



ALS Paragon



Dissolved Gasses Case Narrative

Colorado Oil & Gas Conservation Commission

Complaint 200204501

Work Order Number: 0904037

1. This report consists of 1 water sample. The sample was received cool and intact by ALS Paragon on 04/03/09. 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, and laboratory control sample duplicate. 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.
4. All preparation QC results were within the acceptance criteria.
5. All samples are associated with one or more of the following analytical QC: initial calibrations, initial calibration verifications (ICV), and continuing calibration verifications (CCV).
6. All analytical QC were within the acceptance criteria.
7. Sample dilutions were not required for the requested analysis.
8. The sample was prepared and analyzed within the established holding times.
9. 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 Paragon certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Emily Knodel
Emily Knodel
Organics Primary Data Reviewer

04-13-09
Date

Dan Sheneman
Organics Final Data Reviewer

04-13-09
Date

***ALS Paragon
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 retention time data indicate the presence of a compound that meets the GC 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 equal to or outside the control criteria used.
- +**: This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.

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Sample Number(s) Cross-Reference Table

Paragon OrderNum: 0904037

Client Name: Colorado Oil & Gas Conservation Commission

Client Project Name: Complaint 200204501

Client Project Number:

Client PO Number: OE PHA 090000000004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
Dahl WW	0904037-1		WATER	02-Apr-09	12:18
Trip Blank	0904037-2		WATER	02-Apr-09	

Paragon Analytics

Workorder No: 09 04 037

Initials: LJO Date: 4/3/09

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

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

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

Dissolved Gasses

Method RSK175

Method Blank

Lab Name: ALS Paragon

Work Order Number: 0904037

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204501

Lab ID: HC090409-1MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 09-Apr-09

Date Analyzed: 09-Apr-09

Prep Method: METHOD

Prep Batch: HC090409-1

QCBatchID: HC090409-1-1

Run ID: HC090409-1A

Cleanup: NONE

Basis: N/A

File Name: 01049.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: HC0904037-1

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Dissolved Gasses

Method RSK175

Sample Results

Lab Name: ALS Paragon

Work Order Number: 0904037

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204501

Field ID: Dahl WW
Lab ID: 0904037-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 02-Apr-09
Date Extracted: 09-Apr-09
Date Analyzed: 09-Apr-09
Prep Method: METHOD

Prep Batch: HC090409-1
QCBatchID: HC090409-1-1
Run ID: HC090409-1A
Cleanup: NONE
Basis: As Received
File Name: 01056.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	1	1	U	
74-85-1	ETHENE	1	1	1	U	
74-84-0	ETHANE	1	2	2	U	

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Dissolved Gasses

Method RSK175

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Paragon

Work Order Number: 0904037

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200204501

Lab ID: HC090409-1LCS

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 04/09/2009

Date Analyzed: 04/09/2009

Prep Method: METHOD

Prep Batch: HC090409-1

QCBatchID: HC090409-1-1

Run ID: HC090409-1A

Cleanup: NONE

Basis: N/A

File Name: 01048.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	137	1		97	80 - 120%
74-85-1	ETHENE	249	239	1		96	80 - 120%
74-84-0	ETHANE	267	259	2		97	80 - 120%

Lab ID: HC090409-1LCSD

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 04/09/2009

Date Analyzed: 04/09/2009

Prep Method: METHOD

Prep Batch: HC090409-1

QCBatchID: HC090409-1-1

Run ID: HC090409-1A

Cleanup: NONE

Basis: N/A

File Name: 01058.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	156	1		110	25	13
74-85-1	ETHENE	249	268	1		108	25	11
74-84-0	ETHANE	267	295	2		111	25	13

Data Package ID: HC0904037-1

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