



Dissolved Gasses

Case Narrative

Colorado Oil & Gas Conservation Commission

Complaint 200241120

Work Order Number: 1005024

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 05/05/2010.

The sample was free of headspace prior to analysis.

The sample had a pH > 2 at the time of analysis.

2. The sample was prepared and analyzed according to method RSK-175 procedures and SOP449R0.
3. The preparation batch included a method blank, laboratory control sample, laboratory control sample duplicate, sample duplicate and matrix spike. Per method requirements, matrix QC was performed for this 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.

All preparation QC results were within the acceptance criteria.

4. The sample was associated with one or more of the following analytical QC: initial calibrations, initial calibration verifications (ICV), and continuing calibration verifications (CCV).
5. All analytical QC were within the acceptance criteria.
6. Sample dilutions were not required for the requested analysis.
7. The sample was prepared and analyzed within the established holding time.
8. 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.

Mindy Norton
Mindy Norton
Organics Primary Data Reviewer

Date

Joe Norton
Organics Final Data Reviewer

5-14-10
Date



ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the data indicate the presence of a compound that meets the identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- *:** This flag indicates that a spike recovery is outside the control criteria.
- +:** This flag indicates that the relative percent difference (RPD) exceeds the control criteria.

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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	1005024
Turnaround	Standard	or Due	14 days	Disposal
By Lab	Return to Client			

Project Name/No.	Complaint 200241120	Sampler(s)	Containers
REPORT TO:	Peter Gintautas		
PHONE:	714-846-3091		
FAX:			
E-MAIL:	peter.gintautas@state.co.us		
COMPANY:	Cal. C. + G. Cons. Comm		
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 - Asbestos - 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	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	14:07	2	W	HCl	2		X																											

* Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter
For metals or anions, please detail analyte list below.

Comments:

Anions = Br, Cl, F, NO₂, NO₃, SO₄
Filter and preservative metals upon receipt = dissolved.
Dec 7 = Ba, Be, B, Ca, Cr, Co, Cu, Fe, Li, Mg, Mn, Ni, K, Si, Sr, V, Zn
Dec 8 = Sb, As, Cd, Pb, Mo, Se, Ag, Te, U

Originator: Retain pink page or a photocopy!

Form 202r7 (5/19/09)

Relinquished By: (1) Signature <u>Peter Gintautas</u> Printed Name <u>Peter Gintautas</u> Date <u>4 May 2010</u> Time <u>16:20</u> Company <u>ALC</u>	Relinquished By: (2) Signature _____ Printed Name _____ Date _____ Time _____ Company _____
Received By: (1) Signature <u>Lauren Schmitz</u> Printed Name <u>Lauren Schmitz</u> Date <u>5/5/10</u> Time <u>1020</u> Company <u>ALS</u>	Received By: (2) Signature _____ Printed Name _____ Date _____ Time _____ 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>			
External µR/hr reading: <u>13</u>			
Background µR/hr reading: <u>11</u>			
DOT Survey/Acceptance Information			
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

Dissolved Gasses

Method RSK175

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: HC100512-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 12-May-10

Date Analyzed: 12-May-10

Prep Method: METHOD

Prep Batch: HC100512-1

QCBatchID: HC100512-1-1

Run ID: HC100512-1A

Cleanup: NONE

Basis: N/A

File Name: 02416.dat

Sample Aliquot: 38.5 ml

Final Volume: 38.5 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
74-82-8	METHANE	1	1	1	U	
74-85-1	ETHENE	1	1	1	U	
74-84-0	ETHANE	1	2	2	U	

Data Package ID: MEE1005024-1

Date Printed: Thursday, May 13, 2010

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Dissolved Gasses

Method RSK175

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: 12-May-10

Date Analyzed: 12-May-10

Prep Method: METHOD

Prep Batch: HC100512-1

QCBatchID: HC100512-1-1

Run ID: HC100512-1A

Cleanup: NONE

Basis: As Received

File Name: 02421.dat

Sample Aliquot: 38.5 ml

Final Volume: 38.5 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
74-82-8	METHANE	1	18	1		
74-85-1	ETHENE	1	1	1	U	
74-84-0	ETHANE	1	2	2	U	

Data Package ID: MEE1005024-1

Date Printed: Thursday, May 13, 2010

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Dissolved Gasses

Method RSK175

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Laboratory Group -- FC

Work Order Number: 1005024

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200241120

Lab ID: HC100512-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05/12/2010

Date Analyzed: 05/12/2010

Prep Method: METHOD

Prep Batch: HC100512-1

QCBatchID: HC100512-1-1

Run ID: HC100512-1A

Cleanup: NONE

Basis: N/A

File Name: 02415.dat

Sample Aliquot: 38.5 ml

Final Volume: 38.5 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
74-82-8	METHANE	142	151	1		106	80 - 120%
74-85-1	ETHENE	249	257	1		103	80 - 120%
74-84-0	ETHANE	267	282	2		106	80 - 120%

Lab ID: HC100512-1LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 05/12/2010

Date Analyzed: 05/12/2010

Prep Method: METHOD

Prep Batch: HC100512-1

QCBatchID: HC100512-1-1

Run ID: HC100512-1A

Cleanup: NONE

Basis: N/A

File Name: 02426.dat

Sample Aliquot: 38.5 ml

Final Volume: 38.5 ml

Result Units: UG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
74-82-8	METHANE	142	157	1		111	25	4
74-85-1	ETHENE	249	270	1		108	25	5
74-84-0	ETHANE	267	294	2		110	25	4

Data Package ID: MEE1005024-1

Date Printed: Thursday, May 13, 2010

ALS Laboratory Group -- FC

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