Basin Environmental Service Technologies, LLC

3100 Plains Highway P. O. Box 301 Lovington, New Mexico 88260

bjarguijo@basinenv.com

Office: (575) 396-2378 Fax: (575) 396-1429



REMEDIATION SUMMARY & RISK-BASED SITE CLOSURE PROPOSAL

FASKEN OIL & RANCH, LTD. LING FEDERAL #2

Lea County, New Mexico Unit Letter "L" (NW/SW), Section 31, Township 19 South, Range 34 East Latitude 32.614774° North, Longitude -103.605973° West NMOCD Reference #1RP-3495

Prepared For:

Fasken Oil & Ranch, Ltd. 303 West Wall, Suite 1800 Midland, TX 79701

Prepared By:

Basin Environmental Service Technologies, LLC 3100 Plains Highway Lovington, NM 88260

March 2015

Ben J. Arguijo Project Manager

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1.0 INTRODUCTION & BACKGROUND INFORMATION

Basin Environmental Service Technologies, LLC (Basin Environmental), on behalf of Fasken Oil & Ranch, Ltd. (Fasken), has prepared this *Remediation Summary & Risk-Based Site Closure Proposal* for the release site known as Ling Federal #2. The legal description of the release site is Unit Letter "L" (NW/SW), Section 31, Township 19 South, Range 34 East in Lea County, New Mexico. The geographic coordinates of the release site are 32.614774° North latitude and 103.605973° West longitude. The property affected by the release is owned by the United States Department of the Interior – Bureau of Land Management (BLM). Please reference Figure 1 for a "Site Location Map".

On January 5, 2015, Fasken discovered a release had occurred at the Ling Federal #2 tank battery. A pipe between the on-site oil and water tanks burst, resulting in a release of approximately one hundred and eighty-six barrels (186 bbls) of condensate. The release was attributed to inclement weather. During initial response activities, the damaged pipe was replaced, and a vacuum truck was utilized to recover free-standing liquid.

The release was reported to the New Mexico Oil Conservation Division's (NMOCD) Hobbs District Office on January 6, 2015. The "Release Notification and Corrective Action" (Form C-141) indicated approximately five barrels of the released liquid were recovered, resulting in a net loss of approximately one hundred and eighty-one barrels (181 bbls) of condensate. The release impacted an area of the tank battery pad and adjacent pastureland measuring approximately three thousand, one hundred square feet (3,100 ft²).

The Form C-141 is provided as Appendix A. General photographs of the release site are provided as Appendix B.

2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Water Rights Reporting System (NMWRRS) database maintained by the New Mexico Office of the State Engineer (NMOSE) indicated information was unavailable for the southwest quarter of Section 31, Township 19 South, Range 34 East. A depth-to-groundwater reference map utilized by the NMOCD indicates groundwater should be encountered approximately seventy-five feet (75') below ground surface (bgs). Based on the NMOCD ranking system, ten (10) points will be assigned to the site as a result of this criterion.

A search of the NMWRRS database indicated there are no domestic water wells within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

There are no surface water bodies within one thousand feet (1,000') of the release. Based on the NMOCD ranking system, zero (0) points will be assigned to the site as a result of this criterion.

NMOCD guidelines indicate the Ling Federal #2 release site has an initial ranking score of ten (10) points. The soil remediation levels for a site with a ranking score of ten (10) points are as follows:

- Benzene 10 mg/kg (ppm)
- Benzene, toluene, ethylbenzene, and total xylene (BTEX) 50 mg/kg (ppm)
- Total petroleum hydrocarbons (TPH) 1,000 mg/kg (ppm)

The New Mexico Administrative Code (NMAC) does not currently specify a remediation level for chloride concentrations in soil. Chloride remediation levels are set by the NMOCD on a site-specific basis.

3.0 SUMMARY OF SOIL REMEDIATION ACTIVITIES

On January 14, 2015, Basin Environmental conducted delineation activities at the site. A series of five (5) hand-augered soil borings (HA-1 through HA-5) were advanced along the flow path and in pooling areas of the release in an effort to determine the vertical and horizontal extent of impacted soil. The soil borings were advanced in one (1) to two-foot (2') vertical intervals, and core soil samples were field-screened with a photo-ionization detector (PID) and/or chloride test kit. Selected soil samples were submitted to Cardinal Laboratories in Hobbs, New Mexico, for analysis of TPH, BTEX, and/or chloride concentrations in accordance with the Environmental Protection Agency (EPA) laboratory analytical methods described in Section 4.1 below. Locations of the hand-augered soil borings are depicted in Figure 2, "Site & Sample Location Map". Table 1 summarizes the "Concentrations of Benzene, BTEX, TPH & Chloride in Soil". Field-test results are summarized in Table 2. Laboratory analytical reports are provided as Appendix C.

Soil boring HA-1 was advanced in an inferred pooling area on the caliche pad to the east of the Ling Federal #2 tank battery. The soil boring was advanced to a total depth of approximately nine feet (9') bgs. Four (4) confirmation soil samples (HA-1 @ Surface, HA-1 @ 4', HA-1 @ 6', and HA-1 @ 9') were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory method detection limit (MDL) in all submitted soil samples. Total BTEX concentrations ranged from less than the appropriate laboratory MDL in soil samples HA-1 @ 4' and HA-1 @ 6' to 196 mg/kg in soil sample HA-1 @ Surface. TPH concentrations ranged from less than the laboratory MDL in soil samples HA-1 @ 6' to 5,231 mg/kg in soil sample HA-1 @ Surface. Chloride concentrations ranged from less than the laboratory MDL in soil samples HA-1 @ Surface and HA-1 @ 4' to 48.0 mg/kg in soil sample HA-1 @ 9'.

Soil boring HA-2 was advanced in pastureland to the east of the Ling Federal #2 tank battery, at the terminus of a secondary flow path of the release. The soil boring was advanced to a total depth of approximately nine feet (9') bgs. Five (5) confirmation soil samples (HA-2 @ Surface, HA-2 @ 4', HA-2 @ 6', HA-2 @ 8', and HA-2 @ 9') were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated benzene and total BTEX concentrations were less than the appropriate laboratory MDL in all submitted soil samples, with the exception of soil sample HA-2 @ Surface, which exhibited a total BTEX concentration of 330 mg/kg. TPH concentrations ranged from less than the laboratory MDL in soil samples HA-2 @ 6', HA-2 @ 8', and HA-2 @ 9' to 11,907 mg/kg in soil sample HA-2 @ Surface. Chloride concentrations were less than the laboratory MDL in all submitted soil samples.

Soil boring HA-3 was advanced in pastureland to the south of the Ling Federal #2 tank battery, along the primary flow path of the release. The soil boring was advanced to a total depth of

approximately seven and one-half feet (7.5') bgs. Four (4) confirmation soil samples (HA-3 @ Surface, HA-3 @ 4', HA-3 @ 6', and HA-3 @ 7.5') were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory MDL in all submitted soil samples. Total BTEX concentrations ranged from 11.5 mg/kg in soil sample HA-3 @ 6' to 622 mg/kg in soil sample HA-3 @ Surface. TPH concentrations ranged from 938 mg/kg in soil sample HA-3 @ 6' to 18,660 mg/kg in soil sample HA-3 @ Surface. Chloride concentrations ranged from 48.0 mg/kg in soil sample HA-3 @ 4' to 208 mg/kg in soil sample HA-3 @ Surface.

Soil boring HA-4 was advanced in pastureland to the south of the Ling Federal #2 tank battery, at the terminus of the primary flow path of the release. The soil boring was advanced to a total depth of approximately seven feet (7') bgs. Four (4) confirmation soil samples (HA-4 @ Surface, HA-4 @ 4', HA-4 @ 6', and HA-4 @ 7') were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated benzene concentrations were less than the laboratory MDL in all submitted soil samples. Total BTEX concentrations ranged from 90.4 mg/kg in soil sample HA-4 @ 4' to 864 mg/kg in soil sample HA-4 @ Surface. TPH concentrations ranged from 1,419 mg/kg in soil sample HA-4 @ 4' to 24,370 mg/kg in soil sample HA-4 @ Surface. Chloride concentrations ranged from less than the laboratory MDL in soil samples HA-4 @ 4' and HA-4 @ 7' to 144 mg/kg in soil sample HA-4 @ Surface.

Soil boring HA-5 was advanced on the caliche pad to the south of the Ling Federal #2 tank battery, near the point of release. The soil boring was advanced to a total depth of approximately eight feet (8') bgs. Four (4) confirmation soil samples (HA-5 @ Surface, HA-5 @ 4', HA-5 @ 6', and HA-5 @ 8') were submitted to the laboratory for analysis of BTEX, TPH, and/or chloride concentrations. Laboratory analytical results indicated benzene and total BTEX concentrations were less than the laboratory MDL in all submitted soil samples, with the exception of soil sample HA-5 @ Surface, which exhibited a total BTEX concentration of 254 mg/kg. TPH concentrations ranged from less than the laboratory MDL in soil sample HA-5 @ 6' to 8,222 mg/kg in soil sample HA-5 @ Surface. Chloride concentrations ranged from 192 mg/kg in soil sample HA-5 @ 8' to 832 mg/kg in soil sample HA-5 @ Surface.

Following advancement of the soil borings, one (1) soil sample (Background) was collected approximately two hundred and fifty feet (250') south-southeast of the release site to assess the background concentrations of BTEX, TPH, and chloride in the area. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations in the background sample were less than the appropriate laboratory MDL.

Review of laboratory analytical results indicates additional vertical delineation is required in the areas represented by soil borings HA-3 and HA-4.

4.0 QUALITY ASSURANCE/QUALITY CONTROL (QA/QC) PROCEDURES

4.1 Soil Sampling

Soil samples were delivered to Cardinal Laboratories in Hobbs, New Mexico, for BTEX, TPH, and/or chloride analyses using the methods described below:

- BTEX concentrations in accordance with EPA Method SW-846 8021b
- TPH concentrations in accordance with modified EPA Method SW-846 8015M
- Chloride concentrations in accordance with EPA Method SM 4500 Cl-B

4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form(s). These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 PROPOSED ACTIVITIES

Fasken proposes to conduct the following activities to progress the Ling Federal #2 release site to an NMOCD- and BLM-approved, risk-based closure:

- Delineation trenches will be advanced to the extent practicable in the areas represented by hand-augered soil borings HA-3 and HA-4 to further delineate the vertical extent of impacted soil. Soil samples will be collected at one (1) to two-foot (2') vertical intervals and field-screened with a PID. Representative soil samples will be submitted to Cardinal Laboratory for confirmatory analyses of BTEX, TPH, and/or chloride concentrations using the EPA laboratory analytical methods described in Section 4.1 above.
- If vertical delineation cannot be achieved via trenching, a drilling rig will be employed to advance one (1) soil boring (SB-1) in the area of hand-augered soil boring HA-4. Soil samples will be collected at five-foot (5') drilling intervals and field-screened with a PID. Representative soil samples will be submitted to Cardinal Laboratory for confirmatory analyses of BTEX, TPH, and/or chloride concentrations using the EPA laboratory analytical methods described in Section 4.1 above.
- Heavily impacted, visibly stained soil on the caliche pad surrounding the Ling Federal #2 tank battery will be scraped up and stockpiled on-site on six-millimeter (6mm) polypropylene plastic, pending final disposition.
- The areas represented by hand-augered soil borings HA-2, HA-3, and HA-4 will be excavated until laboratory analytical results indicate contaminants of concern are below the recommended remediation action levels (RRALs) established for the site by the NMOCD, or to a maximum depth of five feet (5') bgs. The horizontal limits of the excavations will be determined by field-screening using a PID and/or visual/olfactory senses. Confirmation soil samples will be collected at approximately fifty-foot (50') horizontal increments and submitted to Cardinal Laboratory for analysis of BTEX, TPH, and/or chloride concentrations.

- Due to safety and environmental concerns, excavation of the secondary flow path (i.e., the area represented by hand-augered soil boring HA-2) will be limited by the presence of active pipelines adjacent to the release site. In addition, all open excavations will be fenced off during periods of inactivity to prevent injury to oilfield personnel, livestock, and wildlife.
- Excavated soil will be stockpiled on-site on six-millimeter (6mm) polypropylene plastic, pending final disposition. Visibly stained soil and soil exhibiting chloride concentrations over 500 mg/kg and/or TPH concentrations over 5,000 mg/kg will be transported to Lazy Ace Landfarm, LLC (NMOCD Permit # WM-01-041) for disposal. Lesser impacted soil (as determined by visual/olfactory senses, laboratory analytical results, and/or PID readings) will be remediated on-site. Impacted material will be blended with non-impacted material, treated with a water/fertilizer mix, and aerated to facilitate attenuation and offgassing of contaminants. One (1) stockpile soil sample will be collected for every five hundred cubic yards (500 yd³) of treated soil and submitted to Cardinal Laboratory for analysis of BTEX, TPH, and/or chloride concentrations. When laboratory analytical results indicate contaminant concentrations are below the RRALs established for the site by the NMOCD, the blended/treated soil will be used as backfill material.
- The excavations will be backfilled with the blended/treated soil and approximately two feet (2') of compacted caliche. The compacted caliche will serve to inhibit vertical migration of contaminants left in-situ. Clean, locally acquired topsoil will be installed atop the backfilled excavations and contoured to fit the surrounding topography.
- Disturbed areas in the pastureland adjacent to the Ling Federal #2 tank battery will be seeded with a BLM-approved seed mix at a time conducive to germination.

6.0 REPORTING

Pending review and approval by the NMOCD and BLM, Fasken is prepared to begin field activities and perform the corrective actions summarized in this *Remediation Summary & Risk-Based Site Closure Proposal*. Upon completion of the corrective actions, Fasken will submit a *Remediation Summary & Risk-Based Site Closure Request* to the NMOCD and BLM, documenting remediation activities and results of confirmation soil samples.

7.0 LIMITATIONS

Basin Environmental Service Technologies, LLC, has prepared this *Remediation Summary & Risk-Based Site Closure Proposal* to the best of its ability. No other warranty, expressed or implied, is made or intended. Basin Environmental has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Basin Environmental has not conducted an independent examination of the facts contained in referenced materials and statements. Basin Environmental has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Basin Environmental has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Fasken Oil & Ranch, Ltd. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Service Technologies, LLC, and/or Fasken Oil & Ranch, Ltd.

8.0 DISTRIBUTION:

Copy 1: Tomas Oberding

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division (District 1)

1625 N. French Dr. Hobbs, NM 88240

Copy 2: Jeff Robertson

United States Department of the Interior

Bureau of Land Management

602 E. Greene Street Carlsbad, NM 88220

Copy 3: Aaron Pachlhofer

Fasken Oil & Ranch, Ltd. 6101 Holiday Hill Road Midland, TX 79707

Copy 4: Jimmy Carlile

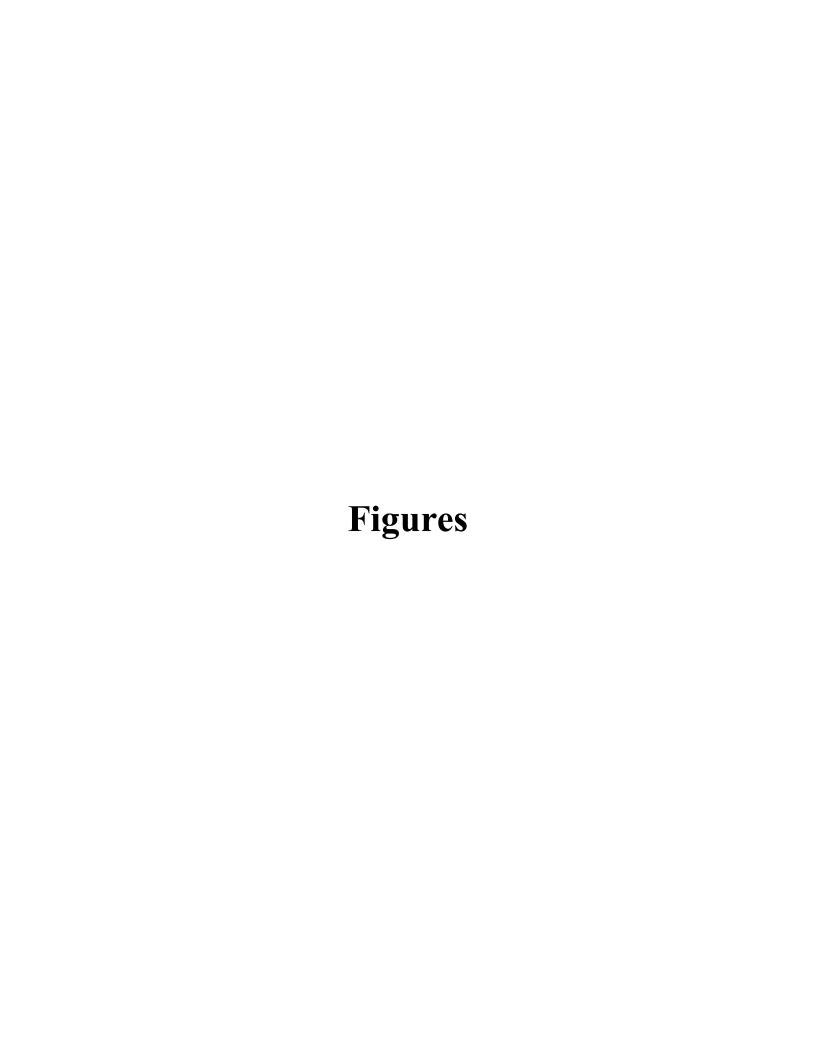
Fasken Oil & Ranch, Ltd. 303 West Wall, Suite 1800

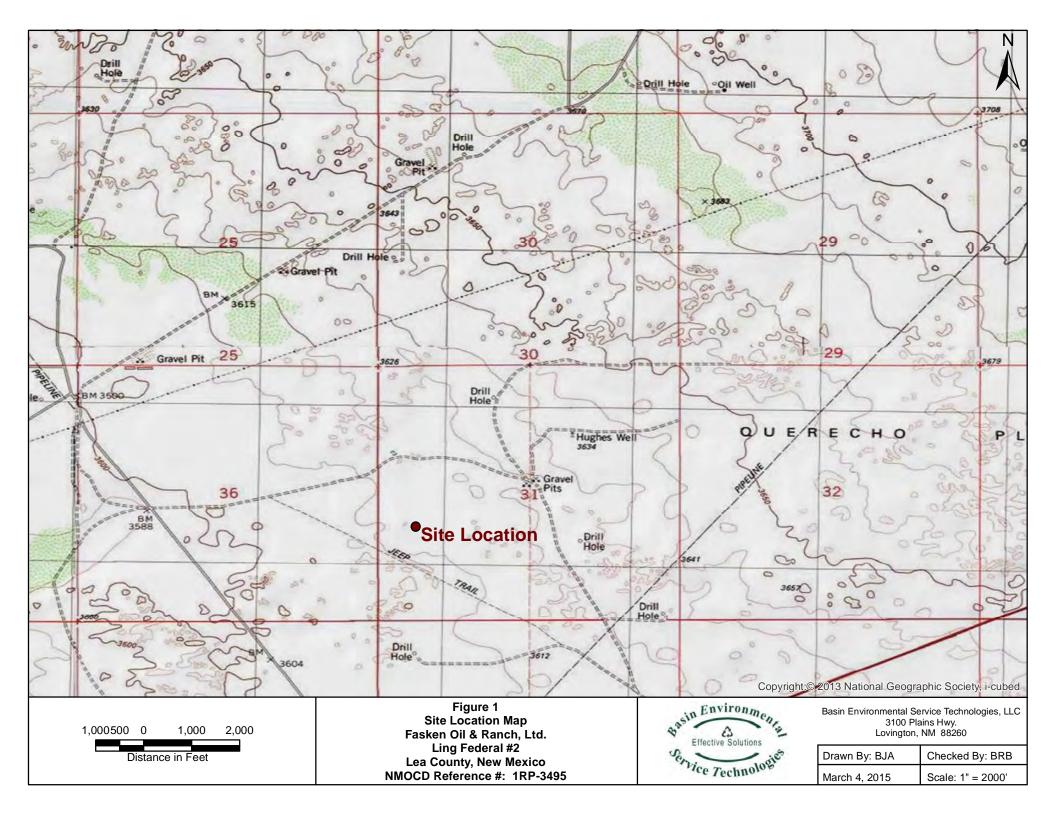
Midland, TX 79701

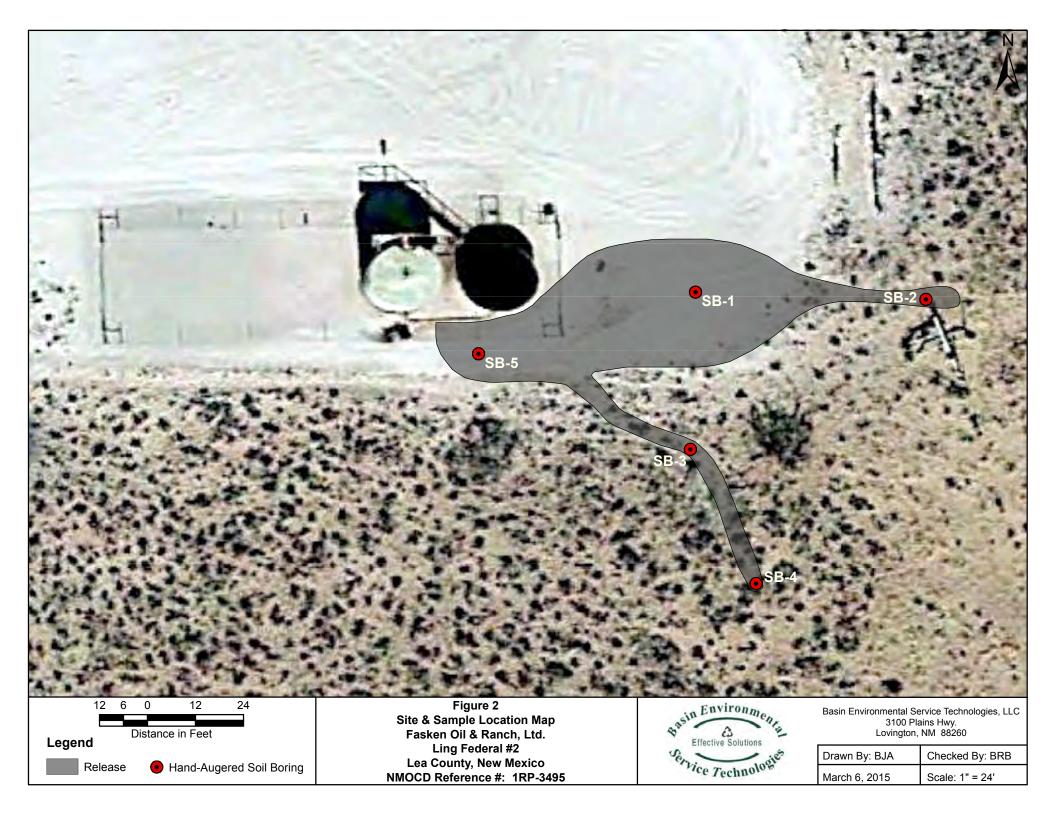
Copy 5: Basin Environmental Service Technologies, LLC

P.O. Box 301

Lovington, NM 88260







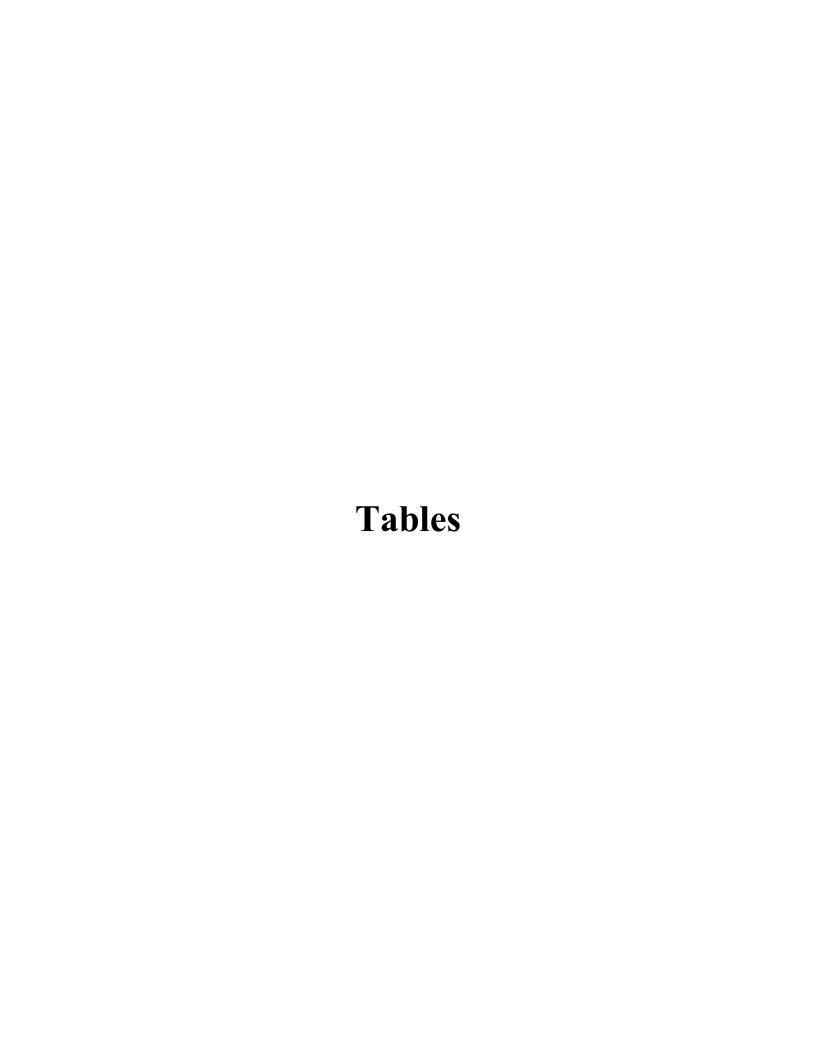


TABLE 1 CONCENTRATIONS OF BENZENE, BTEX, TPH & CHLORIDE IN SOIL

FASKEN OIL & RANCH, LTD. LING FEDERAL #2 LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-3495

	SAMDLE			М	ETHOD: EP	A SW 846-	8021B, 503	0	ME	THOD: 80	15M	TDU	4500 CI-B
SAMPLE LOCATION	SAMPLE DEPTH (BGS)	SAMPLE DATE	SOIL STATUS	E (mg/Kg)		E (mg/Kg)	TOTAL XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	,		ORO C ₂₈ -C ₃₅ (mg/Kg)	TPH C ₆ -C ₂₈ (mg/Kg)	
HA-1 @ Surface	Surface	1/14/2015	In-Situ	<2.00	11.8	18.6	165	196	2,590	2,590	50.7	5,231	<16.0
HA-1 @ 4'	4'	1/14/2015	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<16.0
HA-1 @ 6'	6'	1/14/2015	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	-
HA-1 @ 9'	9'	1/14/2015	In-Situ	< 0.050	0.091	< 0.050	< 0.150	0.091	13.3	66.9	<10.0	80.2	48.0
HA-2 @ Surface	Surface	01/14/15	In-Situ	< 0.050	48.9	32.1	249	330	7,310	4,500	97.0	11,907	<16.0
HA-2 @ 4'	4'	1/14/2015	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	66.3	136	<10.0	202	<16.0
HA-2 @ 6'	6'	1/14/2015	In-Situ	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	-
HA-2 @ 8'	8'	1/14/2015	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	-
HA-2 @ 9'	9'	1/14/2015	In-Situ	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	<16.0
HA-3 @ Surface	Surface	1/14/2015	In-Situ	<10.0	135	57.0	430	622	12,600	6,060	<10.0	18,660	208
HA-3 @ 4'	4'	1/14/2015	In-Situ	<10.0	122	49.2	372	544	11,000	5,510	<100	16,510	48.0
HA-3 @ 6'	6'	1/14/2015	In-Situ	<0.200	0.481	1.03	9.97	11.5	491	447	<10.0	938	-
HA-3 @ 7.5'	7.5'	1/14/2015	In-Situ	< 0.500	< 0.500	0.940	11.3	12.2	847	619	<10.0	1,466	80.0
HA-4 @ Surface	Surface	1/14/2015	In-Situ	<10.0	212	77.3	575	864	16,200	8,170	<100	24,370	144
HA-4 @ 4'	4'	1/14/2015	In-Situ	< 0.500	10.8	8.80	70.8	90.4	838	581	<10.0	1,419	<16.0
HA-4 @ 6'	6'	1/14/2015	In-Situ	<2.00	20.4	15.8	126	162	2,480	1,520	<10.0	4,000	-
HA-4 @ 7'	7'	1/14/2015	In-Situ	<5.00	44.2	24.6	194	263	5,000	3,160	65.0	8,225	<16.0
HA-5 @ Surface	Surface	1/14/2015	In-Situ	<5.00	32.8	24.1	197	254	5,070	3,100	52.3	8,222	832
HA-5 @ 4'	4'	1/14/2015	In-Situ	< 0.050	< 0.050	<0.050	<0.150	< 0.300	21.9	35.7	<10.0	57.6	208
HA-5 @ 6'	6'	01/14/15	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	-
HA-5 @ 8'	8'	1/14/2015	In-Situ	< 0.050	<0.050	<0.050	<0.150	<0.300	11.0	<10.0	<10.0	11.0	192
Background	1'	01/14/15	In-Situ	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
NMOCD Recomm	ended Rem	ediation Actio	n Level	10				50				1,000	500

^{- =} Not analyzed.

TABLE 2 FIELD-TEST RESULTS

FASKEN OIL & RANCH, LTD. LING FEDERAL #2 LEA COUNTY, NEW MEXICO NMOCD REFERENCE #: 1RP-3495

OAMBI E	SAMPLE	OAMBI E	2011		Hach Quantab
SAMPLE	DEPTH	SAMPLE	SOIL	PID READING	CHLORIDE
LOCATION	(BGS)	DATE	STATUS		(PPM)
HA-1 @ Surface	Surface	1/14/2015	In-Situ	4,437	4,437
HA-1 @ 1'	1'	1/14/2015	In-Situ	321	-
HA-1 @ 2'	2'	1/14/2015	In-Situ	150	-
HA-1 @ 4'	4'	1/14/2015	In-Situ	10.9	<120
HA-1 @ 5'	5'	1/14/2015	In-Situ	368	-
HA-1 @ 6'	6'	1/14/2015	In-Situ	28.9	-
HA-1 @ 8'	8'	1/14/2015	In-Situ	28.1	-
HA-1 @ 9'	9'	1/14/2015	In-Situ	228	-
HA-2 @ Surface	Surface	1/14/2015	In-Situ	4,963	<120
HA-2 @ 2'	2'	1/14/2015	In-Situ	4,810	-
HA-2 @ 4'	4'	1/14/2015	In-Situ	3,062	<120
HA-2 @ 6'	6'	1/14/2015	In-Situ	1,425	-
HA-2 @ 8'	8'	1/14/2015	In-Situ	790	-
HA-2 @ 9'	9'	1/14/2015	In-Situ	908	-
HA-3 @ Surface	Surface	1/14/2015	In-Situ	4,377	<120
HA-3 @ 2'	2'	1/14/2015	In-Situ	4,664	-
HA-3 @ 4'	4'	1/14/2015	In-Situ	4,236	<120
HA-3 @ 6'	6'	1/14/2015	In-Situ	4,400	-
HA-3 @ 7.5'	7.5'	1/14/2015	In-Situ	3,833	-
HA-4 @ Surface	Surface	1/14/2015	In-Situ	3,994	<120
HA-4 @ 2'	2'	1/14/2015	In-Situ	4,322	-
HA-4 @ 4'	4'	1/14/2015	In-Situ	4,467	<120
HA-4 @ 6'	6'	1/14/2015	In-Situ	4,765	-
HA-4 @ 7'	7'	1/14/2015	In-Situ	4,672	-
HA-5 @ Surface	Surface	1/14/2015	In-Situ	3,039	<120
HA-5 @ 2'	2'	1/14/2015	In-Situ	3,144	-
HA-5 @ 4'	4'	1/14/2015	In-Situ	2,029	228
HA-5 @ 6'	6'	1/14/2015	In-Situ	799	-
HA-5 @ 8'	8'	1/14/2015	In-Situ	630	-



Appendix A Release Notification and Corrective Action (Form C-141)

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

Form C-141
Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			Rele	ease Notific	ation	and Co	rrective A	ction				
	•					OPERAT	ГOR		☐ Initia	al Report	☐ Final:	Report
Name of Co	mpany: Fa	asken Oil an	Ranch,	Ltd						<u>.</u>	=	
Address: 61	01 Holida	y Hill Road,	Midland	, TX, 79707		Telephone N	No.: 432-687-17	'77				
Facility Nan	ne: Ling F	ederal #2			I	Facility Typ	e: Gas well					
Surface Own	ner: BLM			Mineral C	wner F	BLM			API No	. 30-025-303	36	
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								L n			_	
1			-	Feet from the	North/	South Line	reet from the	East/V	vest Line			İ
			J46				·			, , , , , , , , , , , , , , , , , , ,		
			La	titude		Longitud	e					
				NAT	URE (OF RELI	EASE					
					••••	Volume of	Release 186					
Source of Rel	Name of Company. Fasken Oil and Ranch, Lidd Address: 610 Hohlday Hill Road, Midland, TX, 79707 Telephone No.: 432-687-1777 Facility Name. Ling Federal #2 Facility Name. Ling Federal #2 Facility Name. Ling Federal #2 Surface Owner. BLM LOCATION OF RELEASE Unit Letter Section Township 19S 34E Feet from the North/South Line Longitude NATURE OF RELEASE Volume of Release: 186 Volume Recovered 5 Source of Release: Piping Date and Hour of Cocurrence: Date and Hour of Occurrence: Date and Hour of Cocurrence: Date and Hour of Cocurrence: Date and Hour of Cocurrence: Date and Hour of Occurrence: Date and Hour of Discovery 1/5/15, 11:00 a.m. Date and Hour of Occurrence: Date and Hour of Discovery 1/5/15, 10:00 a.m. Date and Hour of Occurrence: Date and Hour of Occurre											
Was Immedia	OPERATOR											
Was miniodic	iic riotice c		Yes 🗵	No Not Re	quired		Wilom:					
By Whom? A	aron Pachl	hofer				Date and H	our: 1/6/15, 10:0	0 a.m. to	Tomas Ol	perding/Jeff Rol	ertson	
								he Wate	rcourse.			
			Yes 🛚	l No		,			ĤÔà	il.		
If a Watercou	rse was Im	pacted, Descri	be Fully.*							4000x		
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					er. Brok	cen pipe has l	neen fixed		CENTER			
	-,,					P.P.			~	•		
Describe Area	Affected a	and Cleanup A	Action Tak	ren,*								
Affected area					ed liquid	ls have been	recovered. Furthe	er remed	lial action i	s pending discu	ssion with	
BLM.												
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regulations al	operators	are required to	ven above report ar	od/or file certain r	elease no	e dest of my	nd perform correc	tive acti	ons for rel	eases which ma	y endanger	
public health	or the envir	onment. The	acceptang	e of a C-141 repo	rt by the	NMOCD m	arked as "Final R	eport" d	oes not reli	ieve the operato	r of liabilit	у
should their o	perations h	ave failed to a	dequately	investigate and restance of a C 441	emediate	contaminati	on that pose a three the special three	eat to gr	ound water	r, surface water,	human hea	alth
federal, state,	or local lav	vs and or regu	lations.	nance of a C7141	report ac	es not renev	e the operator of	responsi	only for C	omphance whi	any omei	
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Signature										,		
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Printed Name	: Aaron Pa	chlhofer, P.G.	•			1pproved by	BIIVIOIIIICITAI 5	pecians	···			
Title: Environ	mental Co	ordinator		·		Approval Dat	e: 1-9-15		Expiration	Date: 3-7-1	ک	
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JAN 1 3 2015

Appendix C Photographs



Ling Federal #2 – Advancement of Soil Boring HA-5 Near Point of Release (Looking West-Northwest)



Ling Federal #2 – Pooling Area on Caliche Pad (Looking South; Soil Boring HA-1 Flagged in Background)



Ling Federal #2 – Pooling Area on Caliche Pad (Looking Southeast; Soil Boring HA-1 Flagged in Background)



Ling Federal #2 – Primary Flow Path of Release (Looking Northwest; Soil Boring HA-3 Flagged in Foreground)



Ling Federal #2 – Primary Flow Path of Release (Looking Northwest; Soil Boring HA-4 Flagged in Foreground; HA-3 Visible in Background)



Ling Federal #2 – Secondary Flow Path of Release (Looking Southeast; Soil Boring HA-2 Visible in Midground, Flagged in Orange)

Appendix D Laboratory Analytical Reports



January 26, 2015

BEN J. ARGUIJO

Basin Environmental Service

P.O. Box 301

Lovington, NM 88260

RE: LING FEDERAL #2

Enclosed are the results of analyses for samples received by the laboratory on 01/16/15 12:35.

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



Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Reported: 01/26/2015

Project Name: LING FEDERAL #2
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 01/14/2015

Sampling Type: Soil

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

Sample ID: HA-1 @ SURFACE (H500162-01)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	11.8	2.00	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	18.6	2.00	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	165	6.00	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	196	12.0	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	110	% 61-154	!						
oloride, 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	01/19/2015	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2590	10.0	01/17/2015	ND	195	97.5	200	0.878	
DRO >C10-C28	2590	10.0	01/17/2015	ND	207	103	200	3.71	
EXT DRO >C28-C35	50.7	10.0	01/17/2015	ND					
Surrogate: 1-Chlorooctane	156	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	121	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: HA-1 @ 4' (H500162-02)

LEA COUNTY, NM

Project Location:

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	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	<0.050	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 61-154	!						
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	01/19/2015	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2015	ND	195	97.5	200	0.878	
DRO >C10-C28	<10.0	10.0	01/17/2015	ND	207	103	200	3.71	
EXT DRO >C28-C35	<10.0	10.0	01/17/2015	ND					
Surrogate: 1-Chlorooctane	101	% 47.2-15	7						
Cumpagata 1 Chloma ata da ama	114	0/ 52.1.17							

Surrogate: 1-Chlorooctadecane 114 % 52.1-176

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-1 @ 6' (H500162-03)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	<0.050	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.4	% 61-154	!						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/17/2015	ND	195	97.5	200	0.878	
DRO >C10-C28	<10.0	10.0	01/17/2015	ND	207	103	200	3.71	
EXT DRO >C28-C35	<10.0	10.0	01/17/2015	ND					
Surrogate: 1-Chlorooctane	92.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	104 9	% 52.1-17	6						

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Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Sample ID: HA-1 @ 9' (H500162-04)

LEA COUNTY, NM

Project Location:

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	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	0.091	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	61-154	!						
hloride, SM4500Cl-B mg/kg		Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/19/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	13.3	10.0	01/17/2015	ND	195	97.5	200	0.878	
DRO >C10-C28	66.9	10.0	01/17/2015	ND	207	103	200	3.71	
EXT DRO >C28-C35	<10.0	10.0	01/17/2015	ND					
Surrogate: 1-Chlorooctane	91.1 9	% 47.2-15	7						
	1050								

Surrogate: 1-Chlorooctadecane 105 % 52.1-176

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Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-2 @ SURFACE (H500162-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	48.9	5.00	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	32.1	5.00	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	249	15.0	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	330	30.0	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 9	% 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	<16.0	16.0	01/19/2015	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7310	10.0	01/17/2015	ND	195	97.5	200	0.878	
dito co cio									
DRO >C10-C28	4500	10.0	01/17/2015	ND	207	103	200	3.71	

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane 127 % 52.1-176

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-2 @ 4' (H500162-06)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	<0.050	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 61-154	1						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/19/2015	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	66.3	10.0	01/17/2015	ND	195	97.5	200	0.878	
DRO >C10-C28	136	10.0	01/17/2015	ND	207	103	200	3.71	
EXT DRO >C28-C35	<10.0	10.0	01/17/2015	ND					
Surrogate: 1-Chlorooctane	108	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	114 9	% 52.1-17	6						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015

Reported: 01/26/2015
Project Name: LING FEDERAL #2
Project Number: NONE GIVEN

Project Location: LEA COUNTY, NM

Sampling Date: 01/14/2015

Sampling Type: Soil

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

Sample ID: HA-2 @ 6' (H500162-07)

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	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	<0.050	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 61-154	!						
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	<10.0	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	106 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	115 9	% 52.1-17	6						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-2 @ 8' (H500162-08)

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	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	< 0.050	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	< 0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 %	61-154	!						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	<10.0	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	103 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	113 %	6 52.1-17	6						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

(575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Fax To:

Project Name:LING FEDERAL #2Sampling Condition:Cool & IntactProject Number:NONE GIVENSample Received By:Jodi HensonProject Location:LEA COUNTY, NM

Sample ID: HA-2 @ 9' (H500162-09)

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	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	<0.050	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 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	<16.0	16.0	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	<10.0	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	103	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	107	% 52.1-17	6						

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(575) 396-1429

LEA COUNTY, NM

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Fax To:

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Sample ID: HA-3 @ SURFACE (H500162-10)

Project Location:

EXT DRO >C28-C35

Analyte	mg	/kg	Analyzed By: ms						
	Result	Reporting Limit	Analyzed	Method Blank	BS % I	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<10.0	10.0	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	135	10.0	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	57.0	10.0	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	430	30.0	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	622	60.0	01/24/2015	ND					

Surrogate: 4-Bromojiuorobenzene (F1D	103	70 01-134	•						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	12600	100	01/20/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	6060	100	01/20/2015	ND	203	101	200	0.517	

ND

01/20/2015

Surrogate: 1-Chlorooctane 309 % 47.2-157 Surrogate: 1-Chlorooctadecane 134 % 52.1-176

<100

100

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015
Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-3 @ 4' (H500162-11)

BTEX 8021B	mg	mg/kg Analyzed By: ms							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<10.0	10.0	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	122	10.0	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	49.2	10.0	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	372	30.0	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	544	60.0	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 61-154	1						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11000	100	01/20/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	5510	100	01/20/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<100	100	01/20/2015	ND					
Surrogate: 1-Chlorooctane	271	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	127	% 52.1-17	'6						

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01/14/2015



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date:

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-3 @ 6' (H500162-12)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	0.481	0.200	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	1.03	0.200	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	9.97	0.600	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	11.5	1.20	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 61-154	1						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	491	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	447	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	128	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	118	% 52.1-17	6						

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01/14/2015



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date:

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-3 @ 7.5' (H500162-13)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	<0.500	0.500	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	0.940	0.500	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	11.3	1.50	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	12.2	3.00	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 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	80.0	16.0	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	847	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	619	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	143	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	112	% 52.1-17	6						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015

Reported: 01/26/2015 Project Name: LING FEDERAL #2 Project Number: NONE GIVEN Project Location: LEA COUNTY, NM

Sampling Date: 01/14/2015

Sampling Type: Soil

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

Sample ID: HA-4 @ SURFACE (H500162-14)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<10.0	10.0	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	212	10.0	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	77.3	10.0	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	575	30.0	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	864	60.0	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 61-154	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	16200	100	01/20/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	8170	100	01/20/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<100	100	01/20/2015	ND					
Surrogate: 1-Chlorooctane	353	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	142	% 52.1-17	6						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-4 @ 4' (H500162-15)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.500	0.500	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	10.8	0.500	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	8.80	0.500	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	70.8	1.50	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	90.4	3.00	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	113	% 61-154	1						
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	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	838	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	581	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	139	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	115	% 52.1-17	6						

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015

Reported: 01/26/2015
Project Name: LING FEDERAL #2
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 01/14/2015

Sampling Type: Soil

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

Sample ID: HA-4 @ 6' (H500162-16)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	20.4	2.00	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	15.8	2.00	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	126	6.00	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	162	12.0	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 5	% 61-154	1						
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2480	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	1520	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	205 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	123 9	% 52.1-17	6						

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LEA COUNTY, NM

Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260 Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Sample ID: HA-4 @ 7' (H500162-17)

Project Location:

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	01/24/2015	ND	1.73	86.3	2.00	4.78	
Toluene*	44.2	5.00	01/24/2015	ND	1.68	83.8	2.00	5.78	
Ethylbenzene*	24.6	5.00	01/24/2015	ND	1.64	81.8	2.00	5.48	
Total Xylenes*	194	15.0	01/24/2015	ND	4.94	82.4	6.00	5.56	
Total BTEX	263	30.0	01/24/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 %	% 61-154	!						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					

Surrogate: 4-Bromojiuorobenzene (PID	103	% 01-134							
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	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	5000	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	3160	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	65.0	10.0	01/19/2015	ND					

Surrogate: 1-Chlorooctane 173 % 47.2-157 Surrogate: 1-Chlorooctadecane 119 % 52.1-176

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-5 @ SURFACE (H500162-18)

nit Analyzed 01/24/2015 01/24/2015 01/24/2015 01/24/2015 01/24/2015	Method Blank ND ND ND ND ND ND ND ND	BS 1.73 1.68 1.64 4.94	% Recovery 86.3 83.8 81.8 82.4	True Value QC 2.00 2.00 2.00 2.00 6.00	4.78 5.78 5.48 5.56	Qualifier	
01/24/2015 01/24/2015 01/24/2015 01/24/2015	ND ND ND	1.68 1.64	83.8 81.8	2.00 2.00	5.78 5.48		
01/24/2015 01/24/2015 01/24/2015	ND ND ND	1.64	81.8	2.00	5.48		
01/24/2015 01/24/2015	ND ND						
01/24/2015	ND	4.94	82.4	6.00	5.56		
-154							
	ed By: AP						
Analyz	ed By: AP						
nit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
01/19/2015	ND	416	104	400	0.00		
Analyz	ed By: MS					S-04	
nit Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
01/19/2015	ND	194	97.2	200	2.07		
01/10/2015	ND	203	101	200	0.517		
01/19/2015							
	01/19/2015	01/19/2015 ND	01/19/2015 ND 203	01/19/2015 ND 203 101	01/19/2015 ND 203 101 200		

Surrogate: 1-Chlorooctane 173 % 47.2-157
Surrogate: 1-Chlorooctadecane 120 % 52.1-176

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Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-5 @ 4' (H500162-19)

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	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	<0.050	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 61-154	!						
Chloride, SM4500Cl-B	ide, SM4500CI-B mg/kg Analyte Result Reporting Lin		Analyze	d By: AP					
Analyte			Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	21.9	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	35.7	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	109 5	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117 9	% 52.1-17	6						

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Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: HA-5 @ 6' (H500162-20)

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	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	<0.050	0.050	01/22/2015	ND	1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 61-154	1						
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	<10.0	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	104	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	113 9	% 52.1-17	6						

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Sample Received By:

01/14/2015

Jodi Henson



Analytical Results For:

Basin Environmental Service BEN J. ARGUIJO P.O. Box 301 Lovington NM, 88260

Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date:

Reported: 01/26/2015 Sampling Type: Soil
Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact

Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sample ID: HA-5 @ 8' (H500162-21)

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	01/22/2015	ND	1.62	80.9	2.00	9.70	
Toluene*	<0.050	0.050	01/22/2015 ND		1.58	79.0	2.00	11.4	
Ethylbenzene*	<0.050	0.050	01/22/2015	ND	1.52	76.1	2.00	10.6	
Total Xylenes*	<0.150	0.150	01/22/2015	ND	4.57	76.2	6.00	11.3	
Total BTEX	<0.300	0.300	01/22/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 61-154	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Analyte Result Reporting Li		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/19/2015	ND	432	108	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11.0	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	<10.0	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	106	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	113 9	% 52.1-17	6						

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Fax To: (575) 396-1429

Received: 01/16/2015 Sampling Date: 01/14/2015

Reported: 01/26/2015 Sampling Type: Soil

Project Name: LING FEDERAL #2 Sampling Condition: Cool & Intact Project Number: Sample Received By: NONE GIVEN Jodi Henson

Project Location: LEA COUNTY, NM

Sample ID: BACKGROUND (H500162-22)

BTEX 8021B	mg/	/kg	Analyze	ed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/21/2015	ND	1.69	84.6	2.00	4.80	
Toluene*	<0.050	0.050	01/21/2015	ND	1.71	85.5	2.00	4.41	
Ethylbenzene*	<0.050	0.050	01/21/2015	ND	1.68	83.8	2.00	4.10	
Total Xylenes*	<0.150	0.150	01/21/2015	ND	5.00	83.3	6.00	5.01	
Total BTEX	<0.300	0.300	01/21/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.0	% 61-154	!						
Chloride, SM4500CI-B	mg/	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/19/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/19/2015	ND	194	97.2	200	2.07	
DRO >C10-C28	<10.0	10.0	01/19/2015	ND	203	101	200	0.517	
EXT DRO >C28-C35	<10.0	10.0	01/19/2015	ND					
Surrogate: 1-Chlorooctane	107 9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	114 9	% 52.1-17	6						

Surrogate: 1-Chlorooctadecane 114 %

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Notes and Definitions

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

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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ARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Basin Environmental Service Techn	ologies	, LL	C						BII	LL TO						ANALYSIS	REQUEST	
Project Manager:	Ben Arguijo						P.	0. #	# :										
Address: P.O. I	3ox 301						C	omp	any:		Fasken Oil &	Ranch, Ltd.							
City: Lovington	State: NM	Zip	8	8260			A	ttn:		1	Aaron Pachih	nofer							
Phone #: (575)	396-2378 Fax #: (575):	96-14	29				A	ddre	ess:	6	3101 Holiday	Hiil Rd.				1			
Project #:	Project Own	er:	Fas	ken Oil	& Ra	nch, L	td. C	itv:			Midland				_	2	~		
Project Name:	Ling Federal #2								: T	x		79707	SK.		18	1	6		
Project Location:	Lea Co., NM								e #:		(432)687-	-	(8015M)	Chloride	BTEX (8021B)	_	6		
Sampler Name:	Ben J. Arguijo						_	x #:			(402)001	,	Ĕ	英	×	8	3	1 1 1	
FOR LAB USE ONLY					MA	TRIX	1, ,		RESE	RV.	SAMPLIN	NG	TPH		BI	ded	3		
Lab I.D. H500167	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE OTHER:	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME				BIFK ad	. BIEK au		
1	HA-1 @ Surface	G	1		X				X		1/14/15	0930	Х	X		_	X		
2	HA-1 @ 4'	G	1		X				X		1/14/15	0955	Х	Х		X			
3	HA-1 @ 6'	G	1		X				X		1/14/15	1010	Х			X			
4	HA-1 @ 9'	G	1		X				Х		1/14/15	1030	Х	X		X			
5	HA-2 @ Surface	G	1		X				Х		1/14/15	1035	Х	X	Por	1	X		
6	HA-2 @ 4'	G	1		X				X		1/14/15	1055	Х	X	Ĭ	X			
7	HA-2 @ 6'	G	1		X			1	X		1/14/15	1115	X			X		VENTER RE	
4	HA-2 @ 8'	G	1		X				X		1/14/15	1130	Х			X			
9	HA-2 @ 9'	G	1		X				X		1/14/15	1140	Х	X		X		7 17 9 - 1	
ID.	HA-3 @ Surface	G	1		X	_			X		1/14/15	1150	Х	X		,	X		

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Relinquished By:	Date://16/15	Received By:	Phone Result:	☐ Yes	□ No	Add'l Phone #: Add'l Fax #:				
11/4	Time: 1238	- Undi Aleuson	REMARKS:	L 163	L 110	Add Frax #.				
Relinquished By:	Date:	Received By:	7	****R	X if TPH <= 1,000 mg/kg****					
	Time:			Please e-mail results to bjarguijo@basinenv.com,						
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED BY Cool Intact (Initials) Sample Condition CHECKED BY Cool Intact (Initials)		jimi	myc@fo	orl.com & aaronp@forl.com				

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM, 8824

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:	Basin Environmental Service Technologies, LLC								B	ILL	TO		ANALYSIS REQUEST							
Project Manager:	Ben Arguijo	P.O. #:																		
Address: P.O.	Box 301	Company: Fasken Oil & Ranch, Ltd.											1 1 1							
City: Lovington	00000							Attn: Aaron Pachihofer												
Phone #: (575)	W (F751000 0070							Address: 6101 Holiday Hiil Rd.									~	1 1 1		
Project #:															_	2	-3	1 1 1		
Project Name:								ate:	TX	7.5.7		79707	Ñ.		18	2	7			
Project Location:	Lea Co., NM							one		-	32)687-		TPH (8015M)	Chloride	BTEX (8021B)	-	0			
	Ben J. Arguijo							x #:		(30	02,001	370	8) H		×	7	0	1 1 1		
FOR LAB USE ONLY		П			MATE	RIX	1.0	_	ESERV	/. S/	AMPLI	NG	T P	"	H	3	0	1 1 1		
Lab I.D. H500162	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	OTHER:	ACID/BASE:	ICE / COOL OTHER:	D	ATE	TIME				BTEX addud	BRXa			
11	HA-3 @ 4'	G	1		Х				X	1/1	4/15	1200	X	Х			X			
12	HA-3 @ 6'	G	1		Х				X	1/1	4/15	1210	X			X				
13	HA-3 @ 7.5'	G	1		Х				X	1/1	4/15	1215	Х	X			X			
14	HA-4 @ Surface	G	1		Х				X	1/1	4/15	1315	Х	X			X			
15	HA-4 @ 4'	G	1		Х				X	1/1	4/15	1325	X	X	PloH		X			
16	HA-4 @ 6'	G	1		Х				X	1/1	4/15	1335	X		I		X			
17	HA-4 @ 7'	G	1		Х				X	1/1	4/15	1340	X	Х			X			
17	HA-5 @ Surface	G	1		Х				Х	1/1	4/15	1350	Х	Х			X			
19	HA-5 @ 4'	G	1		X				Х	1/1	4/15	1400	X	Х		X				
20	HA-5 @ 6'	G	1		Х				X	1/1	4/15	1410	Х			X				

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Relinquished By:	Date://6/15	Received By:	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ No Add'l Phone #: ☐ Yes ☐ No Add'l Fax #:
Relinquished By:	Date:	Received By:		****Run BTEX if TPH <= 1,000 mg/kg**** Please e-mail results to bjarguijo@basinenv.com,
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	,	Sample Condition CHECKED BY (Initials)		jimmyc@forl.com & aaronp@forl.com

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name:									BILL TO							ANALYSIS REQUEST									
Project Manager:	Ben Arguijo	Arguijo									P.O. #:														
Address: P.O. E								- 1	Company: Fasken Oil & Ranch, Ltd.																
- # (F7F)000 0070						-1	Attn: Aaron Pachlhofer Address: 6101 Holiday Hiil Rd.																		
Project #:														_	1										
Project Name: Denton SWD #3							_ 1	State: TX Zip: 79707 Phone #: (432)687-1777						Chloride	13 18	2	1/22								
Project Location: Lea Co., NM							(80								1										
Sampler Name:	Ben J. Arguijo								Fax #	t:				TPH (8015M)	흥	BTEX (8021B)									
FOR LAB USE ONLY		Ι.	Г		N	TAN	RIX		P	RESE	RV.	SAMPLII	NG	=		E	3								
Lab I.D. H5001 62	Sample I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ICE / COOL	OTHER:	DATE	TIME				BIEX added								
01	HA-5 @ 8'	G	1			X				X		1/14/15	1420	Х	X		X								
22	Background	G	1			X			1	X		1/14/15	1445	Х	Х	Х		•							
									1																
		-		H			+	+	+	+	Н												+	+	
		-					4	4	-	-															
PLEASE NOTE: Liability and D	amages. Cardinal's liability and client's exclusive remedy for any class	m arising	wheth	er has	ed in co	otract	or tort	shall	he limite	d to the	amoun	t naid by the client	for the												

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Relinquished By:	Date://6/15	Received By:	Phone Result: Fax Result:	☐ Yes ☐ No ☐ Yes ☐ No	Add'l Phone #: Add'l Fax #:		
1/1/	Time: 1235	Male Henson	REMARKS:				
Relinquished By:	Date:	Réceived By:		****Run BTEX	(if TPH <= 1,000 mg/kg****		
	Time:			Please e-mail resu	ults to bjarguijo@basinenv.com,		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:		Sample Condition CHECKED BY Cool Intact Lightials)	7 :	jimmyc@for	d.com & aaronp@forl.com		

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