N II
00766-011	Nitrate+Nitrite as Nitrogen	N/A		Water	1.76 mg/L	5 mL	1.76 mg/L	1	0.009	0.050			1/31/11 13:22	N II
100766-012	Nitrate+Nitrite as Nitrogen	N/A		Water	0.03 mg/L	5 mL	0.050 mg/L	U	1	0.009	0.050		1/31/11 13:22	N II
100778-001	Nitrate+Nitrite as Nitrogen	N/A		Water	0.08 mg/L	5 mL	0.078 mg/L	1	0.009	0.050			1/31/11 13:22	N I
1100875-01	Nitrate+Nitrite as Nitrogen	MB		Water	0.02 mg/L	5 mL	0.017 mg/L	J	1	0.009	0.050		1/31/11 13:22	N IV
1100875-02	Nitrate+Nitrite as Nitrogen	LCS		Water	1.55 mg/L	5 mL	15.5 mg/L	10	0.09	0.50		102	1/31/11 13:22	N IV
1100875-03	Nitrate+Nitrite as Nitrogen	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1	0.009	0.050			1/31/11 13:22	N IV
1100875-04	Nitrate+Nitrite as Nitrogen	CCV		Water	1.99 mg/L	5 mL	1.99 mg/L	1	0.009	0.050			1/31/11 13:22	N IV
1100875-05	Nitrate+Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1	0.009	0.050			1/31/11 13:22	N IV
1100875-06	Nitrate+Nitrite as Nitrogen	CCV		Water	2.02 mg/L	5 mL	2.02 mg/L	1	0.009	0.050			1/31/11 13:22	N IV
1100875-07	Nitrate+Nitrite as Nitrogen	CCV		Water	1.97 mg/L	5 mL	1.97 mg/L	1	0.009	0.050			1/31/11 13:22	N IV
1100875-08	Nitrate+Nitrite as Nitrogen	CCB		Water	0.01 mg/L	5 mL	0.050 mg/L	U	1	0.050	0.050		1/31/11 13:22	N IV
1100875-09	Nitrate+Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.050 mg/L	U	1	0.050	0.050		1/31/11 13:22	N IV
1100875-10	Nitrate+Nitrite as Nitrogen	CCB		Water	0.01 mg/L	5 mL	0.050 mg/L	U	1	0.050	0.050		1/31/11 13:22	N IV
1100875-11	Nitrate+Nitrite as Nitrogen	CCB		Water	0.02 mg/L	5 mL	0.050 mg/L	U	1	0.050	0.050		1/31/11 13:22	N IV
1100875-12	Nitrate+Nitrite as Nitrogen	CCB		Water	0.03 mg/L	5 mL	0.050 mg/L	U	1	0.050	0.050		1/31/11 13:22	N IV
1100875-13	Nitrate+Nitrite as Nitrogen	MS	K1100766-001	Water	4.65 mg/L	5 mL	4.65 mg/L	1	0.009	0.050		93	1/31/11 13:22	N II
1100875-14	Nitrate+Nitrite as Nitrogen	DMS	K1100766-001	Water	4.76 mg/L	5 mL	4.76 mg/L	1	0.009	0.050		99	1/31/11 13:22	N II
1100875-15	Nitrate+Nitrite as Nitrogen	DUP	K1100766-001	Water	2.81 mg/L	5 mL	2.81 mg/L	1	0.009	0.050		<1	1/31/11 13:22	N II

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

Printed: 1/31/11 15:32

Handwritten notes:
 BPRK
 1/31/11
 BPRK
 W.D.
 IGV = 6+LNO₃/1-70-3 T.V. = 2.0 mg/L
 LCS = PD₃/13-74-E T.V. = 15.0 mg/L
 CUMULATIVE 6+LNO₃/1-89-F T.V. = 2.0 mg/L
 S.P. Ke = 6+LNO₃/1-94-AA T.V. = 2.0 mg/L
 8/1/31/11

BRAN+LUEBBE

Post-run report

Name of Run : 110131B
 Date of Report : 1/31/2011
 Date of Run : 1/31/2011
 Operator :
 Comment :

Name of Analysis : NO2+NO3
 System No. : 1
 Type of System : AA3
 Start/Stop time : 13:22 - 14:46

Channel : 2
 Method : Method 2
 Unit : mg/L
 Calibr. Fit : Linear
 Corr. Coeff. : 1.0000
 Base : -26161
 Gain : 5
 Sensitivity : 1.5391
 Sample Limit 1 :
 Sample Limit 2 :

BDC

1/31/11

Pk	Cup	Sample Id	Value
0	0	B Baseline	-0.0041
1	1	P primer	5.0101
2	1	D Drift	5.0307
3	1	C 5.00	5.0049
4	2	C 2.00	1.9878
5	3	C 0.50	0.4987
6	4	C 0.05	0.0549
7	5	C 0	0.0037
8	1	H1 High	5.0729
9	0	L1 Low	0.0065
10	0	L1 Low	0.0069
11	9	QC3 ICV	1.9652 <i>99</i>
12	5	QC2 ICB	0.0091
13	5	QC2 CCB1	0.0089
14	2	QC1 CCV1	1.9900
15	10	QC4 LCS1*10	1.5507
16	11	S MB MS	2.0016 <i>100</i>
17	0	N Null	0.0403N
18	5	QC2 MB1	0.0168
19	12	S k1100692-001*25	1.1760
20	13	S k1100692-002*25	1.1791
21	14	S 0692-2 10x nr	2.9023 <i>NR</i>
22	15	S 0692-2 nr	15.9953* <i>NR</i>
23	16	S rinse	0.1953
24	0	B Baseline	-0.0041
25	5	QC2 CCB2	0.0248
26	2	QC1 CCV2	1.9906

5+ 1/31/11

BRAN+LUEBBE AACE 6.02

27	17	S	k1100692-003	0.0198
28	18	S	0661-3 10x nr	5.3875 <i>NR</i>
29	19	S	0661-4 10x nr	1.4138 <i>NR</i>
30	20	S	k1100731-002*10	0.7091
31	21	S	k1100778-001	0.0779
32	22	S	k1100766-001	2.7809
33	23	S	k1100766-001d	2.8052
34	24	S	k1100766-001ms	4.6463
35	25	S	k1100766-001msd	4.7603
36	0	B	Baseline	-0.0041
37	5	QC2	CCB3	0.0149
38	2	QC1	CCV3	1.9699
39	26	S	k1100766-002	2.4552
40	27	S	k1100766-003	2.6846
41	28	S	k1100766-004	2.7154
42	29	S	k1100766-005	2.9926
43	30	S	k1100766-006	2.1549
44	31	S	k1100766-007	1.4616
45	32	S	k1100766-008	1.6751
46	33	S	k1100766-009	1.3092
47	34	S	k1100766-010	1.7830
48	0	B	Baseline	-0.0041
49	5	QC2	CCB4	0.0194
50	2	QC1	CCV4	2.0181
51	35	S	k1100766-011	1.7582
52	36	S	k1100766-012	0.0297
53	37	S	k1100712-001	0.3184
54	38	S	rinse	0.0215
55	39	S	k1100661-003*20	2.6896
56	19	S	k1100661-004*10	1.4173
57	0	B	Baseline	-0.0041
58	5	QC2	CCB5	0.0320
59	2	QC1	CCV5	1.9680
60	1	D	Drift	5.0307
61	0	B	Baseline	-0.0041
62	0	B	FinalBase	0.0000

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	

BA 113111

CORRECTIONS

Channel	:	2
Baseline	:	Yes
Drift	:	Yes
Carry over	:	Yes
%:		0.9

* ... 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> **

5/11/11

BRAN+LUEBBE

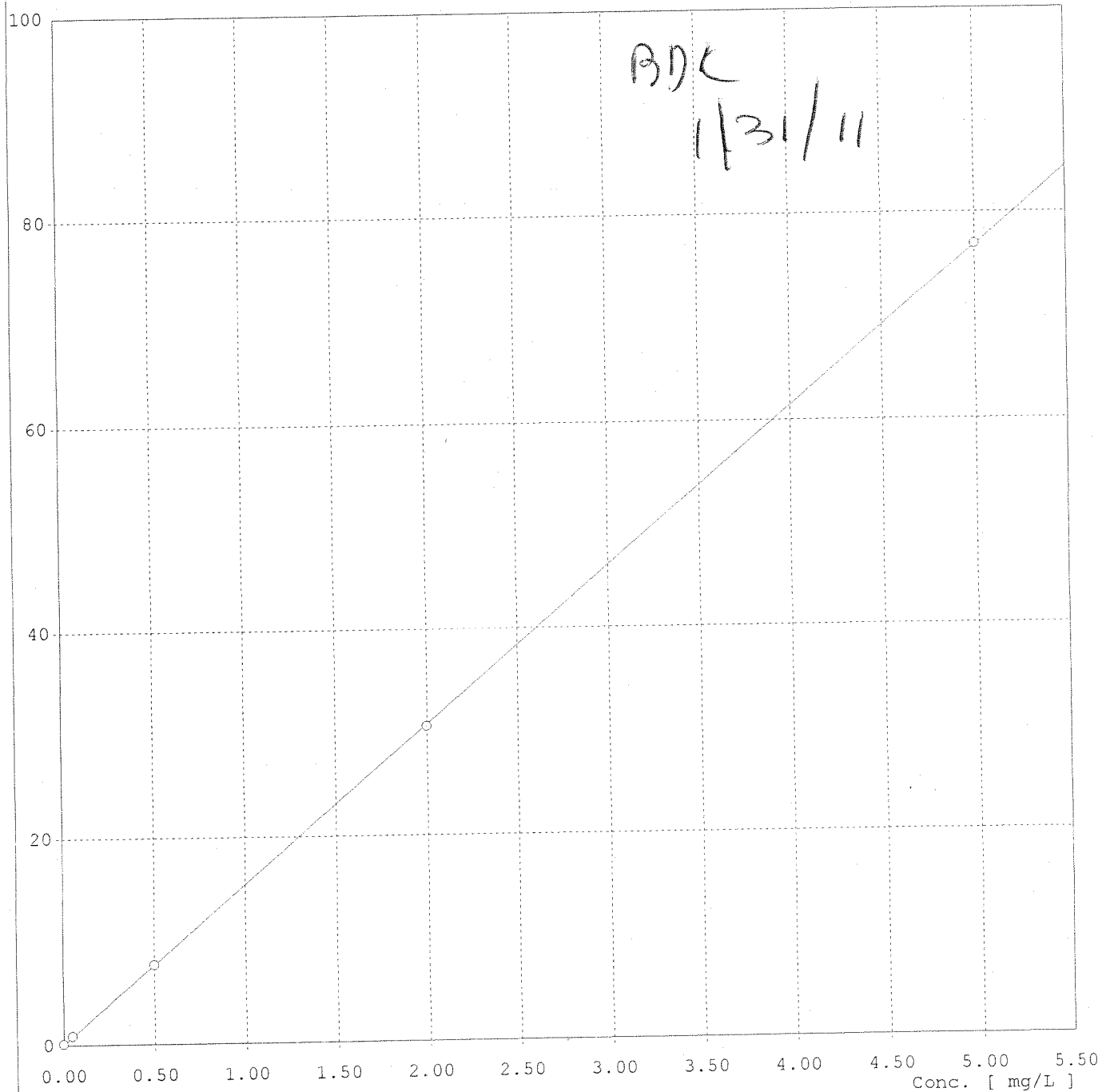
Calibration Curve

Name of run :110131B.run
Comment :

Name of analysis :NO2+NO3

Channel :2
Method :Method 2
Curve fit :linear a=-3.2937E-001 b=9.9448E-005
Corr. coeff. :1.0000

Peak [%]

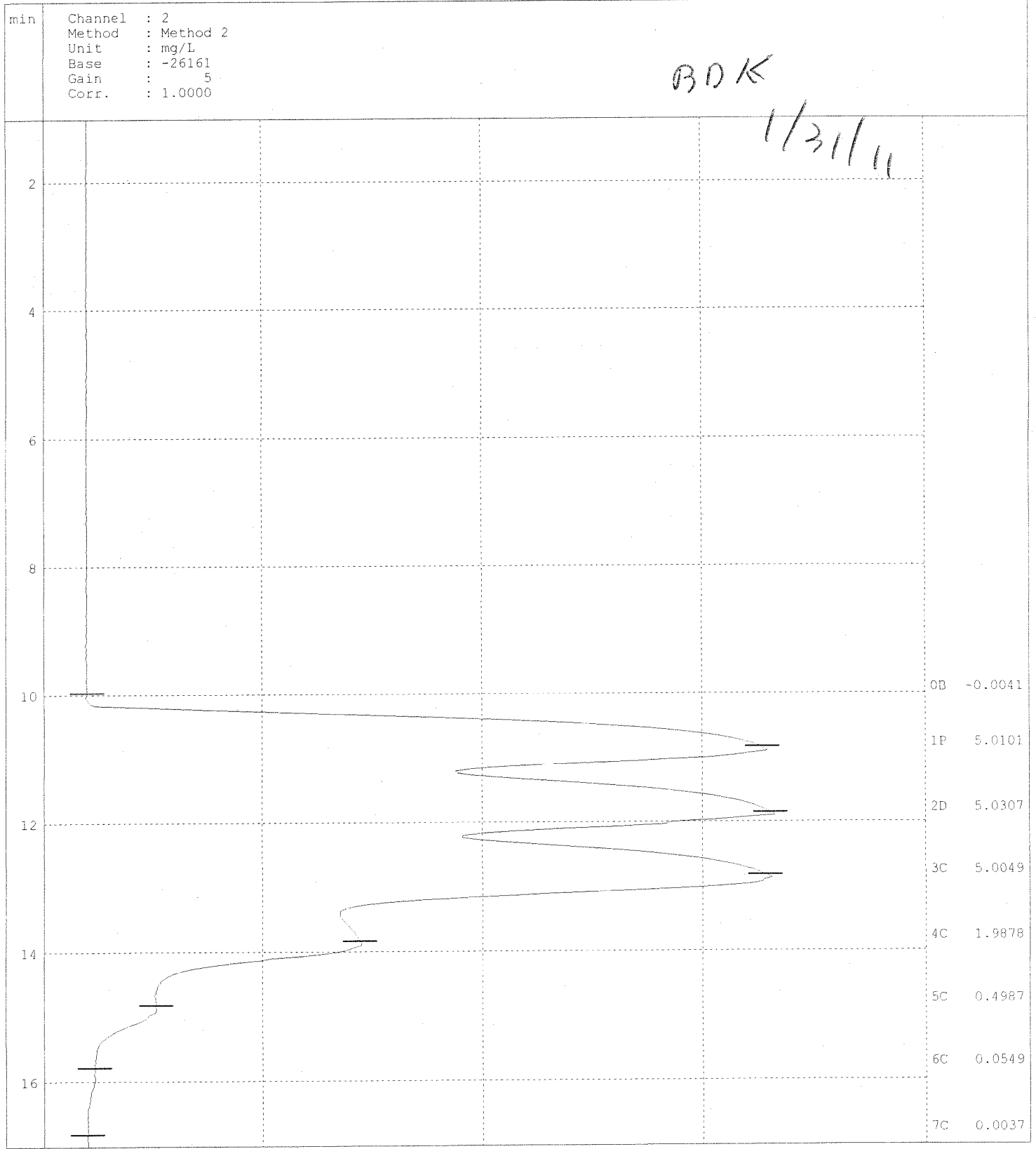


BRAN+LUEBBE

Post-run chart

Name of run : 110131B.RUN
Comment :

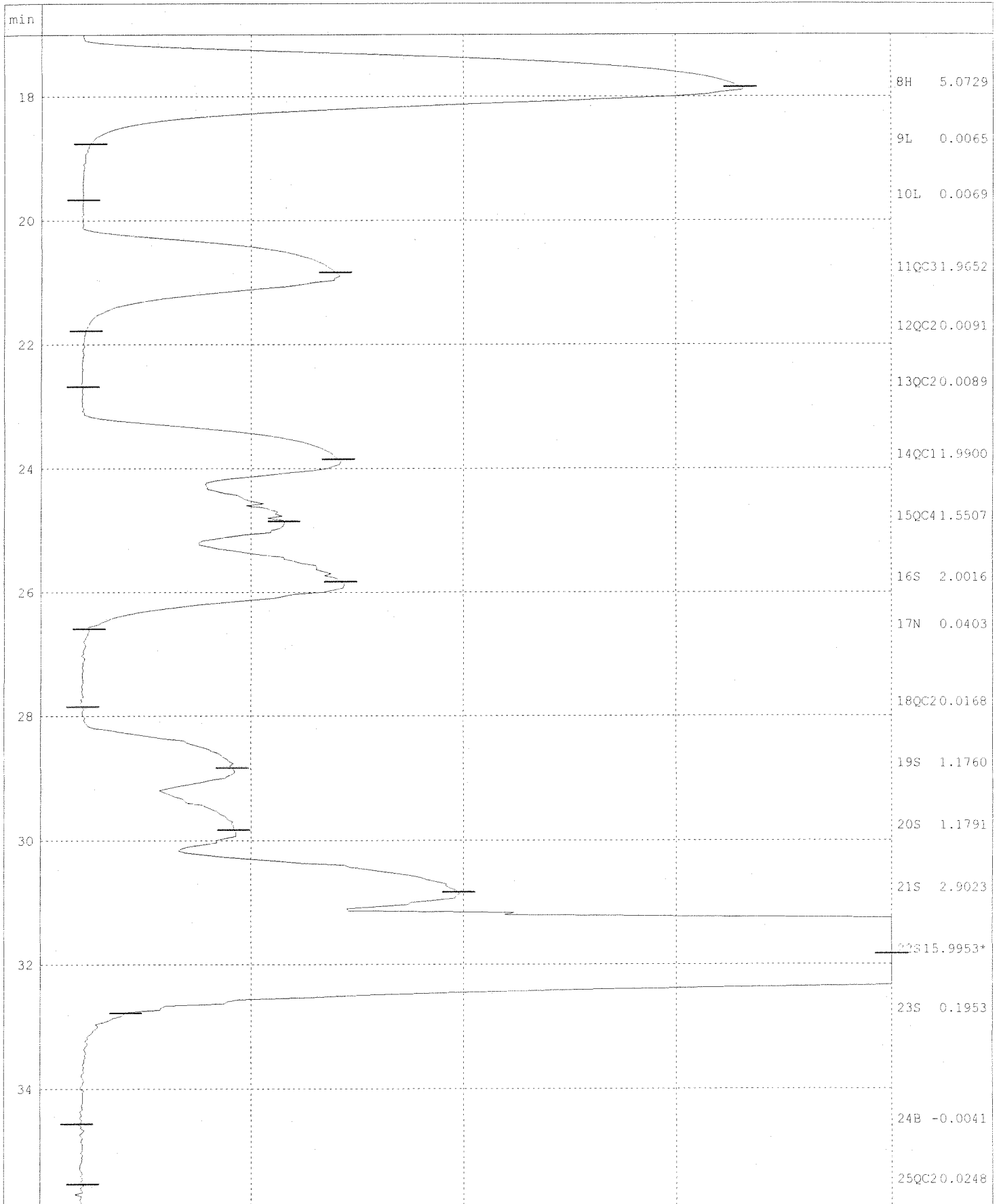
Name of analysis : NO2+NO3



5/11/31/11

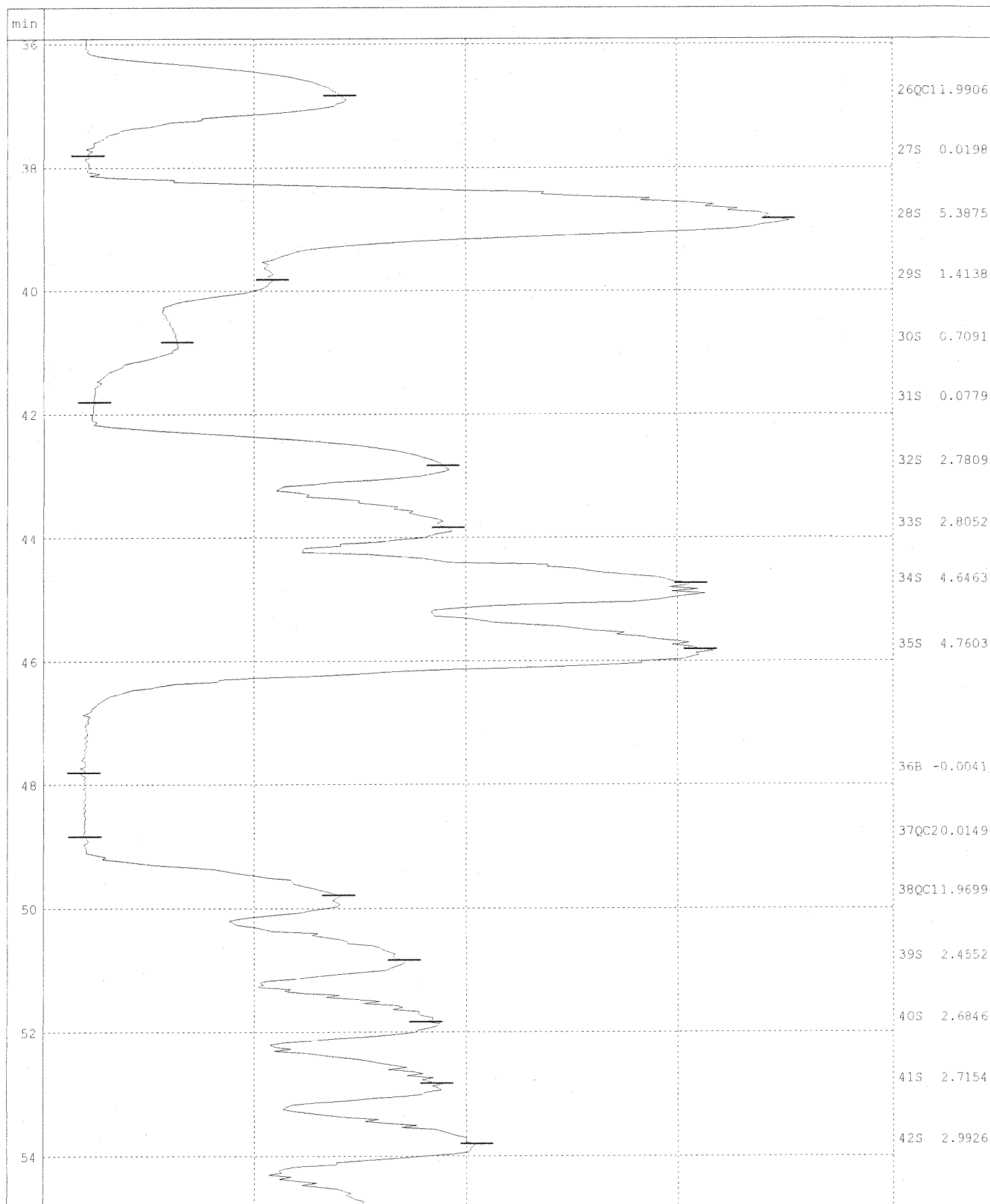
Name of run :110131B.RUN
Comment :

Name of analysis :NO2+NO3



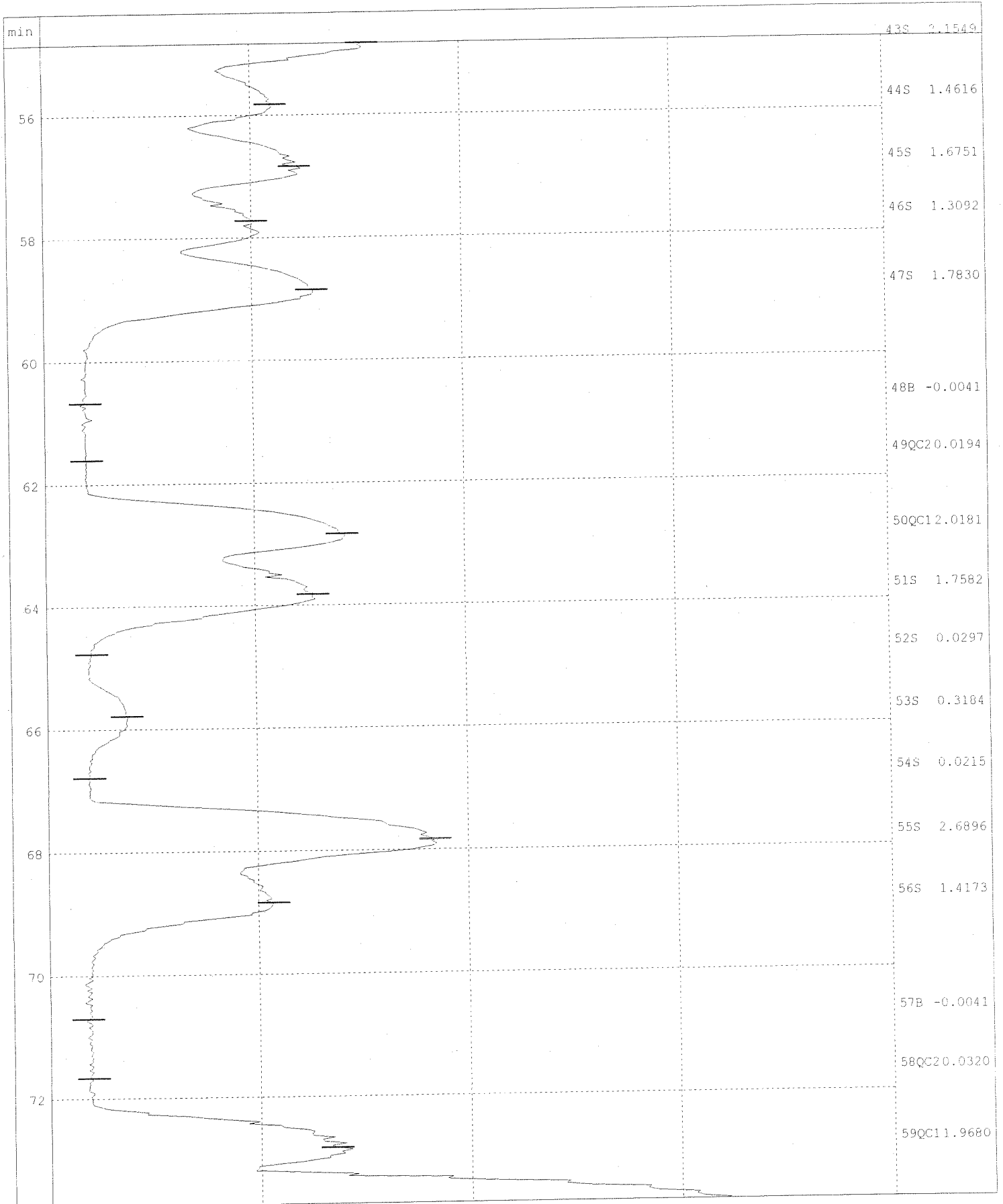
Name of run :110131B.RUN
Comment :

Name of analysis :NO2+NO3



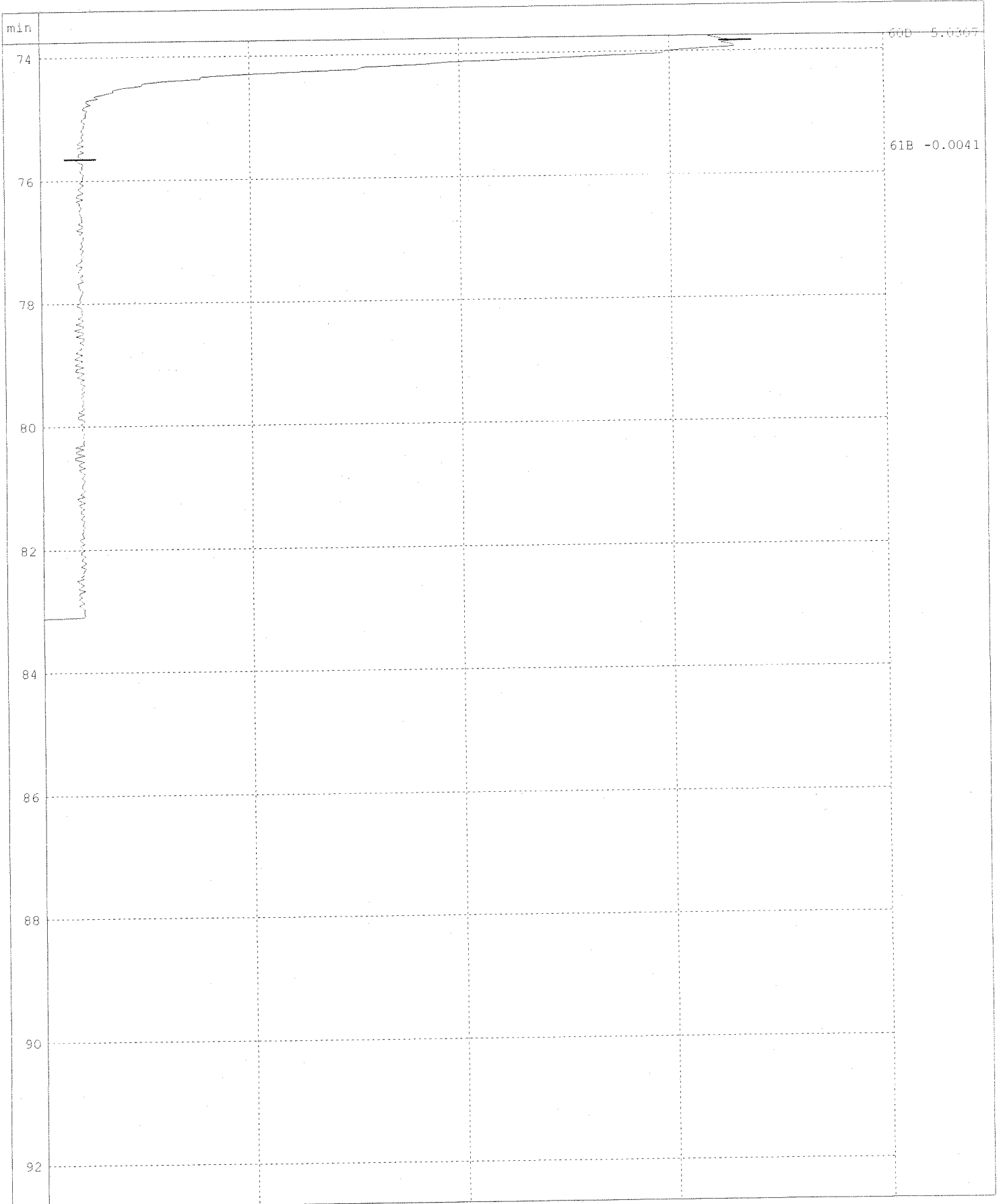
Name of run :110131B.RUN
Comment :

Name of analysis :NO2+NO3



Name of run :110131B.RUN
Comment :

Name of analysis :NO2+NO3



Work Request # ^{Original} ~~(K0661)~~ K0681
 Tier: IV I
 Date Analyzed: 1/26/11
 Analyst: KC
 Analysis: TDS

**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:  Date: 1/28/11 DQREPORT

Analytical Results Summary

Instrument Name: K-Balance-31

Analyst: KCUEVAS

Analysis Lot:

233872

Method/Testcode: SM 2540 C/TDS

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt.	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
K1100661-001	Solids, Total Dissolved	N/A		Water	532.00 mg/L	100 ml	532 mg/L	1	10	10			1/26/11 08:00	N IV
K1100661-002	Solids, Total Dissolved	N/A		Water	457.00 mg/L	100 ml	457 mg/L	1	10	10			1/26/11 08:00	N IV
K1100661-003	Solids, Total Dissolved	N/A		Water	1545.30 mg/L	75 ml	1550 mg/L	1	14	14			1/26/11 08:00	N IV
K1100661-004	Solids, Total Dissolved	N/A		Water	500.00 mg/L	100 ml	500 mg/L	1	10	10			1/26/11 08:00	N IV
K1100661-005	Solids, Total Dissolved	N/A		Water	425.00 mg/L	100 ml	425 mg/L	1	10	10			1/26/11 08:00	N IV
K1100661-006	Solids, Total Dissolved	N/A		Water	1.50 mg/L	200 ml	5.0 mg/L	1	5.0	5.0			1/26/11 08:00	N IV
K1100661-007	Solids, Total Dissolved	N/A		Water	6.00 mg/L	200 ml	6.0 mg/L	1	5.0	5.0			1/26/11 08:00	N IV
K1100681-001	Solids, Total Dissolved	N/A		Drinking Water	181.00 mg/L	100 ml	181 mg/L	1	10	10			1/26/11 08:00	N I
KQ1100741-01	Solids, Total Dissolved	DUP	K1100661-003	Water	1585.30 mg/L	75 ml	1590 mg/L	1	14	14		3	1/26/11 08:00	N IV
KQ1100741-02	Solids, Total Dissolved	MB		Water	0.50 mg/L	200 ml	5.0 mg/L	1	5.0	5.0			1/26/11 08:00	N IV
KQ1100741-03	Solids, Total Dissolved	LCS		Water	1050.00 mg/L	50 ml	1050 mg/L	1	20	20		96	1/26/11 08:00	N IV

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

Original
Work Request # (0042) 00726 0061

Tier: V V IV

Date Analyzed: 1/26/11

Analyst: CV

Analysis: Alkonburet

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:

No form fine for either SR.
Both Rushes

Final Approved by: BDK Date: 1/27/11
DOREPORT

Analytical Results Summary

Instrument Name: K-pH-01 Analyst: CVECCHITTO Analysis Lot: 233926 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
1100642-002	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	6.50 mg/L	30 mL	6.5 mg/L	J 1	3.0	9.0			1/26/11 13:00:00	N V
1100642-003	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	0.90 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N V
1100642-007	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	3.40 mg/L	30 mL	3.4 mg/L	J 1	3.0	9.0			1/26/11 13:00:00	N V
1100642-008	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	5.00 mg/L	30 mL	5.0 mg/L	J 1	3.0	9.0			1/26/11 13:00:00	N V
1100642-009	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	9.50 mg/L	30 mL	9.5 mg/L	I 1	3.0	9.0			1/26/11 13:00:00	N V
1100661-006	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	0.60 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N IV
1100661-006	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	0.60 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N IV
1100661-006	Carbonate as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N IV
1100661-006	Hydroxide as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N IV
1100661-007	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	1.40 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N IV
1100661-007	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	1.40 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N IV
1100661-007	Carbonate as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N IV
1100661-007	Hydroxide as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N IV
1100726-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	9.10 mg/L	30 mL	9.1 mg/L	I 1	3.0	9.0			1/26/11 13:00:00	N V
1100726-003	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	8.20 mg/L	30 mL	8.2 mg/L	J 1	3.0	9.0			1/26/11 13:00:00	N V
1100726-004	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N V
Q1100755-01	Alkalinity as CaCO ₃ , Total MB		Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N V
Q1100755-02	Alkalinity as CaCO ₃ , Total LCS		Water	Water	79.80 mg/L	30 mL	79.8 mg/L	I 1	3.0	9.0	100		1/26/11 13:00:00	N V
Q1100755-03	Alkalinity as CaCO ₃ , Total DUP	K1100642-002	Water	Water	5.90 mg/L	30 mL	5.9 mg/L	J 1	3.0	9.0		10	1/26/11 13:00:00	N V
Q1100755-04	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	6.50 mg/L	30 mL	6.5 mg/L	J 1	3.0	9.0			1/26/11 13:00:00	N V
Q1100755-04	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	6.50 mg/L	30 mL	6.5 mg/L	J 1	3.0	9.0			1/26/11 13:00:00	N V
Q1100755-04	Carbonate as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N V
Q1100755-04	Hydroxide as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 13:00:00	N V
Q1100755-05	Alkalinity as CaCO ₃ , Total DUP	KQ1100755-04	Water	Water	5.90 mg/L	30 mL	5.9 mg/L	J 1	3.0	9.0		10	1/26/11 13:00:00	N V
Q1100755-05	Bicarbonate as CaCO ₃ DUP	KQ1100755-04	Water	Water	5.90 mg/L	30 mL	5.9 mg/L	J 1	3.0	9.0		10	1/26/11 13:00:00	N V
Q1100755-05	Carbonate as CaCO ₃ DUP	KQ1100755-04	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0		NC	1/26/11 13:00:00	N V
Q1100755-05	Hydroxide as CaCO ₃ DUP	KQ1100755-04	Water	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0		NC	1/26/11 13:00:00	N V

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

BDC
1/27/11

233926

Analyte: Alkalinity
 Method: 310.1 / SM20 2320 B

Regular Level _____
 High Level _____
 Low Level X

Analyst: _____ CV _____
 Pipette: _____ K-PH-01
 Date: 1/26/11
 Time: 0:00

pH meter cal:

4.0 4
 7.0 7.00
 10.0 10
 Buffer Log #: _____
 cond/1-75-O 2.1126/1
 cond/1-79-N _____

Reagents: concentration

HCl: 0.020 N
 LCS TV = 80 mg/L
 Lot # Ricca 1002358
 ERA S166-698
 Date _____

APIC
 1/27/11

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

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 pH 4.5} - B_{mL acid used to pH 4.2}) x N_{HCl}) x 50,000 /mL sample

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	5.77	0.15	0.30					1.5	0.0	
2	LCS-1	50.0	9.13	3.99						79.8		<i>9.13 = 100</i>
3	K1100642-002	100.0	5.66	0.85	1.05					8.5	6.5	<i>X ~ 6.2</i>
4	K1100642-002d	100.0	5.65	0.82	1.05					8.2	5.9	<i>RFD = 10</i>
5	K1100642-003	100.0	5.39	0.30	0.51					3.0	0.9	
6	K1100642-007	100.0	6.57	0.48	0.62					4.8	3.4	
7	K1100642-008	100.0	6.84	0.65	0.80					6.5	5.0	
8	K1100642-009	100.0	6.89	1.05	1.15					10.5	9.5	
9	K1100726-001	75.0	7.10	0.79	0.90					10.5	9.1	
10	buffer check		4.03							#DIV/0!		
11	K1100726-003	100.0	7.33	1.01	1.20					10.1	8.2	
12	K1100726-004	100.0	5.49	0.18	0.39					1.8	-0.3	<i>Bicarbonate = 0.0</i>
13	K1100661-006	100.0	6.42	0.28	0.50					2.8	0.6	<i>= Carb Carb, OH = 0.0</i>
14	K1100661-007	100.0	6.19	0.28	0.42					2.8	1.4	<i>= Carb Carb, OH = 0.0</i>
15	buffer check		4.02							#DIV/0!		
16										#DIV/0!		
17										#DIV/0!		
18										#DIV/0!		
19										#DIV/0!		
20										#DIV/0!		
21										#DIV/0!		

Original
 Work Request # (00642) 00776, 00686, 00661
 Tier: V V II IV
 Date Analyzed: 1/26/11
 Analyst: CV
 Analysis: Alk 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:

CAZ + T26 are rush
 dont have Form V

Final Approved by: BIDK Date: 1/27/11
 DQREPORT

Analytical Results Summary

Instrument Name: K-pH-01

Analyst: CVECCHITTO

Analysis Lot:

233931

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
1100642-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	23.70 mg/L	30 mL	23.7 mg/L	1	3.0	9.0			1/26/11 11:44:00	N V
1100642-004	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	21.80 mg/L	30 mL	21.8 mg/L	1	3.0	9.0			1/26/11 11:44:00	N V
1100642-005	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	23.60 mg/L	30 mL	23.6 mg/L	1	3.0	9.0			1/26/11 11:44:00	N V
1100642-006	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	72.80 mg/L	30 mL	72.8 mg/L	1	3.0	9.0			1/26/11 11:44:00	N V
1100661-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	196.00 mg/L	30 mL	196 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-001	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	196.00 mg/L	30 mL	196 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-001	Carbonate as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-001	Hydroxide as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-002	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	268.00 mg/L	30 mL	268 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-002	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	268.00 mg/L	30 mL	268 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-002	Carbonate as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-002	Hydroxide as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-003	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	206.00 mg/L	30 mL	206 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-003	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	206.00 mg/L	30 mL	206 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-003	Carbonate as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-003	Hydroxide as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-004	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	274.00 mg/L	30 mL	274 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-004	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	274.00 mg/L	30 mL	274 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-004	Carbonate as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-004	Hydroxide as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-005	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	218.00 mg/L	30 mL	218 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-005	Bicarbonate as CaCO ₃ N/A	N/A	Water	Water	218.00 mg/L	30 mL	218 mg/L	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-005	Carbonate as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100661-005	Hydroxide as CaCO ₃ N/A	N/A	Water	Water	0.00 mg/L	30 mL	9.0 mg/L U	1	3.0	9.0			1/26/11 11:44:00	N IV
1100686-001	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	79.70 mg/L	30 mL	79.7 mg/L	1	3.0	9.0			1/26/11 11:44:00	N II
1100686-002	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	80.60 mg/L	30 mL	80.6 mg/L	1	3.0	9.0			1/26/11 11:44:00	N II
1100686-003	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	79.40 mg/L	30 mL	79.4 mg/L	1	3.0	9.0			1/26/11 11:44:00	N II
1100686-004	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	78.90 mg/L	30 mL	78.9 mg/L	1	3.0	9.0			1/26/11 11:44:00	N II
1100686-005	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	77.20 mg/L	30 mL	77.2 mg/L	1	3.0	9.0			1/26/11 11:44:00	N II
1100686-006	Alkalinity as CaCO ₃ , Total N/A	N/A	Water	Water	75.50 mg/L	30 mL	75.5 mg/L	1	3.0	9.0			1/26/11 11:44:00	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: CVECCHITTO

Analysis Lot: 233931

Method/Testcode: SM 2320 B/Alkalinity Tit

Lab Code	Target Analytes	QC	Parent Sample	Matrix	Raw Result	Sample Amt	Final Result	Dil	MDL	PQL	% Rec	% RSD	Date Analyzed	QC? Tier
<I100686-007	Alkalinity as CaCO3, Total N/A	N/A		Water	79.90 mg/L	30 mL	79.9 mg/L	1	3.0	9.0			1/26/11 11:44:00	N II
<I100726-002	Alkalinity as CaCO3, Total N/A	N/A		Water	28.40 mg/L	30 mL	28.4 mg/L	1	3.0	9.0			1/26/11 11:44:00	N V
<I100726-005	Alkalinity as CaCO3, Total N/A	N/A		Water	68.70 mg/L	30 mL	68.7 mg/L	1	3.0	9.0			1/26/11 11:44:00	N V
<I100726-006	Alkalinity as CaCO3, Total N/A	N/A		Water	39.80 mg/L	30 mL	39.8 mg/L	1	3.0	9.0			1/26/11 11:44:00	N V
<Q1100758-01	Alkalinity as CaCO3, Total DUP	DUP	K1100642-001	Water	24.50 mg/L	30 mL	24.5 mg/L	1	3.0	9.0		3	1/26/11 11:44:00	N V
<Q1100758-02	Alkalinity as CaCO3, Total MB	MB		Water	5.49 mg/L	30 mL	5.5 mg/L	J 1	3.0	9.0			1/26/11 11:44:00	N V
<Q1100758-02	Bicarbonate as CaCO3 MB	MB		Water	5.49 mg/L	30 mL	5.5 mg/L	J 1	3.0	9.0			1/26/11 11:44:00	N V
<Q1100758-02	Carbonate as CaCO3 MB	MB		Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 11:44:00	N V
<Q1100758-02	Hydroxide as CaCO3 MB	MB		Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 11:44:00	N V
<Q1100758-04	Alkalinity as CaCO3, Total MB	MB		Water	5.89 mg/L	30 mL	5.9 mg/L	J 1	3.0	9.0			1/26/11 11:44:00	N II
<Q1100758-04	Bicarbonate as CaCO3 MB	MB		Water	5.89 mg/L	30 mL	5.9 mg/L	J 1	3.0	9.0			1/26/11 11:44:00	N II
<Q1100758-04	Carbonate as CaCO3 MB	MB		Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 11:44:00	N II
<Q1100758-04	Hydroxide as CaCO3 MB	MB		Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0			1/26/11 11:44:00	N II
<Q1100758-06	Alkalinity as CaCO3, Total DUP	DUP	K1100686-006	Water	80.90 mg/L	30 mL	80.9 mg/L	1	3.0	9.0		7	1/26/11 11:44:00	N II
<Q1100758-09	Alkalinity as CaCO3, Total LCS	LCS		Water	81.90 mg/L	30 mL	81.9 mg/L	1	3.0	9.0	102	6.0	1/26/11 11:44:00	N V
<Q1100758-10	Alkalinity as CaCO3, Total LCS	LCS		Water	78.00 mg/L	30 mL	78.0 mg/L	1	3.0	9.0	98	6.0	1/26/11 11:44:00	N II
<Q1100758-11	Alkalinity as CaCO3, Total DUP	DUP	K1100661-002	Water	252.00 mg/L	30 mL	252 mg/L	1	3.0	9.0		6	1/26/11 11:44:00	N IV
<Q1100758-11	Bicarbonate as CaCO3 DUP	DUP	K1100661-002	Water	252.00 mg/L	30 mL	252 mg/L	1	3.0	9.0		6	1/26/11 11:44:00	N IV
<Q1100758-11	Carbonate as CaCO3 DUP	DUP	K1100661-002	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0		NC	1/26/11 11:44:00	N IV
<Q1100758-11	Hydroxide as CaCO3 DUP	DUP	K1100661-002	Water	0.00 mg/L	30 mL	9.0 mg/L	U 1	3.0	9.0		NC	1/26/11 11:44:00	N IV

BoK
1/27/11

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

Date: 01/26/2011
 RunID = Z0126111049
 InstrumentID = SN=1234A
 Site Name = Your Company Name Here
 Analyst = ACQWE
 Test Name/ID = ALK
 Titrant Name/ID = HCl 0.02N Ricca lot#1002358
 Standard(s) Name/ID = LCS TV=80.0 ERA lot#S166-698

copy labels

Test ID	LIMS ID	Meth	Smpl	pH	SmplVol	SmplResult	Units	End Pt	Slope	Calc	Date	Time	Analst	Run ID	Inst ID
ALK	Mb-1	3	1	5.80	30	5.4923	ppm/l	0.165 mL (135.0 mV)	58.48	01082	01-25-11	23:44	ACQWE	Z0126111049	SN=123
ALK	LCS-1	3	2	8.88	30	47.064	ppm/l	1.411 mL (87.3 mV)	58.48	01082	01-25-11	23:46	ACQWE	Z0126111049	SN=123
ALK	LCS-1	3	2	8.88	30	81.854	ppm/l	2.453 mL (135.0 mV)	58.48	01082	01-25-11	23:46	ACQWE	Z0126111049	SN=123
ALK	K1100642-001.01	3	3	6.51	30	23.694	ppm/l	0.710 mL (135.0 mV)	58.48	01082	01-25-11	23:52	ACQWE	Z0126111049	SN=123
ALK	K1100642-001.D	3	4	6.47	30	24.486	ppm/l	0.734 mL (135.0 mV)	58.48	01082	01-25-11	23:56	ACQWE	Z0126111049	SN=123
ALK	K1100642-002.01	3	5	5.79	30	8.5008	ppm/l	0.255 mL (135.0 mV)	58.48	01082	01-25-11	23:59	ACQWE	Z0126111049	SN=123
ALK	K1100642-003.01	3	6	5.43	30	5.2480	ppm/l	0.157 mL (135.0 mV)	58.48	01082	01-26-11	00:03	ACQWE	Z0126111049	SN=123
ALK	K1100642-004.01	3	7	6.44	30	21.787	ppm/l	0.653 mL (135.0 mV)	58.48	01082	01-26-11	00:06	ACQWE	Z0126111049	SN=123
ALK	K1100642-005.01	3	8	6.53	30	23.836	ppm/l	0.714 mL (135.0 mV)	58.48	01082	01-26-11	00:09	ACQWE	Z0126111049	SN=123
ALK	K1100642-006.01	3	9	8.41	30	1.2258	ppm/l	0.037 mL (87.3 mV)	58.48	01082	01-26-11	00:13	ACQWE	Z0126111049	SN=123
ALK	K1100642-007.01	3	9	8.41	30	72.764	ppm/l	2.181 mL (135.0 mV)	58.48	01082	01-26-11	00:13	ACQWE	Z0126111049	SN=123
ALK	K1100642-008.01	3	10	6.66	30	7.0641	ppm/l	0.212 mL (135.0 mV)	58.48	01082	01-26-11	00:18	ACQWE	Z0126111049	SN=123
ALK	K1100642-009.01	3	11	6.72	30	7.2792	ppm/l	0.218 mL (135.0 mV)	58.48	01082	01-26-11	00:21	ACQWE	Z0126111049	SN=123
ALK	K1100726-001	3	12	6.96	30	12.779	ppm/l	0.383 mL (135.0 mV)	58.48	01082	01-26-11	00:24	ACQWE	Z0126111049	SN=123
ALK	K1100726-003.01	3	13	6.95	30	12.138	ppm/l	0.364 mL (135.0 mV)	58.48	01082	01-26-11	00:27	ACQWE	Z0126111049	SN=123
ALK	K1100726-004.01	3	16	5.64	30	5.3261	ppm/l	0.160 mL (135.0 mV)	58.48	01082	01-26-11	00:38	ACQWE	Z0126111049	SN=123
ALK	K1100726-005.01	3	17	7.90	30	68.712	ppm/l	2.059 mL (135.0 mV)	58.48	01082	01-26-11	00:40	ACQWE	Z0126111049	SN=123
ALK	K1100726-006.01	3	18	7.67	30	39.844	ppm/l	1.194 mL (135.0 mV)	58.48	01082	01-26-11	00:46	ACQWE	Z0126111049	SN=123
ALK	K1100686-001.05	3	19	6.93	30	79.732	ppm/l	2.390 mL (135.0 mV)	58.48	01082	01-26-11	00:50	ACQWE	Z0126111049	SN=123
ALK	K1100686-002.05	3	20	6.85	30	80.601	ppm/l	2.416 mL (135.0 mV)	58.48	01082	01-26-11	00:56	ACQWE	Z0126111049	SN=123
ALK	K1100686-003.05	3	21	6.87	30	79.441	ppm/l	2.381 mL (135.0 mV)	58.48	01082	01-26-11	01:01	ACQWE	Z0126111049	SN=123
ALK	K1100686-004.05	3	22	7.97	30	78.888	ppm/l	2.365 mL (135.0 mV)	58.48	01082	01-26-11	01:07	ACQWE	Z0126111049	SN=123
ALK	K1100686-005.05	3	23	7.96	30	77.176	ppm/l	2.313 mL (135.0 mV)	58.48	01082	01-26-11	01:12	ACQWE	Z0126111049	SN=123
ALK	MB-2	3	24	6.07	30	5.8936	ppm/l	0.177 mL (135.0 mV)	58.48	01082	01-26-11	01:19	ACQWE	Z0126111049	SN=123
ALK	LCS-2	3	25	8.94	30	43.624	ppm/l	1.308 mL (87.3 mV)	58.48	01082	01-26-11	01:21	ACQWE	Z0126111049	SN=123
ALK	LCS-2	3	25	8.94	30	77.996	ppm/l	2.338 mL (135.0 mV)	58.48	01082	01-26-11	01:21	ACQWE	Z0126111049	SN=123
ALK	K1100686-006.05	3	26	7.91	30	75.475	ppm/l	2.262 mL (135.0 mV)	58.48	01082	01-26-11	01:27	ACQWE	Z0126111049	SN=123
ALK	K1100686-006.d	3	27	7.92	30	80.877	ppm/l	2.424 mL (135.0 mV)	58.48	01082	01-26-11	01:32	ACQWE	Z0126111049	SN=123
ALK	K1100686-007.05	3	28	7.94	30	79.855	ppm/l	2.394 mL (135.0 mV)	58.48	01082	01-26-11	01:37	ACQWE	Z0126111049	SN=123
ALK	K1100661-001.03	3	29	7.38	30	196.28	ppm/l	5.883 mL (135.0 mV)	58.48	01082	01-26-11	01:43	ACQWE	Z0126111049	SN=123
ALK	K1100661-002.03	3	30	7.49	30	267.76	ppm/l	8.026 mL (135.0 mV)	58.48	01082	01-26-11	01:53	ACQWE	Z0126111049	SN=123

23393

Test ID	LIMS ID	Medl Smp	pH	SmpVol	SmpResults	Units	End Pt	Slope (r)	Calc C	Date	Time	Analyst	Run ID	Instr ID
ALK	K1100661-002.d	31	7.50	30	251.57	ppm/l	7.540 mL (135.0 mL)	58.48	01082	01-26-11	02:05	ACQWE	Z0126111049	SN=123
ALK	K1100661-003.03	32	7.27	30	205.52	ppm/l	6.160 mL (135.0 mL)	58.48	01082	01-26-11	02:17	ACQWE	Z0126111049	SN=123
ALK	K1100661-004.03	33	7.65	30	274.42	ppm/l	8.225 mL (135.0 mL)	58.48	01082	01-26-11	02:28	ACQWE	Z0126111049	SN=123
ALK	K1100661-005.03	34	7.59	30	218.35	ppm/l	6.544 mL (135.0 mL)	58.48	01082	01-26-11	02:41	ACQWE	Z0126111049	SN=123
ALK	K1100661-006.03	35	6.41	30	6.2813	ppm/l	0.188 mL (135.0 mL)	58.48	01082	01-26-11	02:52	ACQWE	Z0126111049	SN=123
ALK	K1100661-007.03	36	6.38	30	6.2610	ppm/l	0.188 mL (135.0 mL)	58.48	01082	01-26-11	02:54	ACQWE	Z0126111049	SN=123
ALK	MB-3	37	5.60	30	5.1244	ppm/l	0.154 mL (135.0 mL)	58.48	01082	01-26-11	02:58	ACQWE	Z0126111049	SN=123

LC5-1 %Rec = 102

642-1 $\bar{x} = 24.1$ RPD = 3

LC5-2 %Rec = 97
CV 11.26%

646-6 $\bar{x} = 75.5$ RPD = 7
78.2

641-2 $\bar{x} = 260$ RPD = 6

BDK

1/27/11

Metals

Columbia Analytical Services

- Cover Page - INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent
Project Name: Heglar Kronquist
Project No.: 0907194.000.0901

Service Request: K1100661

Sample Name:

MW-1D

MW-1

MW-1S

MW-2

MW-4

MW-5

MW-6

EB-012311

EB-012411

Method Blank

Lab Code:

K1100661-001DDISS

K1100661-001DISS

K1100661-001SDISS

K1100661-002DISS

K1100661-003DISS

K1100661-004DISS

K1100661-005DISS

K1100661-006DISS

K1100661-007DISS

K1100661-MB

Comments:

Approved By: SC

Date: 2/23/11

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent
 Project No.: 0907194.000.0901
 Project Name: Heglar Kronquist
 Matrix: WATER

Service Request: K1100661
 Date Collected: 01/24/11
 Date Received: 01/25/11
 Units: ug/L
 Basis: NA

Sample Name: MW-1

Lab Code: K1100661-001DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	01/31/11	02/01/11	30	U	
Arsenic	200.8	0.50	0.07	1.0	01/31/11	02/02/11	0.90		
Calcium	200.7	50.0	6.0	1.0	01/31/11	02/01/11	46500		
Iron	200.7	20.0	0.8	1.0	01/31/11	02/01/11	15.5	J	
Magnesium	200.7	20.0	0.3	1.0	01/31/11	02/01/11	12800		
Manganese	200.7	5.0	0.2	1.0	01/31/11	02/01/11	3.5	J	
Potassium	200.7	400	40	1.0	01/31/11	02/01/11	28300		
Sodium	200.7	100	20	1.0	01/31/11	02/01/11	85500		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent	Service Request: K1100661
Project No.: 0907194.000.0901	Date Collected: 01/24/11
Project Name: Heglar Kronquist	Date Received: 01/25/11
Matrix: WATER	Units: ug/L
	Basis: NA

Sample Name: MW-2

Lab Code: K1100661-002DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	01/31/11	02/01/11	482		
Arsenic	200.8	0.50	0.07	1.0	01/31/11	02/02/11	0.90		
Calcium	200.7	50.0	6.0	1.0	01/31/11	02/01/11	95700		
Iron	200.7	20.0	0.8	1.0	01/31/11	02/01/11	941		
Magnesium	200.7	20.0	0.3	1.0	01/31/11	02/01/11	29700		
Manganese	200.7	5.0	0.2	1.0	01/31/11	02/01/11	167		
Potassium	200.7	400	40	1.0	01/31/11	02/01/11	5900		
Sodium	200.7	100	20	1.0	01/31/11	02/01/11	24300		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1100661
 Project No.: 0907194.000.0901 Date Collected: 01/24/11
 Project Name: Heglar Kronquist Date Received: 01/25/11
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: MW-4 Lab Code: K1100661-003DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	01/31/11	02/01/11	30	U	
Arsenic	200.8	0.50	0.07	1.0	01/31/11	02/02/11	0.50	J	
Calcium	200.7	50.0	6.0	1.0	01/31/11	02/01/11	178000		
Iron	200.7	20.0	0.8	1.0	01/31/11	02/01/11	9.6	J	
Magnesium	200.7	20.0	0.3	1.0	01/31/11	02/01/11	58200		
Manganese	200.7	5.0	0.2	1.0	01/31/11	02/01/11	116		
Potassium	200.7	400	40	1.0	01/31/11	02/01/11	29900		
Sodium	200.7	100	20	1.0	01/31/11	02/01/11	154000		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent	Service Request: K1100661
Project No.: 0907194.000.0901	Date Collected: 01/23/11
Project Name: Heglar Kronquist	Date Received: 01/25/11
Matrix: WATER	Units: ug/L
	Basis: NA

Sample Name: MW-5

Lab Code: K1100661-004DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	01/31/11	02/01/11	30	U	
Arsenic	200.8	0.50	0.07	1.0	01/31/11	02/02/11	0.78		
Calcium	200.7	50.0	6.0	1.0	01/31/11	02/01/11	82000		
Iron	200.7	20.0	0.8	1.0	01/31/11	02/01/11	3.1	J	
Magnesium	200.7	20.0	0.3	1.0	01/31/11	02/01/11	32500		
Manganese	200.7	5.0	0.2	1.0	01/31/11	02/01/11	4.2	J	
Potassium	200.7	400	40	1.0	01/31/11	02/01/11	4250		
Sodium	200.7	100	20	1.0	01/31/11	02/01/11	31800		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1100661
 Project No.: 0907194.000.0901 Date Collected: 01/23/11
 Project Name: Heglär Kronquist Date Received: 01/25/11
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: MW-6 Lab Code: K1100661-005DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	01/31/11	02/01/11	30	U	
Arsenic	200.8	0.50	0.07	1.0	01/31/11	02/02/11	2.72		
Calcium	200.7	50.0	6.0	1.0	01/31/11	02/01/11	73300		
Iron	200.7	20.0	0.8	1.0	01/31/11	02/01/11	22.0		
Magnesium	200.7	20.0	0.3	1.0	01/31/11	02/01/11	22800		
Manganese	200.7	5.0	0.2	1.0	01/31/11	02/01/11	25.1		
Potassium	200.7	400	40	1.0	01/31/11	02/01/11	5090		
Sodium	200.7	100	20	1.0	01/31/11	02/01/11	23600		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1100661
 Project No.: 0907194.000.0901 Date Collected: 01/23/11
 Project Name: Heglar Kronquist Date Received: 01/25/11
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: EB-012311

Lab Code: K1100661-006DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	01/31/11	02/01/11	30	U	
Arsenic	200.8	0.50	0.07	1.0	01/31/11	02/02/11	0.07	U	
Calcium	200.7	50.0	6.0	1.0	01/31/11	02/01/11	59.4		
Iron	200.7	20.0	0.8	1.0	01/31/11	02/01/11	1.2	J	
Magnesium	200.7	20.0	0.3	1.0	01/31/11	02/01/11	17.4	J	
Manganese	200.7	5.0	0.2	1.0	01/31/11	02/01/11	0.2	U	
Potassium	200.7	400	40	1.0	01/31/11	02/01/11	40	U	
Sodium	200.7	100	20	1.0	01/31/11	02/01/11	171		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1100661
 Project No.: 0907194.000.0901 Date Collected: 01/24/11
 Project Name: Heglar Kronquist Date Received: 01/25/11
 Matrix: WATER Units: ug/L
 Basis: NA

Sample Name: EB-012411 Lab Code: K1100661-007DISS

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	01/31/11	02/01/11	30	U	
Arsenic	200.8	0.50	0.07	1.0	01/31/11	02/02/11	0.07	U	
Calcium	200.7	50.0	6.0	1.0	01/31/11	02/01/11	177		
Iron	200.7	20.0	0.8	1.0	01/31/11	02/01/11	20.4		
Magnesium	200.7	20.0	0.3	1.0	01/31/11	02/01/11	58.9		
Manganese	200.7	5.0	0.2	1.0	01/31/11	02/01/11	1.9	J	
Potassium	200.7	400	40	1.0	01/31/11	02/01/11	40	U	
Sodium	200.7	100	20	1.0	01/31/11	02/01/11	862		

% Solids: 0.0

Comments:

Metals

- 1 -

INORGANIC ANALYSIS DATA PACKAGE

Client: Exponent Service Request: K1100661
 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: K1100661-MB

Analyte	Analysis Method	MRL	MDL	Dil. Factor	Date Extracted	Date Analyzed	Result	C	Q
Aluminum	200.7	50	30	1.0	01/31/11	02/01/11	30	U	
Arsenic	200.8	0.50	0.07	1.0	01/31/11	02/02/11	0.07	U	
Calcium	200.7	50.0	6.0	1.0	01/31/11	02/01/11	6.0	U	
Iron	200.7	20.0	0.8	1.0	01/31/11	02/01/11	0.8	U	
Magnesium	200.7	20.0	0.3	1.0	01/31/11	02/01/11	0.3	U	
Manganese	200.7	5.0	0.2	1.0	01/31/11	02/01/11	0.2	U	
Potassium	200.7	400	40	1.0	01/31/11	02/01/11	40	U	
Sodium	200.7	100	20	1.0	01/31/11	02/01/11	20	U	

% Solids: 0.0

Comments:

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1100661

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)	
Aluminum	5000	5029	101	5000	5125	102	5215	104	200.7
Arsenic	25.0	24.9	100	25.0	24.7	99	24.9	100	200.8
Calcium	5000	5095	102	2500	2577	103	2579	103	200.7
Calcium	12500	13057	104	25000	26042	104	25950	104	200.7
Iron	2500	2380	95	500	515	103	532	106	200.7
Iron	10000	10223	102	25000	25891	104	25799	103	200.7
Magnesium	5000	5026	101	2000	2075	104	2071	104	200.7
Magnesium	12500	12676	101	25000	25562	102	25764	103	200.7
Manganese	1250	1200	96	1000	1018	102	1023	102	200.7
Manganese	10000	10225	102	5000	5152	103	5126	103	200.7
Potassium	12500	12486	100	10000	10110	101	10235	102	200.7
Sodium	12500	11935	95	10000	10176	102	10180	102	200.7

Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Exponent

Service Request: K1100661

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)	
Aluminum				5000	5030	101	5024	100	200.7
Arsenic				25.0	24.9	100			200.8
Calcium				2500	2568	103	2494	100	200.7
Calcium				25000	25717	103	25541	102	200.7
Iron				500	523	105	503	101	200.7
Iron				25000	25402	102	24758	99	200.7
Magnesium				2000	2085	104	2059	103	200.7
Magnesium				25000	25399	102	25371	101	200.7
Manganese				1000	996	100	952	95	200.7
Manganese				5000	5058	101	4972	99	200.7
Potassium				10000	10002	100	10005	100	200.7
Sodium				10000	9898	99	9366	94	200.7

Metals

- 2b -

CRDL STANDARD FOR AA AND ICP

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

Concentration Units: ug/L

Analyte	CRDL Standard for AA			CRDL Standard for ICP				
	True	Found	%R	Initial		Final		
	True	Found	%R	True	Found	%R	Found	%R
Aluminum				50.00	57.73	115		
Arsenic				0.50	0.52	104		
Calcium				50.00	40.59	81		
Iron				20.00	19.63	98		
Magnesium				20.00	17.83	89		
Manganese				5.00	5.30	106		
Potassium				400.00	391.78	98		
Sodium				200.00	195.51	98		

Metals

- 3 -

BLANKS

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
		C	1	C	2	C	3	C	
Aluminum	30	U	30	U	30	U	30	U	200.7
Arsenic	0.07	U	0.07	U	0.07	U	0.07	U	200.8
Calcium	-7.6	J	6.0	U	6.0	U	6.0	U	200.7
Iron	0.8	U	0.8	U	1.1	J	0.8	U	200.7
Magnesium	-0.7	J	1.8	J	2.1	J	2.9	J	200.7
Manganese	0.8	J	0.3	J	0.6	J	0.5	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

- 3 -

BLANKS

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

Concentration Units: ug/L

Analyte	Initial Calib. Blank		Continuing Calibration Blank						Method
	C		1	C	2	C	3	C	
Aluminum			30	U					200.7
Calcium			6.0	U					200.7
Iron			0.8	U					200.7
Magnesium			3.1	J					200.7
Manganese			0.4	J					200.7
Potassium			40	U					200.7
Sodium			20	U					200.7

Metals

- 4 -

ICP INTERFERENCE CHECK SAMPLE

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglar 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
Aluminum	500000	500000	515538	513262.0	102.7			
Calcium	500000	500000	503104	499208.5	99.8			
Iron	200000	200000	199536	195025.0	97.5			
Magnesium	500000	500000	538686	527879.9	105.6			
Manganese		500	-17	419.6	83.9			
Potassium			-75	-62.7				
Sodium			16	18.4				

80-120% control criteria is not applicable to interfering elements (Al, Ca, Fe, Mg).

Metals

- 5A -

SPIKE SAMPLE RECOVERY

Client: Exponent
 Project No.: 0907194.000.0901
 Project Name: Heglar Kronquist
 Matrix: WATER

Service Request: K1100661
 Units: UG/L
 Basis: NA
 % Solids: 0.0

Sample Name: MW-1S

Lab Code: K1100661-001SDISS

Analyte	Control Limit %R	Spike Result C	Sample Result C	Spike Added	%R	Q	Method
Aluminum	70 - 130	2100	30 U	2000.00	105.0		200.7
Arsenic	70 - 130	21.8	0.90	20.00	104.5		200.8
Calcium		57900	46500	10000.00	114.0		200.7
Iron	70 - 130	999	15.5 J	1000.00	98.4		200.7
Magnesium	70 - 130	23700	12800	10000.00	109.0		200.7
Manganese	70 - 130	471	3.5 J	500.00	93.5		200.7
Potassium	70 - 130	39400	28300	10000.00	111.0		200.7
Sodium		102000	85500	10000.00	165.0		200.7

An empty field in the Control Limit column indicates the control limit is not applicable

Metals

- 6 -

DUPLICATES

Client: Exponent Service Request: K1100661
 Project No.: 0907194.000.0901 Units: UG/L
 Project Name: Heglar Kronquist Basis: NA
 Matrix: WATER % Solids: 0.0

Sample Name: MW-1D

Lab Code: K1100661-001DDISS

Analyte	Control Limit	Sample (S)	C	Duplicate (D)	C	RPD	Q	Method
Aluminum		30	U	30	U			200.7
Arsenic		0.90		0.95		5.4		200.8
Calcium	20	46500		46700		0.4		200.7
Iron		15.5	J	15.3	J	1.3		200.7
Magnesium	20	12800		13100		2.3		200.7
Manganese		3.5	J	3.5	J	0.0		200.7
Potassium	20	28300		28900		2.1		200.7
Sodium	20	85500		89400		4.5		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: K1100661

Project No.: 0907194.000.0901

Project Name: Heglär Kronquist

Aqueous LCS Source: CAS MIXED

Solid LCS Source:

Analyte	Aqueous: ug/L			Solid: mg/kg				
	True	Found	%R	True	Found	C	Limits	%R
Aluminum	5000	5150	103.0					
Arsenic	20	19.6	98.0					
Calcium	12500	13200	105.6					
Iron	2500	2430	97.2					
Magnesium	12500	12900	103.2					
Manganese	1250	1230	98.4					
Potassium	12500	12700	101.6					
Sodium	12500	12300	98.4					

Metals

- 9 -

ICP SERIAL DILUTIONS

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Units: UG/L

Project Name: Heglar Kronquist

Sample Name: MW-1L

Lab Code: K1100661-001LDISS

Analyte	Initial Sample Result (I) C	Serial Dilution Result (S) C	% Differ- ence	Q	M
Aluminum	30.00 U	150.00 U			P
Calcium	46529.66	47228.20	1.5		P
Iron	15.53 J	6.90 J	55.6		P
Magnesium	12823.21	13480.25	5.1		P
Manganese	3.48 J	2.25 J	35.3		P
Potassium	28272	27934	1		P
Sodium	85534.55	87363.75	2.1		P

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1100661

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
Aluminum	237.3		50	30.0	P
Calcium	211.2		50	6.0	P
Iron	259.90		20	0.8	P
Magnesium	202.5		20	0.3	P
Manganese	257.61		5	0.2	P
Potassium	766.49		400	40.0	P
Sodium	589.5		100	20.0	P

Comments:

Metals

- 10 -

DETECTION LIMITS

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglur Kronquist

ICP/ICP-MS ID #: K-ICP-MS-02

GFAA ID #:

AA ID #:

Analyte	Isotope	Back-ground	MRL ug/L	MDL ug/L	M
Arsenic	75		0.5	0.07	MS

Comments:

Metals

- 11A -

ICP INTERELEMENT CORRECTION FACTORS

Client: Exponent

Service Request: K1100661

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: K1100661

Project No.: 0907194.000.0901

Project Name: Heglar 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: K1100661

Project No.: 0907194.000.0901

Project Name: Heglär 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: K1100661

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-AES-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Aluminum	5.000	900000	200.7
Calcium	5.000	1800000	200.7
Iron	5.000	900000	200.7
Magnesium	5.000	900000	200.7
Manganese	5.000	180000	200.7
Potassium	5.000	450000	200.7
Sodium	5.000	180000	200.7

Comments:

Metals

-12-

ICP LINEAR RANGES (QUARTERLY)

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

ICP ID Number: K-ICP-MS-02

Analyte	Integ. Time (Sec.)	Concentration (ug/L)	Method
Arsenic	15.000	900	200.8

Comments:

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Method: P

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1100661-001DDISS	01/31/11	50.0	50.0
K1100661-001DISS	01/31/11	50.0	50.0
K1100661-001SDISS	01/31/11	50.0	50.0
K1100661-002DISS	01/31/11	50.0	50.0
K1100661-003DISS	01/31/11	50.0	50.0
K1100661-004DISS	01/31/11	50.0	50.0
K1100661-005DISS	01/31/11	50.0	50.0
K1100661-006DISS	01/31/11	50.0	50.0
K1100661-007DISS	01/31/11	50.0	50.0
K1100661-MB	01/31/11	50.0	50.0
LCSW	01/31/11	50.0	50.0

Metals
-13-
PREPARATION LOG

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Method: MS

Sample ID	Preparation Date	Initial Volume	Final Volume (mL)
K1100661-001DDISS	01/31/11	50.0	50.0
K1100661-001DISS	01/31/11	50.0	50.0
K1100661-001SDISS	01/31/11	50.0	50.0
K1100661-002DISS	01/31/11	50.0	50.0
K1100661-003DISS	01/31/11	50.0	50.0
K1100661-004DISS	01/31/11	50.0	50.0
K1100661-005DISS	01/31/11	50.0	50.0
K1100661-006DISS	01/31/11	50.0	50.0
K1100661-007DISS	01/31/11	50.0	50.0
K1100661-MB	01/31/11	50.0	50.0
LCSW	01/31/11	50.0	50.0

Metals
- 14 -
ANALYSIS RUN LOG

Client: Exponent

Service Request: K1100661

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 02/01/11

End Date: 02/01/11

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				
Blank	1	15:31		X					X				X	X	X			X			X										
STDB	1	15:34		X					X				X	X	X			X			X										
STDA	1	15:37							X				X	X	X																
ICV1	1	15:40		X					X				X	X	X			X			X										
ICV1	1	15:43							X				X	X	X																
ICB1	1	15:46		X					X				X	X	X			X			X										
CCV1	1	15:50		X					X				X	X	X			X			X										
CCV1	1	15:56							X				X	X	X																
CCB1	1	16:01		X					X				X	X	X			X			X										
CRA1	1	16:04		X					X				X	X	X			X			X										
ZZZZZ	1	16:07																													
ICS-A1	1	16:10		X					X				X	X	X			X			X										
ICS-AB1	1	16:13		X					X				X	X	X			X			X										
ZZZZZ	1	16:16																													
CCV2	1	16:19		X					X				X	X	X			X			X										
CCV2	1	16:22							X				X	X	X																
CCB2	1	16:25		X					X				X	X	X			X			X										
ZZZZZ	1	16:28																													
K1100661-MB	1	16:31		X					X				X	X	X			X			X										
LCSW	1	16:34		X					X				X	X	X			X			X										
ZZZZZ	1	16:36																													
K1100661-001DISS	1	16:39		X					X				X	X	X			X			X										
K1100661-001LDISS	5	16:42		X					X				X	X	X			X			X										
K1100661-001DDISS	1	16:45		X					X				X	X	X			X			X										
K1100661-001SDISS	1	16:48		X					X				X	X	X			X			X										
ZZZZZ	1	16:51																													
ZZZZZ	1	16:54																													
CCV3	1	16:57		X					X				X	X	X			X			X										
CCV3	1	17:00							X				X	X	X																
CCB3	1	17:03		X					X				X	X	X			X			X										
ZZZZZ	1	17:08																													
K1100661-002DISS	1	17:11		X					X				X	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: K1100661

Project No.: 0907194.000.0901

Project Name: Heglar Kronquist

Instrument ID Number: K-ICP-AES-02

Method: P

Start Date: 02/01/11

End Date: 02/01/11

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
K1100661-003DISS	1	17:14		X					X				X	X	X			X			X					
K1100661-004DISS	1	17:17		X					X				X	X	X			X			X					
K1100661-005DISS	1	17:20		X					X				X	X	X			X			X					
K1100661-006DISS	1	17:23		X					X				X	X	X			X			X					
K1100661-007DISS	1	17:26		X					X				X	X	X			X			X					
ZZZZZZ	1	17:29																								
ZZZZZZ	1	17:32																								
ZZZZZZ	1	17:35																								
CCV4	1	17:38		X					X				X	X	X			X			X					
CCV4	1	17:41							X				X	X	X											
CCB4	1	17:44		X					X				X	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: K1100661

Project No.: 0907194.000.0901

Project Name: Heglur Kronquist

Instrument ID Number: K-ICP-MS-02

Method: MS

Start Date: 02/02/11

End Date: 02/02/11

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
Cal. Blk	1	12:25				X																				
Cal. Stn	1	12:27				X																				
ICV1	1	12:30				X																				
CCV1	1	12:32				X																				
ICB1	1	12:34				X																				
CCB1	1	12:36				X																				
CRA1	1	12:39				X																				
K1100661-MB	1	12:41				X																				
LCSW	1	12:43				X																				
ZZZZZZ	1	12:45																								
K1100661-001DISS	1	12:47				X																				
K1100661-001DDISS	1	12:50				X																				
K1100661-001SDISS	1	12:52				X																				
K1100661-002DISS	1	12:54				X																				
K1100661-003DISS	1	12:56				X																				
K1100661-004DISS	1	12:58				X																				
K1100661-005DISS	1	13:01				X																				
CCV2	1	13:03				X																				
CCB2	1	13:05				X																				
K1100661-006DISS	1	13:07				X																				
K1100661-007DISS	1	13:10				X																				
ZZZZZZ	1	13:12																								
ZZZZZZ	1	13:14																								
ZZZZZZ	1	13:16																								
ZZZZZZ	1	13:18																								
ZZZZZZ	1	13:21																								
CCV3	1	13:23				X																				
CCB3	1	13:25				X																				

* - Denotes additional elements (other than the standard CLP elements) are represented on another Form 14

Metals

15-IN

ICP-MS INTERNAL STANDARDS RELATIVE INTENSITY SUMMARY

Lab Name: Columbia Analytical Services Contract: 0907194.000.0901
 Lab Code: CAS Case No.: _____ NRAS No.: _____ SDG NO.: K1100661
 ICP-MS Instrument ID: K-ICP-MS-02 Start Date: 02/02/2011 End Date: 02/02/2011

Sample No.	Client ID	Time	Internal Standards %RI For:												
			Element		Element		Element		Element		Element				
			Ga_71	Q	Rh_103	Q		Q		Q		Q			
Cal. Blk	Cal. Blk	1225	100		100										
Cal. Stn	Cal. Stn	1227	96		98										
ICV1	ICV1	1230	92		94										
CCV1	CCV1	1232	90		93										
ICB1	ICB1	1234	89		92										
CCB1	CCB1	1236	88		92										
CRA1	WATER CRA	1239	88		92										
K1100661-MB	Method Blank	1241	89		91										
LCSW	LCSW	1243	87		89										
ZZZZZZ	ZZZZZZ	1245													
K1100661-001DISS	MW-1	1247	80		75										
K1100661-001DDIS	MW-1D	1250	81		76										
K1100661-001SDIS	MW-1S	1252	79		75										
K1100661-002DISS	MW-2	1254	83		79										
K1100661-003DISS	MW-4	1256	72		66										
K1100661-004DISS	MW-5	1258	83		81										
K1100661-005DISS	MW-6	1301	84		82										
CCV2	CCV2	1303	93		92										
CCB2	CCB2	1305	92		90										
K1100661-006DISS	EB-012311	1307	92		91										
K1100661-007DISS	EB-012411	1310	91		89										
ZZZZZZ	ZZZZZZ	1312													
ZZZZZZ	ZZZZZZ	1314													
ZZZZZZ	ZZZZZZ	1316													
ZZZZZZ	ZZZZZZ	1318													
ZZZZZZ	ZZZZZZ	1321													
CCV3	CCV3	1323	91		88										
CCB3	CCB3	1325	90		86										

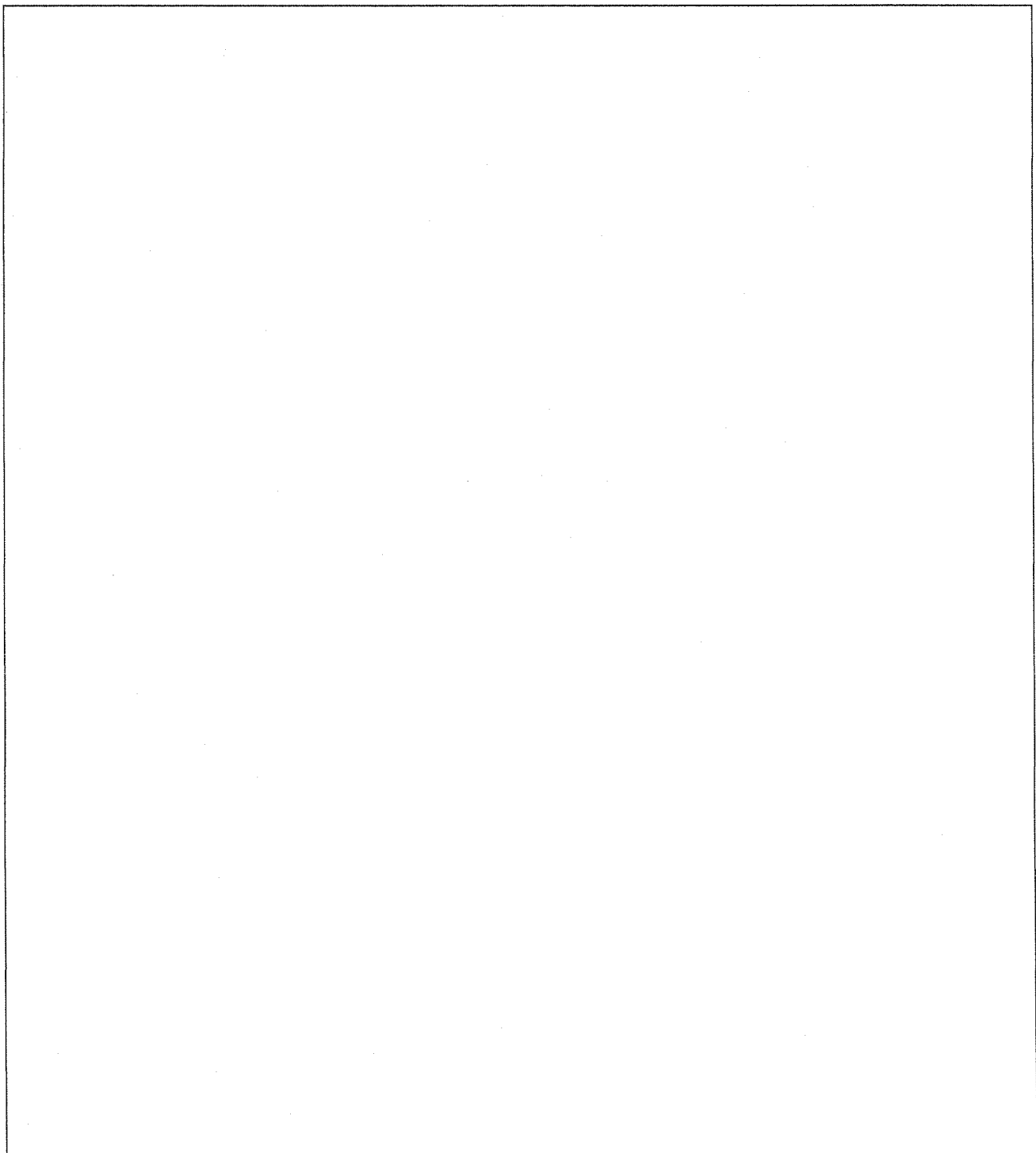
Analytical Services Preparation Information Worksheet

Prep Run: 128041 **Prep Workflow:** MetDigAqMS **Status:** Prepped **Prep Date:** 01/31/2011
Team: Metals **Prep Method:** EPA CLP- **Current Step:** Digestion **Due Date:** 14:35
Analyst: KRisteska **Rush/NPDES:** NPDES **ILM04.0,**

Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1100869-01	Method Blank		50 mL	50 mL			Metals T	1%HNO3 Ultrex
KQ1100869-02	Lab Control Sample		50 mL	50 mL	1 mL 0.1 mL 1 mL	20439 21053 21569	Metals T	1%HNO3 Ultrex
KQ1100869-03	Lab Control Sample		50 mL	50 mL	0.5 mL	23359	Metals T	1%HNO3 Ultrex
K1100661-001	MW-1	.05	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100661-001: KQ1100869-04	Duplicate	.05	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100661-001: KQ1100869-05	Matrix Spike	.05	50 mL	50 mL	1 mL 0.1 mL 1 mL	20439 21053 21569	Metals D	1%HNO3 Ultrex
K1100661-002	MW-2	.05	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100661-003	MW-4	.05	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100661-004	MW-5	.05	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100661-005	MW-6	.05	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100661-006	EB-012311	.05	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100661-007	EB-012411	.05	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100671-001	T67520-1/AB33830	.07	50 mL	50 mL			Metals T	1%HNO3 Ultrex
K1100681-001	Well Head	.04	50 mL	50 mL			Metals T	1%HNO3 Ultrex
K1100692-001	MW-3	.11	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100692-002	MW-7	.11	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100692-002: KQ1100869-06	Duplicate	.11	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100692-002: KQ1100869-07	Matrix Spike	.11	50 mL	50 mL	1 mL 0.1 mL 1 mL	20439 21053 21569	Metals D	1%HNO3 Ultrex
K1100692-003	EB-012511	.11	50 mL	50 mL			Metals D	1%HNO3 Ultrex
K1100712-001	Toma #23	.04	50 mL	50 mL			Metals T	1%HNO3 Ultrex
K1100735-001	B.G. Kinsman/Boberg	.03	50 mL	50 mL			Metals T	1%HNO3 Ultrex
K1100736-001	B.G. Utility Vault	.03	50 mL	50 mL			Metals T	1%HNO3 Ultrex

 **Columbia Analytical Services** Preparation Information Benchsheet

Prep Run: 128035	Prep Workflow: MetDigAqICP	Status: Prepped	Prep Date: 01/31/2011
Team: Metals	EPA CLP-	Current Step: Digestion	14:35
Analyst: KRisteska	Prep Method: METALS		Due Date: 02/11/2011
	ILM04.0		
	Rush/NPDES: NPDES		



Lab Code	Client ID	Bottle #	Initial Amt	Final Volume	Spike Amt	Spike ID	TestNo List	Comments
KQ1100868-01	Method Blank		50 mL	50 mL			Metals T	1%HNO3 5%HCl
KQ1100868-02	Lab Control Sample		50 mL	50 mL	0.5 mL 0.25 mL 0.25 mL 0.25 mL 0.5 mL	15571 18109 20255 20797 25536	Metals T	1%HNO3 5%HCl
KQ1100868-03	Lab Control Sample		50 mL	50 mL			Metals T	1%HNO3 5%HCl
K1100661-001	MW-1	.05	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100661-001: KQ1100868-07	Duplicate	.05	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100661-001: KQ1100868-06	Matrix Spike	.05	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL 0.5 mL	15571 24706 25104 25344 25536	Metals D	1%HNO3 5%HCl
K1100661-002	MW-2	.05	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100661-003	MW-4	.05	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100661-004	MW-5	.05	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100661-005	MW-6	.05	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100661-006	EB-012311	.05	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100661-007	EB-012411	.05	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100681-001	Well Head	.04	50 mL	50 mL			Metals T	1%HNO3 5%HCl
K1100692-001	MW-3	.11	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100692-002	MW-7	.11	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100692-002: KQ1100868-05	Duplicate	.11	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100692-002: KQ1100868-04	Matrix Spike	.11	50 mL	50 mL	0.5 mL 0.5 mL 0.5 mL 0.5 mL 0.5 mL	15571 24706 25104 25344 25536	Metals D	1%HNO3 5%HCl
K1100692-003	EB-012511	.11	50 mL	50 mL			Metals D	1%HNO3 5%HCl
K1100712-001	Toma #23	.04	50 mL	50 mL			Metals T	1%HNO3 5%HCl
K1100767-001	ASB Out	.08	50 mL	50 mL			Metals T	1%HNO3 5%HCl

20 Total Samples consisting of 13 Client Samples, 4 Client QC Samples, 3 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	18109	6/1/2011	K-MET SS3	Spike	25104	5/31/2011
K-MET QCP-CICV-2	Spike	20797	8/1/2011	K-MET SS4	Spike	25536	7/5/2011
K-MET QCP-CICV-3	Spike	20255	8/1/2011	K-MET SS5	Spike	25344	5/5/2011
K-MET SS1	Spike	24706	11/1/2011	Titanium 1000 ug/mL Ti	Spike	15571	5/5/2011

METALS SPIKING SOLUTIONS CONCENTRATIONS FORM

Solution Name	Element	mLs of 1000ppm Solution	Final Volume	Solution Conc. mg/L	Enter mLs Added
K-MET SS1	HNO3	50.0	1000ml	-	0.5 → To MS
	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	HNO3	25.0	500ml	-	0.5 → To MS
	As	50.0	500ml	100	
	Se	50.0	500ml	100	
	Tl	50.0	500ml	100	
K-MET SS4	HNO3	25	500ml	-	0.5 → To LCS & MS
	B	50	500ml	100	
	Mo	50	500ml	100	
K-MET SS5	HNO3	10.0	200ml	-	0.5 → To MS
	K**	20	200ml	1000	
	Na**	20	200ml	1000	
	Mg**	20	200ml	1000	
	Ca**	20	200ml	1000	

K-MET GFLCSW	HNO3	10.0	1000ml	-	
	As, Pb, Se, Tl	5.0	1000ml	2.5	
	Cd	-	-	1.25	
	Cr	2.5	1000ml	2.5	
K-MET QCP-CICV-1	Ca, Mg, Na, K	no dilution	-	2500	0.25
	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	Sb	no dilution	-	500	0.25
K-MET QCP-CICV-3	As, Pb, Se, Tl	no dilution	-	500	0.25
	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
Ti	0.50	1000	Met 1 - 80 - 6	5/5/11

Service Request # K1100661
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 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"/>

Comments:
File Name: 020111BICP02
Star Lims: 234443
NR Mo.
200.7 Only.

Primary Review by WS Date 2/2/11
Secondary Review by mmr Date 2/2/11

Method:	2011A	Sample Name:	Blank	Operator:	
Comment:					
Run Time:	02/01/11 15:31	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	.1796	.0594	.0131	.00027	
Stddev	.0312	.0293	.0010	.00010	
%RSD	17.38	49.31	7.419	35.970	
#1	.2017	.0801	.0138	.00034	
#2	.1576	.0387	.0124	.00020	
Elem	Be3130	B_2497	Cd2265	Ca2112	
Line	313.042 {107}	249.773 {134}	226.502 {148}	211.276 {159}	
Avg	-.00129	.4864	.0002	.4166	
Stddev	.00048	.0275	.0001	.0048	
%RSD	37.411	5.650	60.12	1.147	
#1	-.00095	.4670	.0002	.4200	
#2	-.00164	.5058	.0001	.4132	
Elem	Ca3179	Cr2677	Co2286	Cu3247	
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}	
Avg	-.0981	-.0003	.0004	.0249	
Stddev	.0137	.0000	.0001	.0039	
%RSD	13.98	10.88	28.52	15.68	
#1	-.0884	-.0002	.0005	.0276	
#2	-.1078	-.0003	.0003	.0221	
Elem	Fe2599	Fe2714	Pb2203	Mg2025	
Line	259.940 {129}	271.441 {124}	220.353 {152}	202.582 {166}	
Avg	.0023	.0006	.0001	.1396	
Stddev	.0008	.0001	.0001	.0254	
%RSD	33.65	16.11	60.41	18.23	
#1	.0028	.0006	.0001	.1216	
#2	.0017	.0005	.0001	.1576	
Elem	Mg2795	Mn2576	Mn2939	Mo2020	
Line	279.553 {120}	257.610 {131}	293.930 {114}	202.030 {166}	
Avg	.43403	.00103	-.0002	.0007	
Stddev	.05458	.00025	.0002	.0004	
%RSD	12.576	23.941	65.72	56.17	
#1	.47262	.00120	-.0004	.0010	
#2	.39543	.00085	-.0001	.0004	
Elem	Ni2316	K_7664	Se1960	Ag3280	
Line	231.604 {145}	766.490 {44}	196.090 {171}	328.068 {102}	
Avg	.0000	.3816	.0028	.0553	
Stddev	.000	.0585	.0039	.0860	
%RSD	4002.	15.34	141.4	155.6	
#1	.0001	.4230	.0000	.1161	
#2	-.0001	.3402	.0055	-.0055	

Sample Name: Blank Run Time: 02/01/11 15:31

Elem	Na5895	Sn1899	V_3102	Zn2062
Line	589.592 { 57}	189.989 {176}	310.230 {108}	206.200 {163}
Avg	.0013	.0005	.0049	.0006
Stddev	.0004	.0000	.0000	.0000
%RSD	31.80	6.098	.4590	5.528

#1	.0010	.0005	.0049	.0007
#2	.0015	.0005	.0049	.0006

Elem	P_2149	Si2516	Ti3234	Tl1908
Line	214.914 {156}	251.612 {134}	323.452 {104}	190.864 {176}
Avg	.0684	.2266	.00389	.0001
Stddev	.0264	.0665	.00009	.0000
%RSD	38.55	29.34	2.3562	54.19

#1	.0870	.1796	.00383	.0000
#2	.0498	.2736	.00396	.0001

Elem	Li6707	Sr4077
Line	670.784 { 50}	407.771 { 82}
Avg	.29166	.00226
Stddev	.00967	.00006
%RSD	3.3165	2.4638

#1	.29850	.00230
#2	.28482	.00222

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	232.84
Stddev	.62
%RSD	.26639

#1	232.41
#2	233.28

WS
2/1/11
Ummar
2/2/11

Method: 2011A Sample Name: STDB 2008-52-A Operator:

Comment:

Run Time: 02/01/11 15:34 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	18.40	2.2316	.41131	37.76
Stddev	.10	.0096	.00018	.23
%RSD	.5358	.43120	.04353	.6131

#1	18.33	2.2248	.41118	37.60
#2	18.47	2.2384	.41143	37.92

Elem	Fe2714	Mg2025	Mn2939	K_7664
Line	271.441 {124}	202.582 {166}	293.930 {114}	766.490 { 44}
Avg	.6123	54.83	.6496	205.0
Stddev	.0029	.07	.0013	.6
%RSD	.4768	.1325	.1973	.2757

#1	.6103	54.88	.6487	205.4
#2	.6144	54.78	.6505	204.6

Elem	Na5895	P_2149	Si2516	Li6707
Line	589.592 { 57}	214.914 {156}	251.612 {134}	670.784 { 50}
Avg	3.513	36.29	85.98	437.82
Stddev	.005	.22	.25	.87
%RSD	.1450	.6081	.2882	.19773

#1	3.509	36.13	85.81	438.44
#2	3.516	36.44	86.16	437.21

Elem	Sr4077
Line	407.771 { 82}
Avg	9.0960
Stddev	.0061
%RSD	.06679

#1	9.1003
#2	9.0917

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	235.14
Stddev	.12
%RSD	.04915

#1	235.06
#2	235.22

Method: 2011A Sample Name: STDA **IUPB-24-B** Operator:

Comment:

Run Time: 02/01/11 15:37 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	14.48	9.720	38.82	.2029
Stddev	.10	.031	.18	.0003
%RSD	.7252	.3173	.4591	.1253

#1	14.41	9.698	38.70	.2027
#2	14.56	9.742	38.95	.2031

Elem	Ca3179	Cr2677	Co2286	Cu3247
Line	317.933 {105}	267.716 {125}	228.616 {147}	324.754 {103}
Avg	43.31	.0834	.1379	25.25
Stddev	.17	.0002	.0001	.10
%RSD	.3837	.2756	.0826	.4104

#1	43.19	.0836	.1378	25.17
#2	43.43	.0833	.1380	25.32

Elem	Fe2599	Pb2203	Mg2795	Mn2576
Line	259.940 {129}	220.353 {152}	279.553 {120}	257.610 {131}
Avg	.3145	.0709	1683.5	2.3200
Stddev	.0118	.0001	5.6	.0529
%RSD	3.736	.1175	.33329	2.2802

#1	.3228	.0710	1679.6	2.2826
#2	.3062	.0709	1687.5	2.3574

Elem	Mo2020	Ni2316	Se1960	Ag3280
Line	202.030 {166}	231.604 {145}	196.090 {171}	328.068 {102}
Avg	.1154	.1234	8.467	23.82
Stddev	.0009	.0002	.017	.17
%RSD	.7696	.1219	.1966	.7058

#1	.1148	.1235	8.479	23.70
#2	.1161	.1233	8.455	23.94

Elem	Sn1899	V_3102	Zn2062	Ti3234
Line	189.989 {176}	310.230 {108}	206.200 {163}	323.452 {104}
Avg	.0678	.1414	.1145	.16129
Stddev	.0002	.0003	.0002	.00083
%RSD	.2694	.2369	.2026	.51764

#1	.0680	.1411	.1143	.16188
#2	.0677	.1416	.1147	.16070

Elem	Tl1908
Line	190.864 {176}
Avg	.0612
Stddev	.0001
%RSD	.1212

#1	.0611
#2	.0612

Sample Name: STDA Run Time: 02/01/11 15:37

Int. Std.	Sc3572
Line	357.253 { 94}
Avg	238.18
Stddev	1.62
%RSD	.68047

#1	237.04
#2	239.33

Method: 2011A Sample Name: ICV1 *ICP4-58C* Operator:
 Comment:
 Run Time: 02/01/11 15:40 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.029	2.465	2.534	5.1750	.12658	.0012
Stddev	.074	.002	.004	.0375	.00002	.0009
%RSD	1.475	.0759	.1412	.72479	.01520	69.82
#1	4.976	2.466	2.537	5.1485	.12660	.0006
#2	5.081	2.464	2.532	5.2015	.12657	.0018
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	1.227	13.06	.5003	1.231	.6139	2.380
Stddev	.006	.26	.0026	.013	.0037	.016
%RSD	.4603	2.028	.5218	1.041	.6024	.6758
#1	1.223	12.87	.4984	1.222	.6165	2.369
#2	1.231	13.24	.5021	1.240	.6113	2.391
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	2.465	12.68	1.2001	2.008	1.229	12.49
Stddev	.005	.11	.0033	.014	.012	.03
%RSD	.1884	.8674	.27865	.6951	.9596	.2440
#1	2.461	12.60	1.2025	1.998	1.221	12.51
#2	2.468	12.75	1.1978	2.018	1.237	12.46
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	2.518	.6140	11.94	.0123	1.220	1.236
Stddev	.030	.0027	.00	.0024	.001	.015
%RSD	1.194	.4336	.0399	19.87	.0573	1.180
#1	2.497	.6121	11.93	.0140	1.221	1.225
#2	2.539	.6158	11.94	.0106	1.220	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: 02/01/11 15:40

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0043	-.0668	1.9369	2.474	-.00007	.00454
Stddev	.0004	.0014	.0028	.038	.00023	.00000
%RSD	8.675	2.133	.14236	1.531	328.26	.09244
#1	-.0040	-.0658	1.9350	2.447	.00009	.00454
#2	-.0045	-.0678	1.9389	2.501	-.00023	.00453
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	241.10					
Stddev	.19					
%RSD	.07862					
#1	240.97					
#2	241.23					

Method: 2011A Sample Name: ICVB1 *ICV8-44-13* Operator:

Comment:

Run Time: 02/01/11 15:43 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.021	.0052	.0065	.00114	-.00003	2.028
Stddev	.005	.0096	.0061	.00187	.00004	.014
%RSD	.5337	184.5	93.42	163.72	104.44	.6935

#1	1.025	.0119	.0022	.00247	-.00006	2.018
#2	1.017	-.0016	.0108	-.00018	-.00001	2.038

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	.0007	5.095	.0130	-.0008	-.0015	10.22
Stddev	.0010	.032	.0022	.0013	.0009	.03
%RSD	135.1	.6258	16.86	162.2	55.23	.2881

#1	.0014	5.072	.0146	.0001	-.0009	10.20
#2	.0000	5.117	.0115	-.0017	-.0021	10.24

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	-.0019	5.0264	10.23	.0018	.0017	-.0308
Stddev	.0075	.0080	.04	.0067	.0012	.0027
%RSD	388.4	.15899	.4116	371.9	71.09	8.680

#1	-.0072	5.0208	10.20	.0065	.0025	-.0289
#2	.0034	5.0321	10.25	-.0029	.0008	-.0327

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	.0082	.0003	8.102	5.120	-.0005	.0012
Stddev	.0139	.0002	.010	.029	.0019	.0009
%RSD	169.6	54.55	.1255	.5761	419.7	76.89

#1	-.0016	.0002	8.095	5.099	.0009	.0019
#2	.0180	.0004	8.110	5.141	-.0018	.0006

Check ?	None	None	None	QC Pass	None	None
Value				5.000		
Range				5.000%		

Sample Name: ICVB1 Run Time: 02/01/11 15:43

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.018	5.224	-.00060	.0176	2.0626	1.9896
Stddev	.009	.041	.00040	.0027	.0027	.0084
%RSD	.1756	.7918	65.928	15.14	.12879	.42448
#1	5.012	5.194	-.00089	.0157	2.0607	1.9836
#2	5.024	5.253	-.00032	.0194	2.0644	1.9956
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	240.53					
Stddev	.14					
%RSD	.05748					
#1	240.43					
#2	240.63					

Method: 2011A	Sample Name: ICB		Operator:		
Comment:					
Run Time: 02/01/11 15:46	Type: QC	Mode: CONC	Corr.Fact: 1.000000		
Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	-.0092	.0164	-.00058	-.00003
Stddev	.0022	.0054	.0086	.00003	.00001
%RSD	144.4	58.70	52.28	4.8711	43.632
#1	.0000	-.0054	.0224	-.00060	-.00002
#2	-.0030	-.0130	.0103	-.00056	-.00004
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	.0008	-.0002	-.0076	.0005	-.0008
Stddev	.0013	.0004	.0025	.0006	.0008
%RSD	165.5	153.1	32.38	115.4	99.33
#1	.0018	-.0005	-.0059	.0009	-.0002
#2	-.0001	.0000	-.0094	.0001	-.0014
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	.0008	.0005	.0019	-.00069	.00081
Stddev	.0014	.0061	.0083	.00007	.00103
%RSD	181.4	1301.	434.6	10.059	127.07
#1	.0018	.0048	-.0040	-.00064	.00153
#2	-.0002	-.0038	.0078	-.00074	.00008
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	-.0080	-.0005	-.0147	-.0033	-.0024
Stddev	.0006	.0009	.0010	.0139	.0002
%RSD	7.159	173.2	6.510	424.4	6.736
#1	-.0076	.0001	-.0141	.0065	-.0026
#2	-.0084	-.0012	-.0154	-.0131	-.0023
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: 02/01/11 15:46

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0034	.0036	.0033	-.0008	-.0032
Stddev	.0022	.0004	.0000	.0005	.0057
%RSD	65.06	12.06	.0769	55.08	177.5

#1	-.0018	.0033	.0033	-.0005	.0008
#2	-.0049	.0040	.0033	-.0012	-.0073

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	.0001	-.00175	-.0136	.00003	.00003
Stddev	.0015	.00164	.0069	.00023	.00005
%RSD	2747.	93.723	50.72	905.18	164.61

#1	.0011	-.00059	-.0185	.00019	.00006
#2	-.0010	-.00291	-.0087	-.00014	.00000

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	232.14
Stddev	.79
%RSD	.33864

#1	232.70
#2	231.58

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 02/01/11 15:50 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.125	.0020	.0003	2.5627	.05169	.0065
Stddev	.034	.0153	.0073	.0103	.00009	.0003
%RSD	.6681	773.9	2115.	.40071	.16825	4.610

#1	5.139	.0194	-.0025	2.5485	.05161	.0066
#2	5.160	.0032	-.0075	2.5689	.05173	.0068
#3	5.121	.0031	.0018	2.5714	.05162	.0061
#4	5.079	-.0178	.0096	2.5621	.05179	.0066

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	.0016	26.04	.0050	-.0019	-.0016	25.89
Stddev	.0003	.15	.0014	.0006	.0013	.11
%RSD	20.29	.5822	27.76	33.91	81.14	.4384

#1	.0017	25.82	.0056	-.0010	-.0030	25.78
#2	.0017	26.13	.0030	-.0021	-.0003	26.03
#3	.0019	26.10	.0061	-.0020	-.0022	25.83
#4	.0011	26.12	.0054	-.0024	-.0007	25.93

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	-.0131	25.56	5.152	-.0100	-.0039	10.11
Stddev	.0073	.07	.008	.0017	.0014	.03
%RSD	55.68	.2548	.1636	17.35	37.51	.2888

#1	-.0043	25.62	5.145	-.0098	-.0059	10.12
#2	-.0200	25.62	5.164	-.0119	-.0035	10.09
#3	-.0180	25.50	5.151	-.0107	-.0037	10.15
#4	-.0101	25.51	5.148	-.0077	-.0024	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: 02/01/11 15:50

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0065	-.0027	10.18	.0031	.0058	.0013
Stddev	.0048	.0034	.02	.0060	.0031	.0007
%RSD	73.65	123.6	.2377	192.5	53.04	58.03
#1	-.0049	-.0034	10.20	.0022	.0040	.0020
#2	-.0065	.0015	10.15	-.0031	.0105	.0005
#3	-.0131	-.0067	10.19	.0113	.0046	.0018
#4	-.0016	-.0023	10.17	.0021	.0043	.0007
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	10.18	2.568	.00075	.0086	.50445	.51854
Stddev	.02	.010	.00081	.0098	.00157	.00078
%RSD	.1915	.3996	108.15	114.5	.31040	.14983
#1	10.18	2.559	.00018	.0183	.50500	.51879
#2	10.20	2.580	.00044	.0124	.50518	.51928
#3	10.15	2.574	.00043	-.0049	.50549	.51864
#4	10.18	2.560	.00196	.0086	.50212	.51745
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	235.26
Stddev	.19
%RSD	.08174
#1	235.05
#2	235.35
#3	235.48
#4	235.15

Method: 2011A Sample Name: CCVA Operator:
 Comment:
 Run Time: 02/01/11 15:56 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4810	2.472	2.519	.47282	.56338	.5045
Stddev	.0197	.011	.009	.00184	.00211	.0023
%RSD	4.100	.4415	.3402	.38965	.37365	.4530

#1	.4540	2.468	2.511	.47156	.56413	.5016
#2	.4906	2.481	2.513	.47555	.56532	.5038
#3	.4798	2.480	2.530	.47193	.56367	.5057
#4	.4996	2.458	2.521	.47223	.56040	.5068

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	.5178	2.577	.5024	.5055	.5108	.5149
Stddev	.0027	.007	.0027	.0034	.0037	.0076
%RSD	.5151	.2911	.5301	.6660	.7172	1.479

#1	.5193	2.572	.4989	.5019	.5108	.5249
#2	.5208	2.572	.5054	.5098	.5065	.5168
#3	.5151	2.576	.5028	.5061	.5105	.5098
#4	.5162	2.588	.5025	.5041	.5155	.5082

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	2.521	2.0752	1.0184	.9953	.5043	5.038
Stddev	.016	.0065	.0052	.0057	.0020	.019
%RSD	.6221	.31338	.50965	.5703	.3880	.3807

#1	2.532	2.0694	1.0228	.9884	.5042	5.058
#2	2.522	2.0716	1.0227	1.001	.5071	5.013
#3	2.530	2.0757	1.0154	.9929	.5034	5.046
#4	2.498	2.0842	1.0125	.9991	.5025	5.036

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: 02/01/11 15:56

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.498	.4997	.5036	2.511	.5044	.5160
Stddev	.040	.0040	.0073	.015	.0040	.0030
%RSD	1.607	.8076	1.453	.6153	.7842	.5889
#1	2.454	.5049	.5145	2.497	.5093	.5169
#2	2.475	.4963	.5011	2.528	.5056	.5195
#3	2.537	.4968	.4992	2.521	.5003	.5152
#4	2.527	.5009	.4997	2.499	.5024	.5123
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	-.0154	.2486	.49960	5.044	.50068	.50846
Stddev	.0130	.0009	.00223	.040	.00115	.00310
%RSD	84.19	.3513	.44709	.8012	.22876	.60950
#1	-.0286	.2488	.50263	5.022	.49990	.51114
#2	-.0036	.2495	.49982	5.105	.49955	.51083
#3	-.0050	.2486	.49847	5.023	.50197	.50723
#4	-.0245	.2474	.49748	5.026	.50130	.50465
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	238.93					
Stddev	1.46					
%RSD	.60942					
#1	237.63					
#2	237.90					
#3	239.45					
#4	240.76					

Method: 2011A

Sample Name: CCB

Operator:

Comment:

Run Time: 02/01/11

16:01 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0091	-.0197	.0096	-.00045	.00006
Stddev	.0064	.0081	.0050	.00005	.00008
%RSD	70.67	41.24	52.41	10.135	126.47

#1	-.0137	-.0139	.0060	-.00042	.00001
#2	-.0046	-.0254	.0132	-.00049	.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	-.0006	.0006	.0033	.0006	-.0010
Stddev	.0008	.0006	.0041	.0012	.0002
%RSD	149.6	100.5	121.1	210.6	21.04

#1	.0000	.0010	.0005	.0014	-.0009
#2	-.0012	.0002	.0062	-.0003	-.0012

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	-.0005	-.0004	.0018	.00183	.00032
Stddev	.0006	.0006	.0012	.00007	.00014
%RSD	113.3	155.9	66.47	4.0219	45.121

#1	-.0010	.0000	.0026	.00178	.00042
#2	-.0001	-.0008	.0009	.00188	.00022

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	-.0062	.0001	-.0306	-.0065	-.0009
Stddev	.0020	.0001	.0321	.0000	.0010
%RSD	31.54	70.98	105.1	.0099	105.9

#1	-.0048	.0001	-.0532	-.0065	-.0002
#2	-.0076	.0002	-.0079	-.0065	-.0016

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: 02/01/11 16:01

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0018	.0043	-.0002	-.0005	-.0165
Stddev	.0008	.0015	.0006	.0003	.0163
%RSD	44.66	35.53	299.1	55.29	98.93
#1	-.0024	.0032	-.0006	-.0006	-.0281
#2	-.0012	.0054	.0002	-.0003	-.0050
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	.0011	.00058	.0123	.00044	.00010
Stddev	.0012	.00125	.0000	.00067	.00001
%RSD	109.0	216.19	.0336	154.90	13.922
#1	.0019	-.00031	.0123	.00091	.00011
#2	.0003	.00146	.0123	-.00004	.00009
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	235.73				
Stddev	.07				
%RSD	.02948				
#1	235.68				
#2	235.78				

Method: 2011A Sample Name: CRI *Topg-u-u-A* Operator:
 Comment:
 Run Time: 02/01/11 16:04 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0577	.0324	.0854	.00411	.00506	.0495
Stddev	.0064	.0047	.0045	.00016	.00001	.0004
%RSD	11.12	14.66	5.313	4.0144	.19861	.8878
#1	.0532	.0357	.0887	.00422	.00505	.0498
#2	.0623	.0290	.0822	.00399	.00507	.0492
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	50.00%	50.00%	50.000%	50.000%	50.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0046	.0406	.0055	.0092	.0090	.0196
Stddev	.0008	.0009	.0006	.0010	.0009	.0002
%RSD	18.16	2.214	10.49	10.88	10.35	.9321
#1	.0051	.0412	.0051	.0099	.0083	.0198
#2	.0040	.0400	.0059	.0085	.0096	.0195
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0496	.01783	.00530	Q .0002	.0187	.3918
Stddev	.0024	.00041	.00016	.0007	.0003	.0031
%RSD	4.789	2.3231	2.9839	358.7	1.569	.7860
#1	.0480	.01754	.00541	.0007	.0185	.3896
#2	.0513	.01813	.00518	-.0003	.0189	.3940
Check ?	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	50.00%	50.000%	50.000%	50.00%	50.00%	50.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0727	.0074	.1955	.0352	.0086	.0085
Stddev	.0150	.0003	.0046	.0030	.0001	.0000
%RSD	20.67	4.418	2.354	8.567	.8734	.2112
#1	.0833	.0077	.1923	.0373	.0085	.0085
#2	.0621	.0072	.1988	.0330	.0086	.0085
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%

Sample Name: CRI Run Time: 02/01/11 16:04

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1616	.4177	.00810	.1522	.01036	.00955
Stddev	.0025	.0000	.00019	.0033	.00042	.00002
%RSD	1.546	.0041	2.3354	2.178	4.0906	.25134
#1	.1634	.4178	.00797	.1545	.01066	.00953
#2	.1598	.4177	.00824	.1498	.01006	.00957
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.2000	.01000	.01000
Range	50.00%	50.00%	50.000%	50.00%	50.000%	50.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	238.91					
Stddev	.90					
%RSD	.37820					
#1	238.27					
#2	239.55					

Method: 2011A

Sample Name: CRI

Operator:

Comment:

Run Time: 02/01/11 16:07 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0463	.0405	.0851	.00437	.00509	.0504
Stddev	.0162	.0081	.0061	.00039	.00006	.0008
%RSD	34.94	20.08	7.172	8.8417	1.2404	1.652
#1	.0349	.0347	.0807	.00410	.00505	.0498
#2	.0578	.0462	.0894	.00465	.00514	.0510
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0500	.0500	.1000	.00500	.00500	.0500
Range	30.00%	50.00%	50.00%	50.000%	50.000%	50.00%
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	.0409	.0056	.0098	.0067	.0198
Stddev	.0002	.0031	.0004	.0004	.0002	.0001
%RSD	5.587	7.657	6.991	4.239	2.244	.4514
#1	.0045	.0387	.0058	.0101	.0066	.0197
#2	.0041	.0431	.0053	.0095	.0068	.0198
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.0050	.0500	.0050	.0100	.0100	.0200
Range	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0425	.01779	.00549	Q -.0004	.0196	.3883
Stddev	.0064	.00000	.00003	.0008	.0014	.0064
%RSD	15.00	.01771	.55992	184.4	6.896	1.647
#1	.0380	.01780	.00546	.0001	.0205	.3929
#2	.0470	.01779	.00551	-.0010	.0186	.3838
Check ?	QC Pass	QC Pass	QC Pass	QC Fail	QC Pass	QC Pass
Value	.0500	.02000	.00500	.0100	.0200	.4000
Range	50.00%	50.000%	50.000%	50.00%	50.00%	50.00%
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0873	.0101	.1966	.0366	.0090	.0092
Stddev	.0080	.0015	.0064	.0036	.0001	.0009
%RSD	9.184	14.54	3.269	9.840	.8666	10.20
#1	.0930	.0091	.1921	.0392	.0090	.0085
#2	.0817	.0112	.2012	.0341	.0091	.0099
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.1000	.0100	.2000	.0500	.0100	.0100
Range	50.00%	50.00%	50.00%	50.00%	50.00%	50.00%

WS 2/1/11

Sample Name: CRI Run Time: 02/01/11 16:07

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1740	.4189	.00936	.1738	.01007	.00955
Stddev	.0137	.0014	.00309	.0121	.00033	.00000
%RSD	7.854	.3418	32.991	6.975	3.2587	.05087
#1	.1643	.4179	.00718	.1652	.00984	.00955
#2	.1837	.4199	.01155	.1824	.01030	.00954
Check ?	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass	QC Pass
Value	.2000	.4000	.01000	.2000	.01000	.01000
Range	50.00%	50.00%	50.000%	50.00%	50.000%	50.000%
Int. Std.	Sc3572					
Units	Cts/S					
Avg	239.01					
Stddev	.06					
%RSD	.02716					
#1	238.96					
#2	239.06					

WS
2/1/11

Method: 2011A Sample Name: ICSA *ICPS-23-C* Operator:

Comment:

Run Time: 02/01/11 16:10 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	515.5	.0408	-.0532	-.00033	.00014	.0009
Stddev	3.9	.0088	.0164	.00009	.00007	.0019
%RSD	.7478	21.50	30.90	27.674	53.188	215.3

#1	512.8	.0346	-.0416	-.00040	.00008	-.0004
#2	518.3	.0470	-.0648	-.00027	.00019	.0022

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	.0035	503.1	.0010	.0001	-.0039	199.5
Stddev	.0001	4.8	.0003	.0000	.0003	2.1
%RSD	3.607	.9534	33.78	25.20	7.606	1.035

#1	.0034	499.7	.0008	.0001	-.0041	198.1
#2	.0036	506.5	.0012	.0001	-.0037	201.0

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	-.0073	538.7	-.01655	-.0234	-.0068	-.0754
Stddev	.0039	.3	.00022	.0011	.0008	.0168
%RSD	53.87	.0645	1.3588	4.845	11.46	22.25

#1	-.0045	538.9	-.01671	-.0226	-.0062	-.0636
#2	-.0100	538.4	-.01639	-.0242	-.0073	-.0873

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	-.0385	.0027	.0160	-.0326	-.0023	.0047
Stddev	.0174	.0025	.0040	.0020	.0015	.0033
%RSD	45.14	92.14	24.73	5.999	65.73	71.27

#1	-.0507	.0009	.0188	-.0312	-.0034	.0070
#2	-.0262	.0044	.0132	-.0339	-.0013	.0023

Check ?	None	None	None	None	None	None
Value						
Range						

Sample Name: ICSA Run Time: 02/01/11 16:10

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1322	-.0182	.00527	.0429	.01297	.03211
Stddev	.0052	.0004	.00018	.0032	.00006	.00018
%RSD	3.905	2.094	3.3320	7.378	.46060	.54697
#1	-.1285	-.0185	.00514	.0406	.01301	.03223
#2	-.1358	-.0179	.00539	.0451	.01293	.03198
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	220.91					
Stddev	1.03					
%RSD	.46806					
#1	221.64					
#2	220.17					

Method: 2011A Sample Name: ICSAB *ICP8-31-C* Operator:

Comment:

Run Time: 02/01/11 16:13 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	513.3	1.012	-.0333	.44454	.53769	.0040
Stddev	3.9	.019	.0324	.00507	.00147	.0003
%RSD	.7570	1.856	97.26	1.1398	.27298	7.077

#1	510.5	.9984	-.0562	.44096	.53873	.0042
#2	516.0	1.025	-.0104	.44812	.53665	.0038

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	.9016	499.2	.4752	.4615	.4581	195.0
Stddev	.0096	5.1	.0075	.0035	.0011	1.0
%RSD	1.067	1.023	1.569	.7680	.2383	.5219

#1	.8948	495.6	.4699	.4590	.4588	194.3
#2	.9084	502.8	.4805	.4640	.4573	195.7

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	.9450	527.9	.41960	-.0226	.8945	-.0627
Stddev	.0112	15.9	.00312	.0040	.0111	.0119
%RSD	1.180	3.014	.74270	17.53	1.246	18.90

#1	.9372	516.6	.41740	-.0198	.8866	-.0711
#2	.9529	539.1	.42180	-.0254	.9024	-.0543

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	-.0262	.9462	.0184	-.0177	.4778	.9184
Stddev	.0069	.0043	.0014	.0133	.0054	.0089
%RSD	26.52	.4595	7.865	75.07	1.131	.9698

#1	-.0311	.9492	.0174	-.0083	.4816	.9121
#2	-.0213	.9431	.0194	-.0271	.4739	.9247

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: 02/01/11 16:13

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1406	.0054	.00446	.0494	.01276	.03207
Stddev	.0058	.0021	.00275	.0143	.00014	.00016
%RSD	4.141	38.22	61.684	29.02	1.0780	.49500
#1	-.1365	.0039	.00251	.0393	.01266	.03219
#2	-.1448	.0069	.00640	.0595	.01286	.03196
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	224.10					
Stddev	.06					
%RSD	.02465					
#1	224.13					
#2	224.06					

Method: 2011A Sample Name: ICSAB

Operator:

Comment:

Run Time: 02/01/11 16:16 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	513.8	1.047	-.0583	.45077	.54551	.0027
Stddev	5.2	.024	.0048	.00422	.00238	.0002
%RSD	1.021	2.250	8.189	.93575	.43546	7.149

#1	510.1	1.031	-.0617	.44778	.54383	.0028
#2	517.5	1.064	-.0549	.45375	.54719	.0026

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	.9154	502.3	.4810	.4662	.4639	198.1
Stddev	.0144	5.4	.0063	.0041	.0060	2.1
%RSD	1.570	1.084	1.310	.8879	1.298	1.071

#1	.9052	498.4	.4766	.4633	.4597	196.6
#2	.9255	506.2	.4855	.4691	.4682	199.6

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	.9519	529.6	.42540	-.0239	.9050	-.0731
Stddev	.0015	11.2	.00562	.0010	.0089	.0250
%RSD	.1535	2.116	1.3200	4.078	.9854	34.24

#1	.9530	521.7	.42142	-.0246	.8987	-.0908
#2	.9509	537.5	.42937	-.0233	.9113	-.0554

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	-.0295	.9454	.0170	-.0169	.4895	.9346
Stddev	.0347	.0034	.0010	.0039	.0069	.0156
%RSD	117.9	.3645	5.913	23.06	1.413	1.667

#1	-.0049	.9429	.0177	-.0141	.4846	.9235
#2	-.0540	.9478	.0163	-.0196	.4944	.9456

Check ?	None	QC Pass	None	None	QC Pass	QC Pass
Value		1.000			.5000	1.000
Range		20.00%			20.00%	20.00%

WS #111

Sample Name: ICSAB Run Time: 02/01/11 16:16

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.1361	.0037	.00551	.0386	.01304	.03228
Stddev	.0277	.0024	.00088	.0100	.00002	.00051
%RSD	20.35	64.77	16.034	25.97	.17223	1.5830
#1	-.1165	.0020	.00613	.0457	.01305	.03264
#2	-.1557	.0054	.00488	.0315	.01302	.03192
Check ?	None	None	None	None	None	None
Value						
Range						
Int. Std.	Sc3572					
Units	Cts/S					
Avg	222.39					
Stddev	.42					
%RSD	.18982					
#1	222.69					
#2	222.09					

WS
2/1/11

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 02/01/11 16:19 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.215	-.0007	.0007	2.5460	.05107	.0073
Stddev	.100	.0014	.0146	.0236	.00014	.0001
%RSD	1.917	199.0	2123.	.92823	.26696	1.254
#1	5.286	.0003	.0110	2.5292	.05097	.0073
#2	5.145	-.0017	-.0097	2.5627	.05116	.0074
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	.0024	25.95	.0050	-.0021	-.0011	25.80
Stddev	.0009	.27	.0004	.0001	.0014	.04
%RSD	39.38	1.052	7.876	5.727	129.8	.1366
#1	.0031	25.76	.0053	-.0022	-.0021	25.82
#2	.0017	26.14	.0047	-.0020	-.0001	25.77
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	-.0059	25.76	5.126	-.0123	-.0046	10.23
Stddev	.0006	.18	.017	.0022	.0015	.04
%RSD	9.636	.6953	.3381	18.18	33.14	.3785
#1	-.0063	25.89	5.114	-.0107	-.0035	10.26
#2	-.0055	25.64	5.139	-.0139	-.0057	10.21
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	-.0041	-.0012	10.18	-.0022	.0066	.0016
Stddev	.0266	.0025	.02	.0004	.0007	.0009
%RSD	651.2	205.4	.1926	15.92	10.09	58.00
#1	-.0229	.0005	10.19	-.0025	.0061	.0022
#2	.0147	-.0030	10.17	-.0020	.0070	.0009
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 02/01/11 16:19

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.14	2.567	.00069	.0008	.50691	.51610
Stddev	.01	.006	.00028	.0027	.00295	.00002
%RSD	.1370	.2449	40.256	336.8	.58188	.00439
#1	10.13	2.562	.00089	.0027	.50900	.51611
#2	10.15	2.571	.00050	-.0011	.50483	.51608
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	236.49					
Stddev	.31					
%RSD	.13047					
#1	236.71					
#2	236.27					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 02/01/11 16:22 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4959	2.491	2.500	.47073	.56538	.5039
Stddev	.0054	.005	.023	.00335	.00183	.0005
%RSD	1.084	.2207	.9259	.71204	.32421	.0958
#1	.4921	2.487	2.483	.46836	.56409	.5043
#2	.4997	2.495	2.516	.47310	.56668	.5036
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	.5172	2.579	.5013	.5034	.5134	.5323
Stddev	.0030	.021	.0021	.0012	.0029	.0174
%RSD	.5889	.8304	.4285	.2285	.5657	3.271
#1	.5150	2.564	.4998	.5042	.5114	.5446
#2	.5193	2.595	.5028	.5026	.5155	.5200
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	2.526	2.0715	1.0231	.9971	.5062	5.100
Stddev	.035	.0002	.0067	.0112	.0029	.038
%RSD	1.371	.01173	.65938	1.122	.5765	.7423
#1	2.501	2.0713	1.0183	.9892	.5041	5.127
#2	2.550	2.0716	1.0279	1.005	.5082	5.073
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	2.446	.4976	.5152	2.496	.5102	.5158
Stddev	.022	.0005	.0068	.013	.0064	.0045
%RSD	.9027	.1062	1.323	.5206	1.248	.8690
#1	2.462	.4980	.5104	2.487	.5057	.5126
#2	2.431	.4972	.5200	2.505	.5147	.5190
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: 02/01/11 16:22

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0089	.2506	.49844	5.024	.50370	.51301
Stddev	.0071	.0035	.00153	.064	.00097	.00158
%RSD	80.22	1.402	.30680	1.274	.19230	.30833
#1	-.0140	.2481	.49952	4.979	.50438	.51189
#2	-.0039	.2531	.49736	5.070	.50301	.51413
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	237.60					
Stddev	.80					
%RSD	.33525					
#1	238.16					
#2	237.04					

Method: 2011A

Sample Name: CCB

Operator:

Comment:

Run Time: 02/01/11 16:25 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0038	-.0163	.0050	-.00043	.00015	-.0004
Stddev	.0097	.0114	.0076	.00047	.00009	.0000
%RSD	252.6	69.95	151.5	110.64	61.865	6.248
#1	-.0030	-.0244	-.0004	-.00009	.00021	-.0004
#2	.0107	-.0082	.0103	-.00076	.00008	-.0004
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	.0005	.0009	-.0014	-.0004	.0011
Stddev	.0006	.0095	.0004	.0007	.0007	.0010
%RSD	147.4	1995.	44.26	51.53	182.7	92.27
#1	.0009	.0072	.0007	-.0009	-.0009	.0018
#2	.0000	-.0062	.0012	-.0020	.0001	.0004
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	.0040	.00213	.00057	-.0053	-.0012	-.0364
Stddev	.0060	.00007	.00032	.0031	.0015	.0002
%RSD	149.7	3.0552	57.098	58.37	116.6	.5266
#1	.0083	.00218	.00080	-.0031	-.0002	-.0365
#2	-.0002	.00208	.00034	-.0074	-.0023	-.0362
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	-.0220	-.0034	-.0006	.0043	.0025	-.0002
Stddev	.0035	.0012	.0028	.0047	.0019	.0003
%RSD	15.71	34.15	490.4	109.4	78.24	109.0
#1	-.0245	-.0026	-.0025	.0077	.0038	-.0001
#2	-.0196	-.0042	.0014	.0010	.0011	-.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: 02/01/11 16:25

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0054	-.0004	.00197	-.0019	.00010	.00007
Stddev	.0072	.0041	.00226	.0013	.00021	.00004
%RSD	133.1	1046.	114.58	67.78	205.21	57.952
#1	-.0105	.0025	.00357	-.0028	.00026	.00010
#2	-.0003	-.0033	.00037	-.0010	-.00005	.00004
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	232.27					
Stddev	1.98					
%RSD	.85093					
#1	230.87					
#2	233.67					

Method: 2011A Sample Name: RB Operator:
 Comment: 020111B
 Run Time: 02/01/11 16:28 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0098	-.0083	-.0014	-.00082	.00005
#1	-.0106	-.0045	-.0068	-.00090	.00015
#2	-.0091	-.0121	.0039	-.00075	-.00004
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0015	.0002	-.0008	.0006	-.0019
#1	-.0016	.0005	.0002	.0016	-.0028
#2	-.0014	-.0001	-.0018	-.0003	-.0010
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0005	-.0025	-.0017	-.00061	-.00046
#1	-.0003	-.0028	.0019	-.00060	-.00045
#2	-.0007	-.0022	-.0053	-.00062	-.00048
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0094	-.0009	-.0241	-.0008	-.0001
#1	-.0092	-.0001	-.0224	.0180	-.0012
#2	-.0096	-.0018	-.0257	-.0196	.0009
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0045	-.0010	-.0002	-.0009	-.0043
#1	.0071	.0015	.0006	-.0006	-.0103
#2	.0018	-.0035	-.0009	-.0011	.0018
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0035	.00065	-.0174	-.00030	-.00006
#1	-.0047	-.00053	-.0163	-.00038	-.00008
#2	-.0023	.00182	-.0184	-.00023	-.00003
Int. Std.	Sc3572				
Units	Cts/S				
Avg	238.93				
#1	243.64				
#2	234.22				

Method: 2011A Sample Name: K1100767-MB Operator:
 Comment: 020111B
 Run Time: 02/01/11 16:31 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0060	-.0116	.0093	-.00088	.00001
#1	-.0106	-.0083	.0125	-.00099	.00002
#2	-.0015	-.0150	.0061	-.00078	.00001
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0018	-.0003	.0014	.0007	-.0016
#1	-.0022	-.0004	-.0011	.0008	-.0006
#2	-.0013	-.0003	.0040	.0007	-.0026
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0011	-.0027	.0042	-.00070	-.00032
#1	-.0012	-.0025	-.0007	-.00072	-.00026
#2	-.0010	-.0028	.0091	-.00068	-.00038
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0095	-.0008	-.0330	-.0106	-.0030
#1	-.0089	-.0017	-.0330	-.0180	-.0026
#2	-.0101	.0001	-.0330	-.0033	-.0035
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	-.0045	-.0018	-.0005	.1929
#1	-.0024	-.0047	-.0021	-.0003	.1849
#2	.0020	-.0043	-.0014	-.0007	.2009
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0064	.00065	.0103	.00020	-.00006
#1	-.0042	.00095	.0142	.00073	-.00008
#2	-.0085	.00035	.0065	-.00033	-.00005
Int. Std.	Sc3572				
Units	Cts/S				
Avg	236.67				
#1	236.66				
#2	236.68				

Method: 2011A Sample Name: LCSW

Operator:

Comment: 020111B

Run Time: 02/01/11 16:34 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.152	2.555	2.565	5.2469	.12945	.9928

#1	5.134	2.538	2.547	5.2085	.12956	.9910
#2	5.169	2.573	2.583	5.2852	.12934	.9947

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.238	13.19	.5097	1.254	.6330	2.431

#1	1.232	13.05	.5075	1.245	.6316	2.422
#2	1.244	13.32	.5120	1.262	.6344	2.441

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.489	12.91	1.2338	.9760	1.248	12.74

#1	2.467	12.90	1.2303	.9683	1.239	12.71
#2	2.512	12.93	1.2372	.9837	1.256	12.78

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.533	.6252	12.31	.0103	1.239	1.251

#1	2.529	.6232	12.31	.0118	1.240	1.243
#2	2.536	.6272	12.30	.0089	1.239	1.260

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2276	-.0588	10.470	2.490	-.00001	.00468

#1	.2223	-.0607	10.446	2.461	.00045	.00463
#2	.2329	-.0570	10.494	2.520	-.00046	.00472

Int. Std.	Sc3572
Units	Cts/S
Avg	240.77

#1	240.31
#2	241.22

Method: 2011A Sample Name: DW MRL

Operator:

Comment: 020111B

Run Time: 02/01/11 16:36 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0372	-.0092	.0025	.01000	-.00003	-.0004
#1	.0410	-.0139	.0053	.01138	-.00003	-.0003
#2	.0334	-.0045	-.0004	.00861	-.00003	-.0005
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	.0427	.0017	-.0015	.0084	.0187
#1	.0005	.0413	.0019	-.0006	.0077	.0205
#2	.0000	.0441	.0015	-.0025	.0092	.0168
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0041	.01683	.00912	-.0065	.0001	-.0351
#1	-.0057	.01708	.00942	-.0038	.0007	-.0487
#2	-.0025	.01659	.00882	-.0092	-.0006	-.0216
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0090	.0008	.1897	-.0003	-.0029	.0083
#1	.0000	.0000	.1884	.0028	-.0036	.0094
#2	-.0180	.0016	.1911	-.0034	-.0023	.0072
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2256	.3867	.00118	.0099	.00016	-.00002
#1	.2129	.3869	.00136	.0137	.00012	-.00003
#2	.2384	.3865	.00101	.0060	.00020	-.00001
Int. Std.	Sc3572					
Units	Cts/S					
Avg	241.99					
#1	241.12					
#2	242.85					

Method: 2011A Sample Name: K1100661-001 Operator:
 Comment: 020111B
 Run Time: 02/01/11 16:39 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0018	-.0106	-.0010	.07919	-.00004	.0182
#1	.0033	-.0035	-.0046	.07777	-.00005	.0178
#2	.0003	-.0178	.0025	.08061	-.00003	.0187
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0003	46.53	.0020	-.0005	-.0029	.0155
#1	-.0002	45.95	.0025	-.0009	-.0026	.0147
#2	.0008	47.11	.0015	-.0002	-.0032	.0164
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0050	12.82	.00348	-.0090	.0000	28.27
#1	.0088	12.70	.00351	-.0080	.0001	28.18
#2	.0011	12.95	.00344	-.0101	-.0001	28.36
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0074	-.0035	85.53	-.0044	.0055	.0004
#1	-.0065	-.0016	85.39	-.0080	.0061	.0010
#2	-.0082	-.0054	85.67	-.0008	.0050	-.0002
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2615	24.91	.00086	-.0014	.00701	.22984
#1	.2624	24.74	.00003	.0079	.00723	.23004
#2	.2607	25.08	.00170	-.0108	.00679	.22964
Int. Std.	Sc3572					
Units	Cts/S					
Avg	242.86					
#1	242.56					
#2	243.16					

Method: 2011A Sample Name: K1100661-001L Operator:
 Comment: 020111B 5
 Run Time: 02/01/11 16:42 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	A12373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0075	-.0207	-.0018	.01542	-.00003
#1	-.0045	-.0188	-.0060	.01519	-.00006
#2	-.0106	-.0226	.0025	.01564	.00000
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0031	-.0002	9.446	-.0001	-.0009
#1	.0027	-.0001	9.474	.0000	-.0012
#2	.0035	-.0002	9.418	-.0002	-.0007
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0009	.0014	-.0009	2.6960	.00045
#1	.0004	.0013	-.0041	2.6959	.00047
#2	-.0022	.0015	.0024	2.6962	.00044
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0100	-.0008	5.587	-.0049	-.0038
#1	-.0105	-.0003	5.597	-.0033	-.0030
#2	-.0095	-.0012	5.576	-.0065	-.0047
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	17.47	-.0019	-.0020	-.0006	.0594
#1	17.23	-.0007	-.0030	-.0005	.0540
#2	17.72	-.0031	-.0011	-.0007	.0648
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	4.606	.00086	-.0023	.00162	.04559
#1	4.594	.00173	-.0033	.00166	.04510
#2	4.617	-.00002	-.0013	.00159	.04608
Int. Std.	Sc3572				
Units	Cts/S				
Avg	242.18				
#1	244.15				
#2	240.20				

Method: 2011A Sample Name: K1100661-001D Operator:
 Comment: 020111B
 Run Time: 02/01/11 16:45 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0042	-.0173	.0040	.08044	-.00006	.0195
#1	.0019	-.0178	-.0068	.08016	-.00009	.0191
#2	.0064	-.0168	.0147	.08071	-.00004	.0199
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0004	46.73	.0009	-.0001	-.0021	.0153
#1	.0002	46.34	.0003	-.0008	-.0024	.0151
#2	.0006	47.13	.0014	.0005	-.0019	.0155
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0043	13.06	.00347	-.0100	-.0003	28.87
#1	.0065	12.99	.00335	-.0112	-.0011	28.89
#2	.0020	13.13	.00360	-.0089	.0004	28.85
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	.0016	89.41	-.0049	.0042	.0008
#1	.0016	-.0007	89.61	-.0076	.0042	-.0001
#2	-.0049	.0040	89.20	-.0022	.0042	.0017
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2972	25.16	.00039	-.0013	.00740	.23666
#1	.3048	25.04	.00090	.0006	.00693	.23706
#2	.2895	25.29	-.00012	-.0032	.00786	.23625
Int. Std.	Sc3572					
Units	Cts/S					
Avg	240.46					
#1	239.76					
#2	241.15					

Method: 2011A Sample Name: K1100661-001S Operator:
 Comment: 020111B
 Run Time: 02/01/11 16:48 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	2.104	.4828	1.028	2.1501	.05195	1.050

#1	2.101	.4754	1.018	2.1428	.05218	1.044
#2	2.106	.4902	1.038	2.1574	.05171	1.056

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0507	57.87	.2037	.4942	.2406	.9993

#1	.0499	57.35	.2055	.4910	.2398	.9959
#2	.0515	58.40	.2018	.4974	.2414	1.003

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4873	23.70	.47144	1.036	.4926	39.42

#1	.4772	23.62	.46879	1.026	.4900	39.39
#2	.4973	23.78	.47409	1.046	.4952	39.46

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9749	.0433	101.8	.0020	.5074	.5016

#1	.9479	.0429	102.1	-.0008	.5061	.4941
#2	1.002	.0437	101.5	.0048	.5088	.5091

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3258	25.46	10.934	.9558	.00758	.24184

#1	.3214	25.36	10.943	.9325	.00744	.24223
#2	.3301	25.55	10.924	.9790	.00772	.24145

Int. Std.	Sc3572
Units	Cts/S
Avg	236.14

#1	235.50
#2	236.78

Method: 2011A Sample Name: K1100692-002 Operator:
 Comment: 020111B
 Run Time: 02/01/11 16:51 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0302	-.0087	-.0025	.36241	-.00007
#1	-.0332	-.0130	-.0039	.36143	.00000
#2	-.0271	-.0044	-.0010	.36339	-.00014
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0464	.0004	154.7	.0009	-.0026
#1	.0463	.0004	153.3	.0027	-.0020
#2	.0466	.0004	156.1	-.0008	-.0031
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0133	.0006	46.53	.00338
#1	-.0041	.0148	.0055	46.49	.00351
#2	-.0022	.0119	-.0044	46.58	.00325
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	-.0013	27.86	-.0106	.0003
#1	-.0040	-.0014	27.77	-.0147	.0009
#2	-.0092	-.0012	27.94	-.0065	-.0002
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	>180.0	.0000	.0053	.0009	.2007
#1	>180.0	-.0049	.0055	.0007	.2115
#2	>180.0	.0049	.0051	.0012	.1898
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	24.81	.00215	.0161	.01920	.79758
#1	24.69	.00424	.0131	.01958	.79736
#2	24.93	.00005	.0190	.01882	.79781
Int. Std.	Sc3572				
Units	Cts/S				
Avg	229.34				
#1	229.12				
#2	229.56				

* 500
 dilution
 WS H/11

Method: 2011A Sample Name: K1100692-002D Operator:
 Comment: 020111B
 Run Time: 02/01/11 16:54 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0081	-.0092	.0000	.35722	-.00003
#1	-.0301	-.0034	.0018	.35643	.00000
#2	.0140	-.0150	-.0018	.35801	-.00007
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0457	.0007	152.7	.0016	-.0025
#1	.0455	.0002	151.9	.0003	-.0027
#2	.0459	.0012	153.6	.0028	-.0023
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0045	.0124	-.0003	45.90	.00331
#1	-.0046	.0123	.0029	45.87	.00325
#2	-.0044	.0125	-.0035	45.94	.00337
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0102	-.0005	27.50	-.0016	-.0006
#1	-.0077	-.0013	27.44	.0000	-.0019
#2	-.0127	.0004	27.56	-.0033	.0007
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	>180.0	-.0036	.0040	.0004	.2081
#1	>180.0	-.0058	.0040	.0012	.2055
#2	>180.0	-.0015	.0039	-.0004	.2107
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	24.49	.00143	.0081	.01875	.78842
#1	24.42	.00118	.0072	.01827	.79125
#2	24.57	.00167	.0091	.01922	.78558
Int. Std.	Sc3572	<i>* see dilution</i>			
Units	Cts/S	<i>WS</i>			
Avg	229.58	<i>HHH</i>			
#1	229.01				
#2	230.15				

Method: 2011A Sample Name: CCVB

Operator:

Comment:

Run Time: 02/01/11 16:57 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.030	-.0102	.0096	2.5535	.05082	.0060
Stddev	.041	.0068	.0081	.0160	.00012	.0004
%RSD	.8174	66.67	84.33	.62527	.24236	6.483

#1	5.059	-.0054	.0153	2.5422	.05091	.0057
#2	5.001	-.0151	.0039	2.5647	.05073	.0062

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	25.72	.0058	-.0020	.0008	25.40
Stddev	.0007	.07	.0012	.0002	.0012	.17
%RSD	69.38	.2724	20.40	12.06	139.1	.6518

#1	.0005	25.67	.0050	-.0018	.0017	25.29
#2	.0015	25.77	.0067	-.0022	.0000	25.52

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	.0009	25.40	5.058	-.0109	-.0023	10.00
Stddev	.0044	.07	.022	.0018	.0012	.03
%RSD	497.3	.2949	.4421	16.59	53.76	.3351

#1	.0040	25.35	5.043	-.0096	-.0031	10.03
#2	-.0022	25.45	5.074	-.0122	-.0014	9.978

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	-.0008	.0004	9.898	-.0009	.0037	.0013
Stddev	.0012	.0015	.052	.0021	.0017	.0004
%RSD	142.5	337.9	.5296	237.8	46.95	32.85

#1	.0000	-.0006	9.935	-.0024	.0025	.0016
#2	-.0016	.0015	9.861	.0006	.0050	.0010

Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 02/01/11 16:57

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.09	2.545	.00114	.0162	.49789	.50836
Stddev	.02	.009	.00175	.0109	.00142	.00095
%RSD	.1520	.3616	154.13	67.18	.28557	.18734
#1	10.07	2.539	.00238	.0238	.49889	.50904
#2	10.10	2.552	-.00010	.0085	.49688	.50769
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	236.56					
Stddev	.31					
%RSD	.12922					
#1	236.78					
#2	236.35					

Method: 2011A

Sample Name: CCVA

Operator:

Comment:

Run Time: 02/01/11 17:00 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4747	2.473	2.493	.47141	.55833	.5061
Stddev	.0099	.012	.010	.00117	.00281	.0014
%RSD	2.086	.4879	.3870	.24908	.50326	.2785
#1	.4817	2.464	2.486	.47224	.56031	.5051
#2	.4677	2.482	2.500	.47058	.55634	.5071
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	.5049	2.568	.5034	.5043	.5044	.5229
Stddev	.0012	.022	.0010	.0034	.0031	.0179
%RSD	.2449	.8602	.1917	.6705	.6134	3.429
#1	.5058	2.584	.5027	.5067	.5022	.5355
#2	.5040	2.553	.5040	.5019	.5065	.5102
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	2.503	2.0852	.99553	.9925	.5073	5.070
Stddev	.004	.0053	.01095	.0099	.0025	.030
%RSD	.1393	.25438	1.1002	.9997	.4920	.6024
#1	2.500	2.0890	1.0033	.9855	.5055	5.048
#2	2.505	2.0815	.98778	.9995	.5090	5.091
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	2.475	.4985	.4943	2.491	.5000	.5081
Stddev	.001	.0074	.0035	.029	.0048	.0016
%RSD	.0382	1.484	.7052	1.173	.9531	.3208
#1	2.476	.5038	.4967	2.511	.5033	.5070
#2	2.474	.4933	.4918	2.470	.4966	.5093
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: 02/01/11 17:00

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0091	.2527	.50070	4.953	.49917	.50245
Stddev	.0215	.0008	.00086	.004	.00147	.00230
%RSD	236.5	.3097	.17256	.0772	.29463	.45859
#1	.0061	.2522	.50131	4.950	.49813	.50408
#2	-.0243	.2533	.50009	4.956	.50021	.50083
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	240.84					
Stddev	1.34					
%RSD	.55608					
#1	239.90					
#2	241.79					

Method: 2011A Sample Name: CCB

Operator:

Comment:

Run Time: 02/01/11 17:03 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0061	-.0197	-.0064	-.00043	.00014	-.0007
Stddev	.0065	.0067	.0045	.00016	.00000	.0010
%RSD	107.0	34.12	70.69	36.648	.47407	133.0

#1	.0015	-.0244	-.0032	-.00032	.00014	.0000
#2	.0106	-.0149	-.0096	-.00054	.00014	-.0014

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	.0001	.0013	.0007	-.0009	.0003	.0004
Stddev	.0009	.0025	.0032	.0003	.0005	.0004
%RSD	934.9	194.2	498.8	26.90	140.9	93.01

#1	.0007	-.0005	.0029	-.0008	.0007	.0007
#2	-.0005	.0030	-.0016	-.0011	.0000	.0001

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	.0029	.00286	.00047	-.0060	-.0016	-.0242
Stddev	.0110	.00006	.00018	.0045	.0021	.0178
%RSD	375.7	2.2467	39.358	75.08	130.8	73.50

#1	.0108	.00290	.00060	-.0028	-.0001	-.0368
#2	-.0049	.00281	.00034	-.0092	-.0030	-.0116

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	-.0114	-.0026	-.0004	.0023	-.0014	.0001
Stddev	.0231	.0007	.0014	.0021	.0015	.0005
%RSD	202.0	25.78	371.9	92.32	108.4	638.5

#1	.0049	-.0021	-.0013	.0038	-.0003	-.0003
#2	-.0278	-.0030	.0006	.0008	-.0024	.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: 02/01/11 17:03

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0155	-.0005	.00057	.0084	-.00027	.00012
Stddev	.0022	.0011	.00292	.0027	.00010	.00004
%RSD	14.41	212.9	511.04	32.29	38.760	31.473
#1	-.0140	.0003	-.00149	.0103	-.00034	.00015
#2	-.0171	-.0013	.00264	.0064	-.00019	.00010
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	237.31					
Stddev	.17					
%RSD	.07240					
#1	237.19					
#2	237.43					

Method: 2011A Sample Name: K1100692-002S Operator:
 Comment: 020111B
 Run Time: 02/01/11 17:08 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	1.997	.4641	.9422	2.3701	.04942	1.002
#1	1.998	.4629	.9355	2.3407	.04921	.9952
#2	1.996	.4653	.9490	2.3994	.04963	1.008
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0476	165.4	.1969	.4695	.2218	.9432
#1	.0476	164.0	.1946	.4656	.2220	.9347
#2	.0476	166.8	.1993	.4733	.2216	.9518
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4832	57.20	.44069	.9715	.4659	37.89
#1	.4844	56.91	.43849	.9562	.4599	37.89
#2	.4821	57.49	.44289	.9867	.4718	37.89
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.9569	.0402	>180.0 *	.0030	.4813	.4662
#1	.9479	.0404	>180.0	.0049	.4811	.4620
#2	.9659	.0401	>180.0	.0011	.4815	.4704
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2337	24.95	10.514	.8985	.01887	.78017
#1	.2464	24.90	10.483	.9085	.01893	.78025
#2	.2209	25.00	10.544	.8885	.01881	.78009
Int. Std.	Sc3572					
Units	Cts/S					
Avg	232.86					
#1	232.79					
#2	232.92					

* see dilution
2/12/11
WS

Method: 2011A Sample Name: K1100661-002 Operator:
 Comment: 020111B
 Run Time: 02/01/11 17:11 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4824	-.0139	-.0038	.05122	-.00005	.0062
#1	.4824	-.0149	-.0117	.05105	-.00006	.0058
#2	.4824	-.0130	.0041	.05138	-.00004	.0067
Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0005	95.65	.0031	.0001	-.0003	.9411
#1	.0005	94.90	.0030	.0002	-.0001	.9397
#2	.0005	96.41	.0032	.0000	-.0005	.9426
Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0083	29.72	.16744	-.0049	.0012	5.899
#1	-.0016	29.58	.16700	-.0038	.0013	5.898
#2	-.0150	29.86	.16789	-.0060	.0011	5.901
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0016	-.0007	24.26	-.0040	.0013	.0043
#1	-.0016	.0002	24.31	-.0008	.0015	.0044
#2	-.0016	-.0017	24.21	-.0073	.0012	.0041
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2453	22.95	.04233	-.0136	.01128	.34253
#1	.2319	22.86	.04219	-.0107	.01112	.34315
#2	.2586	23.03	.04248	-.0164	.01144	.34191
Int. Std.	Sc3572					
Units	Cts/S					
Avg	241.46					
#1	240.91					
#2	242.02					

Method: 2011A Sample Name: K1100661-003 Operator:
 Comment: 020111B
 Run Time: 02/01/11 17:14 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0058	-.0063	.0000	.17521	-.00003
#1	-.0241	-.0073	.0025	.17317	-.00002
#2	.0125	-.0054	-.0025	.17726	-.00005
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0195	.0007	178.4	.0010	-.0011
#1	.0197	.0003	176.0	.0005	-.0015
#2	.0193	.0011	180.7	.0015	-.0007
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0030	.0096	.0014	58.16	.11610
#1	-.0021	.0102	-.0028	57.98	.11475
#2	-.0039	.0091	.0056	58.34	.11745
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0107	.0001	29.93	-.0180	-.0005
#1	-.0111	.0002	29.85	-.0426	.0009
#2	-.0103	.0000	30.00	.0066	-.0019
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	153.6	.0008	.0032	.0087	.2123
#1	152.6	.0042	.0015	.0090	.1952
#2	154.6	-.0027	.0048	.0085	.2294
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	24.66	.00087	.0134	.01337	.95395
#1	24.52	.00166	.0278	.01289	.95035
#2	24.80	.00007	-.0011	.01385	.95755
Int. Std.	Sc3572				
Units	Cts/S				
Avg	235.71				
#1	235.99				
#2	235.43				

Method: 2011A Sample Name: K1100661-004 Operator:
 Comment: 020111B
 Run Time: 02/01/11 17:17 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0179	-.0025	-.0057	.03923	-.00005
#1	.0064	-.0006	-.0082	.03904	.00003
#2	-.0423	-.0044	-.0032	.03942	-.00013
Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0029	.0004	81.99	.0012	-.0019
#1	.0025	-.0001	81.24	.0016	-.0013
#2	.0034	.0009	82.74	.0007	-.0024
Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0025	.0031	.0038	32.47	.00420
#1	-.0023	.0037	.0060	32.38	.00409
#2	-.0027	.0025	.0016	32.56	.00431
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0098	-.0017	4.249	-.0090	.0017
#1	-.0107	-.0008	4.256	-.0213	.0035
#2	-.0089	-.0026	4.242	.0033	.0000
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	31.78	-.0044	.0052	-.0001	.2480
#1	31.74	-.0027	.0065	-.0004	.2458
#2	31.83	-.0060	.0039	.0001	.2502
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	23.86	.00195	-.0004	.00685	.40051
#1	23.75	.00253	-.0051	.00758	.40079
#2	23.97	.00138	.0043	.00612	.40023
Int. Std.	Sc3572				
Units	Cts/S				
Avg	241.10				
#1	241.41				
#2	240.79				

Method: 2011A Sample Name: K1100661-005 Operator:
 Comment: 020111B
 Run Time: 02/01/11 17:20 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0239	-.0116	-.0018	.12314	-.00004	.0062

#1	.0109	-.0025	-.0010	.12263	-.00006	.0064
#2	.0368	-.0207	-.0025	.12365	-.00002	.0060

Elem	Cd2265	Ca2112	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	73.34	.0023	-.0002	-.0035	.0220

#1	-.0002	72.75	.0030	.0000	-.0019	.0220
#2	.0006	73.93	.0015	-.0004	-.0050	.0220

Elem	Pb2203	Mg2025	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0036	22.83	.02505	-.0085	-.0006	5.090

#1	-.0077	22.74	.02487	-.0081	-.0006	5.082
#2	.0005	22.93	.02523	-.0088	-.0006	5.097

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0188	.0014	23.61	-.0019	.0040	-.0002

#1	-.0213	.0021	23.56	.0011	.0033	-.0001
#2	-.0164	.0007	23.66	-.0049	.0047	-.0003

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.2844	23.18	-.00012	.0092	.00953	.26209

#1	.2848	23.13	.00009	.0026	.00952	.26217
#2	.2841	23.24	-.00032	.0159	.00953	.26200

Int. Std.	Sc3572
Units	Cts/S
Avg	238.99

#1	239.14
#2	238.84

Method: 2011A Sample Name: K1100661-006 Operator:
 Comment: 020111B
 Run Time: 02/01/11 17:23 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0091	-.0102	.0096	-.00039	-.00002
#1	-.0197	-.0035	.0210	-.00057	-.00007
#2	.0015	-.0169	-.0018	-.00021	.00003
Elem	B_2497	Cd2265	Ca3179	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0021	.0001	.0594	.0008	-.0016
#1	-.0021	.0003	.0588	.0015	-.0020
#2	-.0021	-.0001	.0600	.0001	-.0013
Elem	Cu3247	Fe2599	Pb2203	Mg2795	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.0012	-.0047	.01743	-.00011
#1	.0009	.0013	-.0065	.01776	-.00009
#2	-.0005	.0010	-.0028	.01709	-.00014
Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0101	.0006	-.0151	-.0188	-.0005
#1	-.0108	-.0003	-.0135	-.0082	-.0007
#2	-.0095	.0016	-.0168	-.0294	-.0002
Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.1714	-.0029	-.0009	.0003	.2694
#1	.1715	-.0025	-.0023	.0007	.2607
#2	.1713	-.0032	.0005	-.0001	.2781
Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0112	-.00143	-.0003	-.00032	.00027
#1	.0134	-.00214	-.0013	-.00047	.00027
#2	.0090	-.00072	.0007	-.00017	.00027
Int. Std.	Sc3572				
Units	Cts/S				
Avg	238.84				
#1	239.35				
#2	238.33				

Method: 2011A Sample Name: K1100681-001 Operator:
 Comment: 020111B *WS 2/1/11*
 Run Time: 02/01/11 17:26 Type: Unk Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0114	-.0169	-.0007	-.00004	-.00008	-.0023

#1	.0106	-.0246	-.0018	-.00017	-.00004	-.0027
#2	.0121	-.0092	.0004	.00008	-.00011	-.0019

Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0002	.1773	.0029	-.0011	.0021	.0204

#1	-.0005	.1773	.0036	-.0019	.0036	.0201
#2	.0009	.1772	.0021	-.0003	.0007	.0207

Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0033	.05887	.00186	-.0103	.0001	.0167

#1	.0022	.05877	.00177	-.0114	.0008	.0108
#2	.0043	.05898	.00196	-.0092	-.0005	.0225

Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0131	.0020	.8616	-.0016	.0023	.0017

#1	-.0033	.0019	.8563	-.0009	.0022	.0020
#2	-.0229	.0021	.8669	-.0022	.0024	.0014

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.3339	.0605	.00040	.0009	-.00045	.00085

#1	.3370	.0618	-.00060	.0009	.00016	.00085
#2	.3308	.0593	.00139	.0009	-.00107	.00086

Int. Std.	Sc3572
Units	Cts/S
Avg	234.38

#1	234.40
#2	234.37

Method: 2011A

Sample Name: K1100692-001

Operator:

Comment: 020111B

691-001
WS 2/1/11

Run Time: 02/01/11 17:29 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0066	-.0120	-.0071	-.00002	.00000

#1	.0018	-.0216	.0061	-.00015	-.00003
#2	-.0149	-.0025	-.0203	.00012	.00002

Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0112	-.0002	19.63	.0005	-.0012

#1	.0114	-.0002	19.37	.0003	-.0011
#2	.0111	-.0002	19.89	.0007	-.0013

Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0024	.0215	-.0013	10.01	.14241

#1	-.0022	.0208	-.0008	9.938	.14093
#2	-.0026	.0223	-.0017	10.08	.14390

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0084	-.0019	1.046	-.0180	-.0017

#1	-.0074	-.0024	1.051	-.0229	.0004
#2	-.0094	-.0014	1.042	-.0131	-.0037

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	11.50	-.0069	-.0001	.0125	.2334

#1	11.52	-.0074	.0008	.0120	.2158
#2	11.49	-.0065	-.0010	.0130	.2510

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	25.73	-.00071	.0043	.00279	.07394

#1	25.55	-.00202	.0081	.00274	.07391
#2	25.91	.00061	.0006	.00285	.07397

Int. Std.	Sc3572
Units	Cts/S
Avg	241.18

#1	241.24
#2	241.11

Method: 2011A

Sample Name: K1100 ~~692-002~~ ⁶⁹²⁻⁰⁰¹

Operator:

Comment: 020111B

WSJ/H11

Run Time: 02/01/11

17:32 Type: Unk

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0157	-.0068	-.0135	.35826	.00002

#1	-.0148	-.0121	-.0175	.35678	-.00004
#2	-.0165	-.0016	-.0096	.35974	.00008

Elem	B_2497	Cd2265	Ca2112	Cr2677	Co2286
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0441	.0011	155.4	.0010	-.0013

#1	.0446	.0010	154.4	.0012	-.0007
#2	.0436	.0013	156.4	.0009	-.0018

Elem	Cu3247	Fe2599	Pb2203	Mg2025	Mn2576
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0031	.0126	.0023	46.72	.00315

#1	-.0030	.0121	.0035	46.78	.00317
#2	-.0033	.0131	.0010	46.65	.00313

Elem	Mo2020	Ni2316	K_7664	Se1960	Ag3280
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0116	-.0015	27.60	-.0057	.0038

#1	-.0109	-.0022	27.62	-.0098	.0035
#2	-.0123	-.0009	27.59	-.0016	.0042

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	>180.0	-.0056	.0027	-.0004	.1832

#1	>180.0	.0015	.0028	-.0003	.1761
#2	>180.0	-.0127	.0027	-.0005	.1903

Elem	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm
Avg	24.85	.00033	.0251	.01836	.77478

#1	24.79	.00093	.0145	.01815	.77680
#2	24.91	-.00026	.0356	.01856	.77276

Int. Std.	Sc3572
Units	Cts/S
Avg	234.59

#1	234.08
#2	235.10

** see dilution
ws
H/H11*

693-03

Method: 2011A Sample Name: K1100712-001 Operator:
 Comment: 020111B WS 2/1/11
 Run Time: 02/01/11 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	.0068	-.0117	-.0032	-.00072	-.00002	-.0020
#1	.0121	-.0083	.0018	-.00054	-.00002	-.0024
#2	.0016	-.0150	-.0082	-.00090	-.00002	-.0016
Elem	Cd2265	Ca3179	Cr2677	Co2286	Cu3247	Fe2599
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0002	.0223	.0021	-.0012	-.0016	-.0023
#1	-.0008	.0234	.0019	-.0010	-.0026	-.0025
#2	.0003	.0212	.0024	-.0014	-.0007	-.0022
Elem	Pb2203	Mg2795	Mn2576	Mo2020	Ni2316	K_7664
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.0001	.00423	-.00013	-.0110	-.0022	-.0057
#1	.0133	.00498	-.00025	-.0110	-.0027	.0038
#2	-.0130	.00349	.00000	-.0111	-.0017	-.0151
Elem	Se1960	Ag3280	Na5895	Sn1899	V_3102	Zn2062
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0098	-.0008	.0644	-.0001	-.0021	.0005
#1	-.0049	.0014	.0724	-.0015	-.0009	.0008
#2	-.0147	-.0030	.0564	.0013	-.0032	.0003
Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.1950	.0010	.00018	.0014	-.00015	.00011
#1	.1928	.0029	.00031	.0043	.00016	.00013
#2	.1972	-.0009	.00005	-.0014	-.00046	.00009
Int. Std.	Sc3572					
Units	Cts/S					
Avg	241.86					
#1	241.29					
#2	242.43					

Method: 2011A Sample Name: CCVB Operator:
 Comment:
 Run Time: 02/01/11 17:38 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	5.024	-.0055	.0049	2.5284	.04925	.0047
Stddev	.028	.0013	.0025	.0086	.00000	.0009
%RSD	.5553	24.69	51.64	.34077	.00304	18.47
#1	5.004	-.0045	.0066	2.5223	.04925	.0053
#2	5.044	-.0064	.0031	2.5345	.04925	.0041
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	.0017	25.54	.0049	-.0022	-.0006	24.76
Stddev	.0001	.33	.0019	.0010	.0032	.13
%RSD	4.049	1.310	39.59	45.15	520.7	.5391
#1	.0016	25.30	.0035	-.0029	.0016	24.66
#2	.0017	25.78	.0063	-.0015	-.0029	24.85
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	-.0039	25.37	4.972	-.0117	-.0030	10.01
Stddev	.0074	.17	.010	.0017	.0002	.02
%RSD	189.7	.6848	.2029	14.52	5.260	.2144
#1	.0013	25.25	4.965	-.0129	-.0031	9.990
#2	-.0092	25.49	4.979	-.0105	-.0029	10.02
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	.0008	-.0023	9.366	-.0074	.0011	.0008
Stddev	.0012	.0028	.103	.0011	.0005	.0007
%RSD	140.7	119.5	1.103	14.68	43.50	94.82
#1	.0016	-.0043	9.439	-.0082	.0015	.0013
#2	.0000	-.0004	9.293	-.0067	.0008	.0003
Check ?	None	None	QC Pass	None	None	None
Value			10.00			
Range			10.00%			

Sample Name: CCVB Run Time: 02/01/11 17:38

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	10.24	2.547	-.00057	.0015	.49455	.49161
Stddev	.13	.018	.00081	.0093	.00278	.00193
%RSD	1.313	.7255	142.08	632.0	.56250	.39254
#1	10.14	2.534	.00000	.0081	.49652	.49297
#2	10.33	2.560	-.00115	-.0051	.49259	.49024
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	241.73					
Stddev	.88					
%RSD	.36417					
#1	241.11					
#2	242.35					

Method: 2011A Sample Name: CCVA

Operator:

Comment:

Run Time: 02/01/11 17:41 Type: QC

Mode: CONC

Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130	B_2497
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	.4775	2.508	2.415	.46467	.54080	.5034
Stddev	.0034	.013	.002	.00156	.00018	.0021
%RSD	.7050	.5239	.0859	.33502	.03358	.4096
#1	.4799	2.499	2.417	.46577	.54093	.5049
#2	.4751	2.517	2.414	.46357	.54068	.5020
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	.4791	2.494	.4983	.4953	.4805	.5029
Stddev	.0004	.013	.0032	.0030	.0002	.0240
%RSD	.0885	.5053	.6338	.6022	.0491	4.772
#1	.4788	2.485	.5005	.4974	.4807	.5199
#2	.4794	2.503	.4960	.4932	.4803	.4859
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	2.437	2.0590	.95163	.9792	.5010	5.022
Stddev	.003	.0033	.00882	.0086	.0014	.026
%RSD	.1114	.16054	.92719	.8763	.2887	.5210
#1	2.438	2.0614	.94539	.9731	.5020	5.004
#2	2.435	2.0567	.95787	.9852	.5000	5.041
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	2.438	.4978	.4613	2.425	.4881	.4853
Stddev	.032	.0031	.0068	.003	.0024	.0003
%RSD	1.307	.6278	1.479	.1116	.4893	.0611
#1	2.416	.4956	.4565	2.427	.4864	.4851
#2	2.461	.5001	.4662	2.423	.4898	.4855
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: 02/01/11 17:41

Elem	P_2149	Si2516	Ti3234	Tl1908	Li6707	Sr4077
Units	ppm	ppm	ppm	ppm	ppm	ppm
Avg	-.0103	.2487	.49409	4.803	.48922	.48259
Stddev	.0000	.0007	.00098	.049	.00125	.00040
%RSD	.4506	.2704	.19859	1.025	.25519	.08271
#1	-.0103	.2483	.49340	4.768	.49010	.48231
#2	-.0103	.2492	.49478	4.838	.48833	.48288
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	245.26
Stddev	.30
%RSD	.12320
#1	245.05
#2	245.48

Method: 2011A Sample Name: CCB Operator:
 Comment:
 Run Time: 02/01/11 17:44 Type: QC Mode: CONC Corr.Fact: 1.000000

Elem	Al2373	Sb2068	As1890	Ba2335	Be3130
Units	ppm	ppm	ppm	ppm	ppm
Avg	-.0068	-.0164	-.0039	-.00068	.00011
Stddev	.0011	.0101	.0010	.00023	.00007
%RSD	16.73	61.48	25.65	33.756	62.290

#1	-.0060	-.0235	-.0046	-.00052	.00006
#2	-.0076	-.0092	-.0032	-.00084	.00016

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	-.0016	.0006	-.0011	.0020	-.0016
Stddev	.0004	.0000	.0000	.0009	.0006
%RSD	26.11	8.151	.5813	43.92	36.89

#1	-.0013	.0006	-.0011	.0026	-.0012
#2	-.0019	.0006	-.0011	.0014	-.0020

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	.0004	.0005	.0043	.00306	.00044
Stddev	.0012	.0012	.0096	.00007	.00021
%RSD	302.7	217.3	222.8	2.3585	47.625

#1	.0012	.0014	.0111	.00301	.00059
#2	-.0004	-.0003	-.0025	.00311	.00029

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	-.0070	.0000	-.0166	-.0033	-.0024
Stddev	.0038	.0002	.0002	.0162	.0015
%RSD	54.45	500.4	1.084	495.8	60.46

#1	-.0043	-.0001	-.0168	.0082	-.0035
#2	-.0097	.0002	-.0165	-.0147	-.0014

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: 02/01/11 17:44

Elem	Na5895	Sn1899	V_3102	Zn2062	P_2149
Units	ppm	ppm	ppm	ppm	ppm
Avg	.0072	.0054	-.0032	-.0011	-.0117
Stddev	.0028	.0001	.0011	.0003	.0181
%RSD	38.63	1.349	35.18	31.18	154.2

#1	.0091	.0053	-.0024	-.0013	-.0245
#2	.0052	.0054	-.0040	-.0008	.0011

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	-.0006	.00026	.0063	.00028	.00008
Stddev	.0015	.00065	.0161	.00052	.00003
%RSD	259.8	248.92	254.9	184.11	38.030

#1	.0005	.00072	.0177	.00065	.00010
#2	-.0016	-.00020	-.0051	-.00009	.00006

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	239.48
Stddev	1.11
%RSD	.46439

#1	238.69
#2	240.26

Service Request K1100661 _____
 Calibration _____ 020211C _____
 QC in calibration 020211C _____
 QC Service Request # K1100661 _____
 STARLIMS Batch # 234653 _____

ICP-MS Data Review Form

	Yes	No	NA
1. Appropriate standardization completed	<u> X </u>	<u> </u>	<u> </u>
2. ICV within 10 % of true value	<u> X </u>	<u> </u>	<u> </u>
3. CCV's in control	<u> X </u>	<u> </u>	<u> </u>
4. CCB's and/or ICB's below MRL	<u> X </u>	<u> </u>	<u> </u>
5. Method blank below MRL	<u> X </u>	<u> </u>	<u> </u>
6. LCS in control	<u> X </u>	<u> </u>	<u> </u>
7. Spike and duplicate in control	<u> X </u>	<u> </u>	<u> </u>
8. All analytes within instrument linear range	<u> X </u>	<u> </u>	<u> </u>
9. Adequate rinse out time allowed	<u> X </u>	<u> </u>	<u> </u>
10. Internal standards in control	<u> X </u>	<u> </u>	<u> </u>
11. Interferences checked	<u> X </u>	<u> </u>	<u> </u>
12. Se over MRL	<u> </u>	<u> X </u>	<u> </u>
13. CRA run	<u> X </u>	<u> </u>	<u> </u>
14. ICSA and ICSAB in control	<u> </u>	<u> </u>	<u> X </u>
15. Serial dilution run	<u> </u>	<u> </u>	<u> X </u>
16. Post spike in control	<u> </u>	<u> </u>	<u> X </u>

Comments:

Primary Review by
 Secondary Review by

Date 2/2/11
 Date 2/2/11

R:\icp\misc\data review forms\PQ ExCell review form

Sample List

Num	Label	Type	Weight	Volume	Dilution	Rack	Row	Column	Height
1	Cal. Blk	Blank	0 kg	0 ml	1.00	0	1	1	145
2	Cal. Stn	Fully Quant Standard	0 kg	0 ml	1.00	0	1	2	145
3	ICV1	Unknown	0 kg	0 ml	1.00	0	1	3	145
4	CCV1	Unknown	0 kg	0 ml	1.00	0	1	2	145
5	ICB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
6	CCB1	Unknown	0 kg	0 ml	1.00	0	1	1	145
7	WATER CRA	Unknown	0 kg	0 ml	1.00	0	1	4	145
8	K1100661-MB	Unknown	0 kg	0 ml	1.00	1	1	1	145
9	LCSW K1100661	Unknown	0 kg	0 ml	1.00	1	1	2	145
10	MRL CHECK	Unknown	0 kg	0 ml	1.00	1	1	3	145
11	K1100661-001	Unknown	0 kg	0 ml	1.00	1	1	4	145
12	K1100661-001D	Unknown	0 kg	0 ml	1.00	1	1	5	145
13	K1100661-001S	Unknown	0 kg	0 ml	1.00	1	1	6	145
14	K1100661-002	Unknown	0 kg	0 ml	1.00	1	1	7	145
15	K1100661-003	Unknown	0 kg	0 ml	1.00	1	1	8	145
16	K1100661-004	Unknown	0 kg	0 ml	1.00	1	1	9	145
17	K1100661-005	Unknown	0 kg	0 ml	1.00	1	1	10	145
18	CCV2	Unknown	0 kg	0 ml	1.00	0	1	2	145
19	CCB2	Unknown	0 kg	0 ml	1.00	0	1	1	145
20	K1100661-006	Unknown	0 kg	0 ml	1.00	1	1	11	145
21	K1100661-007	Unknown	0 kg	0 ml	1.00	1	1	12	145
22	K1100692-002	Unknown	0 kg	0 ml	1.00	1	2	1	145
23	K1100692-002D	Unknown	0 kg	0 ml	1.00	1	2	2	145
24	K1100692-002S	Unknown	0 kg	0 ml	1.00	1	2	3	145
25	K1100692-001	Unknown	0 kg	0 ml	1.00	1	2	4	145
26	K1100692-003	Unknown	0 kg	0 ml	1.00	1	2	5	145
27	CCV3	Unknown	0 kg	0 ml	1.00	0	1	2	145
28	CCB3	Unknown	0 kg	0 ml	1.00	0	1	1	145

Instrument Setup - Sample Configuration

Sample	Configuration	Date
All Samples	acqmet11	12:08:09 2/2/11

Instrument Setup - Configurations

Configuration Name - acqmet11
 Description - PQExcell CCT Sim Default
 Date - 12:08:09 2/2/11
 Maximum Uptake Time - 0
 Maximum Washout Time - 0
 S-Option Pump Running - No
 Plasma Screen Forward - No
 Makeup Gas On - No
 Use CCT - No
 Use Accessory Gas - No

Setting	Value
Extraction	-650.00
Lens1	5.00
Lens2	-35.00
Lens3	-30.00
Pole Bias	5.00
Sampling Depth	375.00
Horizontal	-5.00
Vertical	65.00
Cool	13.00
Auxiliary	0.90
Nebuliser	0.83
Forward power	1,350.00
HT1 Voltage	1,900.00
HT2 Voltage	2,600.00
D1	-36.00
Focus	10.00


Mass	Mass DAC	Peak Width (AMU)	Error (AMU)	Include	Masses in Tune Solution
6.015	1287	0.716	-0.036	TRUE	
7.016	1547	0.716	-0.015	TRUE	Li-7
9.012	2060	0.767	0.006	TRUE	Be-9
23.985	5874	0.715	0.026	TRUE	Mg-24
25.983	6381	0.715	0.021	TRUE	Co-59
45.953	11471	0.715	0.055	TRUE	In-115
50.944	12725	0.766	-0.009	TRUE	Ce-140
51.94	12972	0.766	-0.035	TRUE	Pb-208
53.949	13492	0.766	0	TRUE	Bi-209
55.935	13999	0.766	0.006	TRUE	U-238
56.935	14259	0.766	0.027	TRUE	
58.933	14753	0.766	-0.03	TRUE	
69.925	17561	0.766	0.011	TRUE	
75.92	19082	0.766	-0.01	TRUE	
112.904	28495	0.766	-0.026	TRUE	
114.904	29009	0.715	-0.007	TRUE	
139.905	35379	0.714	-0.002	TRUE	
141.908	35892	0.765	0.009	TRUE	
205.974	52220	0.663	0.007	TRUE	
206.976	52474	0.714	0.002	TRUE	
207.977	52727	0.663	-0.007	TRUE	
208.98	52987	0.663	0.009	TRUE	
238.051	60397	0.663	-0.005	TRUE	

Excluded in Calib	Excluded in Results	Multi Element	Internal Standard	Standard Address				
Uncorrected ICPS Per Mass								
		S-Calibration Has Edited Standard	E-Calibration Edited	I-Invalid Calibration				
		F-Interference Correction Failed	T-Tripped	V-Valley Integration Failed				
			P-Pulse Counting	M-Result Over Max				
Run	Label	TimeStamp	209Bi	7Li	9Be	59Co	115In	208Pb
1	Stability 02-02-2011	2/2/2011 7:55:47 AM	(P)0.167	(P)22393.204	(P)5588.593	(P)20711.340	(P)32448.483	(P)15612.360
2	Stability 02-02-2011	2/2/2011 7:57:03 AM	(P)0.000	(P)22672.310	(P)5458.709	(P)20256.188	(P)32116.062	(P)15644.397
3	Stability 02-02-2011	2/2/2011 7:58:18 AM	(P)0.167	(P)22025.800	(P)5433.200	(P)19916.042	(P)31606.427	(P)15518.592
4	Stability 02-02-2011	2/2/2011 7:59:33 AM	(P)0.167	(P)22237.297	(P)5572.587	(P)20186.753	(P)31710.493	(P)15404.136
5	Stability 02-02-2011	2/2/2011 8:00:48 AM	(P)0.000	(P)22154.165	(P)5502.226	(P)20071.761	(P)31586.887	(P)15200.752
	Mean of Stability 02-02	2/2/2011 7:55:47 AM	(P)0.100	(P)22296.555	(P)5511.063	(P)20228.417	(P)31893.671	(P)15476.047
	SD of Stability 02-02-20		(P)0.091	(P)248.811	(P)68.333	(P)299.099	(P)376.647	(P)180.063
	%RSD of Stability 02		(P)91.287	(P)1.116	(P)1.240	(P)1.479	(P)1.181	(P)1.163

Run	Label	TimeStamp	209Bi	230Bi	238U
1	Stability 02-02-2011	2/2/2011 7:55:47 AM	(P)25626.634	(P)0.000	(P)30739.038
2	Stability 02-02-2011	2/2/2011 7:57:03 AM	(P)25286.528	(P)0.167	(P)30640.660
3	Stability 02-02-2011	2/2/2011 7:58:18 AM	(P)24885.998	(P)0.000	(P)30299.439
4	Stability 02-02-2011	2/2/2011 7:59:33 AM	(P)24885.993	(P)0.167	(P)30427.538
5	Stability 02-02-2011	2/2/2011 8:00:48 AM	(P)24555.256	(P)0.167	(P)29656.255
	Mean of Stability 02-02	2/2/2011 7:55:47 AM	(P)25048.082	(P)0.100	(P)30352.586
	SD of Stability 02-02-20		(P)414.427	(P)0.091	(P)425.925
	%RSD of Stability 02		(P)1.655	(P)91.287	(P)1.403

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		Cal. Blk			Mean	SD	%RSD
TimeStamp		2/2/11 12:25					
Arsenic	75	-0.0178	0.0293	-0.0115	0	0.0256	0
Selenium	77	0.0771	-0.0336	-0.0435	0	0.067	0
Selenium	78	-0.1059	-0.03	0.136	0	0.1237	0
Selenium	82	-0.0982	0.0998	-0.0016	0	0.099	0

**Internal Standard
 Factors:**

Gallium	71	1.009	0.985	1.006	1.009	n/a	n/a
Rhodium	103	1.021	0.973	1.008	1.021	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		Cal. Stn			Mean	SD	%RSD
TimeStamp		2/2/11 12:27					
Arsenic	75	24.77	25.46	24.77	25	0.3958	1.583
Selenium	77	24.64	25	25.36	25	0.3571	1.428
Selenium	78	24.15	25.98	24.87	25	0.92	3.68
Selenium	82	24.41	25.3	25.28	25	0.5079	2.031

**Internal Standard
 Factors:**

Gallium	71	1.037	1.049	1.047	1.037	n/a	n/a
Rhodium	103	1.011	1.033	1.03	1.011	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		ICV1			Mean	SD	%RSD
TimeStamp		2/2/11 12:30					
Arsenic	75	25.02	24.52	25.05	24.87	0.2958	1.19
Selenium	77	26.35	25.23	25.95	25.84	0.5662	2.191
Selenium	78	25.68	24.88	24.56	25.04	0.5779	2.308
Selenium	82	25.67	25.07	25.6	25.45	0.3297	1.296

**Internal Standard
Factors:**

Gallium	71	1.098	1.074	1.094	1.098	n/a	n/a
Rhodium	103	1.078	1.062	1.084	1.078	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		CCV1			Mean	SD	%RSD
TimeStamp		2/2/11 12:32					
Arsenic	75	25.03	24.73	24.34	24.7	0.3426	1.387
Selenium	77	24.51	25.27	24.74	24.84	0.3889	1.566
Selenium	78	24.69	24.46	24.36	24.5	0.1692	0.6904
Selenium	82	24.83	24.38	24.6	24.6	0.2233	0.9076

**Internal Standard
 Factors:**

Gallium	71	1.111	1.108	1.12	1.111	n/a	n/a
Rhodium	103	1.078	1.074	1.104	1.078	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:	ICB1				Mean	SD	%RSD
TimeStamp	2/2/11 12:34						
Arsenic	75	-0.0145	-0.0791	0	-0.0312	0.0421	135
Selenium	77	-0.14	-0.2749	-0.3337	-0.2495	0.0993	39.81
Selenium	78	-0.0169	-0.1711	-0.0129	-0.067	0.0902	134.7
Selenium	82	-0.0963	-0.3773	-0.0735	-0.1823	0.1692	92.8

**Internal Standard
 Factors:**

Gallium	71	1.134	1.12	1.125	1.134 n/a	n/a
Rhodium	103	1.098	1.088	1.106	1.098 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		CCB1			Mean	SD	%RSD
TimeStamp		2/2/11 12:36					
Arsenic	75	-0.0824	-0.0992	0.0364	-0.0484	0.0739	152.8
Selenium	77	-0.1028	-0.1156	-0.3888	-0.2024	0.1615	79.79
Selenium	78	-0.1735	0.1697	-0.0909	-0.0316	0.1791	567.6
Selenium	82	-0.275	-0.2563	0.0743	-0.1523	0.1965	129

**Internal Standard
 Factors:**

Gallium	71	1.124	1.161	1.117	1.124 n/a	n/a
Rhodium	103	1.081	1.111	1.095	1.081 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		WATER CRA			Mean	SD	%RSD
TimeStamp		2/2/11 12:39					
Arsenic	75	0.4724	0.5761	0.508	0.5188	0.0527	10.15
Selenium	77	1.026	0.7526	0.7291	0.836	0.1652	19.76
Selenium	78	0.7468	1.058	0.9213	0.9088	0.156	17.17
Selenium	82	0.9115	1.171	0.9653	1.016	0.1372	13.51

**Internal Standard
 Factors:**

Gallium	71	1.148	1.144	1.132	1.148	n/a	n/a
Rhodium	103	1.106	1.089	1.097	1.106	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		K1100661-MB			Mean	SD	%RSD
TimeStamp		2/2/11 12:41					
Arsenic	75	-0.0469	0.0066	-0.0449	-0.0284	0.0303	106.7
Selenium	77	-0.1607	-0.1976	-0.2469	-0.2017	0.0433	21.45
Selenium	78	-0.0934	-0.2236	-0.1009	-0.1393	0.0731	52.51
Selenium	82	-0.2143	-0.0022	-0.159	-0.1252	0.11	87.87

**Internal Standard
 Factors:**

Gallium	71	1.119	1.126	1.138	1.119 n/a	n/a
Rhodium	103	1.096	1.106	1.125	1.096 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		LCSW K1100661			Mean	SD	%RSD
TimeStamp		2/2/11 12:43					
Arsenic	75	19.72	19.65	19.5	19.62	0.1121	0.5711
Selenium	77	19.57	19.74	20.1	19.8	0.2732	1.38
Selenium	78	19.9	19.84	19.51	19.75	0.2121	1.074
Selenium	82	19.82	19.34	19.92	19.69	0.3094	1.571

**Internal Standard
 Factors:**

Gallium	71	1.139	1.153	1.159	1.139	n/a	n/a
Rhodium	103	1.112	1.129	1.133	1.112	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		MRL CHECK			Mean	SD	%RSD
TimeStamp		2/2/11 12:45					
Arsenic	75	1.071	0.9726	1.009	1.017	0.0497	4.887
Selenium	77	1.09	1.013	0.9907	1.031	0.0519	5.037
Selenium	78	0.8902	0.7219	1.143	0.9183	0.2118	23.07
Selenium	82	1.099	0.8431	0.944	0.9622	0.1291	13.42

**Internal Standard
 Factors:**

Gallium	71	1.144	1.143	1.166	1.144	n/a	n/a
Rhodium	103	1.127	1.13	1.127	1.127	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		K1100661-001			Mean	SD	%RSD
TimeStamp		2/2/11 12:47					
Arsenic	75	0.9017	0.893	0.9131	0.9026	0.0101	1.12
Selenium	77	1.302	1.057	0.8776	1.079	0.2131	19.75
Selenium	78	0.9635	1.101	0.997	1.021	0.0719	7.044
Selenium	82	0.2502	0.2414	0.0119	0.1678	0.1351	80.51

**Internal Standard
 Factors:**

Gallium	71	1.262	1.244	1.259	1.262	n/a	n/a
Rhodium	103	1.335	1.351	1.328	1.335	n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		K1100661-001D			Mean	SD	%RSD
TimeStamp		2/2/11 12:50					
Arsenic	75	1.009	0.9427	0.8986	0.9499	0.0553	5.825
Selenium	77	1.534	1.167	1.11	1.27	0.2298	18.09
Selenium	78	0.8513	0.6651	0.7926	0.7696	0.0952	12.37
Selenium	82	0.2134	0.1485	-0.1765	0.0618	0.2089	338.1

**Internal Standard
 Factors:**

Gallium	71	1.235	1.226	1.246	1.235	n/a	n/a
Rhodium	103	1.338	1.3	1.341	1.338	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		K1100661-001S			Mean	SD	%RSD
TimeStamp		2/2/11 12:52					
Arsenic	75	21.12	22.45	21.78	21.78	0.6658	3.057
Selenium	77	21.91	22.03	21.37	21.77	0.3523	1.618
Selenium	78	20.61	21.59	21.09	21.1	0.4898	2.322
Selenium	82	20.21	21.14	20.75	20.7	0.465	2.246

**Internal Standard
Factors:**

Gallium	71	1.236	1.282	1.258	1.236	n/a	n/a
Rhodium	103	1.321	1.355	1.345	1.321	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		K1100661-002			Mean	SD	%RSD
TimeStamp		2/2/11 12:54					
Arsenic	75	0.8481	0.9975	0.8663	0.904	0.0815	9.021
Selenium	77	2.15	1.668	1.567	1.795	0.3113	17.35
Selenium	78	1.09	1.268	0.871	1.076	0.1989	18.48
Selenium	82	0.0996	0.5073	0.109	0.2386	0.2327	97.51

**Internal Standard
Factors:**

Gallium	71	1.18	1.214	1.228	1.18 n/a	n/a
Rhodium	103	1.238	1.279	1.308	1.238 n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		K1100661-003			Mean	SD	%RSD
TimeStamp		2/2/11 12:56					
Arsenic	75	0.4699	0.5235	0.5009	0.4981	0.0269	5.401
Selenium	77	4.724	4.874	4.773	4.79	0.0766	1.599
Selenium	78	1.174	1.339	1.606	1.373	0.2176	15.85
Selenium	82	0.317	0.4975	0.6181	0.4775	0.1516	31.74

**Internal Standard
Factors:**

Gallium	71	1.353	1.41	1.406	1.353	n/a	n/a
Rhodium	103	1.473	1.521	1.55	1.473	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		K1100661-004			Mean	SD	%RSD
TimeStamp		2/2/11 12:58					
Arsenic	75	0.8053	0.7653	0.7591	0.7765	0.0251	3.232
Selenium	77	2.597	2.097	1.796	2.163	0.4044	18.69
Selenium	78	1.513	1.692	1.04	1.415	0.3372	23.82
Selenium	82	0.4534	0.079	0.4482	0.3269	0.2146	65.67

**Internal Standard
Factors:**

Gallium	71	1.201	1.227	1.181	1.201 n/a	n/a
Rhodium	103	1.223	1.276	1.224	1.223 n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		K1100661-005			Mean	SD	%RSD
TimeStamp		2/2/11 13:01					
Arsenic	75	2.726	2.702	2.735	2.721	0.017	0.6243
Selenium	77	2.16	1.966	1.67	1.932	0.2471	12.79
Selenium	78	1.318	1.452	1.147	1.306	0.1529	11.71
Selenium	82	0.0751	0.1692	0.2546	0.1663	0.0898	53.99

**Internal Standard
Factors:**

Gallium	71	1.185	1.195	1.196	1.185 n/a	n/a
Rhodium	103	1.219	1.212	1.238	1.219 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		CCV2			Mean	SD	%RSD
TimeStamp		2/2/11 13:03					
Arsenic	75	24.53	25.44	24.84	24.94	0.4635	1.859
Selenium	77	26.75	26.23	27.04	26.67	0.4071	1.526
Selenium	78	25.59	26.05	25.6	25.75	0.2639	1.025
Selenium	82	24.73	25.05	24.91	24.89	0.1599	0.6425

**Internal Standard
 Factors:**

Gallium	71	1.048	1.078	1.092	1.048 n/a	n/a
Rhodium	103	1.087	1.088	1.112	1.087 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:	CCB2				Mean	SD	%RSD
TimeStamp	2/2/11 13:05						
Arsenic	75	-0.0716	-0.0106	-0.0104	-0.0309	0.0353	114.3
Selenium	77	1.713	1.205	0.9467	1.288	0.39	30.28
Selenium	78	0.3341	0.5807	0.484	0.4663	0.1243	26.65
Selenium	82	-0.3131	-0.2187	-0.124	-0.2186	0.0946	43.26

**Internal Standard
 Factors:**

Gallium	71	1.087	1.09	1.096	1.087 n/a	n/a
Rhodium	103	1.111	1.118	1.123	1.111 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:	K1100661-006			Mean	SD	%RSD	
TimeStamp	2/2/11 13:07						
Arsenic	75	-0.0251	-0.0094	-0.0076	-0.014	0.0096	68.53
Selenium	77	1.383	1.087	0.6564	1.042	0.3654	35.06
Selenium	78	0.3028	0.6281	0.4983	0.4764	0.1638	34.38
Selenium	82	-0.3064	-0.2431	-0.4466	-0.332	0.1041	31.37

**Internal Standard
 Factors:**

Gallium	71	1.09	1.089	1.086	1.09 n/a	n/a
Rhodium	103	1.102	1.107	1.119	1.102 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		K1100661-007			Mean	SD	%RSD
TimeStamp		2/2/11 13:10					
Arsenic	75	0.0053	-0.0282	0.0224	-0.0002	0.0257	14480
Selenium	77	1.241	1.05	0.6189	0.9699	0.3186	32.85
Selenium	78	0.1754	0.0227	0.3961	0.1981	0.1877	94.77
Selenium	82	-0.211	-0.177	-0.2013	-0.1964	0.0175	8.91

**Internal Standard
 Factors:**

Gallium	71	1.111	1.079	1.099	1.111 n/a	n/a
Rhodium	103	1.11	1.13	1.132	1.11 n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		K1100692-002			Mean	SD	%RSD
TimeStamp		2/2/11 13:12					
Arsenic	75	0.7579	0.8638	0.9232	0.8483	0.0837	9.868
Selenium	77	5.69	5.261	5.115	5.355	0.2987	5.578
Selenium	78	1.323	1.707	1.401	1.477	0.2027	13.73
Selenium	82	0.4181	0.4564	0.407	0.4272	0.0259	6.066

**Internal Standard
Factors:**

Gallium	71	1.407	1.44	1.457	1.407 n/a	n/a
Rhodium	103	1.528	1.544	1.574	1.528 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		K1100692-002D			Mean	SD	%RSD
TimeStamp		2/2/11 13:14					
Arsenic	75	0.8987	0.945	0.8023	0.882	0.0728	8.253
Selenium	77	5.64	5.438	5.758	5.612	0.1615	2.878
Selenium	78	1.816	1.613	1.753	1.727	0.104	6.024
Selenium	82	0.8085	0.795	0.4892	0.6976	0.1806	25.89

**Internal Standard
 Factors:**

Gallium	71	1.409	1.412	1.448	1.409 n/a	n/a
Rhodium	103	1.531	1.496	1.554	1.531 n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		K1100692-002S			Mean	SD	%RSD
TimeStamp		2/2/11 13:16					
Arsenic	75	21.38	20.94	20.79	21.04	0.3081	1.465
Selenium	77	25.63	26.26	25.77	25.89	0.3286	1.269
Selenium	78	21.44	21.32	21.16	21.3	0.1387	0.651
Selenium	82	20.59	19.8	19.34	19.91	0.636	3.194

**Internal Standard
Factors:**

Gallium	71	1.392	1.417	1.434	1.392 n/a	n/a
Rhodium	103	1.488	1.521	1.529	1.488 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		K1100692-001			Mean	SD	%RSD
TimeStamp		2/2/11 13:18					
Arsenic	75	0.8752	0.8553	0.9402	0.8902	0.0444	4.988
Selenium	77	5.923	5.88	5.857	5.887	0.0339	0.5749
Selenium	78	2.284	2.256	2.076	2.206	0.1127	5.112
Selenium	82	0.7532	0.7858	0.78	0.773	0.0174	2.251

**Internal Standard
 Factors:**

Gallium	71	1.411	1.435	1.454	1.411	n/a	n/a
Rhodium	103	1.544	1.514	1.561	1.544	n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		K1100692-003			Mean	SD	%RSD
TimeStamp		2/2/11 13:21					
Arsenic	75	0.009	0.0499	-0.0971	-0.0127	0.0759	596
Selenium	77	1.084	0.823	1.008	0.9717	0.1344	13.83
Selenium	78	1.094	0.9935	0.9951	1.027	0.0573	5.581
Selenium	82	-0.0411	-0.0807	-0.3159	-0.1459	0.1486	101.8

**Internal Standard
Factors:**

Gallium	71	1.114	1.127	1.125	1.114 n/a	n/a
Rhodium	103	1.131	1.153	1.145	1.131 n/a	n/a

Instrument ID: K-ICP-MS-02
Experiment: 02-02-11C
Units: µg/L (ppb)

Method: EPA 200.8
Analyst: Greg Jasper
STARLIMS #234653

Sample Name:		CCV3			Mean	SD	%RSD
TimeStamp		2/2/11 13:23					
Arsenic	75	24.76	25.17	24.83	24.92	0.2173	0.8721
Selenium	77	25.87	25.79	25.41	25.69	0.2448	0.9528
Selenium	78	27.66	29.98	28.24	28.63	1.205	4.208
Selenium	82	24.54	25.05	24.43	24.67	0.3352	1.358

**Internal Standard
Factors:**

Gallium	71	1.085	1.105	1.116	1.085 n/a	n/a
Rhodium	103	1.105	1.142	1.169	1.105 n/a	n/a

Instrument ID: K-ICP-MS-02
 Experiment: 02-02-11C
 Units: µg/L (ppb)

Method: EPA 200.8
 Analyst: Greg Jasper
 STARLIMS #234653

Sample Name:		CCB3			Mean	SD	%RSD
TimeStamp		2/2/11 13:25					
Arsenic	75	-0.07	-0.0155	-0.0223	-0.0359	0.0297	82.7
Selenium	77	0.0338	-0.1528	-0.1802	-0.0997	0.1164	116.7
Selenium	78	3.721	3.092	2.546	3.12	0.5878	18.84
Selenium	82	-0.2336	-0.1526	-0.1706	-0.1856	0.0425	22.92

**Internal Standard
 Factors:**

Gallium	71	1.093	1.111	1.124	1.093 n/a	n/a
Rhodium	103	1.146	1.173	1.184	1.146 n/a	n/a