



December 4, 2015

NMOCD District II
1301 W Grand Ave
Artesia, NM 88210

SUBJECT: FINAL CLOSURE REPORT FOR INCIDENT 2RP-3274 MYOX 32 FEE NO. 002H, EDDY COUNTY, NEW MEXICO

Dear Ms. Patterson:

On behalf of W & W Energy, Souder Miller & Associates (SMA) is pleased to submit the attached Final Closure Report regarding the remediation of the release site located on the MYOX 32 FEE NO. 002H in Eddy County, New Mexico. The purpose of the Final Closure Report is to obtain approval from the New Mexico Oil Conservation Division (NMOCD) for the closure of the release that occurred on August 28, 2015.

At the request of W & W Energy and COG Operating, SMA responded September 2, 2015 to assess and delineate the production fluids release associated with the MYOX 32 FEE NO. 002H well location. The release was initially reported to NMOCD by COG Operating on September 11, 2015 and was a result of equipment failure. The table below summarizes information regarding the release. Results of the assessment, delineation, and remediation activities follow in the attached report.

Table 1: Release Information and Site Ranking					
Name	MYOX 32 FEE No. 002H				
Location	Incident Number	API Number	Section, Township, Range		
	2RP-3274	30-015-41521	SW/NE (Unit C)	Section 32	T 25S, R 28E NMPM
Estimated Date of Release	August 28, 2015				
Date Reported to NMOCD	August 31, 2015				
Reported by	Amanda Trujillo, COG Operating LLC				
Land Owner	Private				
Reported To	NM Oil Conservation Division (NMOCD)				
Source of Release	Trunk line failure				
Released Material	Produced Water				
Released Volume	50 bbls Produced Water				
Recovered Volume	0 bbls Produced Water				
Net Release	50 bbl Produced Water				
Nearest Waterway	Pecos River is over 4 miles east of the location.				
Depth to Groundwater	Estimated to be 77 feet				
Nearest Domestic Water Source	Greater than 1,000 feet				
NMOCD Ranking	10				

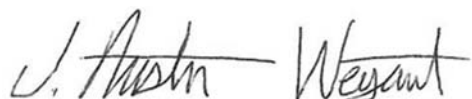


SMA Response Dates	Initial: 9/02/2015 Mitigation Activities: 9/02/2015
Estimated Yd ³ Contaminated Soil Excavated and Disposed	70
Disposal Facility	Lea Land, LLC

A copy of the C-141 Initial is located in Appendix B. For questions or comments pertaining to the release or the attached Closure Report, please feel free to contact either of us.

Submitted by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist

Reviewed by:



Cynthia Gray, CHMM
Senior Scientist



FINAL CLOSURE REPORT FOR INCIDENT 2RP-3274

COG OPERATING LLC

MYOX 32 FEE No. 002H

API# 30-015-41521

SECTION 32, T25S R28E, NMPM

EDDY COUNTY, NM



Prepared for:
W & W Energy
8820 Nw Loop 338
Odessa, Texas 79764

Prepared by:
Souder, Miller & Associates
201 S. Halagueno
Carlsbad, NM 88221
575-689-7040

December 4, 2015
SMA Reference
5B24273 BG1



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Table 2: Summary of Field Screening Results

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1.0 Introduction

On behalf of W & W Energy, SMA has prepared this report that describes the assessment and initial delineation, and mitigation of a release associated with the Myox 32 FEE No. 002H release site. The site is located in Section 32, T 25S, R 28 E NMPM, Eddy County, New Mexico, on land owned by a private land owner. Figure 1 illustrates the vicinity and location of the site.

2.0 Site Ranking and Land Jurisdiction

The release site is located approximately 4 miles (> 1,000 feet) west of the Pecos River, in an area owned by a private land owner, at an elevation of approximately 2,970 feet above sea level. After evaluation of the site using aerial photography and topographic maps as well as area water well records, depth to groundwater is estimated to be greater than 77 feet below ground surface (bgs). Figure 1 depicts the site vicinity and Figure 2 depicts the site details and sample locations.

SMA searched the New Mexico State Engineer's Office online water well database for water wells in the vicinity of the release. No well is located within a 1000 foot radius of the site. Figure 1 depicts the site vicinity and Figure 2 shows the site itself. The physical location of this release is within the jurisdiction of NMOCD.

This release location has been assigned an NMOCD ranking of 10 which requires a soil remediation standard of 10 parts per million (ppm) benzene, 50 ppm combined benzene, toluene, ethyl-benzene, and total xylenes (BTEX), and 1000 ppm total petroleum hydrocarbons (TPH). Table 1 illustrates site ranking rationale.

3.0 Assessment and Initial Results

On September 2nd, 2015, after receiving 811 clearance, SMA field personnel assessed the release area onsite with a backhoe, a Photo Ionization Detector (PID), and a mobile chlorides titration kit. The affected area was found to be 80 feet long and 20 feet wide. Delineation samples were taken down to depths of three feet below ground surface (bgs). Using field screening, samples at one foot bgs were found to exhibit only background levels of all contaminants of concern. Sample locations are noted on Figure 2 Site Details and Sample Location Map. All samples were collected and processed according to NMOCD soil sampling procedures. The samples were sent under chain-of-custody protocols to Hall Environmental Analysis Laboratory for analysis for Benzene and Total BTEX using EPA Method 8021B, TPH (DRO and GRO) by EPA Method 8015D, and total Chlorides using EPA Method 300.0.

4.0 Soil Remediation Summary

SMA and a subcontractor began the excavation of affected soils, with approval from area utilities owners via 811 and NMOCD. SMA continuously guided the excavation activities by collecting composite soil samples for field screening with a mobile titration unit (EPA 4500) and a calibrated PID. Delineation samples were taken to depths of 18 feet bgs to sufficiently delineate the plume by NMOCD Division 2 standards. For additional information on the initial soil results and site assessment, please refer to the NMOCD approved work plan (Soil Remediation Work Plan for Incident 2RP-3274.) The area of contamination was excavated to 3 feet bgs. Closure samples were collected at the final depth of excavation. Sidewalls samples were taken to ensure contaminated soils have been removed in the horizontal extent. Excavation area and sample locations are depicted in Figure 2. A caliche cap was installed starting at 3 feet bgs. A layer of

bentonite rather than a plastic liner was added at 3 feet bgs due to the existence of the poly pipe within the excavation. The bentonite layer was used to create an impermeable layer to prevent leaching and the formation of deep root systems into the cap itself. The bentonite will effectively break the communication of precipitation through the compacted cap. Above the bentonite layer, 3 feet of contaminant-free material was added to fill the excavation to ground surface. Approximately 70 cubic yards of contaminated soil were removed and replaced with clean backfill material to bring the contours to surface grade.

5.0 Conclusions and Recommendations

NMOCD Guidelines for Remediation of Leaks, Spills, and Releases have established the following action levels for contaminants of concern with a site ranking of 10: 10 ppm (mg/kg) Benzene, 50 ppm total BTEX, and 1000 ppm TPH. The release consisted of produced water with no associated petroleum liquids found during the initial assessment and delineation.

Soil contaminant concentrations found during the initial delineation are illustrated in Figure 2. A summary of the laboratory analyses is included in Table 2. Laboratory reports are included in Appendix A.

Photo documentation is available by request.

6.0 Closure and Limitations

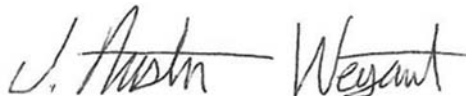
The scope of our services consisted of the performance of a preliminary spill assessment, verification of release stabilization, regulatory liaison, remedial activities and preparation of this Closure Report. All work has been performed in accordance with generally accepted professional environmental consulting practices for oil and gas releases in the Permian Basin in New Mexico.

If there are any questions regarding this report, please contact either Austin Weyant at 575-689-7040 or Cindy Gray at 505-325-7535.

Submitted by:

Reviewed by:

SOUDER, MILLER & ASSOCIATES



Austin Weyant
Project Scientist



Cynthia Gray, CHMM
Senior Scientist

Figures:

Figure 1: Vicinity Map

Figure 2: Site Details and Sample Locations Map

Figure 3: Electrical Conductivity Correlation to EPA Method 300 Graph

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Table 3: Summary of Laboratory Analyses

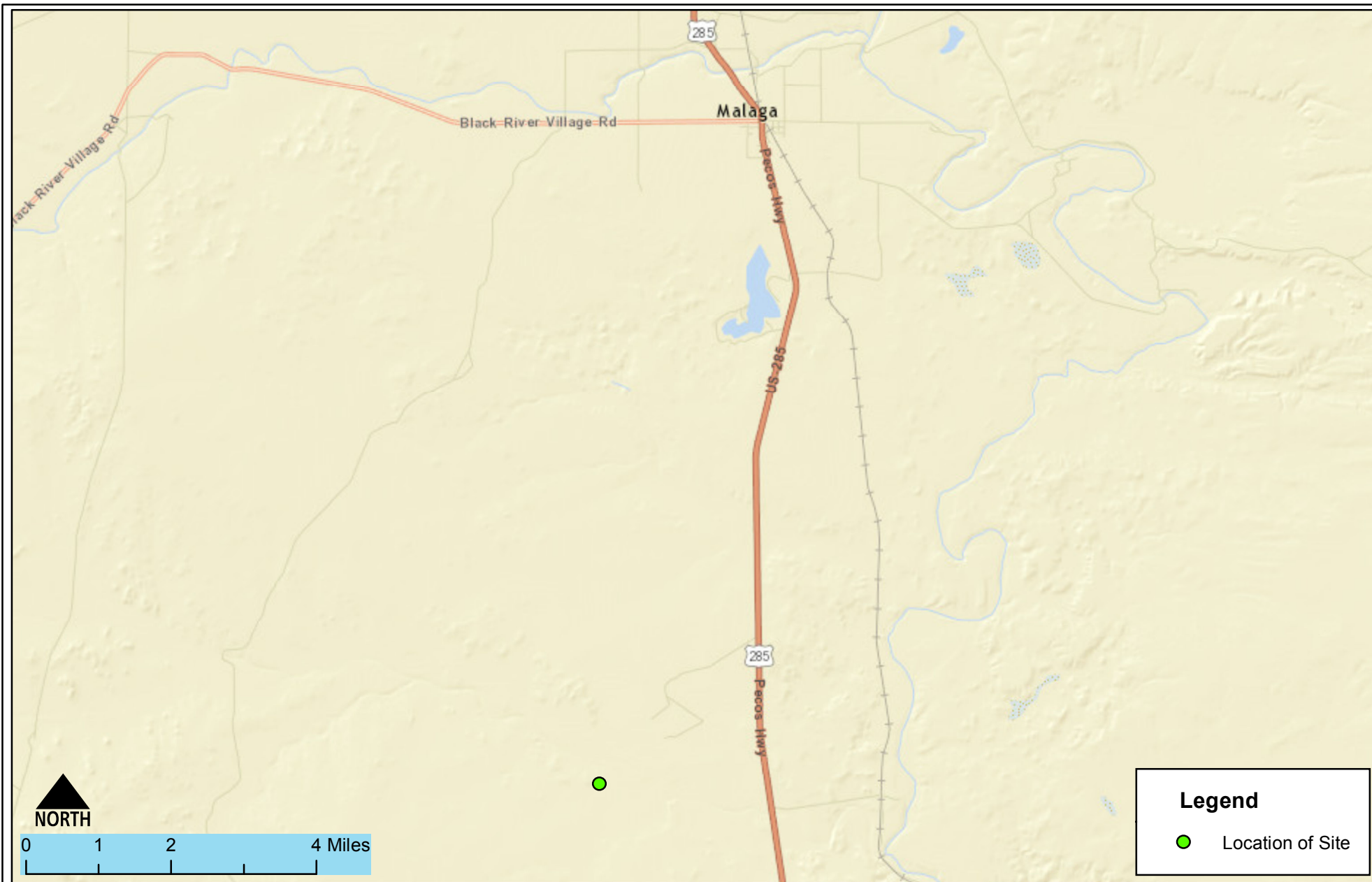
Appendices:

Appendix A: Laboratory Analytical Reports

Appendix B: Form C141 Final

FIGURE 1

VICINITY MAP



Site Vicinity
COG- MYOX 32 FEE No. 002H
Malaga, New Mexico

Figure 1

Date Saved:
10/2/2015

By: _____	Date: _____	Revisions	Descr: _____
By: _____	Date: _____		Descr: _____

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Drawn	<u>Lucas Middleton</u>
Checked	_____
Approved	_____



201 South Halaguena Street
Carlsbad, New Mexico 88221
(575) 689-7040
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Serving the Southwest & Rocky Mountains

FIGURE 2

SITE DETAILS AND SAMPLE LOCATIONS MAP



Legend

- Sample Locations
- Estimated Release Area

Detailed Site and Sample Map
 MYOX 32 FEE No. 002H
 Malaga, New Mexico

Figure 2

FIGURE 3: ELECTRICAL CONDUCTIVITY CORRELATION TO EPA METHOD 300 GRAPH

Figure 3:
Electrical Conductivity Correlation to EPA Method
300 Graph

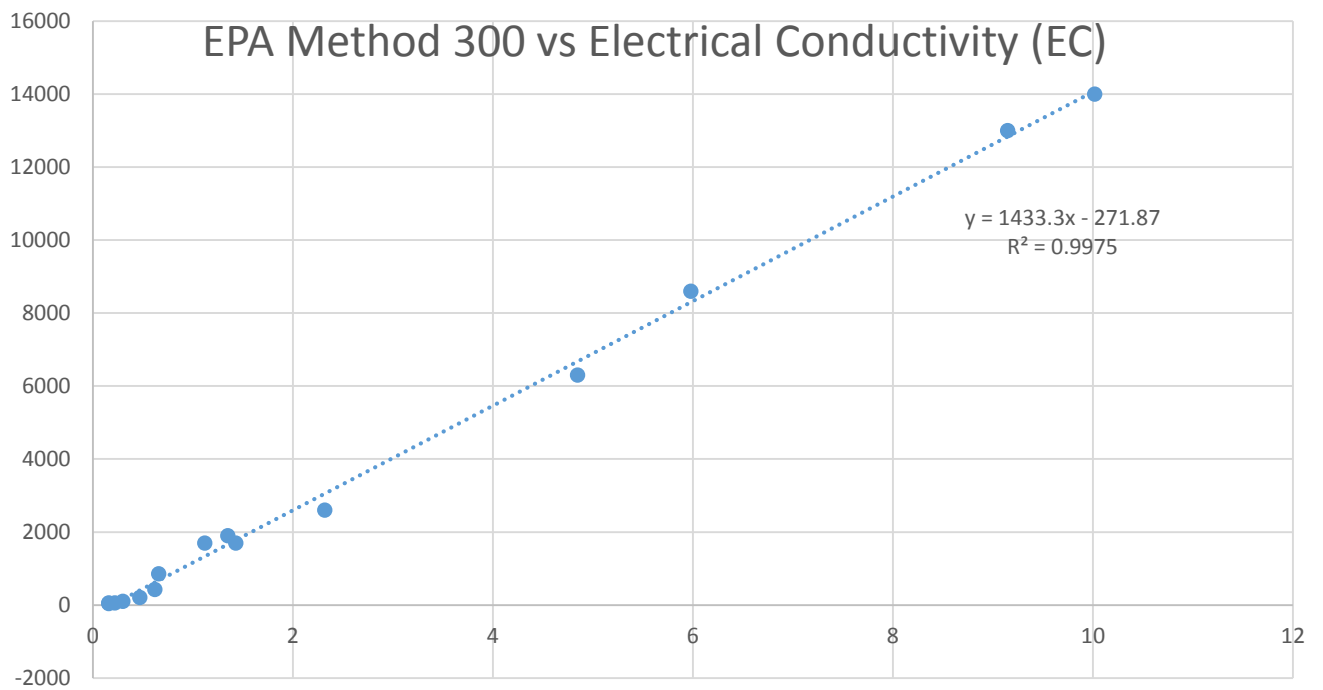


TABLE 1

RELEASE INFORMATION AND SITE RANKING

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Source of Release	Trunk line failure				
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Nearest Waterway	Pecos River is over 4 miles east of the location.				
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NMOCD Ranking	10				
SMA Response Dates	Initial: 9/02/2015 Mitigation Activities: 9/02/2015				
Estimated Yd ³ Contaminated Soil Excavated and Disposed	70				

TABLE 2

SUMMARY OF FIELD SCREENING RESULTS

Table 2: Summary of Field Screening Results

MYOX 32 FEE No. 002H

Site Remediation

9/2/15

FIELD SCREENING RESULTS SUMMARY					
Date	Time	Field Screening Reference	Sample Depth (Feet BGS)	*Field EC Results	**Chlorides Results
8/28/2015	11:00	MD1	4.5	8.7	12198
8/28/2015	11:00	MD2 (Spill Pile)	P	13	18361
8/28/2015	11:00	MD3 (Spill Pile)	P	1.28	1563
8/28/2015	11:00	MD4	S	6.6	9188
8/28/2015	11:00	MD5	4	0.38	273
8/28/2015	11:00	MD5-1	4.5	0.19	0
8/28/2015	11:00	MD6	1-3.5	0.69	717
8/28/2015	11:00	MD7	1-3.5	0.58	559
8/28/2015	11:00	MD8	3	1.06	1247
8/28/2015	11:00	MD9	1	BDL	BDL
8/28/2015	11:00	MD10	3	0.33	201
8/28/2015	11:00	MD11	3	0.33	201
8/28/2015	11:00	BG2	2	BDL	BDL
8/28/2015	11:00	MD12	2	BDL	BDL

* Derated results calculated from confirmed background samples Laboratory Report -1509779

** Calculated derated results thought Figure 3

BDL Below Detectable Levels



TABLE 3

SUMMARY OF LABORATORY ANALYSES

Table 3: Summary of Laboratory Analyses

Analytical Report- 1509778, 1510D73, 1510406	Sample Number on Figure 2 Map	Sample Date	Depth	BTEX ppm	Benzene mg/Kg	GRO mg/Kg	DRO mg/Kg	Cl- mg/Kg
1509778-001	MD12	9/7/2015	2'	N/A	N/A	N/A	N/A	45
1509778-002	MD7	9/7/2015	1-3.5'	BDL	BDL	BDL	BDL	440
1509778-003	MD10	9/7/2015	3'	BDL	BDL	BDL	BDL	BDL
1510D73-001	L1	10/27/153	12'	N/A	N/A	N/A	N/A	4400
1510D73-002	L1	10/27/2015	16'	N/A	N/A	N/A	N/A	2800
1510D73-003	L1	10/27/154	18'	N/A	N/A	N/A	N/A	1600
1510D73-004	L2	10/28/2015	5'	N/A	N/A	N/A	N/A	BDL
1510D73-005	L2	10/27/155	12'	N/A	N/A	N/A	N/A	2300
1510D73-006	L2	10/29/2015	18'	N/A	N/A	N/A	N/A	1500
1510406-001	MD1	9/29/2015	3'	N/A	N/A	N/A	N/A	3800
1510406-003	MD5	9/29/2015	3'	N/A	N/A	N/A	N/A	BDL
1510406-005	MMD2-3	9/29/2015	3'	N/A	N/A	N/A	N/A	58
1510406-008	MMD4	9/29/2015	1'	N/A	N/A	N/A	N/A	BDL

APPENDIX A

LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 24, 2015

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Myox

OrderNo.: 1509778

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/16/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509778**

Date Reported: **9/24/2015**

CLIENT: Souder, Miller & Associates

Client Sample ID: MD12

Project: Myox

Collection Date: 9/7/2015 10:00:00 AM

Lab ID: 1509778-001

Matrix: SOIL

Received Date: 9/16/2015 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	45	30		mg/Kg	20	9/22/2015 3:59:19 PM	21444

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509778**

Date Reported: **9/24/2015**

CLIENT: Souder, Miller & Associates

Client Sample ID: MD7

Project: Myox

Collection Date: 9/7/2015 10:00:00 AM

Lab ID: 1509778-002

Matrix: SOIL

Received Date: 9/16/2015 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	440	30		mg/Kg	20	9/22/2015 5:01:22 PM	21444
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Surr: BFB	112	70-130		%REC	1	9/18/2015 3:56:01 PM	21355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/18/2015 5:23:35 PM	21361
Surr: DNOP	82.7	57.9-140		%REC	1	9/18/2015 5:23:35 PM	21361
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Toluene	ND	0.047		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Xylenes, Total	ND	0.095		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%REC	1	9/18/2015 3:56:01 PM	21355
Surr: 4-Bromofluorobenzene	98.9	70-130		%REC	1	9/18/2015 3:56:01 PM	21355
Surr: Dibromofluoromethane	103	70-130		%REC	1	9/18/2015 3:56:01 PM	21355
Surr: Toluene-d8	87.4	70-130		%REC	1	9/18/2015 3:56:01 PM	21355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509778**Date Reported: **9/24/2015****CLIENT:** Souder, Miller & Associates**Client Sample ID:** MD10**Project:** Myox**Collection Date:** 9/7/2015 1:00:00 PM**Lab ID:** 1509778-003**Matrix:** SOIL**Received Date:** 9/16/2015 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	9/22/2015 5:13:46 PM	21444
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Surr: BFB	115	70-130		%REC	1	9/18/2015 5:22:11 PM	21355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/18/2015 5:45:07 PM	21361
Surr: DNOP	129	57.9-140		%REC	1	9/18/2015 5:45:07 PM	21361
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Toluene	ND	0.047		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Xylenes, Total	ND	0.094		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%REC	1	9/18/2015 5:22:11 PM	21355
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	9/18/2015 5:22:11 PM	21355
Surr: Dibromofluoromethane	102	70-130		%REC	1	9/18/2015 5:22:11 PM	21355
Surr: Toluene-d8	87.8	70-130		%REC	1	9/18/2015 5:22:11 PM	21355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

24-Sep-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	MB-21444		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	21444		RunNo:	29028				
Prep Date:	9/22/2015		Analysis Date:	9/22/2015		SeqNo:	880818		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-21444			SampType:	LCS		TestCode:	EPA Method 300.0: Anions			
Client ID:	LCSS			Batch ID:	21444		RunNo:	29028			
Prep Date:	9/22/2015			Analysis Date:	9/22/2015		SeqNo:	880819		Units:	mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	14	1.5	15.00	0	93.2	90	110				

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

24-Sep-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	MB-21361		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	21361		RunNo:	28945				
Prep Date:	9/17/2015		Analysis Date:	9/18/2015		SeqNo:	878628		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	11		10.00		111	57.9	140				

Sample ID	LCS-21361		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 21361		RunNo: 28945					
Prep Date:	9/17/2015		Analysis Date: 9/18/2015		SeqNo: 878693		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.8	57.4	139			
Surr: DNOP	5.0		5.000		99.5	57.9	140			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

24-Sep-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	1509778-001ams		SampType: MS			TestCode: EPA Method 8260B: Volatiles Short List				
Client ID:	MD12		Batch ID: 21355			RunNo: 28954				
Prep Date:	9/17/2015		Analysis Date: 9/18/2015			SeqNo: 878775		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.84	0.048	0.9542	0	87.9	70	130			
Benzene	1.1	0.048	0.9542	0	117	70	130			
Toluene	0.98	0.048	0.9542	0	103	65	138			
Ethylbenzene	1.1	0.048	0.9542	0.007147	113	70	130			
Xylenes, Total	3.4	0.095	2.863	0.01518	118	70	130			
1,2,4-Trimethylbenzene	1.0	0.048	0.9542	0.01881	104	70	130			
1,3,5-Trimethylbenzene	1.1	0.048	0.9542	0.007929	111	70	130			
Naphthalene	0.98	0.095	0.9542	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.4771		96.1	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4771		98.3	70	130			
Surr: Dibromofluoromethane	0.49		0.4771		103	70	130			
Surr: Toluene-d8	0.42		0.4771		87.9	70	130			

Sample ID	1509778-001amsd		SampType: MSD			TestCode: EPA Method 8260B: Volatiles Short List				
Client ID:	MD12		Batch ID: 21355			RunNo: 28954				
Prep Date:	9/17/2015		Analysis Date: 9/18/2015			SeqNo: 878776		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.048	0.9551	0	111	70	130	5.31	20	
Toluene	0.98	0.048	0.9551	0	102	65	138	0.570	20	
Ethylbenzene	1.1	0.048	0.9551	0.007147	112	70	130	0.999	20	
Xylenes, Total	3.3	0.096	2.865	0.01518	113	70	130	3.81	20	
Surr: 1,2-Dichloroethane-d4	0.44		0.4776		91.2	70	130	0	20	
Surr: 4-Bromofluorobenzene	0.46		0.4776		96.6	70	130	0	20	
Surr: Dibromofluoromethane	0.47		0.4776		99.4	70	130	0	20	
Surr: Toluene-d8	0.43		0.4776		90.2	70	130	0	20	

Sample ID	lcs-21355		SampType: LCS			TestCode: EPA Method 8260B: Volatiles Short List				
Client ID:	LCSS		Batch ID: 21355			RunNo: 28954				
Prep Date:	9/17/2015		Analysis Date: 9/18/2015			SeqNo: 878783		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	70	130			
Toluene	0.91	0.050	1.000	0	90.6	70	130			
Ethylbenzene	1.0	0.050	1.000	0	102	70	130			
Xylenes, Total	3.1	0.10	3.000	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.2	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.44		0.5000		87.8	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

24-Sep-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	mb-21355		SampType:	MBLK		TestCode:	EPA Method 8260B: Volatiles Short List			
Client ID:	PBS		Batch ID:	21355		RunNo:	28954			
Prep Date:	9/17/2015		Analysis Date:	9/18/2015		SeqNo:	878784		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.2	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.43		0.5000		86.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

24-Sep-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	1509778-002ams	SampType:	MS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	MD7	Batch ID:	21355	RunNo:	28954					
Prep Date:	9/17/2015	Analysis Date:	9/18/2015	SeqNo:	878800	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.65	0	97.9	54.9	131			
Surr: BFB	540		473.0		115	70	130			

Sample ID	1509778-002amsd	SampType:	MSD	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	MD7	Batch ID:	21355	RunNo:	28954					
Prep Date:	9/17/2015	Analysis Date:	9/18/2015	SeqNo:	878801	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.67	0	93.8	54.9	131	4.16	20	
Surr: BFB	530		473.5		112	70	130	0	0	

Sample ID	lcs-21355	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	21355	RunNo:	28954					
Prep Date:	9/17/2015	Analysis Date:	9/18/2015	SeqNo:	878807	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.7	70	123			
Surr: BFB	550		500.0		109	70	130			

Sample ID	mb-21355	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	21355	RunNo:	28954					
Prep Date:	9/17/2015	Analysis Date:	9/18/2015	SeqNo:	878808	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		114	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1509778

RcptNo: 1

Received by/date:

anrg

09/16/15

Logged By: Ashley Gallegos

9/16/2015 9:25:00 AM

Ag

Completed By: Ashley Gallegos

9/16/2015 5:11:56 PM

Ag

Reviewed By:

AS

09/16/15

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐ # of preserved bottles checked for pH: ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐ Adjusted? ☐ (<2 or >12 unless noted)
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐ Checked by: ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present			

Chain-of-Custody Record

Client: Souder Miller And Associates

Mailing Address: 201 S. Halagueno

Carlsbad, NM 88220

Phone #: 575-689-5351

email or Fax#: lucas.middleton@soudermiller.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Myox

Project #:

Project Manager:

Austin Weyant

Sampler:

LCM

On Ice: ☒ Yes ☐ No

Sample Temperature:

3.6

Date Time Matrix Sample Request ID

9-7-15 10:00 MD 12

9-7-15 10:00 MD 7

9-7-15 10:00 MD 10

Container Type and #

A02

H02

A07

Preservative Type

HEAL No.

1509778

-001

-002

-003

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

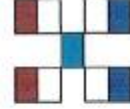
Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

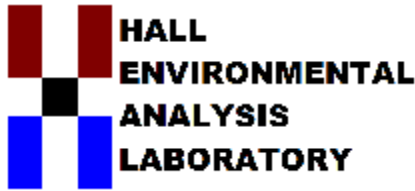
Received by: *Miller* Date: 09/15/05

Received by: *Miller* Date: 09/15/05

Relinquished by:

Relinquished by:

Send MKO separately



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 02, 2015

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: Myox

OrderNo.: 1509778

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 3 sample(s) on 9/16/2015 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 24, 2015.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509778**

Date Reported: **10/2/2015**

CLIENT: Souder, Miller & Associates

Client Sample ID: MD12

Project: Myox

Collection Date: 9/7/2015 10:00:00 AM

Lab ID: 1509778-001

Matrix: SOIL

Received Date: 9/16/2015 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	45	30		mg/Kg	20	9/22/2015 3:59:19 PM	21444
RESISTIVITY AND EC SOIL							Analyst: JRR
Conductivity	959	1.00		µmhos/cm	1	9/30/2015 9:44:00 AM	21576

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 1 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509778**

Date Reported: **10/2/2015**

CLIENT: Souder, Miller & Associates

Client Sample ID: MD7

Project: Myox

Collection Date: 9/7/2015 10:00:00 AM

Lab ID: 1509778-002

Matrix: SOIL

Received Date: 9/16/2015 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	440	30		mg/Kg	20	9/22/2015 5:01:22 PM	21444
RESISTIVITY AND EC SOIL							Analyst: JRR
Conductivity	2080	1.00		µmhos/cm	1	9/30/2015 9:44:00 AM	21576
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Surr: BFB	112	70-130		%REC	1	9/18/2015 3:56:01 PM	21355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	9/18/2015 5:23:35 PM	21361
Surr: DNOP	82.7	57.9-140		%REC	1	9/18/2015 5:23:35 PM	21361
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Toluene	ND	0.047		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Xylenes, Total	ND	0.095		mg/Kg	1	9/18/2015 3:56:01 PM	21355
Surr: 1,2-Dichloroethane-d4	91.6	70-130		%REC	1	9/18/2015 3:56:01 PM	21355
Surr: 4-Bromofluorobenzene	98.9	70-130		%REC	1	9/18/2015 3:56:01 PM	21355
Surr: Dibromofluoromethane	103	70-130		%REC	1	9/18/2015 3:56:01 PM	21355
Surr: Toluene-d8	87.4	70-130		%REC	1	9/18/2015 3:56:01 PM	21355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order **1509778**

Date Reported: **10/2/2015**

CLIENT: Souder, Miller & Associates

Client Sample ID: MD10

Project: Myox

Collection Date: 9/7/2015 1:00:00 PM

Lab ID: 1509778-003

Matrix: SOIL

Received Date: 9/16/2015 9:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	ND	30		mg/Kg	20	9/22/2015 5:13:46 PM	21444
RESISTIVITY AND EC SOIL							Analyst: JRR
Conductivity	1000	1.00		µmhos/cm	1	9/30/2015 9:44:00 AM	21576
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Surr: BFB	115	70-130		%REC	1	9/18/2015 5:22:11 PM	21355
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: KJH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/18/2015 5:45:07 PM	21361
Surr: DNOP	129	57.9-140		%REC	1	9/18/2015 5:45:07 PM	21361
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: RAA
Benzene	ND	0.047		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Toluene	ND	0.047		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Ethylbenzene	ND	0.047		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Xylenes, Total	ND	0.094		mg/Kg	1	9/18/2015 5:22:11 PM	21355
Surr: 1,2-Dichloroethane-d4	91.3	70-130		%REC	1	9/18/2015 5:22:11 PM	21355
Surr: 4-Bromofluorobenzene	102	70-130		%REC	1	9/18/2015 5:22:11 PM	21355
Surr: Dibromofluoromethane	102	70-130		%REC	1	9/18/2015 5:22:11 PM	21355
Surr: Toluene-d8	87.8	70-130		%REC	1	9/18/2015 5:22:11 PM	21355

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank	Page 3 of 8
	D	Sample Diluted Due to Matrix	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	% Recovery outside of range due to dilution or matrix			

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

02-Oct-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	MB-21444		SampType:	MBLK		TestCode:	EPA Method 300.0: Anions				
Client ID:	PBS		Batch ID:	21444		RunNo:	29028				
Prep Date:	9/22/2015		Analysis Date:	9/22/2015		SeqNo:	880818		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Chloride	ND	1.5									

Sample ID	LCS-21444		SampType: LCS		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 21444		RunNo: 29028					
Prep Date:	9/22/2015		Analysis Date: 9/22/2015		SeqNo: 880819		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

02-Oct-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	MB-21361		SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	PBS		Batch ID: 21361		RunNo: 28945					
Prep Date:	9/17/2015		Analysis Date: 9/18/2015		SeqNo: 878628		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	11		10.00		111	57.9	140			

Sample ID	LCS-21361		SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID:	LCSS		Batch ID: 21361		RunNo: 28945					
Prep Date:	9/17/2015		Analysis Date: 9/18/2015		SeqNo: 878693		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.8	57.4	139			
Surr: DNOP	5.0		5.000		99.5	57.9	140			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

02-Oct-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	1509778-001ams		SampType: MS			TestCode: EPA Method 8260B: Volatiles Short List				
Client ID:	MD12		Batch ID: 21355			RunNo: 28954				
Prep Date:	9/17/2015		Analysis Date: 9/18/2015			SeqNo: 878775		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.84	0.048	0.9542	0	87.9	70	130			
Benzene	1.1	0.048	0.9542	0	117	70	130			
Toluene	0.98	0.048	0.9542	0	103	65	138			
Ethylbenzene	1.1	0.048	0.9542	0.007147	113	70	130			
Xylenes, Total	3.4	0.095	2.863	0.01518	118	70	130			
1,2,4-Trimethylbenzene	1.0	0.048	0.9542	0.01881	104	70	130			
1,3,5-Trimethylbenzene	1.1	0.048	0.9542	0.007929	111	70	130			
Naphthalene	0.98	0.095	0.9542	0	102	70	130			
Surr: 1,2-Dichloroethane-d4	0.46		0.4771		96.1	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.4771		98.3	70	130			
Surr: Dibromofluoromethane	0.49		0.4771		103	70	130			
Surr: Toluene-d8	0.42		0.4771		87.9	70	130			

Sample ID	1509778-001amsd		SampType: MSD			TestCode: EPA Method 8260B: Volatiles Short List				
Client ID:	MD12		Batch ID: 21355			RunNo: 28954				
Prep Date:	9/17/2015		Analysis Date: 9/18/2015			SeqNo: 878776		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.048	0.9551	0	111	70	130	5.31	20	
Toluene	0.98	0.048	0.9551	0	102	65	138	0.570	20	
Ethylbenzene	1.1	0.048	0.9551	0.007147	112	70	130	0.999	20	
Xylenes, Total	3.3	0.096	2.865	0.01518	113	70	130	3.81	20	
Surr: 1,2-Dichloroethane-d4	0.44		0.4776		91.2	70	130	0	20	
Surr: 4-Bromofluorobenzene	0.46		0.4776		96.6	70	130	0	20	
Surr: Dibromofluoromethane	0.47		0.4776		99.4	70	130	0	20	
Surr: Toluene-d8	0.43		0.4776		90.2	70	130	0	20	

Sample ID	lcs-21355		SampType: LCS			TestCode: EPA Method 8260B: Volatiles Short List				
Client ID:	LCSS		Batch ID: 21355			RunNo: 28954				
Prep Date:	9/17/2015		Analysis Date: 9/18/2015			SeqNo: 878783		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	1.000	0	106	70	130			
Toluene	0.91	0.050	1.000	0	90.6	70	130			
Ethylbenzene	1.0	0.050	1.000	0	102	70	130			
Xylenes, Total	3.1	0.10	3.000	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.5000		89.3	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		97.2	70	130			
Surr: Dibromofluoromethane	0.51		0.5000		103	70	130			
Surr: Toluene-d8	0.44		0.5000		87.8	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

02-Oct-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	mb-21355		SampType:	MBLK		TestCode:	EPA Method 8260B: Volatiles Short List			
Client ID:	PBS		Batch ID:	21355		RunNo:	28954			
Prep Date:	9/17/2015		Analysis Date:	9/18/2015		SeqNo:	878784		Units: mg/Kg	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		95.2	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		101	70	130			
Surr: Dibromofluoromethane	0.52		0.5000		104	70	130			
Surr: Toluene-d8	0.43		0.5000		86.4	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1509778

02-Oct-15

Client: Souder, Miller & Associates

Project: Myox

Sample ID	1509778-002ams	SampType:	MS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	MD7	Batch ID:	21355	RunNo:	28954					
Prep Date:	9/17/2015	Analysis Date:	9/18/2015	SeqNo:	878800	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.65	0	97.9	54.9	131			
Surr: BFB	540		473.0		115	70	130			

Sample ID	1509778-002amsd	SampType:	MSD	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	MD7	Batch ID:	21355	RunNo:	28954					
Prep Date:	9/17/2015	Analysis Date:	9/18/2015	SeqNo:	878801	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.7	23.67	0	93.8	54.9	131	4.16	20	
Surr: BFB	530		473.5		112	70	130	0	0	

Sample ID	lcs-21355	SampType:	LCS	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	LCSS	Batch ID:	21355	RunNo:	28954					
Prep Date:	9/17/2015	Analysis Date:	9/18/2015	SeqNo:	878807	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.7	70	123			
Surr: BFB	550		500.0		109	70	130			

Sample ID	mb-21355	SampType:	MBLK	TestCode:	EPA Method 8015D Mod: Gasoline Range					
Client ID:	PBS	Batch ID:	21355	RunNo:	28954					
Prep Date:	9/17/2015	Analysis Date:	9/18/2015	SeqNo:	878808	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	570		500.0		114	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1509778

RcptNo: 1

Received by/date:

anrg

09/16/15

Logged By: Ashley Gallegos

9/16/2015 9:25:00 AM

Ag

Completed By: Ashley Gallegos

9/16/2015 5:11:56 PM

Ag

Reviewed By:

AS

09/16/15

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: ☐
(<2 or >12 unless noted)
Adjusted? ☐
- Checked by: ☐

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	3.6	Good	Not Present			

Chain-of-Custody Record

Client: Souder Miller And Associates

Mailing Address: 201 S. Halagueno

Carlsbad, NM 88220

Phone #: 575-689-5351

email or Fax#: lucas.middleton@soudermiller.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

Myox

Project #:

Project Manager:

Austin Weyant

Sampler:

LCM

On Ice: ☒ Yes ☐ No

Sample Temperature: 3.6

Date Time Matrix Sample Request ID

9-7-15 10:00 MD12

9-7-15 10:00 MD7

9-7-15 10:00 MD10

Container Type and #

A02

H02

A07

Preservative Type

HEAL No. 1509778

-001

-002

-003

Analysis Request

BTEX + MTBE + TMB's (8021)

BTEX + MTBE + TPH (Gas only)

TPH Method 8015B (Gas/Diesel)

TPH (Method 418.1)

EDB (Method 504.1)

8310 (PNA or PAH)

RCRA 8 Metals

Anions (F, Cl, NO₃, NO₂, PO₄, SO₄)

8081 Pesticides / 8082 PCB's

8260B (VOA)

8270 (Semi-VOA)

Air Bubbles (Y or N)

Received by: *Miller* Date: 09/15/05 Time: 09:25

Relinquished by:

Date: Time:

Relinquished by:

Date: Time:

Send MKO separately



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 21, 2015

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: My Ox 32

OrderNo.: 1510406

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/8/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical ReportLab Order: **1510406**Date Reported: **10/21/2015****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller & Associates
Project: My Ox 32**Lab Order:** 1510406**Lab ID:** 1510406-001**Collection Date:** 9/29/2015 11:00:00 AM**Client Sample ID:** MD1**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	3800	150		mg/Kg	100	10/16/2015 5:44:51 PM	21833

Lab ID: 1510406-002**Collection Date:** 9/29/2015 11:00:00 AM**Client Sample ID:** MMD1-9**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	13000	750		mg/Kg	500	10/16/2015 5:57:15 PM	21833

Lab ID: 1510406-003**Collection Date:** 9/29/2015 11:00:00 AM**Client Sample ID:** MDS**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: SRM							
Chloride	ND	30		mg/Kg	20	10/13/2015 7:47:30 PM	21833

Lab ID: 1510406-004**Collection Date:** 9/29/2015 11:00:00 AM**Client Sample ID:** MMD3**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	16000	750		mg/Kg	500	10/16/2015 6:09:39 PM	21833

Lab ID: 1510406-005**Collection Date:** 9/29/2015 11:00:00 AM**Client Sample ID:** MMD2-3**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: SRM							
Chloride	58	30		mg/Kg	20	10/13/2015 8:12:20 PM	21833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical ReportLab Order: **1510406**Date Reported: **10/21/2015****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller & Associates
Project: My Ox 32**Lab Order:** 1510406**Lab ID:** 1510406-006**Collection Date:** 9/29/2015 11:00:00 AM**Client Sample ID:** MMD1-5**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	8300	300		mg/Kg	200	10/16/2015 6:22:04 PM	21833

Lab ID: 1510406-007**Collection Date:** 9/29/2015 11:00:00 AM**Client Sample ID:** MMD1-4**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	2500	150		mg/Kg	100	10/16/2015 6:34:29 PM	21833

Lab ID: 1510406-008**Collection Date:** 9/29/2015 11:00:00 AM**Client Sample ID:** MMD4**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: SRM
Chloride	ND	30		mg/Kg	20	10/13/2015 9:14:20 PM	21833

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510406

21-Oct-15

Client: Souder, Miller & Associates

Project: My Ox 32

Sample ID	MB-21833		SampType: mblk		TestCode: EPA Method 300.0: Anions					
Client ID:	PBS		Batch ID: 21833		RunNo: 29541					
Prep Date:	10/13/2015		Analysis Date: 10/13/2015		SeqNo: 898693		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-21833		SampType: lcs		TestCode: EPA Method 300.0: Anions					
Client ID:	LCSS		Batch ID: 21833		RunNo: 29541					
Prep Date:	10/13/2015		Analysis Date: 10/13/2015		SeqNo: 898694		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.1	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1510406

RcptNo: 1

Received by/date:

OS 10/08/15

Logged By: Lindsay Mangin

10/8/2015 9:07:00 AM

[Signature]

Completed By: Lindsay Mangin

10/8/2015 12:24:16 PM

[Signature]

Reviewed By:

JA 10/09/15

Chain of Custody

1. Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

2. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

3. How was the sample delivered?

Courier

Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of >0° C to 6.0°C

Yes ☒

No ☐

NA ☐

6. Sample(s) in proper container(s)?

Yes ☒

No ☐

7. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

8. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

9. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

10. VOA vials have zero headspace?

Yes ☐

No ☐

No VOA Vials ☒

11. Were any sample containers received broken?

Yes ☐

No ☒

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by:

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified:

Date

By Whom:

Via:

☐ eMail

☐ Phone

☐ Fax

☐ In Person

Regarding:

Client Instructions:

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

November 05, 2015

Austin Weyant
Souder, Miller & Associates
201 S Halagueno
Carlsbad, NM 88221
TEL: (575) 689-7040
FAX

RE: My Ox

OrderNo.: 1510D73

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 6 sample(s) on 10/29/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report

Lab Order: 1510D73

Date Reported: 11/5/2015

CLIENT: Souder, Miller & Associates
Project: My Ox

Lab Order: 1510D73

Lab ID: 1510D73-001 **Collection Date:** 10/27/2015 9:00:00 AM
Client Sample ID: L1-12 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	4400	150		mg/Kg	100	11/5/2015 12:29:46 AM	22155

Lab ID: 1510D73-002 **Collection Date:** 10/27/2015 9:00:00 AM
Client Sample ID: L1-16 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	2800	150		mg/Kg	100	11/4/2015 11:40:08 PM	22155

Lab ID: 1510D73-003 **Collection Date:** 10/27/2015 9:00:00 AM
Client Sample ID: L1-18 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	1600	75		mg/Kg	50	11/4/2015 11:52:32 PM	22155

Lab ID: 1510D73-004 **Collection Date:** 10/27/2015 9:00:00 AM
Client Sample ID: L2-5 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	ND	30		mg/Kg	20	11/3/2015 5:28:46 PM	22155

Lab ID: 1510D73-005 **Collection Date:** 10/27/2015 9:00:00 AM
Client Sample ID: L2-12 **Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS Analyst: LGT							
Chloride	2300	75		mg/Kg	50	11/5/2015 12:04:57 AM	22155

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical ReportLab Order: **1510D73**Date Reported: **11/5/2015****Hall Environmental Analysis Laboratory, Inc.****CLIENT:** Souder, Miller & Associates
Project: My Ox**Lab Order:** 1510D73**Lab ID:** 1510D73-006**Collection Date:** 10/27/2015 9:00:00 AM**Client Sample ID:** L2-18**Matrix:** SOIL

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.0: ANIONS							Analyst: LGT
Chloride	1500	75		mg/Kg	50	11/5/2015 12:17:22 AM	22155

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1510D73

05-Nov-15

Client: Souder, Miller & Associates

Project: My Ox

Sample ID	MB-22155	SampType:	MBLK	TestCode:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	22155	RunNo:	29992					
Prep Date:	11/3/2015	Analysis Date:	11/3/2015	SeqNo:	913743	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-22155	SampType:	LCS	TestCode:	EPA Method 300.0: Anions					
Client ID:	LCSS	Batch ID:	22155	RunNo:	29992					
Prep Date:	11/3/2015	Analysis Date:	11/3/2015	SeqNo:	913744	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	92.9	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD

Work Order Number: 1510D73

RcptNo: 1

Received by/date:

Logged By: Lindsay Mangin

10/29/2015 9:21:00 AM

Completed By: Lindsay Mangin

10/29/2015 9:31:50 AM

Reviewed By:

Chain of Custody

1. Custody seals intact on sample bottles?

Yes ☐

No ☐

Not Present ☒

2. Is Chain of Custody complete?

Yes ☒

No ☐

Not Present ☐

3. How was the sample delivered?

Courier

Log In

4. Was an attempt made to cool the samples?

Yes ☒

No ☐

NA ☐

5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C

Yes ☒

No ☐

NA ☐

6. Sample(s) in proper container(s)?

Yes ☒

No ☐

7. Sufficient sample volume for indicated test(s)?

Yes ☒

No ☐

8. Are samples (except VOA and ONG) properly preserved?

Yes ☒

No ☐

9. Was preservative added to bottles?

Yes ☐

No ☒

NA ☐

10. VOA vials have zero headspace?

Yes ☐

No ☐

No VOA Vials ☒

11. Were any sample containers received broken?

Yes ☐

No ☒

12. Does paperwork match bottle labels?

Yes ☒

No ☐

(Note discrepancies on chain of custody)

13. Are matrices correctly identified on Chain of Custody?

Yes ☒

No ☐

14. Is it clear what analyses were requested?

Yes ☒

No ☐

15. Were all holding times able to be met?

Yes ☒

No ☐

(If no, notify customer for authorization.)

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order?

Yes ☐

No ☐

NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Yes			

APPENDIX B

FORM C141 FINAL

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: COG Operating LLC	Contact: Robert McNeill	
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077	
Facility Name: Myox 32 Fee #2H	Facility Type: Well	
Surface Owner: Fee	Mineral Owner:	API No. 30-015-41521

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
C	32	25S	28E	190'	North	1980'	West	Eddy

Latitude 32.0927238 Longitude -104.1114349

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 50 bbls	Volume Recovered: 0 bbls
Source of Release: Flowline	Date and Hour of Occurrence: 8/28/2015 12:00 pm	Date and Hour of Discovery: 8/28/2015 12:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher – NMOCD	
By Whom? Amanda Trujillo	Date and Hour: Mon 8/31/2015 5:40 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*


Describe Cause of Problem and Remedial Action Taken.*

The release was caused when a seam on a trunk line failed. This release was caused by a third party contractor who will be taking responsibility for the release.

Describe Area Affected and Cleanup Action Taken.*

This release occurred in the pasture. This release was addressed and work completed per the approved work plan from NMOCD District 2.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	<u>OIL CONSERVATION DIVISION</u>		
Printed Name: Amanda Trujillo	Approved by Environmental Specialist:		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: atrujillo@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: December 4, 2015 Phone: 575-748-6940			

* Attach Additional Sheets If Necessary