



received 02/29/2011
Complaint 200339399

Inorganics Case Narrative

Colorado Oil & Gas Conservation Commission Complaint 200339399

Work Order Number: 1202195

1. This report consists of 1 water sample.
2. The sample was received cool and intact by ALS on 02/16/12.
3. The sample was prepared for analysis based on Methods for the Chemical Analysis of Waters and Wastes (MCAWW), May 1994 procedures and Environmental Monitoring Systems Laboratory (EMSL) Rev 2.1 procedures.
4. The sample was analyzed following MCAWW and EMSL procedures for the following methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	310.1	1106 Rev 10
Bicarbonate	310.1	1106 Rev 10
Carbonate	310.1	1106 Rev 10
pH	150.1	1126 Rev 18
Specific conductance	120.1	1128 Rev 10
TDS	160.1	1101 Rev 11
Bromide	300.0 Revision 2.1	1113 Rev 12
Chloride	300.0 Revision 2.1	1113 Rev 12
Fluoride	300.0 Revision 2.1	1113 Rev 12
Nitrate as N	300.0 Revision 2.1	1113 Rev 12
Nitrite as N	300.0 Revision 2.1	1113 Rev 12
Orthophosphate as P	300.0 Revision 2.1	1113 Rev 12
Sulfate	300.0 Revision 2.1	1113 Rev 12

5. All standards and solutions were used within their recommended shelf life.
6. The sample was prepared and analyzed within the established hold time for each analysis with the exception of nitrate as N, nitrite as N, and orthophosphate as P. The sample was received by ALS with little hold time remaining.

All in house quality control procedures were followed, as described below.



7. General quality control procedures.

- A preparation (method) blank and laboratory control sample (LCS) were prepared and analyzed with the samples in each applicable preparation batch. There were not more than 20 samples in each preparation batch.
- The method blank associated with each applicable batch was below the reporting limit for the requested analytes. This indicates that no contaminants were introduced to the samples during preparation and analysis.
- The LCS was within the acceptance limits for each applicable analysis.
- All initial and continuing calibration blanks (ICB/CCB) associated with each applicable analytical batch were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications (ICV/CCV) associated with each applicable analytical batch were within the acceptance criteria for the requested analytes.

8. Matrix specific quality control procedures.

Per method requirements, matrix QC was performed for each analysis. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

9. It was necessary to dilute the sample in order to bring the sulfate concentration into the analytical range of the ion chromatograph (IC).

Reduced aliquots were taken of the sample for the alkalinity, bicarbonate, and carbonate analysis. Reporting limits were elevated accordingly.

10. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 3.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.



Megan Johnson
Inorganics Primary Data Reviewer

2/24/12
Date



Inorganics Final Data Reviewer

2/24/12
Date



Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- If the analyte was analyzed for but not detected a “U” is entered.
- QC qualifier -- Specified entries and their meanings are as follows:
 - N - Spiked sample recovery not within control limits.
 - * - Duplicate analysis (relative percent difference) not within control limits.
 - Z - Calibration spike recovery not within control limits.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: Complaint 200339399

Client Project Number:

Client PO Number: PHA 12-10

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
705325 Nosaka WW	1202195-1		WATER	14-Feb-12	14:17



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC
Project Manager: ARW

Workorder No: 1202195
Initials: LAS Date: 2/16/12

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on shipping containers intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on sample containers intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the COC and bottle labels complete and legible ?		<input checked="" type="radio"/> YES	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there sufficient sample for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the proper containers for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within holding times for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>X</u> < green pea ___ > green pea	N/A	YES	<input checked="" type="radio"/> NO *
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of residual chlorine? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples shipped on ice?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 #4 RAD ONLY		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>1.6</u>			
No. of custody seals on cooler: <u>1</u>			
External µR/hr reading: <u>14</u>			
Background µR/hr reading: <u>11</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES / NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

*14 1202195-1-6 (705325 Ndsqka) for DISS. Gases arrived with headspace ≤ pea-size.

If applicable, was the client contacted? YES / NO / NA Contact: _____ Date/Time: _____

Project Manager Signature / Date: [Signature] 2/16/12

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002 Form 201r22.xls (6/1/09)

1202195

From: (719) 846-3091
Peter Gintautas
Colo. Oil & Gas Cons. Comm.
213 Conundrum RD
Trinidad, CO 81082

Origin ID: PUBA



J1210112190225

SHIP TO: (970) 490-1511
Amy Wolf
ALS Laboratory Group
225 COMMERCE DR
FORT COLLINS, CO 80524

BILL SENDER

Ship Date: 15FEB12
ActWgt 34.0 LB
CAD: 4076443/NET3250

Delivery Address Bar Code



Ref #
Invoice #
PO #
Dept #

Complaint: 200339399

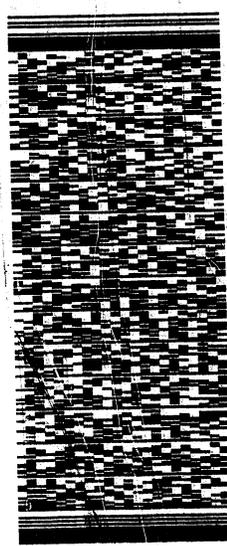
14

THU - 16 FEB A2
PRIORITY OVERNIGHT

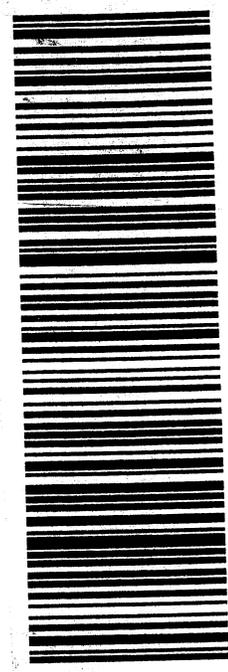
TRK# 7932 3213 0507
0201

80524
CO-US
DEN

72 FTCA



1.9



512G1BF58A278

BICARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: Colorado Oil & Gas Conservation Commission
Client Project ID: Complaint 200339399
Work Order Number: 1202195 **Final Volume:** 100 ml
Reporting Basis: As Received **Matrix:** WATER
Prep Method: NONE **Result Units:** MG/L
Analyst: Jason McNall

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
705325 Nosaka WW	1202195-1	02/14/2012	02/17/2012	02/17/2012	N/A	1	170	20		25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202195-1*

CARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: Colorado Oil & Gas Conservation Commission
Client Project ID: Complaint 200339399
Work Order Number: 1202195 **Final Volume:** 100 ml
Reporting Basis: As Received **Matrix:** WATER
Prep Method: NONE **Result Units:** MG/L
Analyst: Jason McNall

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
705325 Nosaka WW	1202195-1	02/14/2012	02/17/2012	02/17/2012	N/A	1	20	20	U	25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202195-1*

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

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TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Sample Results

Lab Name: ALS Environmental -- FC
Client Name: Colorado Oil & Gas Conservation Commission
Client Project ID: Complaint 200339399
Work Order Number: 1202195 **Final Volume:** 100 ml
Reporting Basis: As Received **Matrix:** WATER
Prep Method: NONE **Result Units:** MG/L
Analyst: Jason McNall

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
705325 Nosaka WW	1202195-1	02/14/2012	02/17/2012	02/17/2012	N/A	1	170	20		25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: ak1202195-1

Date Printed: Friday, February 24, 2012

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pH

Method EPA150.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID: 705325 Nosaka WW Lab ID: 1202195-1	Sample Matrix: WATER % Moisture: N/A Date Collected: 14-Feb-12 Date Extracted: 17-Feb-12 Date Analyzed: 17-Feb-12 Prep Method: METHOD	Prep Batch: PH120217-1 QCBatchID: PH120217-1-2 Run ID: pH120217-1a Cleanup: NONE Basis: As Received File Name:	Analyst: Jason McNal Sample Aliquot: 20 ML Final Volume: 20 ML Result Units: pH Clean DF: 1
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CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-29-7	PH AnalysisTime: 11:15	1	8.23	0.1		

Data Package ID: *ph1202195-1*

Specific Conductance in Water

Method EPA120.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID: 705325 Nosaka WW	Sample Matrix: WATER	Prep Batch: SC120217-1	Analyst: Jason McNal
Lab ID: 1202195-1	% Moisture: N/A	QCBatchID: SC120217-1-1	Sample Aliquot: 45 ML
	Date Collected: 14-Feb-12	Run ID: sc120217-1a	Final Volume: 45 ML
	Date Extracted: 17-Feb-12	Cleanup: NONE	Result Units: umhos/cm
	Date Analyzed: 17-Feb-12	Basis: As Received	Clean DF: 1
	Prep Method: NONE	File Name:	

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-34-4	SPECIFIC CONDUCTIVITY AnalysisTime: 10:45	1	623	1		

Data Package ID: sc1202195-1

Total Dissolved Solids

Method EPA160.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:	705325 Nosaka WW
Lab ID:	1202195-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 14-Feb-12

Date Extracted: 17-Feb-12

Date Analyzed: 20-Feb-12

Prep Method: METHOD

Prep Batch: TD120217-1

QCBatchID: TD120217-1-1

Run ID: td120220-1a

Cleanup: NONE

Basis: As Received

File Name: Manual Entry

Analyst: Jason McNal

Sample Aliquot: 100 ML

Final Volume: 100 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-33-3	TOTAL DISSOLVED SOLIDS	1	380	20		

Data Package ID: *td1202195-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:	705325 Nosaka WW
Lab ID:	1202195-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 14-Feb-12

Date Extracted: 16-Feb-12

Date Analyzed: 16-Feb-12

Prep Method: NONE

Prep Batch: IC120216-1

QCBatchID: IC120216-1-1

Run ID: IC120216-1A1

Cleanup: NONE

Basis: As Received

File Name: 20216_018.DXD

Analyst: Eric Allen Lin

Sample Aliquot: 5 ML

Final Volume: 5 ML

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
16984-48-8	FLUORIDE AnalysisTime: 18:23	1	1.5	0.1		
16887-00-6	CHLORIDE AnalysisTime: 18:23	1	11	0.2		
14797-65-0	NITRITE AS N AnalysisTime: 18:23	1	0.1	0.1	U	
24959-67-9	BROMIDE AnalysisTime: 18:23	1	0.2	0.2	U	
14797-55-8	NITRATE AS N AnalysisTime: 18:23	1	0.2	0.2	U	
14265-44-2	ORTHOPHOSPHATE AS P AnalysisTime: 18:23	1	0.5	0.5	U	
14808-79-8	SULFATE AnalysisTime: 18:49	5	120	5		

Data Package ID: *ic1202195-1*

BICARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: AK120217-2MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120217-2

QCBatchID: AK120217-2-1

Run ID: ak120217-1a

Cleanup: NONE

Basis: N/A

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120217-2MB	2/17/2012	02/17/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202195-1*

Date Printed: Friday, February 24, 2012

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CARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: AK120217-2MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120217-2

QCBatchID: AK120217-2-1

Run ID: ak120217-1a

Cleanup: NONE

Basis: N/A

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120217-2MB	2/17/2012	02/17/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202195-1*

Date Printed: Friday, February 24, 2012

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TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: AK120217-2MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK120217-2

QCBatchID: AK120217-2-1

Run ID: ak120217-1a

Cleanup: NONE

Basis: N/A

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120217-2MB	2/17/2012	02/17/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1202195-1*

Date Printed: Friday, February 24, 2012

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TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: AK120217-2LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/17/2012

Date Analyzed: 02/17/2012

Prep Batch: AK120217-2

QCBatchID: AK120217-2-1

Run ID: ak120217-1a

Cleanup: NONE

Basis: N/A

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
	TOTAL ALKALINITY AS CaCO3	100	99.5	5		99	85 - 115

Data Package ID: ak1202195-1

Date Printed: Friday, February 24, 2012

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Total Dissolved Solids

Method EPA160.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: TD120217-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 17-Feb-12

Date Analyzed: 20-Feb-12

Prep Method: METHOD

Prep Batch: TD120217-1

QCBatchID: TD120217-1-1

Run ID: td120220-1a

Cleanup: NONE

Basis: N/A

File Name: Manual Entry

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-33-3	TOTAL DISSOLVED SOLIDS	1	20	20	U	

Data Package ID: *td1202195-1*

Date Printed: Friday, February 24, 2012

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Total Dissolved Solids

Method EPA160.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: TD120217-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/17/2012

Date Analyzed: 02/20/2012

Prep Method: METHOD

Prep Batch: TD120217-1

QCBatchID: TD120217-1-1

Run ID: td120220-1a

Cleanup: NONE

Basis: N/A

File Name: Manual Entry

Sample Aliquot: 100 ml

Final Volume: 100 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
10-33-3	TOTAL DISSOLVED SOLIDS	400	410	20		103	85 - 115%

Data Package ID: *td1202195-1*

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Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: IC120216-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 16-Feb-12

Date Analyzed: 16-Feb-12

Prep Method: NONE

Prep Batch: IC120216-1

QCBatchID: IC120216-1-1

Run ID: IC120216-1A1

Cleanup: NONE

Basis: N/A

File Name: 20216_012.DXD

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
16984-48-8	FLUORIDE	1	0.1	0.1	U	
16887-00-6	CHLORIDE	1	0.2	0.2	U	
14797-65-0	NITRITE AS N	1	0.1	0.1	U	
24959-67-9	BROMIDE	1	0.2	0.2	U	
14797-55-8	NITRATE AS N	1	0.2	0.2	U	
14265-44-2	ORTHOPHOSPHATE AS P	1	0.5	0.5	U	
14808-79-8	SULFATE	1	1	1	U	

Data Package ID: ic1202195-1

Date Printed: Friday, February 24, 2012

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Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: IC120216-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/16/2012

Date Analyzed: 02/16/2012

Prep Method: NONE

Prep Batch: IC120216-1

QCBatchID: IC120216-1-1

Run ID: IC120216-1A1

Cleanup: NONE

Basis: N/A

File Name: 20216_013.DXD

Sample Aliquot: 5 ml

Final Volume: 5 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
16984-48-8	FLUORIDE	2.5	2.37	0.1		95	90 - 110%
16887-00-6	CHLORIDE	5	4.77	0.2		95	90 - 110%
14797-65-0	NITRITE AS N	2	1.91	0.1		96	90 - 110%
24959-67-9	BROMIDE	5	4.84	0.2		97	90 - 110%
14797-55-8	NITRATE AS N	5	4.76	0.2		95	90 - 110%
14265-44-2	ORTHOPHOSPHATE AS P	5	4.82	0.5		96	90 - 110%
14808-79-8	SULFATE	25	24.2	1		97	90 - 110%

Data Package ID: *ic1202195-1*

Date Printed: Friday, February 24, 2012

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