

Organic Carbon 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 had been correctly preserved for the requested analysis.
4. The sample was prepared for analysis based on Methods for the Chemical Analysis of Waters and Wastes (MCAWW), May 1994 procedures.
5. The sample was analyzed following MCAWW procedures for the following method:

<u>Analyte</u>	<u>Method</u>	<u>SOP #</u>
TOC (Total Organic Carbon)	415.1	670 Rev 14

6. All standards and solutions were used within their recommended shelf life.
7. The sample was prepared and analyzed within the established hold time for TOC analysis.

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

8. General quality control procedures.
 - n A preparation (method) blank, laboratory control sample (LCS), and laboratory control sample duplicate (LCSD) were prepared and analyzed with the samples in this preparation batch. There were not more than 20 samples in this preparation batch.
 - n The method blank associated with this batch was below the reporting limit for the requested analyte. This indicates that no contaminants were introduced to the samples during preparation and analysis.



- The LCS and LCSD were within the acceptance limits for TOC analysis.
- All continuing calibration verifications (CCV) associated with this batch were within the acceptance criteria for the requested analyte. This indicates a valid calibration and stable instrument conditions.

9. Matrix specific quality control procedures.

Due to limited sample volume, matrix QC could not be performed for the TOC analysis. A laboratory control sample duplicate was analyzed and has been provided instead.

10. Sample dilutions were not required for the requested analysis.

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
Organics Primary Data Reviewer

2/24/12
Date

[Signature]
Organics Final Data Reviewer

2/24/12
Date



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.
 - B - The method blank for the analysis contained the analyte of interest above the reporting limit.

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



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

PROJECT NAME Complaints 200339399		SAMPLER PAC		DATE 15 Feb 2012		WORKORDER 1202195	
PROJECT No. 200339402		SITE ID		TURNAROUND 14 days		PAGE 1 of 1	
COMPANY NAME Peter Gintantus		EDD/FORMAT		DATE		DISPOSAL	
SEND REPORT TO PO Box 108		PURCHASE ORDER		TURNAROUND		By Lab or Return to Client	
ADDRESS Trinidad CO 81062		BILL TO COMPANY		TURNAROUND		By Lab or Return to Client	
CITY / STATE / ZIP 719-846-3091		INVOICE ATTN TO		TURNAROUND		By Lab or Return to Client	
PHONE 719-846-3091		ADDRESS		TURNAROUND		By Lab or Return to Client	
FAX		CITY / STATE / ZIP		TURNAROUND		By Lab or Return to Client	
E-MAIL peter.gintantus@state.ct.us		PHONE		TURNAROUND		By Lab or Return to Client	
E-MAIL		FAX		TURNAROUND		By Lab or Return to Client	
Lab ID		Matrix		Sample Date		Sample Time	
Field ID		Pres		QC		QC	
Complaint 200339402		W		14 Feb		14:47	
707183 Steiner WW		W		14 Feb		06:30	
Trip Blank		W		14 Feb		14:47	
707183 Steiner WW		W		14 Feb		14:47	
Complaint 200339399		W		14 Feb		14:17	
705325 Nosaka WW		W		14 Feb		14:17	
705325 Nosaka WW		W		14 Feb		14:17	
705325 Nosaka WW		W		14 Feb		14:17	

Time 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 analytes below.

Comments:	QC PACKAGE (check below)
upn Rec 101	LEVEL II (Standard QC)
ANALYSIS = Br, Cl, F, NO ₃ , NO ₂ , PO ₄ , SO ₄	LEVEL III (Std QC + forms)
20033-6000-11, Br, 20033-6000-11	LEVEL IV (Std QC + forms + raw data)
20033-6000-16 N ₄ 20033-6000-16, Th-200, 6	
Reservatone Key:	1-HCl 2-HNO ₃ 3-H ₂ SO ₄ 4-NaOH 5-NaHSO ₄ 7-Other 8-4 degrees C 9-5035

RELINQUISHED BY	SIGNATURE	PRINTED NAME	DATE	TIME
RECEIVED BY	Peter Gintantus	Peter Gintantus	15 Feb 2012	12:15
RELINQUISHED BY	Lauren Schmitz	Lauren Schmitz	2/16/12	0925
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC
Project Manager: ARWWorkorder No: 1202195
Initials: LAS Date: 2/16/12

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>	NO
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>X</u> < green pea _____ > 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		<u>YES</u>	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? <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.

*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

1202195

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

Origin ID: PUBA

FedEx
Express



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 # Complaint 200339399
Invoice #
PO #
Dept #

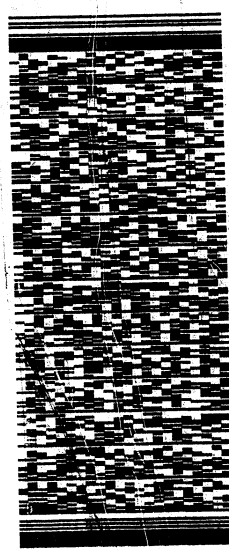
14

THU - 16 FEB A2
PRIORITY OVERNIGHT

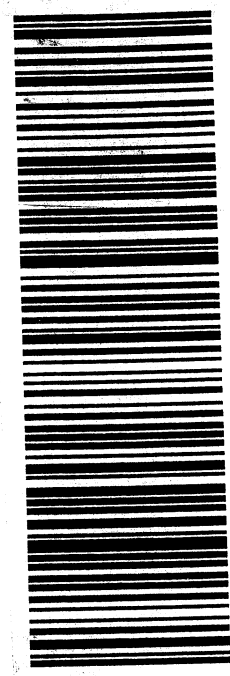
TRK# 7932 3213 0507
0201

80524
CO-US
DEN

72 FTCA



1.9



512G18F58A278

Organic Carbon

Method EPA415.1

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: MO120221-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 21-Feb-12

Date Analyzed: 21-Feb-12

Prep Method: NONE

Prep Batch: MO120221-1

QCBatchID: MO120221-1-1

Run ID: mo120221-1a

Cleanup: NONE

Basis: N/A

File Name: 02211223

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-35-5	TOTAL ORGANIC CARBON	1	1	1	U	

Data Package ID: mo1202195-1

Date Printed: Friday, February 24, 2012

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LIMS Version: 6.566

Organic Carbon

Method EPA415.1

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:	MO120221-1	Analyst:	Steven D. W
Lab ID:	1202195-1	% Moisture:	N/A	QCBatchID:	MO120221-1-1	Sample Aliquot:	40 ML
		Date Collected:	14-Feb-12	Run ID:	mo120221-1a	Final Volume:	40 ML
		Date Extracted:	21-Feb-12	Cleanup:	NONE	Result Units:	MG/L
		Date Analyzed:	21-Feb-12	Basis:	As Received	Clean DF:	1
		Prep Method:	NONE	File Name:	02211223		

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
10-35-5	TOTAL ORGANIC CARBON	1	1.6	1		

Data Package ID: *mo1202195-1*

Organic Carbon

Method EPA415.1

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: MO120221-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/21/2012

Date Analyzed: 02/21/2012

Prep Method: NONE

Prep Batch: MO120221-1

QCBatchID: MO120221-1-1

Run ID: mo120221-1a

Cleanup: NONE

Basis: N/A

File Name: 02211223

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
10-35-5	TOTAL ORGANIC CARBON	15	16.3	1		108	85 - 115%

Lab ID: MO120221-1LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/21/2012

Date Analyzed: 02/21/2012

Prep Method: NONE

Prep Batch: MO120221-1

QCBatchID: MO120221-1-1

Run ID: mo120221-1a

Cleanup: NONE

Basis: N/A

File Name: 02211223

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
10-35-5	TOTAL ORGANIC CARBON	15	15	1		100	20	8

Data Package ID: mo1202195-1

Date Printed: Friday, February 24, 2012

ALS Environmental -- FC

LIMS Version: 6.566

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