FINAL REPORT SUMMARIZING CLOSURE FOR INCIDENTS 2RP-2459 & 2RP-2555

MEWBOURNE OIL COMPANY BLACK LAKE# 5 PA STATE COM #1H API# 30-015-41124 SECTION 5, T25S R28E, NM EDDY COUNTY, NM



Prepared by: Souder, Miller & Associates 201 S. Halagueno Carlsbad, NM 88221 575-689-7040 Prepared for: Mewbourne Oil Company Zach Thomas P.O. Box 5270 Hobbs, NM 88241



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INTRODUCTION

On behalf of Mewbourne Oil Company, SMA has prepared this closure report to provide a summary of the release and spill response activities at the Black Lake 5 PA State Com #001H on August 24, 2014 and October 13, 2014. These two spills occurred in within the same area for the same reason. A water transfer pump failed causing water tanks to overflow into the secondary containment. The secondary containment filled up and ran over resulting in an estimated 650 bbls (08/24/14) and 430 bbls (10/13/14) of produced water that was released onto the ground. The produced water spilled east of tank battery flowing out into the pasture. To stop the release, the well was shut in by the pumper upon arrival. Vacuum trucks recovered 580 bbls (08/24/14) and 420 bbls (10/13/14) of standing fluid. The site is located in Unit A, Section 5, Township 25 South, Range 28 East, Eddy County, New Mexico. Figure 1, Site Location Map, illustrates the location of the release.

Further, this document presents the results of the initial assessment and soil sampling performed at the Site, the regulatory framework for existing activities, and a summary of work done at the location designed to facilitate release incident closure. Site details, sampling locations and the remedial excavation area are presented in Figure 2. Appendices include the laboratory analytical reports for the initial sampling, New Mexico Oil Conservation Division (NMOCD) forms C141 Initial 8/24, 10/13 and C141 Final, and the manifest for the transport and disposal of RCRA exempt soils from the initial response to the NMOCD approved facility.

REGULATORY FRAMEWORK AND SITE CLASSIFICATION

This project is conducted under the regulatory jurisdiction of the NMOCD, which requires the vadose zone shall be abated so that water contaminants in the vadose zone will not, with reasonable probability, contaminate groundwater or surface water (toxic pollutants as defined in 20.6.2.7 New Mexico Administration Code shall not be present) through leaching, percolation, or other transport mechanisms (19.15.1.19 NMAC, Subsection B, Paragraphs 1 and 2). The NMOCD hydrocarbon soil remediation levels are determined by ranking criteria on a site-by-site basis, as outlined in the NMOCD Guidelines for Remediation of Spills, Leaks, and Releases, dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection, and distance to surface water.

According to the Office of the State Engineer's records, no water wells are located within 1,000 feet of the well pad and battery. The estimated depth to groundwater is less than 50 feet below ground surface. No surface water bodies are located within 1,000 feet of the well pad and battery. The table below illustrates the ranking criteria used by the NMOCD and includes site specific characteristics at the Black Lake 5 PA.

Criteria Site Characteristics Ranking Score
Depth to Ground Water <50 feet 20
Wellhead Protection Area >1000 feet 0
Distance to Surface Water >1,000 feet 0
Total Ranking Score 20

Based on the sites characteristics and the "Guidelines for Remediation of Spills, Leaks, and Releases" the site has a ranking score of 20. Consequently, based on the ranking criteria score, Recommended Remediation Action Levels (RRALs) of 10 milligrams per kilogram (mg/Kg) Benzene, 50 mg/Kg total Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), and 100 mg/Kg Total Petroleum Hydrocarbons (TPH) are proposed for remediation at the site.

INITIAL SOIL SAMPLING RESULTS

Table 1

Analytical Report- H403421	Sample Date	Depth	BTEX mg/Kg	GRO mg/Kg	DRO mg/Kg	CI- mg/Kg
H403421-01	10/31/2014	1'	N/A	N/A	N/A	9730
H403421-02	10/31/2014	2.5'	N/A	N/A	N/A	5520
H403421-03	10/31/2014	2.5'	ND	ND	ND	2000
H403421-04	10/31/2014	1'	N/A	N/A	N/A	2400
H403421-05	10/31/2014	2.5'	N/A	N/A	N/A	864
H403421-06	10/31/2014	1'	N/A	N/A	N/A	1390
H403421-07	10/31/2014	2.5'	N/A	N/A	N/A	640
H403421-08	10/31/2014	2.5'	ND	ND	ND	800
H403421-09	10/31/2014	1'	N/A	N/A	N/A	<16
H403421-10	10/31/2014	2.5'	N/A	N/A	N/A	32
H403421-11	10/31/2014	1'	N/A	N/A	N/A	800
H403421-12	10/31/2014	2.5'	N/A	N/A	N/A	352
H403421-13	10/31/2014	1'	N/A	N/A	N/A	4320
H403421-14	10/31/2014	2.5'	N/A	N/A	N/A	1550

Table 2

Analytical Report- H403690	Sample Date	Depth	BTEX mg/Kg	GRO mg/Kg	DRO mg/Kg	CI mg/Kg
H403690-01	11/26/2014	Surface	N/A	N/A	N/A	672
H403690-02	11/26/2014	Surface	N/A	N/A	N/A	544
H403690-03	11/26/2014	Surface	N/A	N/A	N/A	1090
H403690-04	11/26/2014	2'	N/A	N/A	N/A	1730
H403690-05	11/26/2014	2'	N/A	N/A	N/A	6400
H403690-06	11/26/2014	2'	N/A	N/A	N/A	2920
H403690-07	11/26/2014	2'	N/A	N/A	N/A	912
H403690-08	11/26/2014	2'	N/A	N/A	N/A	80
H403690-09	11/26/2014	2'	N/A	N/A	N/A	1090
H403690-10	11/26/2014	2'	N/A	N/A	N/A	96



Table 3

Analytical Report- H403883	Sample Date	Depth	BTEX mg/Kg	GRO mg/Kg	DRO mg/Kg	CI mg/Kg
H403883-01	12/12/2014	3'	N/A	N/A	N/A	672

All laboratory analytical results are below the site specific RRALs of 10 milligrams per kilogram (mg/Kg) Benzene, 50 mg/Kg total Benzene, Toluene, Ethylbenzene, and total Xylenes(BTEX), and 100 mg/Kg Total Petroleum Hydrocarbons (TPH)

PROJECT SUMMARY

The remedial actions summarized were in response to two separate occurrences, the first release on 8/24/2014 and the second on 10/13/2014. Both Incidents 2RP-2459 (8/24/14) and 2RP-2555 (10/13/14) where caused by the same equipment failure and followed the same path down gradient affecting the same area. Unfortunately, the time period between the two releases was marked by unprecedented rain fall, making the location and the surrounding area inaccessible. The Operator, Mewbourne Oil Company (MOC) was unable to repair and/or replace the failed transfer pump during this period without undue risk to MOC employees.

Release 2RP-2459 occurred in the early morning of 8/24/14, with an estimated 650 bbls of released produced water the majority of which 580 bbls was recovered from the secondary containment and the surrounding area via vacuum truck. The affected areas on the location were excavated and placed on a plastic liner. Excavation could not begin in the affected pasture due to the previously mentioned rain events.

Release 2RP-2555 occurred the morning of 10/13/14, with an estimated 430 bbls of released produced water the majority of which 420 bbls was recovered in the secondary containment via vacuum truck. The combined affected area was an estimated 1800 ft³ on the locations pad and 1600 ft³ of State owned pasture.

Initial soil sampling was conducted for the spill on 8/24/14 (Analytical Report- 1409358) included in Appendix A. A second spill occurred on 10/13/14 and sample were taken shown in Table 1. The well pad excavation included removing affected soil from one to three feet between the tank farm and pump jack. For the pasture, delineation was determined in depth of two and a half feet confirmed with samples. See Table 1 for sample results. The pasture excavation removed the affected soils down two and a half feet. After the affected material was removed on the well pad new caliche was back filled to previous grade. In the affected area in the pasture no material was backfilled do to a small arroyo where exaction occurred. This area was contoured as close to the previous condition as possible. Further excavation to three feet in depth was done at sample location 5 seen in Figure 2. Heavy equipment was utilized to remove and transport all affected soil and wastes of location to NMOCD approved disposal facilities. The contaminated soil was removed and hauled off. See Appendix C for waste manifest tickets. Then the excavated area was raked smooth.

CONFIRMATION SAMPLING

Soil samples for confirmation were taken around the tank farm and in the pasture shown in Figure 2. A second confirmation sample was done at location sample 5 (Figure 2). The soil samples were delivered on 12/03/14 and 12/18/14 to Cardinal Laboratories, in Hobbs, New Mexico for EPA 300.0 method for chlorides. Each sample container will be labeled, placed on ice in an insulated cooler, and chilled to a temperature of approximately 40°F



(4°C). The cooler will be sealed for shipment to the laboratory. Proper chain-of-custody documentation will accompany the samples to the laboratory.

SITE CLOSURE

With a third party laboratory analytical results (H403690, H403883) confirm that the established site-specific cleanup levels of 10 mg/Kg Benzene, 50 mg/Kg total BTEX and 100 mg/Kg TPH have been reached. Final grading of construction-affected surface areas was performed to mitigate erosion. Closure of 2RP-2459 & 2RP-2555 is requested at this time. The closure request was submitted to the NMOCD as a C-141 final on 01/20/15, attached in Appendix B.



FIGURE 1 SITE LOCATION MAP

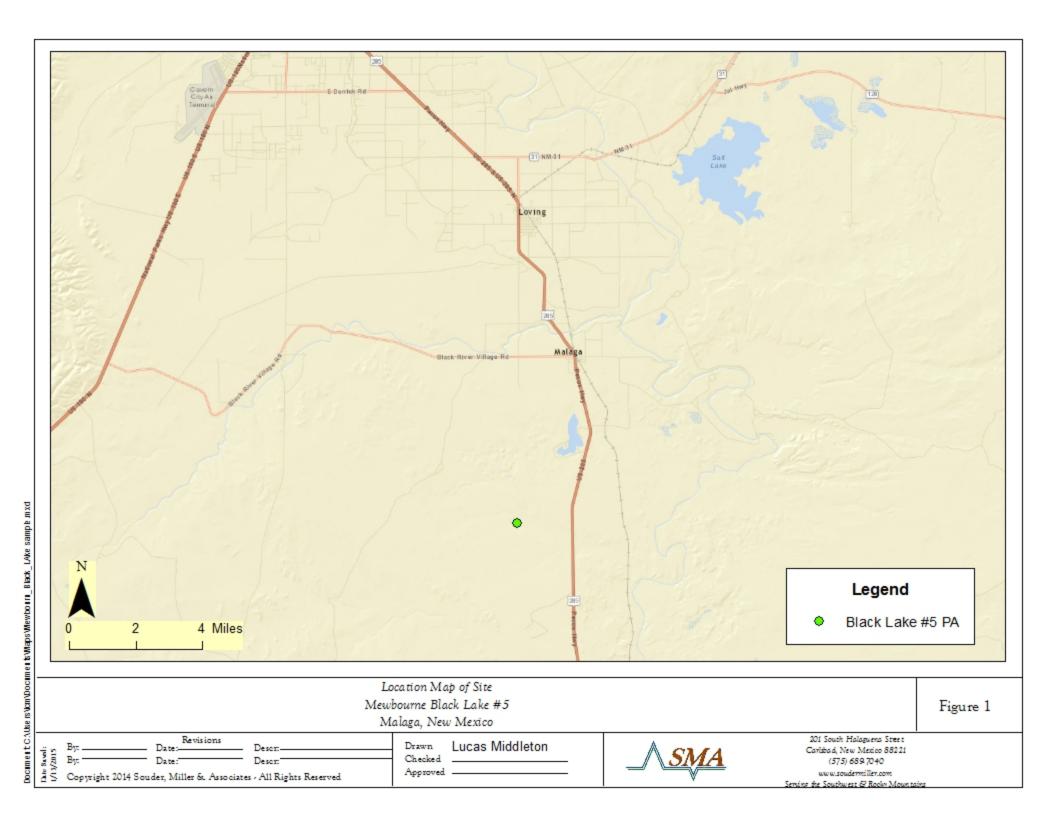




FIGURE 2 SITE DETAILS AND SAMPLE LOCATIONS MAP



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 18, 2014

Austin Weyant Souder, Miller & Associates 201 S Halagueno Carlsbad, NM 88221

TEL: (575) 689-7040

FAX

RE: Black Lake 5 OrderNo.: 1409358

Dear Austin Weyant:

Hall Environmental Analysis Laboratory received 15 sample(s) on 9/9/2014 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 qualifers 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,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 9/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-1 0.5 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 3:50:00 PM

 Lab ID:
 1409358-001
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analyst	BCN
Diesel Range Organics (DRO)	700	100		mg/Kg	10	9/11/2014 1:11:03 PM	15198
Surr: DNOP	0	57.9-140	S	%REC	10	9/11/2014 1:11:03 PM	15198
EPA METHOD 8015D: GASOLINE RAI	NGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Surr: BFB	92.0	80-120		%REC	1	9/11/2014 3:20:21 AM	15199
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.047		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Toluene	ND	0.047		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Ethylbenzene	ND	0.047		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Xylenes, Total	ND	0.094		mg/Kg	1	9/11/2014 3:20:21 AM	15199
Surr: 4-Bromofluorobenzene	97.6	80-120		%REC	1	9/11/2014 3:20:21 AM	15199
EPA METHOD 300.0: ANIONS						Analyst	: LGP
Chloride	18000	750		mg/Kg	500	9/12/2014 2:10:37 PM	15219

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates Client Sample ID: S-2 0.5 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 3:55:00 PM

 Lab ID:
 1409358-002
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/11/2014 1:07:18 AM	15198
Surr: DNOP	111	57.9-140	%REC	1	9/11/2014 1:07:18 AM	15198
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2014 3:48:54 AM	15199
Surr: BFB	91.9	80-120	%REC	1	9/11/2014 3:48:54 AM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	9/11/2014 3:48:54 AM	15199
Toluene	ND	0.048	mg/Kg	1	9/11/2014 3:48:54 AM	15199
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2014 3:48:54 AM	15199
Xylenes, Total	ND	0.096	mg/Kg	1	9/11/2014 3:48:54 AM	15199
Surr: 4-Bromofluorobenzene	97.8	80-120	%REC	1	9/11/2014 3:48:54 AM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	11000	750	mg/Kg	500	9/12/2014 2:23:02 PM	15219

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates Client Sample ID: S-2 1.0 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:00:00 PM

 Lab ID:
 1409358-003
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/11/2014 1:28:56 AM	15198
Surr: DNOP	96.5	57.9-140	%REC	1	9/11/2014 1:28:56 AM	15198
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2014 12:04:23 PM	15199
Surr: BFB	90.0	80-120	%REC	1	9/11/2014 12:04:23 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	9/11/2014 12:04:23 PM	15199
Toluene	ND	0.048	mg/Kg	1	9/11/2014 12:04:23 PM	15199
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2014 12:04:23 PM	15199
Xylenes, Total	ND	0.096	mg/Kg	1	9/11/2014 12:04:23 PM	15199
Surr: 4-Bromofluorobenzene	97.2	80-120	%REC	1	9/11/2014 12:04:23 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	13000	750	mg/Kg	500	9/12/2014 3:00:15 PM	15219

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 9/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-3 0.5 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:05:00 PM

 Lab ID:
 1409358-004
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/11/2014 1:50:41 AM	15198
Surr: DNOP	110	57.9-140	%REC	1	9/11/2014 1:50:41 AM	15198
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2014 12:33:00 PM	1 15199
Surr: BFB	90.5	80-120	%REC	1	9/11/2014 12:33:00 PM	1 15199
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.048	mg/Kg	1	9/11/2014 12:33:00 PM	1 15199
Toluene	ND	0.048	mg/Kg	1	9/11/2014 12:33:00 PM	1 15199
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2014 12:33:00 PM	1 15199
Xylenes, Total	ND	0.097	mg/Kg	1	9/11/2014 12:33:00 PM	1 15199
Surr: 4-Bromofluorobenzene	97.5	80-120	%REC	1	9/11/2014 12:33:00 PM	1 15199
EPA METHOD 300.0: ANIONS					Analyst	t: LGP
Chloride	9600	300	mg/Kg	200	9/12/2014 3:12:39 PM	15219

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 9/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-3 1.0 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:10:00 PM

 Lab ID:
 1409358-005
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/11/2014 2:12:14 AM	15198
Surr: DNOP	128	57.9-140	%REC	1	9/11/2014 2:12:14 AM	15198
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/11/2014 1:01:45 PM	15199
Surr: BFB	90.2	80-120	%REC	1	9/11/2014 1:01:45 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	9/11/2014 1:01:45 PM	15199
Toluene	ND	0.047	mg/Kg	1	9/11/2014 1:01:45 PM	15199
Ethylbenzene	ND	0.047	mg/Kg	1	9/11/2014 1:01:45 PM	15199
Xylenes, Total	ND	0.095	mg/Kg	1	9/11/2014 1:01:45 PM	15199
Surr: 4-Bromofluorobenzene	96.2	80-120	%REC	1	9/11/2014 1:01:45 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	2600	150	mg/Kg	100	9/12/2014 3:25:04 PM	15219

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Date Reported: 9/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-4 0.5 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:15:00 PM

 Lab ID:
 1409358-006
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/11/2014 3:17:04 AM	15198
Surr: DNOP	93.9	57.9-140	%REC	1	9/11/2014 3:17:04 AM	15198
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2014 1:30:28 PM	15199
Surr: BFB	94.0	80-120	%REC	1	9/11/2014 1:30:28 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	9/11/2014 1:30:28 PM	15199
Toluene	ND	0.048	mg/Kg	1	9/11/2014 1:30:28 PM	15199
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2014 1:30:28 PM	15199
Xylenes, Total	ND	0.096	mg/Kg	1	9/11/2014 1:30:28 PM	15199
Surr: 4-Bromofluorobenzene	97.0	80-120	%REC	1	9/11/2014 1:30:28 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: JRR
Chloride	14000	750	mg/Kg	500	9/17/2014 7:25:31 AM	15219

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates Client Sample ID: S-4 1.0 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:20:00 PM

 Lab ID:
 1409358-007
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/11/2014 3:38:35 AM	15198
Surr: DNOP	97.7	57.9-140	%REC	1	9/11/2014 3:38:35 AM	15198
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	9/11/2014 1:59:11 PM	15199
Surr: BFB	90.8	80-120	%REC	1	9/11/2014 1:59:11 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.046	mg/Kg	1	9/11/2014 1:59:11 PM	15199
Toluene	ND	0.046	mg/Kg	1	9/11/2014 1:59:11 PM	15199
Ethylbenzene	ND	0.046	mg/Kg	1	9/11/2014 1:59:11 PM	15199
Xylenes, Total	ND	0.093	mg/Kg	1	9/11/2014 1:59:11 PM	15199
Surr: 4-Bromofluorobenzene	96.9	80-120	%REC	1	9/11/2014 1:59:11 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	12000	750	mg/Kg	500	9/12/2014 3:49:53 PM	15219

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 9/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-5 0.5 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:25:00 PM

 Lab ID:
 1409358-008
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	27	10	mg/Kg	1	9/11/2014 4:00:22 AM	15198
Surr: DNOP	107	57.9-140	%REC	1	9/11/2014 4:00:22 AM	15198
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/11/2014 2:27:47 PM	15199
Surr: BFB	92.1	80-120	%REC	1	9/11/2014 2:27:47 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	9/11/2014 2:27:47 PM	15199
Toluene	ND	0.047	mg/Kg	1	9/11/2014 2:27:47 PM	15199
Ethylbenzene	ND	0.047	mg/Kg	1	9/11/2014 2:27:47 PM	15199
Xylenes, Total	ND	0.094	mg/Kg	1	9/11/2014 2:27:47 PM	15199
Surr: 4-Bromofluorobenzene	96.8	80-120	%REC	1	9/11/2014 2:27:47 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	12000	750	mg/Kg	500	9/12/2014 4:02:18 PM	15219

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 9/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-5 1.0 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:30:00 PM

 Lab ID:
 1409358-009
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/11/2014 4:21:42 AM	15198
Surr: DNOP	99.4	57.9-140	%REC	1	9/11/2014 4:21:42 AM	15198
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2014 2:56:26 PM	15199
Surr: BFB	90.8	80-120	%REC	1	9/11/2014 2:56:26 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	9/11/2014 2:56:26 PM	15199
Toluene	ND	0.048	mg/Kg	1	9/11/2014 2:56:26 PM	15199
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2014 2:56:26 PM	15199
Xylenes, Total	ND	0.097	mg/Kg	1	9/11/2014 2:56:26 PM	15199
Surr: 4-Bromofluorobenzene	96.1	80-120	%REC	1	9/11/2014 2:56:26 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	12000	750	mg/Kg	500	9/12/2014 4:14:42 PM	15219

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- $P \hspace{0.5cm} \hbox{Sample pH greater than 2.} \\$
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates Client Sample ID: S-6 0.5 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:35:00 PM

 Lab ID:
 1409358-010
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed Batch	ı
EPA METHOD 8015D: DIESEL RANGI	ORGANICS			Analyst: BCN	
Diesel Range Organics (DRO)	13	10	mg/Kg	1 9/11/2014 4:43:07 AM 15198	
Surr: DNOP	102	57.9-140	%REC	1 9/11/2014 4:43:07 AM 15198	
EPA METHOD 8015D: GASOLINE RA	NGE			Analyst: NSB	
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1 9/11/2014 3:25:04 PM 15199	
Surr: BFB	91.4	80-120	%REC	1 9/11/2014 3:25:04 PM 15199	
EPA METHOD 8021B: VOLATILES				Analyst: NSB	
Benzene	ND	0.047	mg/Kg	1 9/11/2014 3:25:04 PM 15199	
Toluene	ND	0.047	mg/Kg	1 9/11/2014 3:25:04 PM 15199	
Ethylbenzene	ND	0.047	mg/Kg	1 9/11/2014 3:25:04 PM 15199	
Xylenes, Total	ND	0.093	mg/Kg	1 9/11/2014 3:25:04 PM 15199	
Surr: 4-Bromofluorobenzene	97.3	80-120	%REC	1 9/11/2014 3:25:04 PM 15199	
EPA METHOD 300.0: ANIONS				Analyst: LGP	
Chloride	12000	750	mg/Kg	500 9/12/2014 4:27:07 PM 15219	

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

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 10 of 20
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 9/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-6 1.0 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:40:00 PM

 Lab ID:
 1409358-011
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	9/11/2014 5:04:24 AM	15198
Surr: DNOP	102	57.9-140	%REC	1	9/11/2014 5:04:24 AM	15198
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2014 3:53:45 PM	15199
Surr: BFB	91.7	80-120	%REC	1	9/11/2014 3:53:45 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	9/11/2014 3:53:45 PM	15199
Toluene	ND	0.048	mg/Kg	1	9/11/2014 3:53:45 PM	15199
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2014 3:53:45 PM	15199
Xylenes, Total	ND	0.096	mg/Kg	1	9/11/2014 3:53:45 PM	15199
Surr: 4-Bromofluorobenzene	97.2	80-120	%REC	1	9/11/2014 3:53:45 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	11000	750	mg/Kg	500	9/12/2014 4:39:31 PM	15219

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

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 11 of 20
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates Client Sample ID: S-7 0.5 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:45:00 PM

 Lab ID:
 1409358-012
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/11/2014 5:25:50 AM	15198
Surr: DNOP	94.6	57.9-140	%REC	1	9/11/2014 5:25:50 AM	15198
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/11/2014 4:22:21 PM	15199
Surr: BFB	91.7	80-120	%REC	1	9/11/2014 4:22:21 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	9/11/2014 4:22:21 PM	15199
Toluene	ND	0.047	mg/Kg	1	9/11/2014 4:22:21 PM	15199
Ethylbenzene	ND	0.047	mg/Kg	1	9/11/2014 4:22:21 PM	15199
Xylenes, Total	ND	0.095	mg/Kg	1	9/11/2014 4:22:21 PM	15199
Surr: 4-Bromofluorobenzene	97.6	80-120	%REC	1	9/11/2014 4:22:21 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	13000	750	mg/Kg	500	9/12/2014 4:51:55 PM	15219

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

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 12 of 20
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 9/18/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Souder, Miller & Associates Client Sample ID: S-7 1.0 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:50:00 PM

 Lab ID:
 1409358-013
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	9/11/2014 5:47:03 AM	15198
Surr: DNOP	94.8	57.9-140	%REC	1	9/11/2014 5:47:03 AM	15198
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	9/11/2014 10:06:22 PM	15199
Surr: BFB	90.7	80-120	%REC	1	9/11/2014 10:06:22 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	9/11/2014 10:06:22 PM	15199
Toluene	ND	0.047	mg/Kg	1	9/11/2014 10:06:22 PM	15199
Ethylbenzene	ND	0.047	mg/Kg	1	9/11/2014 10:06:22 PM	15199
Xylenes, Total	ND	0.094	mg/Kg	1	9/11/2014 10:06:22 PM	15199
Surr: 4-Bromofluorobenzene	96.7	80-120	%REC	1	9/11/2014 10:06:22 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	11000	750	mg/Kg	500	9/12/2014 5:29:09 PM	15219

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

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 13 of 20
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates Client Sample ID: S-8 0.5 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 4:55:00 PM

 Lab ID:
 1409358-014
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analyst	BCN
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	9/11/2014 6:08:33 AM	15198
Surr: DNOP	91.2	57.9-140	%REC	1	9/11/2014 6:08:33 AM	15198
EPA METHOD 8015D: GASOLINE RA	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	9/11/2014 10:35:01 PM	15199
Surr: BFB	91.4	80-120	%REC	1	9/11/2014 10:35:01 PM	15199
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	9/11/2014 10:35:01 PM	15199
Toluene	ND	0.048	mg/Kg	1	9/11/2014 10:35:01 PM	15199
Ethylbenzene	ND	0.048	mg/Kg	1	9/11/2014 10:35:01 PM	15199
Xylenes, Total	ND	0.096	mg/Kg	1	9/11/2014 10:35:01 PM	15199
Surr: 4-Bromofluorobenzene	97.7	80-120	%REC	1	9/11/2014 10:35:01 PM	15199
EPA METHOD 300.0: ANIONS					Analyst	: LGP
Chloride	12000	750	mg/Kg	500	9/12/2014 5:41:34 PM	15219

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Page
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 9/18/2014

CLIENT: Souder, Miller & Associates Client Sample ID: S-8 1.0 BGS

 Project:
 Black Lake 5
 Collection Date: 9/2/2014 5:00:00 PM

 Lab ID:
 1409358-015
 Matrix: SOIL
 Received Date: 9/9/2014 8:57:00 AM

Analyses	Result	RL Qu	al Units	DF Date Analyzed Batch
EPA METHOD 8015D: DIESEL RANGE	ORGANICS			Analyst: BCN
Diesel Range Organics (DRO)	ND	10	mg/Kg	1 9/11/2014 6:29:49 AM 15198
Surr: DNOP	93.2	57.9-140	%REC	1 9/11/2014 6:29:49 AM 15198
EPA METHOD 8015D: GASOLINE RAN	IGE			Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1 9/11/2014 11:03:39 PM 15199
Surr: BFB	91.3	80-120	%REC	1 9/11/2014 11:03:39 PM 15199
EPA METHOD 8021B: VOLATILES				Analyst: NSB
Benzene	ND	0.048	mg/Kg	1 9/11/2014 11:03:39 PM 15199
Toluene	ND	0.048	mg/Kg	1 9/11/2014 11:03:39 PM 15199
Ethylbenzene	ND	0.048	mg/Kg	1 9/11/2014 11:03:39 PM 15199
Xylenes, Total	ND	0.096	mg/Kg	1 9/11/2014 11:03:39 PM 15199
Surr: 4-Bromofluorobenzene	97.9	80-120	%REC	1 9/11/2014 11:03:39 PM 15199
EPA METHOD 300.0: ANIONS				Analyst: LGP
Chloride	9800	300	mg/Kg	200 9/12/2014 5:53:58 PM 15219

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

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1409358

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID MB-15219 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: 15219 RunNo: 21137

Prep Date: 9/10/2014 Analysis Date: 9/10/2014 SeqNo: 615418 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID LCS-15219 SampType: LCS TestCode: EPA Method 300.0: Anions

Batch ID: 15219 Client ID: LCSS RunNo: 21137

Prep Date: 9/10/2014 Analysis Date: 9/10/2014 SeqNo: 615420 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

Chloride 15 1.5 15.00 0 98.8 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1409358**

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID MB-15198 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: PBS Batch ID: 15198 RunNo: 21109

Prep Date: 9/9/2014 Analysis Date: 9/10/2014 SeqNo: 615414 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 8.8 10.00 88.4 57.9 140

Sample ID LCS-15198 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: LCSS Batch ID: 15198 RunNo: 21109

Prep Date: 9/9/2014 Analysis Date: 9/10/2014 SeqNo: 615415 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 48
 10
 50.00
 0
 96.7
 68.6
 130

 Surr: DNOP
 4.1
 5.000
 82.4
 57.9
 140

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1409358**

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID MB-15192 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: **PBS** Batch ID: 15192 RunNo: 21126 Prep Date: 9/9/2014 Analysis Date: 9/10/2014 SeqNo: 615294 Units: %REC Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 890 89.2 80 1000 120 Sample ID LCS-15192 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 15192 RunNo: 21126 Prep Date: 9/9/2014 Analysis Date: 9/10/2014 SeqNo: 615295 Units: %REC SPK value SPK Ref Val %REC Analyte Result LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 970 1000 97.3 120 Sample ID MB-15199 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: Batch ID: 15199 RunNo: 21126 Prep Date: Analysis Date: 9/11/2014 SeqNo: 615331 9/9/2014 Units: mg/Kg %RPD Result **PQL** SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 920 Surr: BFB 1000 92.0 80 120 Sample ID LCS-15199 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 15199 RunNo: 21126 Prep Date: 9/9/2014 Analysis Date: 9/11/2014 SeqNo: 615332 Units: mg/Kg %REC %RPD Result **PQL** SPK value SPK Ref Val LowLimit HighLimit **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 105 65.8 139 Surr: BFB 1000 1000 99.6 80 120 TestCode: EPA Method 8015D: Gasoline Range Sample ID 1409358-002AMS SampType: MS Client ID: S-2 0.5 BGS RunNo: 21160 Batch ID: 15199 Prep Date: 9/9/2014 Analysis Date: 9/11/2014 SeqNo: 615903 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 Λ 118 71.8 4.8 24.08 132 Surr: BFB 980 963.4 101 80 120

Qualifiers:

Surr: BFB

Analyte

* Value exceeds Maximum Contaminant Level.

SampType: MSD

Batch ID: 15199

Analysis Date: 9/11/2014

PQL

4.8

SPK value SPK Ref Val

0

24.08

963.4

Result

22

960

E Value above quantitation range

Sample ID 1409358-002AMSD

Client ID: S-2 0.5 BGS

Gasoline Range Organics (GRO)

Prep Date: 9/9/2014

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

LowLimit

71.8

80

TestCode: EPA Method 8015D: Gasoline Range

Units: mg/Kg

132

120

%RPD

25.6

0

HighLimit

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

RunNo: 21160

SeqNo: 615904

%REC

91.2

99.6

- P Sample pH greater than 2.
- RL Reporting Detection Limit

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RPDLimit

20

0

Qual

R

Hall Environmental Analysis Laboratory, Inc.

WO#: **1409358**

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID MB-15192 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 15192 RunNo: 21126 Prep Date: 9/9/2014 Analysis Date: 9/10/2014 SeqNo: 615349 Units: %REC Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: 4-Bromofluorobenzene 0.97 1.000 97.1 80 120

Sample ID LCS-15192 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 15192 RunNo: 21126 9/9/2014 Prep Date: Analysis Date: 9/10/2014 SeqNo: 615350 Units: %REC SPK value SPK Ref Val %REC **RPDLimit** Analyte Result LowLimit HighLimit %RPD Qual Surr: 4-Bromofluorobenzene 1.0 1.000 102 120

Sample ID MB-15199 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: 15199 RunNo: 21126 Analysis Date: 9/11/2014 Prep Date: 9/9/2014 SeqNo: 615364 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result HighLimit Qual ND 0.050 Benzene Toluene ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10 Surr: 4-Bromofluorobenzene 1.000 100 80 120 1.0

TestCode: EPA Method 8021B: Volatiles Sample ID LCS-15199 SampType: LCS Client ID: LCSS Batch ID: 15199 RunNo: 21126 Prep Date: 9/9/2014 Analysis Date: 9/11/2014 SeqNo: 615365 Units: mg/Kg SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Benzene 0.91 0.050 1.000 0 91.2 80 120 0.91 0.050 1.000 0 91.2 80 120 Toluene 0.94 0.050 1.000 0 94.1 80 Ethylbenzene 120 Xylenes, Total 2.8 0.10 3.000 0 94.9 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 103 80 120

Sample ID 1409358-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: S-1 0.5 BGS Batch ID: 15199 RunNo: 21160 Prep Date: Analysis Date: 9/11/2014 SeqNo: 615975 9/9/2014 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene 0.81 0.047 0.9407 86.2 77.4 142 0.82 0.006968 86.8 Toluene 0.047 0.9407 77 132 Ethylbenzene 0.84 0.047 0.9407 0 89.8 77.6 134 2.6 0.094 2.822 0 90.7 77.4 132 Xylenes, Total

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1409358**

18-Sep-14

Client: Souder, Miller & Associates

Project: Black Lake 5

Sample ID 1409358-001AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: S-1 0.5 BGS Batch ID: 15199 RunNo: 21160

Prep Date: 9/9/2014 Analysis Date: 9/11/2014 SeqNo: 615975 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.97 0.9407 103 80 120

Sample ID 1409358-001AM	SD SampT	ype: M \$	SD	Tes						
Client ID: S-1 0.5 BGS	Batch	1D: 15	199	R						
Prep Date: 9/9/2014	Analysis D	ate: 9/	11/2014	S	SeqNo: 6	15976	Units: mg/K	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.047	0.9416	0	104	77.4	142	19.2	20	
Toluene	0.99	0.047	0.9416	0.006968	105	77	132	18.7	20	
Ethylbenzene	1.0	0.047	0.9416	0	109	77.6	134	19.7	20	
Xylenes, Total	3.1	0.094	2.825	0	109	77.4	132	18.3	20	
Surr: 4-Bromofluorobenzene	0.98		0.9416		104	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 20 of 20



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: SMA-CARLSBAD	Work Order Number:	1409358		RcptNo: 1
Received by/date:	09/09/14			
Logged By: Michelle Garcia	9/9/2014 8:57:00 AM		Mirelle Gara	ui
Completed By: Michelle Garcia	9/9/2014 10:43:25 AM		Michelle Gan	ua)
Reviewed By:	09/09/14			
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		
<u>Log In</u>				
4. Was an attempt made to cool the sample	es?	Yes 🗹	No 🗌	NA .
5. Were all samples received at a temperar	ture of >0° C to 6.0°C	Yes Not rec	No 🗹	NA 🗆
6. Sample(s) in proper container(s)?		Yes 🗹	No 🗆	
7. Sufficient sample volume for indicated to	est(s)?	Yes 🗹	No 🗆	
8. Are samples (except VOA and ONG) pro	pperly preserved?	Yes 🗹	No 🗀	
9. Was preservative added to bottles?		Yes 🗌	No 🗹	NA \square
10.VOA vials have zero headspace?		Yes	No 🗆	No VOA Vials ⊻
11. Were any sample containers received b	roken?	Yes	No 🗹	# of preserved
		. 🕳		bottles checked
12.Does paperwork match bottle labels?	۸	Yes 🗹	No □	for pH: (<2 or >12 unless noted)
(Note discrepancies on chain of custody 13. Are matrices correctly identified on Chai		Yes 🗹	No 🗆	Adjusted?
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 v	vith this order?	Yes 🗆	No 🗆	NA 🗹
Person Notified:	Date:		· · · · · · · · · · · · · · · · · · ·	_
By Whom:	Via:	eMail _	Phone Fax	In Person
Regarding:				
Client Instructions:	<u></u>			
17. Additional remarks:				
18. Cooler Information Cooler No Temp °C Condition 1 6.2 Good	Seal Intact Seal No Yes	Seal Date	Signed By	

پ	☆	-	-					or N)	۲) ۶	Air Bubbles														
HALL ENVIRONMENTAL		www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request		S,₄O9,	(1,40) 8 0728 5 0885 8 1 8083	o o or o o or stals on,lo	TPH (Methors) HQT (Methors) 8 (Methors) RCRA 8 Mothors (F,C) (F,C) (Sem (Score) (Sem (Score) (Sem (Score) (Sco	~		X	×	×	×	×	×	*	×	×	×	/ 1 0	Time: Refinquished by: Date Time /3 /2
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Turn-Around Tim	□ Standard	Project Name:	Black	Project #	<u>.</u>	Project Manage	Austin	Sampler:	Sample Temperature:	Container F	1 402										/	7	Received by:	Received by:
Chain-of-Custody Record			Mailing Address: 201 S. Wedgermo St.		2401	\ <u>\</u> \	ن □ Level 4 (Full Validation)	l l		Sample Request ID	5-1 0.5 Bes		1.0 Blas	5-3 0.5 345	به ا			-5 0.5	5-5 1.0 Bas	S-6 0.5 Bus	6.1	o v	2	led by:
of-Cu	*		201 5	MU	685	المناجعة		□ Other		Matrix	7.05											>	Relinguished by	Relinquished by:
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٦	Client:		Mailing	Carlaba	Phone #:	email c	QA/QC Packa	Accreditation □ NELAP		Date	1/2/14		· 		-							>	Date:	Date:

LATI ENVIDONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Request		S' [†] Od	() () () ()	(1.81 (1.40 (7.40	d 4°	Metho (8310) (8310); (F,C); (F,C) (VOk) (VOk)	FDB (I) HQT PAH's ACRA Anions 8260B PS60B PS70 (X	×	×					10		7/2 pd	·	sub-contracted data will be clearly notated on the analytical report.
			4901	Tel. !			388) H	dT +	38	ITM +	XЭТ8 XЭТ8 8 H9T		×	X X	11/1	ļ				Remarks:			s possibility. Any
i um-Arouna i ime:	□ Standard □ Rush	Project Name:	Black lake 5	Project #:		Project Manager:	Dustin Winant	/	pler: O, Spiagos.	Тепре	ative	-1-1-	(l	40015							71/01/19	במנס	ed to other accredited laboratories. This serves as notice of this
Chain-of-Custody Record	Client: AMA		Mailing Address: 201 5 Hulgarene 54.	bezzel	515 689	-ax#: Austin, weignt & Soulls	ige: C File Constitution of the Constitution o	☐ Level 4 (Full Validation)	NELAP	□ EDD (Type) Sam		Date Time Matrix Sample Request ID Typ	1/2/4 1650 50:1 5-7 1.0 BGS 1407	1655 1. 5-8 0.5' 265	5-8 1.0' 865						Date: Time: Relinquished by: Recei	7	Title: Keiniquistied by.	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



December 23, 2014

AUSTIN WEYANT
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: MEWBOURNE BLACK LAKE SAMPLING

Enclosed are the results of analyses for samples received by the laboratory on 12/18/14 16:11.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



SOUDER MILLER AND ASSOCIATES AUSTIN WEYANT 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 12/18/2014 Sampling Date: 12/12/2014

Reported: 12/23/2014 Sampling Type: Soil

Project Name: MEWBOURNE BLACK LAKE SAMPLING Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BLACK LAKE

Sample ID: BL-5 (H403883-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/22/2014	ND	400	100	400	0.00	

Cardinal Laboratories *=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Delivered By: (Circle One) Sampler - UPS - Bus - Other: Sampler - UPS - Bus - Other:	Relinquished By: Times4,711 Received By:	12 M 2 3 3 3 1 1 1 1 2 1 1 1 1 1 1 1 1 1 1 1	1 2 2 2	Relinquished By: Date: 7 _	analyses. All daims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and refered by Cardinal within 30 days after completion of the appli affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such daim is based upon any of the above stated reasons or otherwise.	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or jort, shall be limited to the amount paid by the client for the					/ BL-5 G X	G	B)RAB OR (C # CONTA ROUNDWA' WASTEWAT	TER	_	Sampler Name: Lucas Middleton	Project Location: Black Lake	Project Name: Mewbourne Black Lake Sampling	Project #: Project Owner:	Phone #: 575-689-5351 Fax #:	City: Calrsbad State: NM Zip: 88220	Address: 201 s Halagueno	Project Manager: Austin Weyant	Company Name: Souder Miller and Associates	(3/3) 393-2320 FAX (3/3) 393-24/0
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CHECKED BY: (Initials)					*	by the client for the					12/12/2014	DATE			SAMPLING		02-2188	Zip: 88241		ox 5270	mas	vbourne			
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

400



December 05, 2014

AUSTIN WEYANT
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: BLACK LAKE 5

Enclosed are the results of analyses for samples received by the laboratory on 12/03/14 16:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



SOUDER MILLER AND ASSOCIATES
AUSTIN WEYANT
201 S. HALAGUENO
CARLSBAD NM, 88220
Fax To: NONE

Received: 12/03/2014

Sampling Date: 11/26/2014
Sampling Type: Soil

Reported: 12/05/2014
Project Name: BLACK LAKE 5
Project Number: MEWBOURNE

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Project Location: BLACK LAKE 5

Sample ID: BL - 1 (H403690-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 2 (H403690-02)

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 3 (H403690-03)

Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 4 (H403690-04)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1730	16.0	12/04/2014	ND	400	100	400	3.92		

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SOUDER MILLER AND ASSOCIATES AUSTIN WEYANT 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 12/03/2014

Sampling Date:

11/26/2014

Reported: Project Name: 12/05/2014

Sampling Type: Sampling Condition:

400

100

Soil Cool & Intact

400

3.92

Project Number:

BLACK LAKE 5 MEWBOURNE

2920

16.0

Sample Received By:

Jodi Henson

Project Location: BLACK LAKE 5

Sample ID: BL - 5 (H403690-05)

Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6400	16.0	12/04/2014	ND	400	100	400	3.92	
Sample ID: BL - 6 (H4036	90-06)								
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

ND

Sample ID: BL - 7 (H403690-07)

Chloride

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	912	16.0	12/04/2014	ND	400	100	400	3.92	

12/04/2014

Sample ID: BL - 8 (H403690-08)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/04/2014	ND	400	100	400	3.92	

Sample ID: BL - 9 (H403690-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090	16.0	12/04/2014	ND	400	100	400	3.92	

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Celeg D. Keene



SOUDER MILLER AND ASSOCIATES **AUSTIN WEYANT** 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 12/03/2014 Sampling Date: 11/26/2014

Reported: 12/05/2014 Sampling Type: Soil

Project Name: **BLACK LAKE 5** Sampling Condition: Cool & Intact Sample Received By: Project Number: MEWBOURNE Jodi Henson

Project Location: **BLACK LAKE 5**

Sample ID: BL - 10 (H403690-10)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/04/2014	ND	400	100	400	3.92	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

				AA		REQUEST	
		- 1		es	_		
		Company:	Mewbourne	orid			
M	Zip: 88220	Attn: Zach	Thomas	Chl			
7.5		Address: F	O Box 5270		_		
wner:		City: Hobb	Ġ		-	_	
		State: N	M Zip: 88241				_
		Phone #:	575-602-2188		_		
		Phone #.	0012-200-01				
		Fax #:					
,	_	PRESE	RV. SAMPLING				
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emedy for any daim arish er shall be deemed waive	ng whether based in contract of unless made in writing and re	if tort, shall be lithined to the and seeived by Cardinal within 30 dishased upon any of the above s	ays after completion of the applicated reasons or otherwise.	able service. In no even	shali Cardinal be lic	ble for incidental or	consequental damages, including with
11/2/18	Received By:			Phone Result: Fax Result: REMARKS:	Yes	No No	Add'l Fax #:
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ate:	Received By:						
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n	Sample Cool Int	ondition actives	CHECKED BY:				
se fax written c	hanges to (575) 3	93-2326 #54	0				
		10th					
	oject Manager: Austin Weyant diress: 201 s Halagueno ty: Cairsbad State: NM Fax #: oject Mame: Mewbourne- Black Lake 5 oject Location: Black Lake 5 oject Location: Black Lake 5 ampler Name: Lucas Middleton RLUCAS Middleton RRLUCAS Middleton RRLUCA	wner: We with the control of the co	Party Name: Souder Miller and Associates	Company: Mewbourne	Received By:	Received By: Sample Condition CHECKED By: State Thomas Checked By: Company Membourne Checked By: Checked By:	TIME Chlorides Chlorides



November 12, 2014

AUSTIN WEYANT
SOUDER MILLER AND ASSOCIATES
201 S. HALAGUENO
CARLSBAD, NM 88220

RE: BLACK LAKE 5 PA

Enclosed are the results of analyses for samples received by the laboratory on 11/06/14 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



SOUDER MILLER AND ASSOCIATES AUSTIN WEYANT 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

 Received:
 11/06/2014
 Sampling Date:
 10/31/2014

 Reported:
 11/12/2014
 Sampling Type:
 Soil

Project Name: BLACK LAKE 5 PA Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BLACK LAKE 5 PA

Sample ID: L1: S1 (H403421-01)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Reporting Limit Analyzed Method Blank BS % Recovery True Value OC RPD Oualifier Analyte Result 400 Chloride 9730 16.0 11/10/2014 ND 100 400 0.00

Sample ID: L1: S2 (H403421-02)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 5520 16.0 11/10/2014 ND 400 100 400 0.00

Sample ID: L1: S3 (H403421-03)

BTEX 8021B	mg/kg		Analyze	Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	<0.050	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<0.300	0.300	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 100 % 61-154

Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	11/10/2014	ND	400	100	400	0.00	

Cardinal Laboratories *=Accredited Analyte

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SOUDER MILLER AND ASSOCIATES AUSTIN WEYANT 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/06/2014 Sampling Date: 10/31/2014

Reported: 11/12/2014 Sampling Type: Soil

Project Name:BLACK LAKE 5 PASampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Kathy Perez

Project Location: BLACK LAKE 5 PA

Sample ID: L2: S1 (H403421-04)

Chloride, SM4500CI-B	loride, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2400	16.0	11/10/2014	ND	400	100	400	0.00	

Sample ID: L2: S2 (H403421-05)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	<0.200	0.200	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.200	0.200	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.600	0.600	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<1.20	1.20	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.1 % 61-154

Chloride, SM4500Cl-B	mg/kg			d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	864	16.0	11/10/2014	ND	400	100	400	0.00	

Sample ID: L3: S1 (H403421-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1390	16.0	11/10/2014	ND	400	100	400	3.92	

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SOUDER MILLER AND ASSOCIATES AUSTIN WEYANT 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/06/2014 Sampling Date: 10/31/2014

Reported: 11/12/2014 Sampling Type: Soil

Project Name: BLACK LAKE 5 PA Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BLACK LAKE 5 PA

Sample ID: L3: S2 (H403421-07)

Chloride, SM4500CI-B	hloride, SM4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L3: S3 (H403421-08)

BTEX 8021B	mg/	mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	<0.050	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<0.300	0.300	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 95.7 % 61-154

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L1: S1 (H403421-09)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	11/10/2014	ND	400	100	400	3.92	

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Received: 11/06/2014 Sampling Date: 10/31/2014

Reported: 11/12/2014 Sampling Type: Soil

Project Name: BLACK LAKE 5 PA Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BLACK LAKE 5 PA

Sample ID: L4: S2 (H403421-10)

Chloride, SM4500Cl-B	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L5: S1 (H403421-11)

Chloride, SM4500CI-B	4500Cl-B mg/kg			Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	11/10/2014	ND	400	100	400	3.92	

Sample ID: L5: S2 (H403421-12)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	0.109	0.050	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.050	0.050	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.150	0.150	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	< 0.300	0.300	11/10/2014	ND					

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	11/10/2014	ND	400	100	400	3.92	

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SOUDER MILLER AND ASSOCIATES AUSTIN WEYANT 201 S. HALAGUENO CARLSBAD NM, 88220 Fax To: NONE

Received: 11/06/2014 Sampling Date: 10/31/2014

Reported: 11/12/2014 Sampling Type: Soil

Project Name: BLACK LAKE 5 PA Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Kathy Perez

Project Location: BLACK LAKE 5 PA

Sample ID: L6: S1 (H403421-13)

Chloride, SM4500Cl-B mg/kg Analyzed By: AP Analyte Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD Qualifier Chloride 4320 16.0 11/10/2014 ND 400 100 400 3.92

Sample ID: L6: S2 (H403421-14)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.100	0.100	11/10/2014	ND	1.84	91.9	2.00	4.93	
Toluene*	<0.100	0.100	11/10/2014	ND	1.79	89.5	2.00	1.72	
Ethylbenzene*	<0.100	0.100	11/10/2014	ND	1.72	86.0	2.00	2.09	
Total Xylenes*	<0.300	0.300	11/10/2014	ND	5.10	84.9	6.00	3.06	
Total BTEX	<0.600	0.600	11/10/2014	ND					

Surrogate: 4-Bromofluorobenzene (PID 98.3 % 61-154

Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1550	16.0	11/10/2014	ND	400	100	400	3.92	

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(5/5) 393-2326 FAX (5/5) 393-24/6	noistage				
Company Name: Souder Miller and Associates	ociates		BILL TO	L	ANALYSIS REQUEST
Project Manager: Austin Weyant				des	EX
Address: 201 s Halagueno			Company: Mewbourne	orio	BTI
City: Cairsbad	State: NM	Zip: 88220	Attn: Zach Thomas	Chl	
Phone #: 575-689-7040	Fax #:		Address: P.O Box 5270		
Project #:	Project Owner:		City: Hobbs		
Project Name: Black Lake 5 PA Sampling	g		State: NM Zip: 88241		
Project Location: Black Lake 5 PA			Phone #: 575-602-2188		
Sampler Name: Lucas Middleton			Fax #:		
FOR LAB USE ONLY		_	PRESERV. SAMPLING		
Lab I.D.		AINEF	ASE: COOL HER:	ed.	
			OTH ACID/BA ICE / C		
140342-1 Sample I.D.		G	DATE	TIME	
L1:S1		G X	10/31/2014	1:30 X	
\ L1:S2		G X		1:30 X	
L1:S3		G X	H/2/2014	1:30 X	X
4 L2:S1		G X	U.3/2014	1:30 X	
5 L2:S2		G X	11/4/2014	1:30 X	X
L3:S1		G X	11/5/2014	1:30 X	
L3:S2		G X	11/6/2014	1:30 X	
& L3:S3		G X	11/7/2014	1:30 X	X
9 14:52:1		G X	11/8/2014	1:30 X	
10 L4:S2		G X	17/9/2014	1:30 X	
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Relinquished By:	Date:	Received By:	C		
Delivered By: (Circle One)		Sample Condition	CHECKED BY:		
_	(N)	Cool Intact Yes	(Integrals)		

[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (575) 393-2476					
Company Name: Souder Miller and Associates	,	BILL TO	ANA	ANALYSIS REQUEST	
Project Manager: Austin Weyant		P.O. #:			
Address: 201 s Halagueno		Company: Mewbourne	lorio		
City: Cairsbad State:	NM Zip: 88220	Attn: Zach Thomas	Chl		
Phone #: 575-689-7040 Fax #:		Address: P.O Box 5270			
Project #: Project Owner:		City: Hobbs			
Project Name: Black Lake 5 PA Sampling		State: NM Zip: 88241			
Project Location: Black Lake 5 PA		Phone #: 575-602-2188			
Sampler Name: Lucas Middleton		Fax #:			
FOR LAB USE ONLY	_	PRESERV. SAMPLING			
Lab I.D.	G)RAB OR (C)OM # CONTAINER GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	14		
サイムシリョン Sample I.D.		DATE 10/31/2014	1:30 X		
(A) L5:S2		11/1/2014			
13 L6:S1	GX	H-2/2014	1:30 X		
/ \$\frac{1}{4} \text{L6:S2}	G	H/5/2014	1:30 X X		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive nemety for any daim arising whether based in contract or fort, shall be immitted, to the amount paid by the client for the analyses. All daims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completed the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including these for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completed the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including these forms and the cardinal properties of the applicable service.	r any daim arising whether based in contract or tort, shall a deemed waived unless made in wrifing and received by Cardinal, recardless of whether such daim is based upon	seed in contract or tort, shall be jurnified to the amount paid by the client for the be in writing and received by Ogdrinal within 30 days after completion of the applicable ther such daim is based upon any of the above stated reasons or otherwise.	e service. In no event shall C	Cardinal be liable for incidental or consequental damage	jes, indudinį
Relinquished By: Date:	Received By:		Phone Result: Fax Result: REMARKS:	Yes No Add'l Phone #: Yes No Add'l Fax #:	
Relinquished By: Time:	Received By:				
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intactives (Yes)No No	CHECKED BY:	4 24		

[†] Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326



APPENDIX B
C-141INITAL
C-141 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

AUG 27 2014

RECEIVED

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. NMOCD ARTESIA

Copy-to-apprepriate District Office in accordance with 19.15.29 NMAC.

1220 South St. Francis D Santa Fe, NM 87505

•			Rele	ease Notifica	atior	and Co	orrective A	ction				
nAB14	2412	1656				OPERA?	ΓOR		D Initi	al Report		Final Repor
		lewbourne C	il Compa	my 1474	4	Contact: Zac	ck Thomas					
	·····	0 Hobbs NM					No. 575-393-590					
Facility Na	ne: Black	Lake 5 PA S	t. Com#	1H		Facility Typ	e: Producing O	il_Well_	. ,,			·
Surface Ow	ner: State	· · · · · · · · · · · · · · · · · · ·		Mineral Ov	vner:	State			APINO	o. 30-015-4	1124	
***************************************							LIDACID					
Unit Letter	Section	Township	Danaa			N OF REI	Feet from the	Fact/V	Vest Line	County		
P	5	25S	Range 28E	150'	South	South Pille	330'	East	vezi imie	Eddy		i
ļ <u></u>								<u> </u>		i dinimana		
			L	atitude32.152	3553_	Longitude	104.1021419					
				NATI	URE	OF RELI	EASE					
Type of Rele							Release: 650 bbl			Recovered:		
Source of Re	lease; Wate	r Tank	•	,			Iour of Occurrence	e		Hour of Di		
Was Immedi	ara Nation (Time 9				8-24-14 If YES, To	Whom?		8-24-14	8:00	am	
· was minedi	ate motice (Yes 🗵] No □ Not Rec	quired	H 1E3, 10	YY HOIH (
By Whom?		· · · · · · · · · · · · · · · · · · ·				Date and F	lour		~~ ~~~~~			The state of the s
Was a Water	course Read	hed?					olume Impacting t	he Wate	ercourse.			
			Yes 🗵] No								
If a Watercon	irse was Im	pacted, Descr	ibe Fully.'	* .		·· 				**************************************	2.	·
Describe Arc Affected area the pasture to Cleanup Act trucks. All p Guidelines fo	a Affected as- Well pac oward Devo on- All con roduced wa or Remediat	and Cleanup z d around tank n location, taminated cal ter that was re ion of Spills,	Action Tall containment iche and tecovered (Leaks and	ent on northeast sid opsoil will be dug o 580bbis) was haule Releases.	e. Wat out and	ter also ran of hauled off.	ff location on Nor Fanks and contain	theast si	ill be clear	ned with stern accordance	amer an	d vacuum he NMOCD's
regulations a public health should their or or the enviro	II operators or the envi operations h nment. In a	are required to ronment. The lave failed to	o report ai acceptanc accquately ICD accep	e is true and comple nd/or file certain re ce of a C-141 repor investigate and re otance of a C-141 r	lcase n t by the mediat	otifications a e NMOCD m e contaminati	nd perform correct larked as "Final Rition that pose a thing to the operator of	ctive act leport" d eat to gr respons	ions for re loes not re cound water bility for	leases which lieve the ope er, surface we compliance	n may elerator ovater, hu	ndanger f liability man health
Signature:	3.	Thon	cas)	2.00		Approved by	OIL CON Environmental S		//	DIVISIO	ON	
Printed Name Title: Enviro			nwoollahiiii			Approval Da	10: 8/20/1U		<u>۲) ح</u> Expiration	Jeca Date: KII	A	
E-mail Addre	ess: zihoma:	s@mewbourn	e.com	Dhona, \$75,600.0	Conditions of Approval: Remediation, per OCD Rule &							
Date: 8-27-1- Attach Addi		ets If Necess	ary	Phone: 575-602-2	188	Guideline	s. SUBMIT RE	MEDIA	ATION-		100	2 0450

NO LATER THAN:

NM OIL CONSERVATION

ARTESIA DISTRICT

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

OCT 1 5 2014

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505 RECEIVED by to appropriate District Office in accordance with 19/15.29 NMAC.

Release Notification and Corrective Action 1AB1428950747 **OPERATOR** Initial Report Final Report Contact: Zack Thomas Name of Company: Mewbourne Oil Company Telephone No. 575-393-5905 Address: PO Box 5270 Hobbs NM 88241 Facility Name: Black Lake 5 PA St. Com #1H Facility Type: Producing Oil Well API No. 30-015-41124 Surface Owner: State Mineral Owner: State LOCATION OF RELEASE East/West Line County Unit Letter Section Township Range Feet from the North/South Line Feet from the Eddy p 25S 28E 150' South 330 East Latitude__32.1523553_ Longitude -104.1021419 NATURE OF RELEASE Type of Release: Produced Water Volume of Release: Produced Volume Recovered: PW(420 bbls) water estimated 430 bbls. Date and Hour of Discovery Source of Release: Water Tank Date and Hour of Occurrence 12:00 pm 10-13-14 10-13-14 Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☒ No ☐ Not Required Heather Patterson By Whom? Zack Thomas 10-14-14 7:35 am Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Water transfer pump failed causing water tanks to run over into secondary containment. Secondary containment also ran over putting an estimated 30 bbls on the ground east of tanks out into the pasture. Well was shut-in upon pumper arrival to stop the release. Vacuum trucks recovered all standing fluid. Describe Area Affected and Cleanup Action Taken,* Affected areas- Well pad around tank secondary containment on northeast side. Well pad surface in between tanks and well head. Water also ran off location on Northeast side down an estimated 200 yards through the pasture. Cleanup Action- All contaminated caliche and topsoil will be dug out and hauled off. All produced water that was recovered (420 bbls) was hauled off to a SWD. Final remediation will be conducted in accordance with the NMOCD's Guidelines for Remediation of Spills, Leaks and Releases. 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. OIL CONSERVATION DIVISION Signed By Approved by Environmental Printed Name: Zack Thomas Title: Environmental Rep. Expiration Date: E-mail Address: zthomas@mewbourne.com Conditions of Approval: Remediation per O.C.D. Rules & Guidelines Phone: 575-602-2188 Date: 10-14-14 SUBMIT REMEDIATION PROPOSAL NO

LATER THAN:

District I 1625 N. French Dr., Hobbs, NM 88240 District II 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.

Release Notification and Corrective Action

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

Form C-141 Revised August 8, 2011

Santa Fe, NM 87505

						OPERA	ГOR		Initial	al Report	\boxtimes	Final Re	port
Name of Co	mpany: M	Iewbourne C	il Compa	any		Contact: Za	ck Thomas						
Address: PC	Box 527	0 Hobbs NM	88241				No. 575-393-590						
Facility Nar	ne: Black	Lake 5 PA S	t. Com#	1H		Facility Typ	e: Producing Oi	il Well					
Surface Ow	ner: State			Mineral O	wner:	State			API No	. 30-015-4	1124		
				LOCA	TIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County			
P	5	25S	28E	150'	South		330'	East		Eddy			
			L	atitude32.152	23553_	Longitude	104.1021419						
				NAT	URE	OF REL					00111		_
Type of Release							Release: 650 bbls			Recovered: 5		8	
Source of Re	iease: wate	riank				8-24-14	Iour of Occurrenc	e	8-24-14	Hour of Dis 8:00			
Was Immedia	ate Notice (Given?				If YES, To	Whom?	-	02111	0.00			
			Yes 🗵	No 🗌 Not Re	quired								
By Whom?						Date and H	lour						
Was a Water	course Read					If YES, Vo	olume Impacting t	he Wate	rcourse.				
		Ш	Yes 🗵	l No									
If a Watercou	rse was Im	pacted, Descr	ibe Fully.*	:									
Describe Cau	se of Proble	em and Reme	dial Action	Taken.*	-			-					-
				o run over into sec ure. Well was shu					also ran o	ver putting a	n estin	ated 100	
Describe Are	a Affected :	and Cleanup A	Action Tak	en.*						-		_	
location on N Cleanup Acti soil. All conta	ortheast sid on- All prod aminated so	le down an est duced water th il over the rer	imated 20 nat was rec nediation	containment on no 0 yards through th covered (580 bbls) limits was remove r Remediation of S	e pastu and wad d and d	re. as hauled off t lisposed at an	to a SWD. Truck a approved NMOC	and Trac	tor LLC h	as excavated	the co	ntaminated	
regulations al public health should their of or the environ	operators or the envir perations hament. In a	are required to conment. The ave failed to a	o report an acceptance dequately CD accep	nd/or file certain re se of a C-141 report investigate and re	lease n rt by th mediat	to the best of my knowledge and understand that pursuant to NMOCD rules and se notifications and perform corrective actions for releases which may endanger by the NMOCD marked as "Final Report" does not relieve the operator of liability diate contamination that pose a threat to ground water, surface water, human health art does not relieve the operator of responsibility for compliance with any other						1	
G:	3	16-	. ()				OIL CONS	SERV.	ATION	DIVISIO	N		
Signature: Printed Name	: Zack Tho	mas				Approved by	Environmental Sp	pecialist	:				
Title: Enviror						Approval Dat	e:	E	Expiration 1	Date:			
E-mail Addre	ss: zthomas	@mewbourn	e.com			Conditions of	`Approval:			Attached			
Date: 8-27-14				Phone: 575-602-2	188								
Attach Addit	ional Char	to If Magaza											

District 1
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

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

Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

						OPERA	ΓOR		Initia	al Report	\boxtimes	Fi	inal Repoi
Name of Co				any		Contact: Za							
Address: PC	Box 527	0 Hobbs NM	88241				No. 575-393-590						
Facility Nan	ne: Black	Lake 5 PA S	t. Com#	1H		Facility Typ	e: Producing Oi	il Well					
Surface Ow	ner: State			Mineral C	wner:	State			API No	. 30-015-4	1124		
				LOCA	TIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W	est Line	County			
P	5	25S	28E	150'	South		330'	East		Eddy			
			L	atitude32.152		Longitude OF REL)					
Type of Relea	ase: Produc	ed Water		TVAL	OIG	Volume of	Release: Produce	ed		Recovered:			
Source of Re	loosos Woto	" Tonk					nated 430 bbls. Iour of Occurrenc		PW(420 b	obls) Hour of Dis	coverv		
						10-13-14			10-13-14		00 pm		
Was Immedia	ate Notice (Yes 🗵	No 🗌 Not Re	quired	If YES, To Heather Pa							
By Whom? Z						Date and H			7:35 am				
Was a Watero	course Read	ched?	Yes 🗵	No		If YES, Vo	olume Impacting t	he Wate	rcourse.				
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	k									
Describe Cau	se of Probl	em and Reme	dial Action	n Taken.*									
Water transfe	r pump fail	ed causing wa	ater tanks	to run over into se	condary	y containment	. Secondary cont	ainment	also ran o	ver putting a	ın estin	nate	ed 30 bbls
on the ground	on the ground east of tanks out into the pasture. Well was shut-in up						to stop the release	e. vacut	um trucks	recovered ar	1 Stariu	ing	nuid.
Describe Are	a Affected	and Cleanup	Action Tak	ken.*									
Affected area	s- Well pac	l around tank	secondary	containment on n	ortheas	t side. Well r	ad surface in bety	veen tan	ks and wel	l head. Wat	er also	ran	off
location on N	ortheast sid	le down an es	timated 20	00 yards through tl	he pastu	neast side. Well pad surface in between tanks and well head. Water also ran off asture. as hauled off to a SWD. Truck and Tractor LLC has excavated the contaminated soil.							
				s was removed an									
				Remediation of Sp				•					
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	lete to t	he best of my	knowledge and u	nderstan	d that purs	suant to NM	OCD r	ules	s and
regulations al	l operators	are required t	o report an	nd/or file certain rece of a C-141 repo	elease n	otifications a	nd perform correc	tive action	ons for reli	eases which	may en	nda f lia	nger
should their o	or the envir	ave failed to a	acceptant adequately	investigate and re	emediat	e contaminati	on that pose a thr	eat to gr	ound water	r, surface wa	ater, hu	ıma	n health
or the environ	nment. In a	ddition, NMC	OCD accep	otance of a C-141	report d	loes not reliev	e the operator of	responsil	bility for c	ompliance v	vith an	y ot	her
federal, state,	or local lav	ws and/or regu	ılations.				OIL CON	CEDV	ATION	DIVISIO)NI		
	2	11)			OIL CON	SEIC V.	ATION	DIVISIO	<u> </u>		
Signature:	1	I ron	las	/	_		E						
Printed Name	Zack Tho	mas				Approved by	Environmental S	pecialist	:				
Title: Enviror	nmental Re	p.				Approval Da	te:	F	Expiration	Date:			
E-mail Addre	ess: zthoma:	s@mewboum	e.com			Conditions of	f Approval:			Attached			
Date: 01-14-	15			Phone: 575-602-2	2188							_	



APPENDIX C WASTE MANIFEST

LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET OKLAHOMA CITY, OK 73106

PHONE:

405-236-4257

FAX:

405-236-4261

Bill To:

RONNIE LUCAS

MEWBOURNE OIL COMPANY

P.O. BOX 5270

HOBBS, NM 88241

INVOICE # 19640

Date:

12/11/2014

Well Number:

52992000

Charge to:

Black Lake 5 PA

State Com #1 H

Date(s) of Service: 12/01/14 - 12/02/14

Manifest #:

105245, 105313

Ship Via:

Truck & Tractor

Qty	U/M	Description	Unit Price	Total
52.41	Tons	Non-regulated & non-hazardous waste (soil)	\$22.00	\$1,153.02
		Landfill located at Carlsbad, NM		
			Subtotal	\$1,153.02
TERMS:	NET 30		Sales tax rate	5.500%
			Sales tax	\$63.42
			Total	\$1,216.44

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact: Saralyn Hall at 405-519-1187 E-mail: shall119@cox.net

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	1300 WEST MAIN ST			ND, LLC A CITY, OK 73106 • F	PHONE (4	405) 236-42	257 / 1/1	レナ	Trock
NON	I-HAZARDOUS WASTE MANIF	EST NO	1	05245	1. PAG	GEOF_	2. TRAIL	ER NO.	#()
	3. COMPANY NAME	4. ADDRESS				5. P	ICK-UP DATE		
G	Mewbourne Oil PHONE NO.	701 S. Ce	cil S	t.			12/1/2014		
	PHONE NO.	CITY		STATE	2	ZIP 6. T	NRCC I.D. NO).	
E	(575) 393-5905	Hobbs		NM		240 TAINERS	9. TOTAL	10. UNIT	11. TEXAS
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	:D:			No.	Type	QUANTITY	Wt/Vol.	WASTE ID#
N	^{a.} Non-Regulated, Non Hazardous Was	te			1	СМ			
E	b.								
E,	C.								
R	d. wt: 26,740 2601	D 2	25	ULED					
	12. COMMENTS OR SPECIAL INSTRUCTIONS:			b			13. WASTE P	ROFILE N	O.
A	BLACK LAKE 5 PA STATE COM 1 I	1 -	TC	HA 78	46	D		70859	2
	14. IN CA		ERG	ENCY OR SPIL	L, CON	NTACT			
Т	Kin Slaughter	PHONE NO 575-887- 4	เกษล				24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	I Hereby declared labeled, and ar	e that e in al	l respects in proper co	ndition fo	r transport	by highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME			SIGNATURE					DATE
T	16. TRANSPORTER (1)			17.	TR	RANSPO	RTER (2)		
R A	NAME: TRUCK & TRACT	OR		NAME:					
N	TEXAS I.D. NO.			TEXAS I.D. NO.					
S P	IN CASE OF EMERGENCY CONTACT:	MATT GAN	NDI	IN CASE OF EME	RGENCY	Y CONTAC	et:		
O R	EMERGENCY PHONE: (43)	2) 238-1227		EMERGENCY PH	ONE:				
T	18. TRANSPORTER (1): Acknowledgment of	of receipt of mat	erial	19. TRANSPOI	RTER ((2): Ackno	wledgment of r	eceipt of m	aterial
E R	PRINTED/TYPED NAME SUBJY 131	ooks _		PRINTED/TYPED	NAME				
S	SIGNATURE Soly Succession	DATE	12/1	/2816NATURE				ATE	
	/	ADDRESS:					PHONE:		
D F	Lea Land, LLC	l		Marker 64, U.			0,	575-88	7-4048
I A			30 N	Iiles East of Ca	ırlsbad	, NM			
S C P I	WM-01-035 - New Mex	ico		20. COMMENTS					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v	ATION: I He	reby c	ertify that the above d	escribed	wastes were	e delivered to th	nis facility,	that the
LY	AUTHORIZED SIGNATURE			CELL NO.		DATE		TIM	ME
	1 DONG MANIO						12/1/2014	, 1/(_	0:15

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

TOP	THE ATTACKNESS OF A DESCRIPTION OF A DIFFE						muc		Tractor
101	N-HAZARDOUS WASTE MANIF	EST NO	105313	1. PA	GE	OF	2. TRAIL	ER NO.	#01
	3. COMPANY NAME	4. ADDRESS				5. PICE	C-UP DATE		
G	Mewbourne Oil	701 S. Ced	il St.			12	/2/2014		
	PHONE NO.	CITY	STATE		ZIP	6. TNR	.CC I.D. NO		
E	(575) 393-5905	Hobbs	NM	882	40				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		8. CON			. TOTAL	10. UNIT	11. TEXAS
	Alan Dagulated Nan Ulanarda in Mark			No.	Typ CN		UANTITY	Wt/Vol.	WASTE ID#
N	Non-Regulated, Non Hazardous Waste			'	Civ	1	!		
	b.		-						
E	c.				l	+			
R	wt: 2434D								
	12. COMMENTS OR SPECIAL INSTRUCTIONS:					13	. WASTE P	ROFILE NO	O.
A	BLACK LAKE 5 PA STATE COM 1 H							708592	N. W.
		SE OF EMI	ERGENCY OR SPII	LL, CO	NTAC	СТ			
T	NAME Kin Slaughter	PHONE NO 575-887-40	48				24-HOUR	EMERGE	NCY NO.

15.GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by proper 0 shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC PRINTED/TYPED NAME **SIGNATURE** DATE R 16. T TRANSPORTER (1) TRANSPORTER (2) R TRUCK & TRACTOR NAME: NAME: A N TEXAS I.D. NO. TEXAS I.D. NO. S MATT GANDI P IN CASE OF EMERGENCY CONTACT: IN CASE OF EMERGENCY CONTACT: O (432) 238-1227 EMERGENCY PHONE: R 18. TRANSPORTER (1): Acknowledgment of receipt of material 19. TRANSPORTER (2): Acknowledgment of receipt of material T \mathbf{E} PRINTED/TYPED NAME R 12/2/2014 SIGNATURE S SIGNATURE DATE ADDRESS: PHONE: Lea Land, LLC Mile Marker 64, U.S. Hwy 62/180, 575-887-4048 D F 30 Miles East of Carlsbad, NM

PERMIT NO. 20. COMMENTS WM-01-035 - New Mexico 21. DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the facility is authorized and permitted to receive such wastes. AUTHORIZED SIGNATURE CELL NO. DATE 12/2/2014 TIME

S \mathbf{C}

P I 0

S

T

TRANSPORTERS: COPIES 4 & 5

LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET OKLAHOMA CITY, OK 73106

PHONE:

405-236-4257

FAX:

405-236-4261

Bill To:

RONNIE LUCAS MEWBOURNE OIL COMPANY P.O. BOX 5270

HOBBS, NM 88241

INVOICE # 19713

Date:

12/18/2014

Well Number:

52992000

Charge to:

Black Lake 5 PA

State Com 1 H

Date(s) of Service: 12/5/2014

Manifest #:

105485

Ship Via:

Truck & Tractor

Qty	U/M	Description	Unit Price	Total
24.26	Tons	Non-regulated & non-hazardous waste (soil)	\$22.00	\$533.72
monty india, sau pere in euro sau simbolighéisin Voll eré l'évolu				
			The state of the s	
		Landfill located at Carlsbad, NM		
ng serendya gandayi serinda hindi di panjadi terindi di bahah di b	and image assemble much drive derivable world for the tri		Subtotal	\$533.72
TERMS:	NET 30		Sales tax rate	5.500%
			Sales tax	\$29.35
			Total	\$563.07

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact:

Saralyn Hall at 405-519-1187 E-mail: shall119@cox.net

Thank you for your business.

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	1300 WEST MAIN ST			IND, LLC IA CITY, OK 73106	PHONE (405) 2:	36-4257	Truc	.K.t	Tractor
NON	N-HAZARDOUS WASTE MANIF	EST	NO	105485	I. PA	GE	OF	- Wilder	ER NO.	B to produce blenching
G	3. COMPANY NAME Mewbourne Oil PHONE NO.	4. ADD 701 S CITY	RESS . Cecil S	5. PICK-UP DATE 12/5/2014 STATE ZIP 6. TNRCC I.D. NO.						
E	(575) 393-5905	Hobbs	5	NM	882	40				
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:		-	8. CON No.	TAINI Typ		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
N	Non-Regulated, Non Hazardous Wast	2			1	CN	_			
E	b. c.	40								
R	d. wt: 25240 23280						12	WASTED	ROFILE N	
A	BLACK LAKE 5 PA STATE COM 1 H		-	Tolal 1	05	nn	13.	WASTE P.	708592	
A	14. IN CA	SE OF	FMFD	GENCY OR SPIL	<u>でい</u>	VITAC	TT.	-		
Т	NAME Kin Slaughter	PHON	IE NO 187-4048		L, CO	VIAC		24-HOUR	EMERGE	NCY NO.
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled	, and are in	all respects in proper co	ondition fo	or trans	port by h	ighway acc	ording to a	pplicable
R	PRINTED/TYPED NAME			SIGNATURE						DATE
T	16. TRANSPORTER (1)			17.	TI	RANS	SPORT	ER (2)		
R A	NAME: TRUCK & TRACTO	R		NAME:						
N S	TEXAS I.D. NO.			TEXAS I.D. NO.						
P	IN CASE OF EMERGENCY CONTACT:	MATT	GANDI	IN CASE OF EMI	ERGENC'	Y CON	NTACT:			
O R	EMERGENCY PHONE: (432) 18. TRANSPORTER (1): Acknowledgment of	238-1		EMERGENCY PF 19. TRANSPO		(2)· A	cknowled	doment of r	eceint of m	naterial
T E R	0,1,0	ook	_	PRINTED/TYPE		. ,			-	
S	SIGNATURE STOP SHOWN	DATE	12/5	2014GNATURE				D	DATE	
		ADD	RESS:	<u>.</u>				PHONE:		
D F	Lea Land, LLC			le Marker 64, U Miles East of C		-			575-88	7-4048
I A S C P I	PERMIT NO. WM-01-035 - New Mex	20. COMMENTS	arisouc	4, 111	,1					
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		N: I Hereby	certify that the above	described	wastes	were del	ivered to th	nis facility,	that the
L Y	AUTHORIZED SIGNATURE ONDAN ONDAN			CELL NO.	12/9/2014				ме . 25	
						- 1			1 / 1	· /~]

LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET OKLAHOMA CITY, OK 73106

PHONE:

405-236-4257

FAX:

405-236-4261

Bill To:

RONNIE LUCAS
MEWBOURNE OIL COMPANY

P.O. BOX 5270 HOBBS, NM 88241 **INVOICE** # 19760

Date:

12/26/2014

Well Number:

52992000

Charge to:

Black Lake 5 PA

State Com #1 H

Date(s) of Service: 12/16/14 - 12/18/14

Manifest #:

See Attached List

Ship Via:

Truck & Tractor

Qty	U/M	Description	Unit Price	Total
90.74	Tons	Non-regulated & non-hazardous waste (soil)	\$22.00	\$1,996.28
		Landfill located at Carlsbad, NM		
			Subtotal	\$1,996.28

TERMS: NET 30

Sales tax rate

Sales tax

\$109.80

5.500%

Total

\$2,106.08

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact: Saralyn Hall at 405-519-1187 E-mail: shall119@cox.net

Thank you for your business

Mewbourne Oil Weights Statement - Total Received

	Manifest			
Receive Date	Number	Lease Name	Weight (lbs.)	Weight (Tons)
12/16/2014	105846	Black Lake 5 PA State Com #1 H	76,820	38.41
12/17/2014	105897	Black Lake 5 PA State Com #1 H	77,680	38.84
12/18/2014	105931	Black Lake 5 PA State Com #1 H	26,980	13.49
		TOTALS:	181,480	90.74
			lbs.	Tons

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

L	EA	LAN	ND,	LLC	
	OTET		OTTO 7	011 80106	

	1300 WEST MAIN STI	REET • C)KLAHOMA	CITY, OK 73106 • F	PHONE (405) 23	36-4257	Truc	KA	Tracto
NON	-HAZARDOUS WASTE MANIF	EST	NO 1	05846	1. PA	GE	OF	and a selection of the control of	ER NO.	
		4. ADDR	ŒSS					-UP DATE	:	
G	TICTYD GUTTIC GT		Cecil St.					8/2014		
	PHONE NO. (575) 393-5905	CITY Hobbs		STATE NM	882	ZIP 10	6. TNR	CC I.D. NO	•	
E	(3/3) 383-3803			14141						
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			No.	Тур	e QI	JANTITY	Wt/Vol.	11. TEXAS WASTE ID#
N	Non-Regulated, Non Hazardous Waste				1	СМ				
	b.									
E	c.									
	1 0				-		_			
R	M: 24740 21,060	2	Le021	D						
	12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H						13	. WASTE P	ROFILE NO 708592	0.
A	BLACK LAKE SPASIATE COM TH	-	TOH	La 710	821				100382	
	14. IN CA	SE OF	EMERG	ENCY OR SPIL	L, CO	NTAC	СТ		-11110	
T	NAME Kin Slaughter	PHON 575-88	E NO 17-4048					24-HOUR	EMERGE!	NCY NO.
	A street of the									
0	15.GENERATOR'S CERTIFICATION: Shipping name and are classified, packed, marked, and	d labeled,	and are in all	l respects in proper co	ondition for	or trans	port by l	nighway acc	ording to a	pplicable
	international and national government regulations, in	cluding ap	pplicable stat	e regulations, and are	the same	mater	ials prev	iously appro	oved by LE	A LAND, LLC
R	PRINTED/TYPED NAME			SIGNATURE						DATE
T R	16. TRANSPORTER (1)			17. TRANSPORTER (2)						
A	NAME: TRUCK & TRACTOR	₹		NAME:						
N	TEXAS I.D. NO.			TEXAS I.D. NO.						
S P	IN CASE OF EMERGENCY CONTACT:	AATT G	ANDI	IN CASE OF EME	ERGENC	Y CON	TACT:			
0	EMERGENCY PHONE: (432)	238-12	27	EMERGENCY PHONE:						
R T	18. TRANSPORTER (1): Acknowledgment of	of receipt	of material	19. TRANSPO		(2): A	cknowle	dgment of r	eceipt of m	aterial
E	PRINTED/TYPED NAME BOOK BY	60 K	5	PRINTED/TYPEI	O NAME					
R	All Ind									
	SIGNATURE SIGNATURE	*DATE		D14 SIGNATURE				D	ATE	
	I as I as d I I C	ADDI		N. 1	0.11	(0	/1.00	PHONE:	555.00	7 40 40
D F	Lea Land, LLC			Marker 64, U.		-			5/5-88	7-4048
I A	PERMIT NO.		30 IV	files East of Care 20. COMMENTS	arisbac	u, ININ	/1			
S C P I	WM-01-035 - New Mex	ico		20. COMMENTS						
O L	21 DISPOSAL FACILITY'S CEPTIFIC	ATION	I o I II a a base a		414			.15	.i. C1114	41 - 441 -
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such w		i. I Hereby c	ernry that the above of	uescribed	wastes	were de	nivered to th	nis racility,	that the
L Y	AUTHORIZED SIGNATURE			CELL NO.		I	DATE 14	6/2014	TI	ME
	MARON MANOREDO	12							11	D'00
GENER	ATOR: COPIES 1 & 6	DISI	POSAL SITE	E: COPIES 2 & 3				TRANSF	ORTERS:	COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	1300 WEST MAIN ST			ND, LLC IA CITY, OK 73106 •	PHONE (405) 236-42	257 TVUC	Kd.	Trantar
NON	N-HAZARDOUS WASTE MANIF	EST	NO	105897	1. PA	GEOF_	100		#01
G	3. COMPANY NAME Mewbourne Oil PHONE NO.	4. ADD 701 S . CITY	RESS . Cecil St	:. STATE		12	ICK-UP DATE 2/17/2014 NRCC I.D. NO		
E	(575) 393-5905	Hobbs		NM	40			L. TRIVA	
N	7. NAME OR DESCRIPTION OF WASTE SHIPPE				No.	Type CM	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #
E	b. c.		4 - 2 - 11 - 12						
R	wt: 2(0,340 2541	00	25	581.TD	<u> </u>				
A	12. COMMENTS OR SPECIAL INSTRUCTIONS BLACK LAKE 5 PA STATE COM 1 H			TOTAL T	745	20	13. WASTE P	ROFILE N 708592	O.
Т	14. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO. Kin Slaughter 575-887-4048								
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, ar international and national government regulations, in	nd labeled	, and are in	all respects in proper co	ondition fo	or transport	by highway acc	ording to a	pplicable
R	PRINTED/TYPED NAME			SIGNATURE					DATE
T R A N S P	IN CASE OF EMERGENCY CONTACT.	PR MATT (17. NAME: TEXAS I.D. NO. IN CASE OF EM. EMERGENCY PI	ERGENC		RTER (2)		
R T E R S	18. TRANSPORTER (1): Acknowledgment	of receipt	5	19. TRANSPO PRINTED/TYPE	DRTER			-	
D F	Lea Land, LLC	ADD		le Marker 64, U Miles East of C		-	0, PHONE:	575-88	37-4048
S C P I O L	PERMIT NO. WM-01-035 - New Mex			20. COMMENTS					
S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		N: I Hereby	certify that the above	described	wastes were	e delivered to th	is facility,	that the
L Y	AUTHORIZED SIGNATURE ONE OF THE STATE OF TH	Des		CELL NO.		DATE	2/17/2014	TI	ме D:45
GENER	ATOR: COPIES I & 6	DIS	POSAL SI	TE: COPIES 2 & 3			TRANSP	ORTERS:	COPIES 4 & 5

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

	LEA LAND, LLC									
	1300 WEST MAIN ST	REET • OKLAHO	MA CITY, OK 73106 •	PHONE (405) 236-42	Truc	k&	Tractor		
NON	I-HAZARDOUS WASTE MANIF	EST NO	105931	1. PA	GEOF_	2. TRAII	ER NO.	*D1		
G	3. COMPANY NAME	4. ADDRESS		5. PICK-UP DATE						
	Mewbourne Oil PHONE NO.	701 S. Cecil S	STATE	12/18/2014 ZIP 6, TNRCC I.D. NO.						
	(575) 393-5905	Hobbs	NM	882						
ו ו	7. NAME OR DESCRIPTION OF WASTE SHIPPE		14141		TAINERS Type	9. TOTAL QUANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #		
N				1	СМ	QUARTITI	W U VOI.	WASTE ID#		
	b.			ļ ·	O.V.					
E	С.		31-31-31	-						
	c.									
R	wt: 210980									
	12. COMMENTS OR SPECIAL INSTRUCTIONS:	:				13. WASTE P	ROFILE N	O.		
A	BLACK LAKE 5 PA STATE COM 1 H						708592			
			RGENCY OR SPI	LL, CO	NTACT					
T	NAME Kin Slaughter	PHONE NO 575-887-404 8	•			24-HOUR	EMERGE	NCY NO.		
О	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, ar international and national government regulations, in	I Hereby declare to all labeled, and are in	nat the contents of this on all respects in proper of	condition for	or transport	by highway acc	cording to a	pplicable		
	PRINTED/TYPED NAME	nerdding appricaoic	SIGNATURE	to the sum	- materials		Oved by EE	DATE		
R	TRIVIES/TITES IVANE		Sidivarole					DATE		
T	16. TRANSPORTER (1)	_	17. TRANSPORTER (2)							
R A	NAME: TRUCK & TRACTO)B	NAME:							
\mathbf{N}	TEXAS I.D. NO.	/13	TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:	MATT GANDI	IN CASE OF EMERGENCY CONTACT:							
0	EMERGENCY PHONE: (432)	238-1227	EMERGENCY P	EMERGENCY PHONE:						
R T	18. TRANSPORTER (1): Acknowledgment	of receipt of mater	al 19. TRANSPO	ORTER	(2): Ackno	owledgment of	receipt of m	naterial		
E R	PRINTED/TYPED NAME DC bby 13	190/5	PRINTED/TYPE	ED NAME						
S	SIGNATURE SOLD SEV	S ATE 12/1	8/20131GNATURE_				DATE			
	7	ADDRESS:	-			PHONE:				
D F	Lea Land, LLC		lile Marker 64, U		•	80,	575-88	37-4048		
I A	PERMIT NO.	31	Miles East of C	arisba	a, NIVI					
S C P I	WM-01-035 - New Mex	xico	20. COMMENTS							
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such		by certify that the above	described	wastes wer	e delivered to t	his facility,	that the		
L Y	AUTHORIZED SIGNATURE	7	CELL NO.		DAT		Ţ	ME		
	IMATON () NASAL	12/2				12/18/2014	19	25		

GENERATOR: COPIES 1 & 6

LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET OKLAHOMA CITY, OK 73106

PHONE:

405-236-4257

FAX:

405-236-4261

Bill To:

RONNIE LUCAS MEWBOURNE OIL COMPANY P.O. BOX 5270

HOBBS, NM 88241

INVOICE # 19582

Date:

12/4/2014

Well Number:

52992000

Charge to:

Black Lake 5 PA

State Com 1 H

Date(s) of Service: 11/21/14 - 11/26/14

Manifest #:

104990, 105220

Ship Via:

Truck & Tractor

Qty	U/M	Description	Unit Price	Total
39.30	Tons	Non-regulated & non-hazardous waste (soil)	\$22.00	\$864.60
		Landfill located at Carlsbad, NM		
		The second secon	Subtotal	\$864.60

TERMS: NET 30

Sales tax rate
Sales tax

Total

\$864.60 5.500% \$47.55 **\$912.15**

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact: Saralyn Hall at 405-519-1187 E-mail: shall119@cox.net

Thank you for your business!

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

	1300 WEST MAIN ST	TREET • 0	OKLAHOMA	A CITY, OK 73106 • 1	PHONE ((405) 2.	36-4257	Iru	CK+	-racti	
NON	N-HAZARDOUS WASTE MANIF	EST	NO 1	04990	1. PA	GE	OF	2. TRAIL	ER NO.	#01	
	3. COMPANY NAME	4. ADDI	RESS	_	5. PICK-UP DATE						
G	Mewbourne Oil	701 S.	Cecil St.		11/21/2014						
	PHONE NO.	CITY		STATE	ZIP 6. TNRCC I.D. NO.						
E	(575) 393-5905	Hobbs		NM	88240						
	7. NAME OR DESCRIPTION OF WASTE SHIPPE	ED:			8. CON No.	TAINE I Typ		TOTAL ANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	Ñon-Regulated, Non Hazardous Waste	₽			1	CM					
	b.										
E	c.				†						
R	d. 28,020. 24										
	12. COMMENTS OR SPECIAL INSTRUCTIONS:				-		13.		ROFILE N	O.	
A	BLACK LAKE 5 PA STATE COM 1 H	2014	1-	52.7	20) .			708592		
				ENCY OR SPIL	L, CO	NTAC	T				
T	NAME Kin Slaughter	PHON 575-88	E NO 37-4048					24-HOUR	EMERGE:	NCY NO.	
0	15. GENERATOR'S CERTIFICATION: I Hereby declare that the contents of this consignment are fully and accurately described above by prop shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LL									pplicable	
R	PRINTED/TYPED NAME			SIGNATURE					1	DATE	
T	16. TRANSPORTER (1)			17.	TI	RANS	PORT	ER (2)			
R A	NAME: TRUCK & TRACTO	R		NAME:							
N	TEXAS I.D. NO.			TEXAS I.D. NO.							
S P	IN CASE OF EMERGENCY CONTACT:	MATT (BANDI	IN CASE OF EMI	IERGENCY CONTACT:						
0	EMERGENCY PHONE: (432)	238-12	227	EMERGENCY PH	IONE:						
R T	18. TRANSPORTER (1): Acknowledgment	of receipt	of material	19. TRANSPO	RTER	(2): A	cknowled	lgment of r	eceipt of m	aterial	
E R	PRINTED/TYPED NAME X 3000Y	3100	K	PRINTED/TYPEI	O NAME						
S	SIGNATURE SOME SIGNATURE	/DATE	11/21/2	014GNATURE				D	DATE	<u> </u>	
		ADDI	RESS:			*		PHONE:			
D F	Lea Land, LLC			Marker 64, Uliles East of C		-			575-88	7-4048	
I A	PERMIT NO.		30 N	20. COMMENTS	arisuac	1, 1NIV	/1				
S C P I	WM-01-035 - New Mex	kico		20. COMMENTS							
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		: I Hereby o	ertify that the above	described	wastes	were del	ivered to th	nis facility,	that the	
L Y	AUTHORIZED SIGNATURE			CELL NO.		, [DATE	4 (0044	TIN	ME	
	Donnachwing						71/2	1/2014	1) 1.	25	

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

	1300 WEST MAIN ST	REET • OKLAHOMA	A CITY, OK 73106 • F	PHONE (4	105) 236-	4257 J V	UCK.	+ Ira	
NON	I-HAZARDOUS WASTE MANIF	EST NO 1	05220	1. PAG	GEOI	2. TRA	iler no. 🕇	1.01	
G	3. COMPANY NAME Mewbourne Oil	4. ADDRESS 701 S. Cecil St.				PICK-UP DAT 11/26/2014	Έ		
G	PHONE NO.	CITY	STATE	:	_	TNRCC I.D. N	0		
E	(575) 393-5905	Hobbs	NM	882		1111100110111			
Ŀ	7. NAME OR DESCRIPTION OF WASTE SHIPPE	D:			TAINERS		10. UNIT	11. TEXAS	
N	Non-Regulated, Non Hazardous Waste		<u> </u>	No.	Type CM	QUANTITY	Wt/Vol.	WASTE ID #	
	b.								
E	1					ļ		,	
	c.								
R	Ht: 25,880.								
	12. COMMENTS OR SPECIAL INSTRUCTIONS: BLACK LAKE 5 PA STATE COM 1 H					13. WASTE	PROFILE N 708592		
A	SEAST CON THE						100002		
	14. IN CA	SE OF EMERG	ENCY OR SPIL	L, CON	NTACT				
Т	NAME Kin Slaughter	PHONE NO 575-887-4048				24-HOU	R EMERGE	NCY NO.	
0	15.GENERATOR'S CERTIFICATION: shipping name and are classified, packed, marked, an international and national government regulations, in	d labeled, and are in al	I respects in proper co	ndition fo	r transpo	rt by highway a	ccording to a	pplicable	
R	PRINTED/TYPED NAME		SIGNATURE					DATE	
Т	16. TRANSPORTER (1)		17.	TR	RANSP	ORTER (2)			
R	NAME: TRUCK & TRACTO	R	NAME:			,		1 pr 11	
A N	TEXAS I.D. NO.		TEXAS I.D. NO.						
S		MATT GANDI	IN CASE OF EMERGENCY CONTACT:						
P O	IN CASE OF EMERGENCY CONTACT:	238-1227			Y CONTA	ACI:			
R	EMERGENCY PHONE: (432) 18. TRANSPORTER (1): Acknowledgment of		19. TRANSPO		(2): Ack	nowledgment o	f receipt of m	naterial	
T E	PRINTED/TYPED NAME BOOK TO	cox	PRINTED/TYPED						
R S	1.0.11	7	014 SIGNATURE	0.7					
	SIGNATURE OF MOULE		SIGNATURE			ı	DATE		
	Lea Land, LLC	ADDRESS:	Marker 64, U.	с ц.,,	v. 60/1	PHONE		37-4048	
D F	Lea Land, LLC		Miles East of Ca		-	00,	3/3-00	0/-4040	
I A S C	PERMIT NO.	30 1	20. COMMENTS	urisouc	5 1 1111		0.00		
P I	WM-01-035 - New Mex	ico							
O L S I A T	21.DISPOSAL FACILITY'S CERTIFIC facility is authorized and permitted to receive such v		ertify that the above of	described	wastes w	ere delivered to	this facility,	that the	
LY	AUTHORIZED SIGNATURE		CELL NO.		DA		TI	ME	
	1) Dona Churo.					(1120/2019	2	· Ø-	

LEA LAND, LLC

OIL FIELD WASTE LANDFILL

1300 W. MAIN STREET OKLAHOMA CITY, OK 73106

PHONE:

405-236-4257

FAX:

405-236-4261

Bill To:

RONNIE LUCAS

MEWBOURNE OIL COMPANY

P.O. BOX 5270

HOBBS, NM 88241

INVOICE # 19533

Date:

11/26/2014

Well Number:

52992000

Charge to:

Black Lake 5 PA

State Com 1 H

Date(s) of Service: 11/20/2014

Manifest #:

104922

Ship Via:

Truck & Tractor

Qty	U/M	Description	Unit Price	Total
27.75	Tons	Non-regulated & non-hazardous waste (soil)	\$22.00	\$610.50
		Landfill located at Carlsbad, NM		
			Subtotal	\$610.50
TERMS:	NET 30		Sales tax rate	5.500%

Sales tax

Total \$644.08

\$33.58

Make all checks payable to LEA LAND, LLC

If you have any questions concerning this invoice, please contact: Saralyn Hall at 405-519-1187 E-mail: shall119@cox.net

MILE MARKER #64 US HWY 62/180 • 30 MILES EAST OF CARLSBAD, NM • PHONE (575) 887-4048

LEA LAND, LLC

1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257 MUCK + trace											
NON-HAZARDOUS WASTE MANIFEST NO 104922					1. PA	1. PAGEOF 2. TRAILER NO. #					
-	3. COMPANY NAME				5. PICK	ICK-UP DATE					
G	lewbourne Oil 701 S. Cedil St.				11/20/2014						
	PHONE NO.	CITY STATE				ZIP 6. TNRCC I.D. NO.					
E	(575) 393-5905	Hobbs	NM	882	40						
	7. NAME OR DESCRIPTION OF WASTE SHIPPED:				8. CON No.	TAINE Typ		TOTAL JANTITY	10. UNIT Wt/Vol.	11. TEXAS WASTE ID #	
N	Non-Regulated, Non Hazardous Waste	2			1	CN	1				
	b.										
E	c.						-				
R	wt: 28,020 27										
	12. COMMENTS OR SPECIAL INSTRUCTIONS:						13.	13. WASTE PROFILE NO. 708592			
A	BLACK LAKE 5 PA STATE COM 1 H							/08982			
	14. IN CA	ASE OF E	EMERG	ENCY OR SPIL	L. CO	V NTA(СТ	•			
T	IA. IN CASE OF EMERGENCY OR SPILL, CONTACT NAME PHONE NO 24-HOUR EMERGENCY NO.										
1	Kin Slaughter 575-887-4048										
0	15.GENERATOR'S CERTIFICATION: 1 Hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations, including applicable state regulations, and are the same materials previously approved by LEA LAND, LLC										
R	PRINTED/TYPED NAME			SIGNATURE						DATE	
T	16. TRANSPORTER (1)			17. TRANSPORTER (2)							
R A	NAME: TRUCK & TRACTOR			NAME:							
N	TEXAS I.D. NO.			TEXAS I.D. NO.							
S P	MATT CANDI				N CASE OF EMERGENCY CONTACT:						
O	EMERGENCY PHONE: (432) 238-1227 EMERGENCY P					HONE					
R						RTER (2): Acknowledgment of receipt of material					
T E R	13 Du Dunks					D NAME					
S	SIGNATURE 11/20/2014 GNATURE				DATE						
		ADDRE	ESS:					PHONE:	-		
D F I A S C P I O L S I A T L Y	Lea Land, LLC		Mile	Marker 64, U.	S. Hw	v 62	/180.		575-88	7-4048	
	·			files East of Carlsbad, NM							
	PERMIT NO. 20. COMMENTS					-,					
	WM-01-035 - New Mexico										
	21.DISPOSAL FACILITY'S CERTIFICATION: I Hereby certify that the above described wastes were delivered to this facility, that the										
	facility is authorized and permitted to receive such wastes.										
	AUTHORIZED SIGNATURE			CELL NO.	-]	DATE 11/2	20/2014	TH	ME _	
	Donnachund						1 174			.10.	



APPENDIX D PHOTO GALLERY



Affected pasture before excavation taken on 10/02/14



Excavation in pasture taken on 11/26/14



Pasture after excavation taken on 12/12/14



Pasture behind tank battery taken on 12/12/14