



# ALS Paragon



## Total Organic Carbon Case Narrative

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### Colorado Oil & Gas Conservation Commission

Complaint 200204222

Work Order Number: 0902200

1. This report consists of 1 water sample.
2. The sample was received cool and intact by ALS Paragon on 02/25/09.
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 12

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.
  - n 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.

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.

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

SLJ  
Sharon L. Jobes  
Organics Primary Data Reviewer

3-2-09  
Date

Eric Banks  
Organics Final Data Reviewer

3/2/09  
Date

# ALS Paragon

## Sample Number(s) Cross-Reference Table

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**Paragon OrderNum:** 0902200

**Client Name:** Colorado Oil & Gas Conservation Commission

**Client Project Name:** Complaint 200204222

**Client Project Number:**

**Client PO Number:** OE PHA 090000000004

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Dasko WW	0902200-1		WATER	24-Feb-09	14:37
Trip Blank	0902200-2		WATER	24-Feb-09	

0902200

**Project Name/No.:** \_\_\_\_\_

**Sampler(s):** (S.M./H.C.) Turnaround (circle one) **Standard** or **Rush** (Due Date 30 days) or Return to Client (Dispose: None)

Report To: Peter Gintantus  
Phone: 714-846-2091  
Fax:  
E-mail: peter.gintantus@statco.co.us  
Company: Cal. Oil & Gas Cons. Comm.  
Address:

Complaint 2002 042222

Circle method (right): provide additional information as needed (comments).

[illegible]

* Time Zone:	E	S	T
EST	CST	MST	PST
<b>Matrix Key:</b> O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter			

Comments:

Filter + pressure metals spec. receipt

Animals = Br, Cl, F, Na<sub>2</sub>, Na<sub>3</sub>, Se<sub>4</sub>

200.7 = Ba, Be, B, Ca, Cr, Cu, Fe, Li, Mg, Mn, Ni, K, Na, Zn, Sr

200.8 = Sb, As, Cd, Pb, Mo, Se, Ag, Te, U

Relinquished By: John C. Cantelero  
Signature  
Printed Name  
Date 2/25/2007 Time 17.25  
Company City of Worcester

Received By: Lara J Orban (1)  
Signature \_\_\_\_\_  
Printed Name Lara J Orban  
Date 2/25/09 Time 1030  
Company ATSParas.com

Relinquished By: \_\_\_\_\_  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

Received By: \_\_\_\_\_  
Signature \_\_\_\_\_  
Printed Name \_\_\_\_\_  
Date \_\_\_\_\_ Time \_\_\_\_\_  
Company \_\_\_\_\_

## CONDITION OF SAMPLE UPON RECEIPT FORM

Paragon Analytics

Client: COGCC  
Project Manager: AWWorkorder No: 0902200  
Initials: LJO Date: 2/25/09

1. Does this project require any <b>special handling</b> in addition to standard Paragon procedures?	YES	<u>NO</u>
2. Are custody <b>seals</b> on <b>shipping containers</b> intact?	NONE	<u>YES</u> NO
3. Are Custody seals on <b>sample containers</b> intact?	<u>NONE</u> YES	NO
4. Is there a <b>COC (Chain-of-Custody)</b> present or other representative documents?	<u>YES</u>	NO
5. Are the <b>COC and bottle labels complete and legible</b> ?	<u>YES</u>	NO
6. Is the <b>COC in agreement</b> with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)	<u>YES</u>	NO
7. Were <b>airbills / shipping documents</b> present and/or removable?	DROP OFF <u>YES</u>	NO
8. Are all aqueous <b>samples requiring preservation preserved correctly?</b> (excluding volatiles)	N/A	<u>YES</u> <u>NO</u>
9. Are all aqueous <b>non-preserved samples pH 4-9?</b>	N/A	<u>YES</u> NO
10. Is there <b>sufficient sample</b> for the requested analyses?	<u>YES</u>	NO
11. Were all samples placed in the <b>proper containers</b> for the requested analyses?	<u>YES</u>	NO
12. Are all samples within <b>holding times</b> for the requested analyses?	<u>YES</u>	NO
13. Were all sample containers received <b>intact?</b> (not broken or leaking, etc.)	<u>YES</u>	NO
14. Are all samples requiring <b>no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)</b> headspace free? <b>Size of bubble:</b> <u>    </u> < green pea <u>  x  </u> > green pea	N/A	YES <u>NO</u>
15. Do perchlorate LCMS-MS samples <b>have</b> 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 <b>residual chlorine?</b> (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 <b>shipped on ice?</b>	<u>YES</u>	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <u>#2</u> <u>#4</u> RAD ONLY	<u>YES</u>	NO
Cooler #: <u>1</u>		
Temperature (°C): <u>1.16</u>		
No. of custody seals on cooler: <u>2</u>		
DOT Survey/Acceptance Information	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.

- The 125ml amber for toc analysis had no identification label.
- \* The 500ml poly for metals analysis was received unpreserved.
- + Sample #2 (Trip Blank) 2 of 2 40ml vial contain headspace > pea.

If applicable, was the client contacted? YES / NO / NA Contact: Peter Gintantas Date/Time: e-mailProject Manager Signature / Date: [Signature] 2/25/09

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

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



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

# TOTAL ORGANIC CARBON

Method EPA415.1

## Sample Results

**Lab Name:** ALS Paragon  
**Client Name:** Colorado Oil & Gas Conservation Commission  
**Client Project ID:** Complaint 200204222  
**Work Order Number:** 0902200 **Final Volume:** 40 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
Dasko WW	0902200-1	02/24/2009	02/25/2009	02/25/2009	N/A	1	1.4	1		40 ml

### Comments:

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

**Data Package ID:** MO0902200-1

**Date Printed:** Friday, February 27, 2009

**ALS Paragon**

LIMS Version: 6.248A

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# TOTAL ORGANIC CARBON

Method EPA415.1

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0902200

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204222

Lab ID: MO090225-1MB

Sample Matrix: WATER

% Moisture: N/A

Prep Batch: MO090225-1

QCBatchID: MO090225-1-1

Run ID: MO090225-1A

Cleanup: NONE

Basis: N/A

Sample Aliquot: 40 ml

Final Volume: 40 ml

Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
MO090225-1MB	2/25/2009	02/25/2009	N/A	1	1	1	U

## Comments:

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

Data Package ID: MO0902200-1

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# Organic Carbon

## Method EPA415.1

### Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Paragon

Work Order Number: 0902200

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204222

Lab ID: MO090225-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/25/2009

Date Analyzed: 02/25/2009

Prep Method: NONE

Prep Batch: MO090225-1

QCBatchID: MO090225-1-1

Run ID: MO090225-1A

Cleanup: NONE

Basis: N/A

File Name: 02251254

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	14.7	1		98	85 - 115%

Lab ID: MO090225-1LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 02/25/2009

Date Analyzed: 02/25/2009

Prep Method: NONE

Prep Batch: MO090225-1

QCBatchID: MO090225-1-1

Run ID: MO090225-1A

Cleanup: NONE

Basis: N/A

File Name: 02251254

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	14.8	1		99	20	1

Data Package ID: MO0902200-1

Date Printed: Friday, February 27, 2009

ALS Paragon

LIMS Version: 6.248A

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