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Automated Report

Technical Report for

Kerr-McGee Oil & Gas Onshore LP

GWA_Schrute_Farms_9_1HZ

FID:753030 Reg:Vol. Freq.:IN

SGS Job Number: DA40849

Sampling Date: 01/12/22

Report to:

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Total number of pages in report: 46



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable.

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Certifications: CO (CO00049), NE (NE-OS-06-04), ND (R-027), UT (NELAP CO00049)
LA (LA150028), TX (T104704511), WY (8TMS-L), HI (CO00049), NJ (CO011)

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Test results relate only to samples analyzed.

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Sample Summary

Kerr-McGee Oil & Gas Onshore LP

Job No: DA40849

GWA_Schrute_Farms_9_1HZ

Project No: FID:753030 Reg:Vol. Freq.:IN

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
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This report contains results reported as ND = Not detected. The following applies:
Organics ND = Not detected above the MDL

DA40849-1	01/12/22	12:47	MH	01/13/22	AQ	Ground Water	BW_LARSON_273679 NENE_17_1N_67W
DA40849-1A	01/12/22	12:47	MH	01/13/22	AQ	Ground Water	BW_LARSON_273679 NENE_17_1N_67W
DA40849-1B	01/12/22	12:47	MH	01/13/22	AQ	Ground Water	BW_LARSON_273679 NENE_17_1N_67W
DA40849-1F	01/12/22	12:47	MH	01/13/22	AQ	Groundwater Filtered	BW_LARSON_273679 NENE_17_1N_67W

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Kerr-McGee Oil & Gas Onshore LP

Job No: DA40849

Site: GWA_Schrute_Farms_9_1HZ

Report Date 2/1/2022 12:35:33 PM

On 01/13/2022, 1 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.5 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of DA40849 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Volatiles By Method SW846 8260B

Matrix: AQ **Batch ID:** V7V3843

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method RSK175 MOD

Matrix: AQ **Batch ID:** GFK211

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC Volatiles By Method SW846 8015D

Matrix: AQ **Batch ID:** GGA2544

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

GC/LC Semi-volatiles By Method SW846-8015D

Matrix: AQ **Batch ID:** OP21061

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40802-1MS, DA40802-1MSD were used as the QC samples indicated.

Metals Analysis By Method EPA 200.8

Matrix: AQ **Batch ID:** MP34128

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40675-1FMS, DA40675-1FMSD were used as the QC samples for the metals analysis.
- MP34128-B1 for Boron: Recovery adjusted to reflect spike amount.

Matrix: AQ **Batch ID:** MP34153

- All samples were digested within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA41283-2AMS, DA41283-2AMSD were used as the QC samples for the metals analysis.

General Chemistry By Method EPA 300.0

Matrix: AQ **Batch ID:** GP30539

- DA40849-1 for Nitrogen, Nitrate + Nitrite: Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)

General Chemistry By Method EPA 365.1

Matrix: AQ **Batch ID:** GP30544

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40776-1DUP, DA40811-1MS, DA40811-1MSD were used as the QC samples for the Phosphorus, Total analysis.

General Chemistry By Method EPA300.0

Matrix: AQ **Batch ID:** GP30539

- All samples were prepared within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40835-2MS, DA40835-2MSD were used as the QC samples for the Bromide, Chloride, Fluoride, Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate, Bromide analysis.
- DA40849-1 for Nitrogen, Nitrate: Elevated detection limit due to matrix interference.
- DA40849-1 for Nitrogen, Nitrite: Elevated detection limit due to matrix interference.

General Chemistry By Method HACH IRB-BART

Matrix: AQ **Batch ID:** MB1506

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40771-1BDUP were used as the QC samples for the Iron-Related Bacteria analysis.

General Chemistry By Method HACH SLYM-BART

Matrix: AQ **Batch ID:** MB1507

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40771-1BDUP were used as the QC samples for the Slime Forming Bacteria analysis.

General Chemistry By Method HACH SRB-BART

Matrix: AQ **Batch ID:** MB1508

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40771-1BDUP were used as the QC samples for the Sulfate Reducing Bacteria analysis.

General Chemistry By Method SM 2320B-2011

Matrix: AQ **Batch ID:** GN55261

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40847-1DUP, DA40884-1MS, DA40884-1MSD were used as the QC samples for the Alkalinity, Total as CaCO₃ analysis.

Matrix: AQ **Batch ID:** GN55263

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix: AQ **Batch ID:** GN55264

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

General Chemistry By Method SM 2510B-2011

Matrix: AQ **Batch ID:** GP30552

- The data for SM 2510B-2011 meets quality control requirements.

General Chemistry By Method SM 2540C-2011

Matrix: AQ **Batch ID:** GN55211

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) DA40781-1DUP were used as the QC samples for the Solids, Total Dissolved analysis.
- The duplicate RPD(s) for Solids, Total Dissolved are outside control limits for sample GN55211-DUP1. Probable cause due to sample homogeneity.

General Chemistry By Method SM1030E-2011

Matrix: AQ **Batch ID:** GN55353

- The data for SM1030E-2011 meets quality control requirements.
- DA40849-1 for Cation Anion Balance: Ion balance likely due to matrix interference.

General Chemistry By Method SM4500HB+-2011/9040C

Matrix: AQ	Batch ID: GN55198
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- The data for SM4500HB+-2011/9040C meets quality control requirements.
- The following samples were run outside of holding time for method SM4500HB+-2011/9040C: DA40849-1 Sample analyzed beyond recommended hold time.

Field Data By Method FIELD

Matrix: AQ	Batch ID: R56611
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- The data for FIELD meets quality control requirements.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: DA40849
 Account: Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ
 Collected: 01/12/22



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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DA40849-1 BW_LARSON_273679 NENE_17_1N_67W

Fluoride	2.2	0.20			mg/l	EPA300.0
Chloride	81.4	13			mg/l	EPA300.0
Bromide	0.79	0.10			mg/l	EPA300.0
Sulfate	183	13			mg/l	EPA300.0
Alkalinity, Bicarbonate as CaCO3	536	5.0			mg/l	SM 2320B-2011
Alkalinity, Carbonate	30.0	5.0			mg/l	SM 2320B-2011
Alkalinity, Total as CaCO3	566	5.0			mg/l	SM 2320B-2011
Cation Anion Balance ^a	10.3				%	SM1030E-2011
Phosphorus, Total	0.13	0.010			mg/l	EPA 365.1
Solids, Total Dissolved	1030	10			mg/l	SM 2540C-2011
Specific Conductivity	1620	1.0			umhos/cm	SM 2510B-2011
pH ^b	8.69				su	SM4500HB+ -2011/9040C
Temperature (Field)	13.8				Deg. C	FIELD
Turbidity	0.02				NTU	FIELD
pH (Field)	8.55				su	FIELD
Specific Conductivity (Field)	1637.9	0.50			umhos/cm	FIELD
Oxygen, Dissolved (Field)	0.08				mg/l	FIELD

DA40849-1A BW_LARSON_273679 NENE_17_1N_67W

Methane	0.0116	0.00080	0.00070		mg/l	RSK175 MOD
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DA40849-1B BW_LARSON_273679 NENE_17_1N_67W

Iron-Related Bacteria	< 25	25			CFU/ml	HACH IRB-BART
Slime Forming Bacteria	< 500	500			CFU/ml	HACH SLYM-BART
Sulfate Reducing Bacteria	< 200	200			CFU/ml	HACH SRB-BART

DA40849-1F BW_LARSON_273679 NENE_17_1N_67W

Barium	0.0504	0.0040			mg/l	EPA 200.8
Boron	0.289	0.080			mg/l	EPA 200.8
Calcium	2.84	0.80			mg/l	EPA 200.8
Iron	0.0499	0.040			mg/l	EPA 200.8
Magnesium	0.911	0.20			mg/l	EPA 200.8
Manganese	0.0054	0.0020			mg/l	EPA 200.8
Potassium	1.61	0.40			mg/l	EPA 200.8
Sodium	322	5.0			mg/l	EPA 200.8
Strontium	0.148	0.040			mg/l	EPA 200.8

(a) Ion balance likely due to matrix interference.

(b) Sample analyzed beyond recommended hold time.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: BW_LARSON_273679 NENE_17_1N_67W	Date Sampled: 01/12/22
Lab Sample ID: DA40849-1	Date Received: 01/13/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8260B	
Project: GWA_Schrute_Farms_9_1HZ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	7V76433.D	1	01/17/22 20:17	MB	n/a	n/a	V7V3843
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	
	m,p-Xylene	ND	1.0	0.96	ug/l	
95-47-6	o-Xylene	ND	1.0	0.60	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	123%		70-130%
17060-07-0	1,2-Dichloroethane-D4	110%		70-130%
2037-26-5	Toluene-D8	99%		70-130%
460-00-4	4-Bromofluorobenzene	106%		70-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: BW_LARSON_273679 NENE_17_1N_67W	Date Sampled: 01/12/22
Lab Sample ID: DA40849-1	Date Received: 01/13/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846 8015D	
Project: GWA_Schrute_Farms_9_1HZ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA56543.D	1	01/17/22 02:50	MB	n/a	n/a	GGA2544
Run #2							

Run #	Purge Volume
Run #1	5.0 ml
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	117%		60-140%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID: BW_LARSON_273679 NENE_17_1N_67W	Date Sampled: 01/12/22
Lab Sample ID: DA40849-1	Date Received: 01/13/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: SW846-8015D SW846 3510C	
Project: GWA_Schrute_Farms_9_1HZ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH064690.D	1	01/16/22 23:17	NO	01/16/22 06:00	OP21061	GFP2323
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.20	0.19	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	83%		10-131%		

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.1
4

Report of Analysis

Client Sample ID:	BW_LARSON_273679 NENE_17_1N_67W	Date Sampled:	01/12/22
Lab Sample ID:	DA40849-1	Date Received:	01/13/22
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Project:	GWA_Schrute_Farms_9_1HZ		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
300.0							
Fluoride	2.2	0.20	mg/l	2	01/13/22 17:12	JB	EPA300.0
Chloride	81.4	13	mg/l	25	01/13/22 17:25	JB	EPA300.0
Nitrogen, Nitrite ^a	< 0.0080	0.0080	mg/l	2	01/13/22 17:12	JB	EPA300.0
Bromide	0.79	0.10	mg/l	2	01/13/22 17:12	JB	EPA300.0
Nitrogen, Nitrate ^a	< 0.020	0.020	mg/l	2	01/13/22 17:12	JB	EPA300.0
Sulfate	183	13	mg/l	25	01/13/22 17:25	JB	EPA300.0
300.0 NO2 + NO3O							
Nitrogen, Nitrate + Nitrite ^b	< 0.028	0.028	mg/l	1	01/13/22 17:12	JB	EPA 300.0
Alkalinity, Bicarbonate as CaC	536	5.0	mg/l	1	01/20/22	TH	SM 2320B-2011
Alkalinity, Carbonate	30.0	5.0	mg/l	1	01/20/22	TH	SM 2320B-2011
Alkalinity, Total as CaCO ₃	566	5.0	mg/l	1	01/20/22	TH	SM 2320B-2011
Cation Anion Balance ^c	10.3		%	1	01/31/22 15:00	JB	SM1030E-2011
Phosphorus, Total	0.13	0.010	mg/l	1	01/14/22 16:11	CP	EPA 365.1
Solids, Total Dissolved	1030	10	mg/l	1	01/17/22	SB	SM 2540C-2011
Specific Conductivity	1620	1.0	umhos/cm	1	01/17/22 04:00	SB	SM 2510B-2011
pH ^d	8.69		su	1	01/14/22	SB	SM4500HB+ -2011/9040C

Field Parameters

Oxygen, Dissolved (Field)	0.08		mg/l	1	01/12/22 12:47	SUB	FIELD
Redox Potential Vs H ₂	-205		mv	1	01/12/22 12:47	SUB	FIELD
Specific Conductivity (Field)	1637.9	0.50	umhos/cm	1	01/12/22 12:47	SUB	FIELD
Temperature (Field)	13.8		Deg. C	1	01/12/22 12:47	SUB	FIELD
Turbidity	0.02		NTU	1	01/12/22 12:47	SUB	FIELD
pH (Field)	8.55		su	1	01/12/22 12:47	SUB	FIELD

- (a) Elevated detection limit due to matrix interference.
 (b) Calculated as: (Nitrogen, Nitrate) + (Nitrogen, Nitrite)
 (c) Ion balance likely due to matrix interference.
 (d) Sample analyzed beyond recommended hold time.

RL = Reporting Limit

Report of Analysis

Client Sample ID: BW_LARSON_273679 NENE_17_1N_67W	Date Sampled: 01/12/22
Lab Sample ID: DA40849-1A	Date Received: 01/13/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Method: RSK175 MOD	
Project: GWA_Schrute_Farms_9_1HZ	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FK2951.D	1	01/17/22 15:46	MB	n/a	n/a	GFK211
Run #2							

Run #	Initial Volume	Headspace Volume	Volume Injected	Temperature
Run #1	39.0 ml	4.0 ml	500 ul	21.2 Deg. C
Run #2				

Methane, Ethane and Propane

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	0.0116	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
 RL = Reporting Limit B = Indicates analyte found in associated method blank
 E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

4.2
4

Report of Analysis

Client Sample ID: BW_LARSON_273679 NENE_17_1N_67W	Date Sampled: 01/12/22
Lab Sample ID: DA40849-1B	Date Received: 01/13/22
Matrix: AQ - Ground Water	Percent Solids: n/a
Project: GWA_Schrute_Farms_9_1HZ	

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Iron-Related Bacteria	< 25	25	CFU/ml	1	01/18/22 16:00	JB	HACH IRB-BART
Slime Forming Bacteria	< 500	500	CFU/ml	1	01/18/22 16:00	JB	HACH SLYM-BART
Sulfate Reducing Bacteria	< 200	200	CFU/ml	1	01/18/22 16:00	JB	HACH SRB-BART

RL = Reporting Limit

Report of Analysis

Client Sample ID: BW_LARSON_273679 NENE_17_1N_67W	Date Sampled: 01/12/22
Lab Sample ID: DA40849-1F	Date Received: 01/13/22
Matrix: AQ - Groundwater Filtered	Percent Solids: n/a
Project: GWA_Schrute_Farms_9_1HZ	

Dissolved Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed By	Method	Prep Method
Barium	0.0504	0.0040	mg/l	2	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³
Boron	0.289	0.080	mg/l	2	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³
Calcium	2.84	0.80	mg/l	2	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³
Iron	0.0499	0.040	mg/l	2	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³
Magnesium	0.911	0.20	mg/l	2	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³
Manganese	0.0054	0.0020	mg/l	2	01/29/22	01/31/22	CH EPA 200.8 ²	EPA 200.8 ⁴
Potassium	1.61	0.40	mg/l	2	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³
Selenium	< 0.00080	0.00080	mg/l	2	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³
Sodium	322	5.0	mg/l	10	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³
Strontium	0.148	0.040	mg/l	2	01/24/22	01/26/22	CH EPA 200.8 ¹	EPA 200.8 ³

- (1) Instrument QC Batch: MA14588
- (2) Instrument QC Batch: MA14616
- (3) Prep QC Batch: MP34128
- (4) Prep QC Batch: MP34153

RL = Reporting Limit

4.4
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Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody



CHAIN OF CUSTODY

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.acctest.com

Bottle Order Control #
FED-EX Tracking #
SGS Quote #
SGS Job # DA40849

Client / Reporting Information
Project Information
Requested Analysis (see TEST CODE sheet)
Matrix Codes
Collection
Number of preserved bottles
Field ID / Point of Collection
Date
Time
Sampled by
Matrix
of bottles
PH, SCOD, TDS
XCARBICALK
BRO, CHL, F, NO2, XNO3O, NO32, SO4
TP04
Dissolved Metals - Lab Filtered
VRSK175DGMIEP
V8260BTX
B8015DRO
V8015GRO
IRBAC, SFBAC, SO4RBAC
CABAL
LAB USE ONLY

Turnaround Time (Business days)
Data Deliverable Information
Comments / Special Instructions
Dissolved Metals (200.7/200.8): BaMS, B, Ca, Fe, Mg, Mn, K, SeMS, Na, Sr
Please also send reports to Joel.Mason@Absarokasolutions.com and Max.Moran@Absarokasolutions.com

Sample Custody must be documented below each time samples change possession, including courier delivery.
Relinquished By:
Date/Time:
Received By:
Date/Time:
Custody Seal #
Intact
Not intact
Absent
Preserved where applicable
Cooler Temp. °C:
Therm. ID:
On Ice
Form MSQA 064-01, RV 6/19/17
http://www.sgs.com/terms-and-conditions

5.1
5



SGS Sample Receipt Summary

Job Number: DA40849

Client: ABSAROKA SOLUTIONS

Project: GWA_SCHRUTE_FARMS_9_1HZ

Date / Time Received: 1/13/2022 1:00:00 PM

Delivery Method:

Airbill #'s: CO

Cooler Temps (Initial/Adjusted):

Cooler Security

- | | <u>Y or N</u> | | | <u>Y or N</u> | |
|---------------------------|-------------------------------------|--------------------------|-----------------------|-------------------------------------|--------------------------|
| 1. Custody Seals Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. COC Present: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Custody Seals Intact: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Smpl Dates/Time OK | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Cooler Temperature

- | | <u>Y or N</u> | |
|------------------------------|-------------------------------------|--------------------------|
| 1. Temp criteria achieved: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Cooler temp verification: | _____ | |
| 3. Cooler media: | _____ | |
| 4. No. Coolers: | 0 | |

Quality Control Preservation

- | | <u>Y or N</u> | | <u>N/A</u> |
|---------------------------------|-------------------------------------|--------------------------|--------------------------|
| 1. Trip Blank present / cooler: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Samples preserved properly: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. VOCs headspace free: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

Comments

Sample Integrity - Documentation

- | | <u>Y or N</u> | |
|--|-------------------------------------|--------------------------|
| 1. Sample labels present on bottles: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. Container labeling complete: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Sample container label / COC agree: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

Sample Integrity - Condition

- | | <u>Y or N</u> | |
|----------------------------------|-------------------------------------|--------------------------|
| 1. Sample recvd within HT: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 2. All containers accounted for: | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| 3. Condition of sample: | Intact | |

Sample Integrity - Instructions

- | | <u>Y or N</u> | | <u>N/A</u> |
|---|-------------------------------------|-------------------------------------|-------------------------------------|
| 1. Analysis requested is clear: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 2. Bottles received for unspecified tests | <input type="checkbox"/> | <input checked="" type="checkbox"/> | |
| 3. Sufficient volume recvd for analysis: | <input checked="" type="checkbox"/> | <input type="checkbox"/> | |
| 4. Compositing instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 5. Filtering instructions clear: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

5.1
5

DA40849: Chain of Custody

Page 2 of 2

MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA40849
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V3843-MB	7V76416.D	1	01/17/22	MB	n/a	n/a	V7V3843

The QC reported here applies to the following samples:

Method: SW846 8260B

DA40849-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.60	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.60	ug/l	
108-88-3	Toluene	ND	1.0	0.50	ug/l	
	m,p-Xylene	ND	1.0	0.96	ug/l	
95-47-6	o-Xylene	ND	1.0	0.60	ug/l	
1330-20-7	Xylene (total)	ND	1.0	1.0	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	104% 70-130%
17060-07-0	1,2-Dichloroethane-D4	100% 70-130%
2037-26-5	Toluene-D8	100% 70-130%
460-00-4	4-Bromofluorobenzene	101% 70-130%

6.1.1
6

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA40849
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V7V3843-BS	7V76412.D	1	01/17/22	MB	n/a	n/a	V7V3843
V7V3843-BSD	7V76413.D	1	01/17/22	MB	n/a	n/a	V7V3843

The QC reported here applies to the following samples:

Method: SW846 8260B

DA40849-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	50	52.7	105	52.9	106	0	70-130/30
100-41-4	Ethylbenzene	50	53.3	107	53.0	106	1	70-130/30
108-88-3	Toluene	50	50.8	102	50.9	102	0	70-130/30
	m,p-Xylene	100	108	108	108	108	0	70-130/30
95-47-6	o-Xylene	50	54.0	108	53.2	106	1	70-130/30
1330-20-7	Xylene (total)	150	162	108	161	107	1	70-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	102%	102%	70-130%
17060-07-0	1,2-Dichloroethane-D4	103%	105%	70-130%
2037-26-5	Toluene-D8	100%	98%	70-130%
460-00-4	4-Bromofluorobenzene	103%	101%	70-130%

* = Outside of Control Limits.

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA40849
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2544-MB	GA56527.D	1	01/16/22	MB	n/a	n/a	GGA2544

The QC reported here applies to the following samples:

Method: SW846 8015D

DA40849-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	0.050	0.040	mg/l	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	113% 60-140%

7.1.1
7

Method Blank Summary

Job Number: DA40849
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK211-MB	FK2940.D	1	01/17/22	MB	n/a	n/a	GFK211

The QC reported here applies to the following samples:

Method: RSK175 MOD

DA40849-1A

CAS No.	Compound	Result	RL	MDL	Units	Q
74-82-8	Methane	ND	0.00080	0.00070	mg/l	
74-84-0	Ethane	ND	0.0016	0.0010	mg/l	
74-98-6	Propane	ND	0.0022	0.0017	mg/l	

7.1.2

7

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA40849
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA2544-BS	GA56525.D	1	01/16/22	MB	n/a	n/a	GGA2544
GGA2544-BSD	GA56526.D	1	01/16/22	MB	n/a	n/a	GGA2544

The QC reported here applies to the following samples:

Method: SW846 8015D

DA40849-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	2.2	1.58	72	1.63	74	3	49-130/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
120-82-1	1,2,4-Trichlorobenzene	114%	116%	60-140%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: DA40849
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GFK211-BS	FK2941.D	10	01/17/22	MB	n/a	n/a	GFK211
GFK211-BSD	FK2942.D	10	01/17/22	MB	n/a	n/a	GFK211

The QC reported here applies to the following samples:

Method: RSK175 MOD

DA40849-1A

CAS No.	Compound	Spike	BSP	BSP	BSD	BSD	RPD	Limits
		mg/l	mg/l	%	mg/l	%		Rec/RPD
74-82-8	Methane	0.512	0.570	111	0.605	118	6	70-130/30
74-84-0	Ethane	0.923	1.12	121	1.19	129	6	70-142/30
74-98-6	Propane	1.38	1.58	115	1.68	122	6	70-137/30

7.2.2
7

* = Outside of Control Limits.

GC/LC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: DA40849
Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21061-MB	FH064630.D	1	01/16/22	NO	01/16/22	OP21061	GFP2323

The QC reported here applies to the following samples:

Method: SW846-8015D

DA40849-1

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	0.20	0.10	mg/l	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	34% 10-131%

Blank Spike Summary

Job Number: DA40849
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21061-BS	FH064648.D	1	01/16/22	NO	01/16/22	OP21061	GFP2323

The QC reported here applies to the following samples:

Method: SW846-8015D

DA40849-1

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	Limits
	TPH-DRO (C10-C28)	5	2.79	56	20-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	55%	10-131%

8.2.1

8

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: DA40849
 Account: ANADACOD Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP21061-MS	FH064652.D	1	01/16/22	NO	01/16/22	OP21061	GFP2323
OP21061-MSD	FH064654.D	1	01/16/22	NO	01/16/22	OP21061	GFP2323
DA40802-1	FH064656.D	1	01/16/22	NO	01/16/22	OP21061	GFP2323

The QC reported here applies to the following samples:

Method: SW846-8015D

DA40849-1

CAS No.	Compound	DA40802-1 mg/l	Spike Q mg/l	MS mg/l	MS %	Spike mg/l	MSD mg/l	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	0.266	10	6.37	61	10	7.39	71	15	20-130/30

CAS No.	Surrogate Recoveries	MS	MSD	DA40802-1	Limits
84-15-1	o-Terphenyl	68%	78%	79%	10-131%

8.3.1
8

* = Outside of Control Limits.

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA40849
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

QC Batch ID: MP34128
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 01/24/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.52	13		
Antimony	0.40	.01	.3		
Arsenic	0.20	.05	.05		
Barium	2.0	.096	.25	0.045	<2.0
Beryllium	0.20	.077	.1		
Boron	40	18	20	8.3	<40
Cadmium	0.10	.03	.04		
Calcium	400	25	100	7.6	<400
Chromium	2.0	.087	.25		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	.81		
Iron	20	1.6	10	1.9	<20
Lead	0.50	.094	.13		
Magnesium	100	10	25	6.8	<100
Manganese	1.0	.079	.51		
Molybdenum	1.0	.037	.27		
Nickel	2.0	.098	.35		
Phosphorus	60	7.6	25		
Potassium	200	2	50	-2.2	<200
Selenium	0.40	.05	.1	0.013	<0.40
Silver	0.10	.0081	.025		
Sodium	500	10	130	80.9	<500
Strontium	20	.1	5	0.039	<20
Thallium	0.20	.032	.05		
Tin	10	.22	2.5		
Titanium	2.0	.05	.37		
Uranium	0.20	.015	.05		
Vanadium	1.0	.14	.2		
Zinc	10	.05	2.1		

Associated samples MP34128: DA40849-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.1.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40849
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

QC Batch ID: MP34128
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/24/22

Metal	DA40675-1F Original MS		SpikeLot ICPAL4	% Rec	QC Limits
Aluminum	anr				
Antimony					
Arsenic					
Barium	73.8	481	400	104.0	70-130
Beryllium					
Boron	267	613	400	86.5 (a)	70-130
Cadmium					
Calcium	2750	7480	5000	94.6	70-130
Chromium					
Cobalt	anr				
Copper					
Iron	57.9	967	1000	90.9	70-130
Lead					
Magnesium	851	5490	5000	93.7	70-130
Manganese	anr				
Molybdenum					
Nickel					
Phosphorus					
Potassium	1310	5950	5000	95.0	70-130
Selenium	0.13	182	200	91.0	70-130
Silver					
Sodium	244000	249000	5000	100.0	70-130
Strontium	96.1	189	100	105.6	70-130
Thallium					
Tin					
Titanium					
Uranium					
Vanadium	anr				
Zinc					

Associated samples MP34128: DA40849-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested
 (a) Recovery adjusted to reflect spike amount.

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40849
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

QC Batch ID: MP34128
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/24/22

Metal	DA40675-1F Original MSD	SpikeLot ICPAL4	% Rec	MSD RPD	QC Limit	
Aluminum	anr					
Antimony						
Arsenic						
Barium	65.0	478	400	103.3	11.5	20
Beryllium						
Boron	267	645	400	94.5 (a)	3.6	20
Cadmium						
Calcium	2750	8200	5000	109.0	16.5	20
Chromium						
Cobalt	anr					
Copper						
Iron	57.9	989	1000	93.1	2.2	20
Lead						
Magnesium	851	5640	5000	96.7	2.7	20
Manganese	anr					
Molybdenum						
Nickel						
Phosphorus						
Potassium	1310	6090	5000	97.8	5.6	20
Selenium	0.0	190	200	95.0	13.5	20
Silver						
Sodium	244000	258000	5000	280.0(b)	3.6	20
Strontium	83.4	195	100	111.6	3.1	20
Thallium						
Tin						
Titanium						
Uranium	anr					
Vanadium	anr					
Zinc						

Associated samples MP34128: DA40849-1F

Results < IDL are shown as zero for calculation purposes

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

(anr) Analyte not requested

(a) Recovery adjusted to reflect spike amount.

(b) Spike amount low relative to the sample amount. Refer to lab control or spike blank for recovery

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40849
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

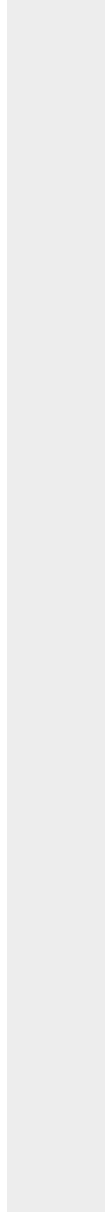
QC Batch ID: MP34128
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 01/24/22

Metal	DA40675-1F Original MSD	SpikeLot ICPAL4	% Rec	MSD RPD	QC Limit
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information.



SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA40849
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

QC Batch ID: MP34128
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/24/22

Metal	BSP Result	Spikelot ICPALL4	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic				
Barium	394	400	98.5	85-115
Beryllium				
Boron	385	400	96.3 (a)	85-115
Cadmium				
Calcium	4840	5000	96.8	85-115
Chromium				
Cobalt	anr			
Copper				
Iron	934	1000	93.4	85-115
Lead				
Magnesium	5100	5000	102.0	85-115
Manganese	anr			
Molybdenum				
Nickel				
Phosphorus				
Potassium	5040	5000	100.8	85-115
Selenium	190	200	95.0	85-115
Silver				
Sodium	4970	5000	99.4	85-115
Strontium	95.4	100	95.4	85-115
Thallium				
Tin				
Titanium				
Uranium	anr			
Vanadium	anr			
Zinc				

Associated samples MP34128: DA40849-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested
 (a) Recovery adjusted to reflect spike amount.

9.1.3
 9

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA40849
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

QC Batch ID: MP34153
Matrix Type: AQUEOUS

Methods: EPA 200.8
Units: ug/l

Prep Date: 01/29/22

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.52	13		
Antimony	0.40	.01	.3		
Arsenic	0.20	.05	.05		
Barium	2.0	.096	.25		
Beryllium	0.20	.077	.1		
Boron	40	18	20		
Cadmium	0.10	.03	.04		
Calcium	400	25	100		
Chromium	2.0	.087	.25		
Cobalt	0.20	.04	.05		
Copper	2.0	.05	.81		
Iron	20	1.6	10		
Lead	0.50	.094	.13		
Magnesium	100	10	25		
Manganese	1.0	.079	.51	0.029	<1.0
Molybdenum	1.0	.037	.27		
Nickel	2.0	.098	.35		
Phosphorus	60	7.6	25		
Potassium	200	2	50		
Selenium	0.40	.05	.1		
Silver	0.10	.0081	.025		
Sodium	500	10	130		
Strontium	20	.1	5		
Thallium	0.20	.032	.05		
Tin	10	.22	2.5		
Titanium	2.0	.05	.37		
Uranium	0.20	.015	.05		
Vanadium	1.0	.14	.2		
Zinc	10	.05	2.1		

Associated samples MP34153: DA40849-1F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

9.2.1
9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40849
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

QC Batch ID: MP34153
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/29/22

Metal	DA41283-2A Original MS	SpikeLot ICPAL4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium				
Manganese	18.1	117	100	98.9 70-130
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium	anr			
Vanadium				
Zinc	anr			

Associated samples MP34153: DA40849-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

9.2.2
 9

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA40849
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

QC Batch ID: MP34153
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/29/22

Metal	DA41283-2A Original MSD	SpikeLot ICPAL4	% Rec	MSD RPD	QC Limit	
Aluminum						
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Boron						
Cadmium	anr					
Calcium						
Chromium	anr					
Cobalt						
Copper	anr					
Iron	anr					
Lead	anr					
Magnesium						
Manganese	18.1	128	100	109.9	9.0	20
Molybdenum	anr					
Nickel	anr					
Phosphorus						
Potassium						
Selenium	anr					
Silver	anr					
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium	anr					
Vanadium						
Zinc	anr					

Associated samples MP34153: DA40849-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (N) Matrix Spike Rec. outside of QC limits
 (anr) Analyte not requested

9.2.2
 9

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA40849
 Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
 Project: GWA_Schrute_Farms_9_1HZ

QC Batch ID: MP34153
 Matrix Type: AQUEOUS

Methods: EPA 200.8
 Units: ug/l

Prep Date: 01/29/22

Metal	BSP Result	Spikelot ICPALL4	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium	anr			
Calcium				
Chromium	anr			
Cobalt				
Copper	anr			
Iron	anr			
Lead	anr			
Magnesium				
Manganese	106	100	106.0	85-115
Molybdenum	anr			
Nickel	anr			
Phosphorus				
Potassium				
Selenium	anr			
Silver	anr			
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium	anr			
Vanadium				
Zinc	anr			

Associated samples MP34153: DA40849-1F

Results < IDL are shown as zero for calculation purposes
 (*) Outside of QC limits
 (anr) Analyte not requested

9.2.3
 9

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA40849
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Alkalinity, Bicarbonate as CaC	GN55263	5.0	2.5	mg/l	xxxxxxxxx	104	103.8	90-110%
Alkalinity, Carbonate	GN55264	5.0	2.5	mg/l	xxxxxxxxx	104	103.8	90-110%
Alkalinity, Total as CaCO3	GN55261	5.0	2.5	mg/l	100	104	103.8	90-110%
Bromide	GP30539/GN55203	0.050	0.0	mg/l	0.5	0.536	107.2	90-110%
Chloride	GP30539/GN55203	0.50	0.0	mg/l	5	5.33	106.6	90-110%
Fluoride	GP30539/GN55203	0.10	0.0	mg/l	1	1.05	105.0	90-110%
Iron-Related Bacteria	MB1506	25	<25	CFU/ml				
Nitrogen, Nitrate	GP30539/GN55203	0.010	0.0	mg/l	0.1	0.102	102.0	90-110%
Nitrogen, Nitrite	GP30539/GN55203	0.0040	0.0	mg/l	0.05	0.0461	92.2	90-110%
Phosphorus, Total	GP30544/GN55208	0.010	0.0	mg/l	0.2	0.19	96.5	90-110%
Slime Forming Bacteria	MB1507	500	<500	CFU/ml				
Solids, Total Dissolved	GN55211	10	0.0	mg/l	250	272	108.8	90-110%
Specific Conductivity	GN55221			umhos/cm	9981	10500	105.1	90-110%
Sulfate	GP30539/GN55203	0.50	0.0	mg/l	5	5.27	105.4	90-110%
Sulfate Reducing Bacteria	MB1508	200	<200	CFU/ml				

Associated Samples:

Batch MB1506: DA40849-1B
Batch MB1507: DA40849-1B
Batch MB1508: DA40849-1B
Batch GN55211: DA40849-1
Batch GN55221: DA40849-1
Batch GN55261: DA40849-1
Batch GN55263: DA40849-1
Batch GN55264: DA40849-1
Batch GP30539: DA40849-1
Batch GP30544: DA40849-1
(*) Outside of QC limits

10.1
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DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA40849
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Alkalinity, Total as CaCO3	GN55261	DA40847-1	mg/l	468	475	1.6	0-20%
Iron-Related Bacteria	MB1506	DA40771-1B	CFU/ml	35000	35000	0.0	0-%
Phosphorus, Total	GP30544/GN55208	DA40776-1	mg/l	0.039	0.039	0.0	0-20%
Slime Forming Bacteria	MB1507	DA40771-1B	CFU/ml	<500	<500	0.0	0-%
Solids, Total Dissolved	GN55211	DA40781-1	mg/l	328	380	14.7	0-5.44%
Specific Conductivity	GN55221	DA40886-1	umhos/cm	1290	1310	1.4	0-20%
Sulfate Reducing Bacteria	MB1508	DA40771-1B	CFU/ml	<200	<200	0.0	0-%

Associated Samples:

Batch MB1506: DA40849-1B
Batch MB1507: DA40849-1B
Batch MB1508: DA40849-1B
Batch GN55211: DA40849-1
Batch GN55221: DA40849-1
Batch GN55261: DA40849-1
Batch GP30544: DA40849-1
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA40849
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Alkalinity, Total as CaCO3	GN55261	DA40884-1	mg/l	26.5	100	125	98.5	80-120%
Bromide	GP30539/GN55203	DA40835-2	mg/l	0.63 U	12.5	13.2	105.6	80-120%
Chloride	GP30539/GN55203	DA40835-2	mg/l	57.1	125	186	103.1	80-120%
Fluoride	GP30539/GN55203	DA40835-2	mg/l	1.3 U	25	25.5	102.0	80-120%
Nitrogen, Nitrate	GP30539/GN55203	DA40835-2	mg/l	5.0	2.5	7.5	100.0	80-120%
Nitrogen, Nitrite	GP30539/GN55203	DA40835-2	mg/l	0.075 U	1.25	1.1	88.0	80-120%
Phosphorus, Total	GP30544/GN55208	DA40811-1	mg/l	0.088	0.2	0.29	98.5	90-110%
Sulfate	GP30539/GN55203	DA40835-2	mg/l	34.5	125	159	99.6	80-120%

Associated Samples:

Batch GN55261: DA40849-1

Batch GP30539: DA40849-1

Batch GP30544: DA40849-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA40849
Account: ANADACOD - Kerr-McGee Oil & Gas Onshore LP
Project: GWA_Schrute_Farms_9_1HZ

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Alkalinity, Total as CaCO3	GN55261	DA40884-1	mg/l	26.5	100	124	1.0	20%
Bromide	GP30539/GN55203	DA40835-2	mg/l	0.63 U	12.5	13.0	1.5	20%
Chloride	GP30539/GN55203	DA40835-2	mg/l	57.1	125	186	0.0	20%
Fluoride	GP30539/GN55203	DA40835-2	mg/l	1.3 U	25	25.6	0.4	20%
Nitrogen, Nitrate	GP30539/GN55203	DA40835-2	mg/l	5.0	2.5	7.4	1.3	20%
Nitrogen, Nitrite	GP30539/GN55203	DA40835-2	mg/l	0.075 U	1.25	1.1	0.0	20%
Phosphorus, Total	GP30544/GN55208	DA40811-1	mg/l	0.088	0.2	0.29	3.1	20%
Sulfate	GP30539/GN55203	DA40835-2	mg/l	34.5	125	159	0.0	20%

Associated Samples:

Batch GN55261: DA40849-1

Batch GP30539: DA40849-1

Batch GP30544: DA40849-1

(*) Outside of QC limits

(N) Matrix Spike Rec. outside of QC limits

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