



Inorganics Case Narrative

Colorado Oil & Gas Conservation Commission

Complaint 200241120

Work Order Number: 1005024

1. This report consists of 1 water sample.
2. The sample was received cool and intact by ALS on 05/05/10.
3. The samples were 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 samples were analyzed following MCAWW and EMSL procedures for the following methods:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
Alkalinity	310.1	1106 Rev 7
Bicarbonate	310.1	1106 Rev 8
Carbonate	310.1	1106 Rev 8
pH	150.1	1126 Rev 17
Specific conductance	120.1	1128 Rev 9
TDS	160.1	1101 Rev 10
Bromide	300.0 Revision 2.1	1113 Rev 11
Chloride	300.0 Revision 2.1	1113 Rev 11
Fluoride	300.0 Revision 2.1	1113 Rev 11
Nitrate as N	300.0 Revision 2.1	1113 Rev 11
Nitrite as N	300.0 Revision 2.1	1113 Rev 11
Sulfate	300.0 Revision 2.1	1113 Rev 11

5. All standards and solutions were used within their recommended shelf life.
6. The samples were prepared and analyzed within the established hold time for each analysis.

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



7. General quality control procedures.

- n 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.
- n 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.
- n The LCS was within the acceptance limits for each applicable analysis.
- n All initial and continuing calibration blanks (ICB/CCB) associated with each applicable analytical batch were below the reporting limit for the requested analytes with the exception of CCB3 for chloride. The sample bracketed by this CCB contained more than ten times the concentration of chloride that was detected in the CCB.
- n All initial and continuing calibration verifications (ICV/CCV) associated with each applicable analytical batch were within the acceptance criteria for the requested analytes. This indicates a valid calibration and stable instrument conditions.

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
Megan Johnson
Inorganics Primary Data Reviewer

5/18/10
Date

GA. LO
Inorganics Final Data Reviewer

5/18/10
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 Laboratory Group -- FC

Sample Number(s) Cross-Reference Table

Paragon OrderNum: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: Complaint 200241120

Client Project Number:

Client PO Number: OE PHA 10-41

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Lizardy WW	1005024-1		WATER	04-May-10	14:07
Trip Blank	1005024-2		WATER	04-May-10	7:00



ALS Laboratory Group

225 Commerce Drive, Fort Collins, CO 80524

TF: 800-443-1511 PH: 970-490-1511 FX: 970-490-1522

Chain-of-Custody

Date	Page	of	Lab ID
	1	1	1005024

Project Name/No.	Complaint 200241120	Sampler(s)	Containers	Turnaround	Standard	or Due	14 days	Disposal	By Lab	Return to Client
REPORT TO:	Peter Gintautas									
PHONE:	714-846-3091									
FAX:										
E-MAIL:	peter.gintautas@state.co.us									
COMPANY:	Cal. C. + G. Cons. Corp									
ADDRESS:	PO Box 106 Trinidad CO 81082									

Provide additional information as needed in Comments below.						Circle Analytical Method Above														Circle Analytical Method Above																
Sample ID	Date	Time	Lab ID	Matrix	Preservative (Type HCl, etc.)	No. of Containers	TPH	VOCs	BTEX + MABE RSK 175	SVOCs	OC Pesticides	PCBs	Herbicides	Explosives	TCLP Organics SW1311	TCLP Metals SW1311	Total Metals (ICP) or Hg	Dissolved Metals (ICP) or Hg	Total Metals (ICP-MS)	Dissolved Metals (ICP-MS)	Hexavalent Chromium - Aspartic Acid	Inorganic Anions	Solids	pH	Perchlorate, Conductivity	TCL	Actinides	Gamma Isotopes	Gross Alpha / Beta	Total Alpha-Emitting Radium	Radium 226	Radium 228	Strontium 90 (Total RadioSr)	Tritium	Radon 222	
Lizardy WW	4 May	14:07	1	W	HCl	3		X																												
				W	HCl	1																														
				W	None	5												X		X	X	X	X	X	X											X
Trip Blank	4 May	07:00	2	W	HCl	2		X																												

* Zone (Circle): EST CST <u>MST</u> PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter		Relinquished By: (1)		Relinquished By: (2)	
For metals or anions, please detail analyte list below.		Signature <u>Peter Gintautas</u>		Signature _____	
Comments:		Printed Name <u>Peter Gintautas</u>		Printed Name _____	
Anions = Br, Cl, F, NO ₂ , NO ₃ , SO ₄		Date <u>4 May 2010</u> Time <u>16:20</u>		Date _____ Time _____	
Filter and preservative metals upon receipt = dissolved.		Company <u>ALC</u>		Company _____	
200.8 = Bi, Ba, B, Ca, Cr, Co, Cu, Fe, Li, Mg, Mn, Ni, K, Si, Sr, V, Zn		Received By: (1)		Received By: (2)	
200.8 = Sb, As, Cd, Pb, Mo, Se, Ag, Te, U		Signature <u>Lauren Schmitz</u>		Signature _____	
Originator: Retain pink page or a photocopy!		Printed Name <u>Lauren Schmitz</u>		Printed Name _____	
Form 202r7 (5/19/09)		Date <u>5/5/10</u> Time <u>1020</u>		Date _____ Time _____	
		Company <u>ALS</u>		Company _____	



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCCWorkorder No: 1005024Project Manager: ARWInitials: LAS Date: 5/5/10

1. Does this project require any special handling in addition to standard Paragon procedures?		YES	<u>NO</u>
2. Are custody seals on shipping containers intact?	NONE	<u>YES</u>	NO
3. Are Custody seals on sample containers intact?	<u>NONE</u>	YES	NO
4. Is there a COC (Chain-of-Custody) present or other representative documents?		<u>YES</u>	NO
5. Are the COC and bottle labels complete and legible?		<u>YES</u>	NO
6. Is the COC in agreement with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<u>YES</u>	NO
7. Were airbills / shipping documents present and/or removable?	DROP OFF	<u>YES</u>	NO
8. Are all aqueous samples requiring preservation preserved correctly? (excluding volatiles)	N/A	<u>YES</u>	<u>NO</u>
9. Are all aqueous non-preserved samples pH 4-9?	N/A	<u>YES</u>	NO
10. Is there sufficient sample for the requested analyses?		<u>YES</u>	NO
11. Were all samples placed in the proper containers for the requested analyses?		<u>YES</u>	NO
12. Are all samples within holding times for the requested analyses?		<u>YES</u>	NO
13. Were all sample containers received intact? (not broken or leaking, etc.)		<u>YES</u>	NO
14. Are all samples requiring no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon) headspace free? Size of bubble: <u>✓</u> < green pea <u> </u> > green pea	N/A	YES	<u>NO</u> *
15. Do perchlorate LCMS-MS samples have headspace? (at least 1/3 of container required)	<u>N/A</u>	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.)	<u>N/A</u>	YES	NO
17. Were the samples shipped on ice?		<u>YES</u>	NO
18. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: <u>#2</u> #4	RAD ONLY <u>YES</u>	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>4.6</u>			
No. of custody seals on cooler: <u>1</u>			
DOT Survey/Acceptance Information	External µR/hr reading: <u>13</u>		
	Background µR/hr reading: <u>11</u>		
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <u>YES</u> / NO / NA (If no, see Form 008.)			

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

#8 Metals - filter and preserve prior to analysis.*14 1005024-1-3 (lizardy WW voc) had headspace < pea sizeIf applicable, was the client contacted? YES / NO / NA Contact: Peter Cointantas Date/Time: 5/6/10Project Manager Signature / Date: Agnew 5/6/10

*IR Gun #2: Oakton, SN 29922500201-0066

*IR Gun #4: Oakton, SN 2372220101-0002

BICARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: ALS Laboratory Group -- FC

Client Name: Colorado Oil & Gas Conservation Commission

Client Project ID: Complaint 200241120

Work Order Number: 1005024

Final Volume: 100 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
Lizardy WW	1005024-1	05/04/2010	05/14/2010	05/14/2010	N/A	1	340	20		25 ml

Comments:

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

Data Package ID: *ak1005024-1*

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

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CARBONATE AS CaCO₃

Method EPA310.1

Sample Results

Lab Name: ALS Laboratory Group -- FC
Client Name: Colorado Oil & Gas Conservation Commission
Client Project ID: Complaint 200241120
Work Order Number: 1005024
Reporting Basis: As Received
Prep Method: NONE
Final Volume: 100 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
Lizardy WW	1005024-1	05/04/2010	05/14/2010	05/14/2010	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: *ak1005024-1*

Date Printed: Monday, May 17, 2010

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TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Sample Results

Lab Name: ALS Laboratory Group -- FC

Client Name: Colorado Oil & Gas Conservation Commission

Client Project ID: Complaint 200241120

Work Order Number: 1005024

Final Volume: 100 ml

Reporting Basis: As Received

Matrix: WATER

Prep Method: NONE

Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
Lizardy WW	1005024-1	05/04/2010	05/14/2010	05/14/2010	N/A	1	340	20		25 ml

Comments:

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

Data Package ID: *ak1005024-1*

Date Printed: Monday, May 17, 2010

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pH

Method EPA150.1

Sample Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Field ID:	Lizardy WW
Lab ID:	1005024-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 04-May-10

Date Extracted: 06-May-10

Date Analyzed: 06-May-10

Prep Method: NONE

Prep Batch: PH100506-1

QCBatchID: PH100506-1-1

Run ID: pH100506-1a

Cleanup: NONE

Basis: As Received

File Name:

Sample Aliquot: 20 ml

Final Volume: 20 ml

Result Units: pH

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-29-7	PH	1	7.5	0.1		

Data Package ID: *ph1005024-1*

Specific Conductance in Water

Method EPA120.1

Sample Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Field ID:	Lizardy WW
Lab ID:	1005024-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 04-May-10

Date Extracted: 06-May-10

Date Analyzed: 06-May-10

Prep Method: NONE

Prep Batch: SC100506-1

QCBatchID: SC100506-1-1

Run ID: sc100506-1a

Cleanup: NONE

Basis: As Received

File Name:

Sample Aliquot: 45 ml

Final Volume: 45 ml

Result Units: umhos/cm

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-34-4	SPECIFIC CONDUCTIVITY	1	1080	1		

Data Package ID: sc1005024-1

Date Printed: Monday, May 17, 2010

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Total Dissolved Solids

Method EPA160.1

Sample Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Field ID:	Lizardy WW
Lab ID:	1005024-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 04-May-10

Date Extracted: 07-May-10

Date Analyzed: 10-May-10

Prep Method: METHOD

Prep Batch: TD100507-1

QCBatchID: TD100507-1-1

Run ID: td100510-1a

Cleanup: NONE

Basis: As Received

File Name: Manual Entry

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	720	20		

Data Package ID: *td1005024-1*

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

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Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Field ID:	Lizardy WW
Lab ID:	1005024-1

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 04-May-10

Date Extracted: 05-May-10

Date Analyzed: 05-May-10

Prep Method: NONE

Prep Batch: IC100505-1

QCBatchID: IC100505-1-1

Run ID: ic100505-1a

Cleanup: NONE

Basis: As Received

File Name: 00505_037.DXD

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	1	0.22	0.1		
16887-00-6	CHLORIDE	1	18	0.2		
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	
14808-79-8	SULFATE	20	240	20		

Data Package ID: ic1005024-1

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

LIMS Version: 6.366A

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BICARBONATE AS CaCO₃

Method EPA310.1

Method Blank

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: AK100514-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK100514-1

QCBatchID: AK100514-1-1

Run ID: ak100514-1a

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
AK100514-1MB	5/14/2010	05/14/2010	N/A	1	5	5	U

Comments:

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

Data Package ID: *ak1005024-1*

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ALS Laboratory Group -- FC

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CARBONATE AS CaCO₃

Method EPA310.1

Method Blank

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: AK100514-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK100514-1

QCBatchID: AK100514-1-1

Run ID: ak100514-1a

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
AK100514-1MB	5/14/2010	05/14/2010	N/A	1	5	5	U

Comments:

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

Data Package ID: *ak1005024-1*

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

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TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Method Blank

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: AK100514-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: AK100514-1

QCBatchID: AK100514-1-1

Run ID: ak100514-1a

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
AK100514-1MB	5/14/2010	05/14/2010	N/A	1	5	5	U

Comments:

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

Data Package ID: *ak1005024-1*

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

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TOTAL ALKALINITY AS CaCO₃

Method EPA310.1

Laboratory Control Sample

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: AK100514-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05/14/2010

Date Analyzed: 05/14/2010

Prep Batch: AK100514-1

QCBatchID: AK100514-1-1

Run ID: ak100514-1a

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 CaCO ₃	100	99.5	5		99	85 - 115

Data Package ID: *ak1005024-1*

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

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Total Dissolved Solids

Method EPA160.1

Method Blank

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: TD100507-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 07-May-10

Date Analyzed: 10-May-10

Prep Method: METHOD

Prep Batch: TD100507-1

QCBatchID: TD100507-1-1

Run ID: td100510-1a

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: *td1005024-1*

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

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Total Dissolved Solids

Method EPA160.1

Laboratory Control Sample

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: TD100507-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05/07/2010

Date Analyzed: 05/10/2010

Prep Method: METHOD

Prep Batch: TD100507-1

QCBatchID: TD100507-1-1

Run ID: td100510-1a

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	403	20		101	85 - 115%

Data Package ID: *td1005024-1*

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

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Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: IC100505-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05-May-10

Date Analyzed: 05-May-10

Prep Method: NONE

Prep Batch: IC100505-1

QCBatchID: IC100505-1-1

Run ID: ic100505-1a

Cleanup: NONE

Basis: N/A

File Name: 00505_011.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	
14808-79-8	SULFATE	1	1	1	U	

Data Package ID: ic1005024-1

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

LIMS Version: 6.366A

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Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: IC100505-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05/05/2010

Date Analyzed: 05/05/2010

Prep Method: NONE

Prep Batch: IC100505-1

QCBatchID: IC100505-1-1

Run ID: ic100505-1a

Cleanup: NONE

Basis: N/A

File Name: 00505_012.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	2.4	0.1		96	90 - 110%
16887-00-6	CHLORIDE	5	4.76	0.2		95	90 - 110%
14797-65-0	NITRITE AS N	2	1.94	0.1		97	90 - 110%
24959-67-9	BROMIDE	5	4.93	0.2		99	90 - 110%
14797-55-8	NITRATE AS N	5	4.82	0.2		96	90 - 110%
14808-79-8	SULFATE	25	23.5	1		94	90 - 110%

Data Package ID: ic1005024-1

Date Printed: Monday, May 17, 2010

ALS Laboratory Group -- FC

LIMS Version: 6.366A

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