

Remediation Report and Closure Request

March 6, 2023

**Pat H McClure A #002
(API # 30-025-05316)
Produced Water Release
Incident # nAPP2233344921**

Prepared For:

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1.0 Introduction

Crain Environmental (CE), on behalf of Lynx Operating Company, Inc. (Lynx), has prepared this *Remediation Report and Closure Request* for the produced water release at Pat H McClure A #002 (Site), located approximately 11 miles northeast of Lovington, in Lea County, New Mexico (Incident # nAPP2233344921). The global positioning system (GPS) coordinates for the Site are 33.018891, -103.170099. The Site location is shown on Figure 1.

2.0 Background

On January 28, 2022, an email from the New Mexico Oil Conservation Division (NMOCD) was sent to Cambrian Management (Cambrian) regarding routine inspections at the Lynx Pat H McClure B #002 (Compliance Key # cEZB222851624), Pat H McClure A #002 (Compliance Key # cEZB222851781), and Pat H McClure A #001 (Compliance Key # cEZB222853479) sites.

On March 30, 2022, the email was received by the Cambrian representative responsible for the Lynx wells. From that date until June 3, 2022, Cambrian worked with the NMOCD to resolve issues associated with Pat H McClure B #002 and Pat H McClure A #001 and began excavation of the area north of the Pat H McClure A #002 separator that was affected by a produced water release. Cambrian has since changed ownership and now operates as Octane Energy (Octane).

On November 29, 2022, a *Remediation Report and Closure Request (Closure Report)* was submitted to the NMOCD via the fee portal. The *Closure Report* provided documentation of remediation activities conducted since May 2022, and requested approval to backfill the open excavation.

On January 4, 2023, Octane received notification from the NMOCD that the *Closure Report* was denied for the following reasons:

Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to establish the edge of the release. Sidewall/Floor samples should represent no more than 200 ft². Please indicate on site map where pad boundary ends and pasture begins. Please note the lat/long noted is slightly off as the release occurred approximately 400 feet south-southwest of the provided coordinates. Please make sure C141 is signed by operator. Please resubmit a revised closure report to the OCD portal by February 4, 2023.

On behalf of Lynx, additional sidewall and bottom samples were collected from the excavation on January 7, 2023, and submitted to the NMOCD for review on January 22, 2023. As there was some discrepancy of the regulations regarding horizontal delineation, CE requested a meeting with the NMOCD for verification of horizontal delineation requirements on January 23, 2023.

On January 30, 2023, Octane requested a 90-day extension to obtain verification of the requirements, complete any necessary additional remediation activities, and submit a revised *Closure Report*. On February 16, 2023, the NMOCD approved an extension until May 4, 2023.

On February 28, 2023, horizontal delineation requirements were verified by the NMOCD, and this *Remediation Report and Closure Request* provides additional information regarding samples collected on January 7, 2023. Figure 2 shows the Site sample locations. Appendix A provides copies of NMOCD correspondence.

3.0 NMOCD Closure Criteria

Cleanup standards for produced water spills are provided in 19.15.29 NMAC. The cleanup standards (described in the rule as “Closure Criteria”) are based primarily on depth to groundwater but are also based on other criteria. Three different Closure Criteria are provided in the rule. The most stringent apply to sites where groundwater is found within 50 feet of the ground surface or if the release occurred within one of the following areas:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
- Within 1,000 feet of any fresh water well or spring.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
- Within 300 feet of a wetland.
- Within the area overlying a subsurface mine.
- Within an unstable area such as a karst formation.
- Within a 100-year floodplain.

CE reviewed available information to determine the Closure Criteria for the Site. The findings of this evaluation are summarized below.

3.1 Groundwater Evaluation

A review of the New Mexico Office of the State Engineer (NMOSE) records indicated there are seven water wells located within 0.5 mile of the Site that were drilled in 2020. An initial depth to groundwater measurement of 65 feet below ground surface (bgs) was provided for each well. All seven wells are listed in the table below. Figure 3 provides a 0.5-mile radius circle around the Site and shows the location of the seven water wells within that radius. Based on the water well data available in NMOSE records, it is estimated that depth to groundwater at the Site is approximately 65 feet bgs.

Nearby Water Wells

Well ID	Location from Release Site	Year Installed	Use	Depth to Water (feet bgs)
L 14152 POD 16	Approx. 1,500 feet to northeast	2020	N/A	65
L 14152 POD 17	Approx. 1,500 feet to northeast	2020	N/A	65
L 14152 POD 18	Approx. 1,500 feet to northeast	2020	N/A	65
L 14152 POD 19	Approx. 1,500 feet to northeast	2020	N/A	65
L 14152 POD 21	Approx. 1,500 feet to northeast	2020	N/A	65
L 14152 POD 23	Approx. 1,500 feet to northeast	2020	N/A	65
L 14152 POD 24	Approx. 1,500 feet to northeast	2020	N/A	65

3.2 Surface Features and Other Development

CE reviewed recent aerial photographs, topographic maps, the NMOSE Point of Discharge (POD) GIS website, and information available from the Lea County, New Mexico Central Appraisal District website. As shown on Figure 1, the Site is **not** located:

- Within 300 feet of any continuously flowing watercourse or any other significant watercourse.
 - No continuously flowing watercourses (rivers, streams, arroyos, etc.) are apparent within 300 feet of the Site in the topographic map (Figure 1).
- Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary highwater mark).
 - The topographic map (Figure 1) indicates there is not a lakebed, sinkhole or playa lake located within 200 feet of the Site.
- Within 300 feet from an occupied permanent residence, school, hospital, institution or church.
 - The Site Location Map (Figure 1) and information available from the Lea County, New Mexico Central Appraisal District do not show or list any permanent residence, school, hospital, institution or church located within 300 feet of the Site.
- Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes.
 - No wells or springs located within 500 feet of the Site appear in any of the NMOSE records reviewed by CE.
- Within 1,000 feet of any fresh water well or spring.
 - No fresh water wells or springs located within 1,000 feet of the Site appear in any of the records reviewed by CE.
- Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended.
 - Based on the property and other records review by CE, the Site is not located in incorporated municipal boundaries or within a defined municipal fresh water well field.
- Within the area overlying a subsurface mine
 - Based on the property and other records reviewed by CE, the Site is not located within an area overlying a subsurface mine.

3.3 Wetlands, Floodplain, and Karst Geology

A review of the United States Fish and Wildlife Service (USFWS) wetlands map indicated the Site is not located within 300 feet of a wetland. The New Mexico Bureau of Land Management (BLM) karst potential map indicates the Site is located within a "low karst potential" area. Finally, review of the Federal Emergency Management Act (FEMA) floodplain map indicates the release at the Site is not mapped but is assumed to be located outside of a 100-year floodplain. Figures 4 and 5 depict the FEMA floodplain information and the karst potential data, respectively.

3.4 Closure Criteria Currently Assumed Applicable to the Site

The Closure Criteria applicable to the Site will be based on the estimated depth to groundwater, which dictates the moderately stringent regulatory guidelines typically associated with groundwater depths between 51 to 100 feet bgs. A summary of the Closure Criteria is provided in the table below and in Table 1.

NMOCD Closure Criteria

Constituent of Concern		Closure Criteria Based on Depth to Groundwater (mg/kg)		
		≤ 50 feet bgs	51 feet to 100 feet bgs	> 100 feet bgs
Chloride (EPA 300)		600	10,000	20,000
TPH (EPA 8015M)	GRO + DRO + MRO	100	2,500	2,500
	GRO + DRO	NA	1,000	1,000
Total BTEX (EPA 8021 or 8260)		50	50	50
Benzene (EPA 8021 or 8260)		10	10	10

Notes: NA = not applicable
 bgs = below ground surface
 mg/kg = milligrams per kilogram
 GRO = gasoline range organics
 DRO = diesel range organics
 MRO = motor oil range organics
 TPH = total petroleum hydrocarbons
 BTEX = benzene, toluene, ethylbenzene, and total xylenes
 Green highlighted cells denote applicable Closure Criteria.

4.0 Site Assessment/Characterization Results

As per 19.15.29.11 NMAC, a Site Characterization Report will have the components described in Sections 4.1 through 4.5 of this document.

4.1 Site Map

As required by 19.15.29.11 NMAC, a scaled diagram showing significant Site infrastructure, sample point locations, and known subsurface features such as utilities is provided as Figure 2.

4.2 Depth to Groundwater

As discussed in Section 3.1, the exact depth to groundwater beneath the Site is unknown. During investigation activities, a maximum depth of 6.1 feet bgs was reached, at which groundwater was not encountered. A review of the NMOSE water well records indicates that depth to groundwater within 0.5 mile of the Site is 65 feet bgs.

4.3 Wellhead Protection Area

The 0.5-mile wellhead protection area is shown on Figure 3. Seven water wells, drilled in 2020, are located within 0.5 mile of the Site. Initial depths to groundwater in the seven wells was 65 feet bgs. There were no other water sources, springs, or other sources of freshwater extraction identified within 0.5-mile of the Site.

4.4 Distance to Nearest Significant Watercourse

The horizontal distance to the nearest significant watercourse as defined in Subsection P of 19.15.17.7 NMAC is greater than 0.5-mile from the Site.

4.5 Summary of Soil Remediation Activities

Excavation of the affected area began in May 2022, and initial soil samples were collected on May 23, 2022. Soil samples were placed in clean glass sample jars, properly labeled, immediately placed on ice and hand delivered to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico under proper chain-of-custody control. All samples were analyzed for total petroleum hydrocarbons (TPH) by Environmental Protection Agency (EPA) SW-846 Method 8015 Modified, for benzene, toluene, ethylbenzene and xylenes (collectively referred to as BTEX) by EPA SW-846 Method 8021B, and for chlorides by EPA Method 300.

Table 1 provides a summary of the laboratory results, and sample locations with laboratory concentrations are provided on Figure 2. The laboratory report and chain-of-custody documentation is provided in Appendix B. Referring to Table 1, concentrations of BTEX were reported below the test method detection limits in all samples. Concentrations of TPH were reported below the Closure Criteria in all samples except South 2 (3,365 mg/kg) and South 3 (4,910 mg/kg). Chloride concentrations were reported below the Closure Criteria in all samples except for surface samples (0-6") collected in the middle of the affected area (Middle 2 at 656 mg/kg, Middle 3 at 1,100 mg/kg, Middle 4 at 1,800 mg/kg, and Middle 5 at 1,680 mg/kg).

The entire area was excavated to a depth greater than 4 feet bgs, and confirmation samples were collected on July 11 and July 29, 2022. Soil samples were also collected from the rancher pit (Pit Dirt and Pit Caliche) to be used as backfill of the excavation. All samples were delivered to Cardinal for analysis of TPH, BTEX, and chlorides. All excavated soil was hauled to Gandy Marley for disposal.

Table 1 provides a summary of all laboratory results, and sample locations with laboratory concentrations are provided on Figure 2. The laboratory reports and chain-of-custody documentation are provided in Appendix B. Photographs of the excavation are provided in Appendix C.

On January 7, 2023, three five-point composite samples were collected along each of the west, east, and south side walls (W Wall 3, 2, and 1, E Wall 3, 2, and 1, and S Wall 6, 7, and 8) at a depth of 0 to 4' bgs, three five-point composite samples were collected along the south wall (S Wall 6, 7, and 8) at a depth of 5' bgs, and six samples were collected from the bottom of the excavation (SP-1 through SP-6) at a depth of 5.1' bgs.

The soil samples were hand delivered to Cardinal under chain-of-custody-control. All samples were analyzed for TPH and chlorides, and sidewall composite samples from a depth of 0 to 4' bgs, were additionally analyzed for BTEX. Table 1 provides a summary of the laboratory results, and sample locations with laboratory concentrations are provided on Figure 2. The laboratory report and chain-of-custody documentation is provided in Appendix B.

Referring to Table 1, all TPH and chloride concentrations were reported below the Closure Criteria, and all BTEX concentrations were reported below the test method detection limits.

4.6 Laboratory Analytical Data Quality Assurance/Quality Control Results

Data reported in the laboratory reports generated by Cardinal, in Hobbs, New Mexico, was reviewed to ensure that reported analytical results met data quality objectives. It was determined by quality control data associated with analytical results that reported concentrations of target analytes are defensible and that measurement data reliability is within the expected limits of sampling and analytical error. All analytical results are usable for characterization of soil at the Site. The laboratory analytical results are provided as Appendix B.

5.0 Closure Request

As all final TPH, benzene, total BTEX, and chloride concentrations in samples collected from the base and sidewalls of the excavation were reported below the NMOCD Closure Criteria, Lynx respectfully requests approval to backfill and close the Pat H McClure A #002 site (Incident # nAPP2233344921). An initial and final Form C-141 is included as Appendix D.

Approximately 1,960 cubic yards (yd) of excavated soil were transported to Gandy Marley disposal facility. Upon OCD approval, the excavation will be backfilled to grade with clean soil from the rancher pit. Pursuant to 19.15.29.13 NMAC, the impacted surface areas will be restored to pre-release conditions. Surface grading will be performed to near original conditions and contoured to prevent erosion and ponding, promote stability, and preserve storm water flow patterns.

6.0 Distribution

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TABLE

TABLE 1
 SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
 LYNX OPERATING COMPANY
 PAT H McCLURE A #002 (API # 30-025-05316)
 Incident # nAPP2233344921

Sample ID	Sample Date	Sample Depth (feet bgs)	Soil Status	TPH	TPH	TPH	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				(GRO)	(DRO)	(MRO)		milligrams per kilogram (mg/kg)					
NMOCD Closure Criteria (0-4' bgs)				-	-	-	100	10	-	-	-	50	600
NMOCD Closure Criteria (Below 4' bgs)				1,000	-	-	2,500	10	-	-	-	50	10,000
NORTH 1	05/23/22	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
NORTH WALL #1	07/11/22	5.0	In Situ	<10.0	<10.0	10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	352
NORTH 2	05/23/22	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
NORTH WALL #2	07/11/22	4.3	In Situ	<10.0	<10.0	10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,440
NORTH 3	05/23/22	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
NORTH WALL #3	07/11/22	4.1	In Situ	<10.0	90.4	41.8	132.2	<0.050	<0.050	<0.050	<0.150	<0.300	1,580
NORTH 4	05/23/22	0-4	In Situ	<10.0	77.2	19.7	96.9	<0.050	<0.050	<0.050	<0.150	<0.300	224
NORTH WALL #4	07/11/22	4.8	In Situ	<10.0	64.8	32.8	97.6	<0.050	<0.050	<0.050	<0.150	<0.300	1,840
NORTH 5	05/23/22	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
MIDDLE 1	05/23/22	0-6"	Excavated	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
MIDDLE 2	05/23/22	0-6"	Excavated	<10.0	24.9	12.1	37.0	<0.050	<0.050	<0.050	<0.150	<0.300	656
MIDDLE 3	05/23/22	0-6"	Excavated	<10.0	20.7	11.7	32.4	<0.050	<0.050	<0.050	<0.150	<0.300	1,100
MIDDLE 4	05/23/22	0-6"	Excavated	<10.0	25.0	<10.0	25.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,800
MIDDLE 5	05/23/22	0-6"	Excavated	<10.0	24.1	22.3	46.4	<0.050	<0.050	<0.050	<0.150	<0.300	1,680
SOUTH 1	05/23/22	2	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	48.0
SOUTH WALL #1	07/11/22	6.1	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,440
SOUTH 2	05/23/22	4.6	Excavated	<10.0	2,490	875	3,365	<0.050	<0.050	<0.050	<0.150	<0.300	2,240
SOUTH WALL #2	07/11/22	4.6	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,880
SOUTH 3	05/23/22	5.3	Excavated	<10.0	3,460	1,450	4,910	<0.050	<0.050	<0.050	<0.150	<0.300	2,000
SOUTH WALL #3	07/11/22	5.3	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	368
SOUTH 4	05/23/22	4.10	Excavated	<10.0	15.6	<10.0	15.6	<0.050	<0.050	<0.050	<0.150	<0.300	4,000
SOUTH WALL #4	07/11/22	4.10	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	896
SOUTH 5	05/23/22	5.3	Excavated	<10.0	195.0	90.3	285.3	<0.050	<0.050	<0.050	<0.150	<0.300	3,600
SOUTH WALL #5	07/11/22	5.3	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	560
S WALL 6	01/07/23	0-4	In Situ	<10.0	55.4	20.2	75.6	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	01/07/23	5	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	32.0
S WALL 7	01/07/23	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	176
	01/07/23	5	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	272
S WALL 8	01/07/23	0-4	In Situ	<10.0	39.4	<10.0	39.4	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	01/07/23	5	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	48.0
FLOOR NORTH	07/11/22	4.11	In Situ	<10.0	14.1	<10.0	14.1	<0.050	<0.050	<0.050	<0.150	<0.300	1,500
FLOOR SOUTH	07/11/22	5.0	In Situ	<10.0	<10.0	10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	432
FLOOR EAST	07/11/22	4.8	In Situ	<10.0	<10.0	10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,940
EAST WALL #1	01/07/23	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
	07/11/22	4.11	In Situ	<10.0	49.9	37.5	87.4	<0.050	<0.050	<0.050	<0.150	<0.300	2,720
EAST WALL #2	01/07/23	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	144
	07/11/22	5.0	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,960
EAST WALL #3	01/07/23	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	160
	07/11/22	4.6	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,720
EAST WALL BOTTOM #1	07/11/22	4.7	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,760
EAST WALL BOTTOM #2	07/11/22	4.9	In Situ	<10.0	19.6	<10.0	19.6	<0.050	<0.050	<0.050	<0.150	<0.300	1,570

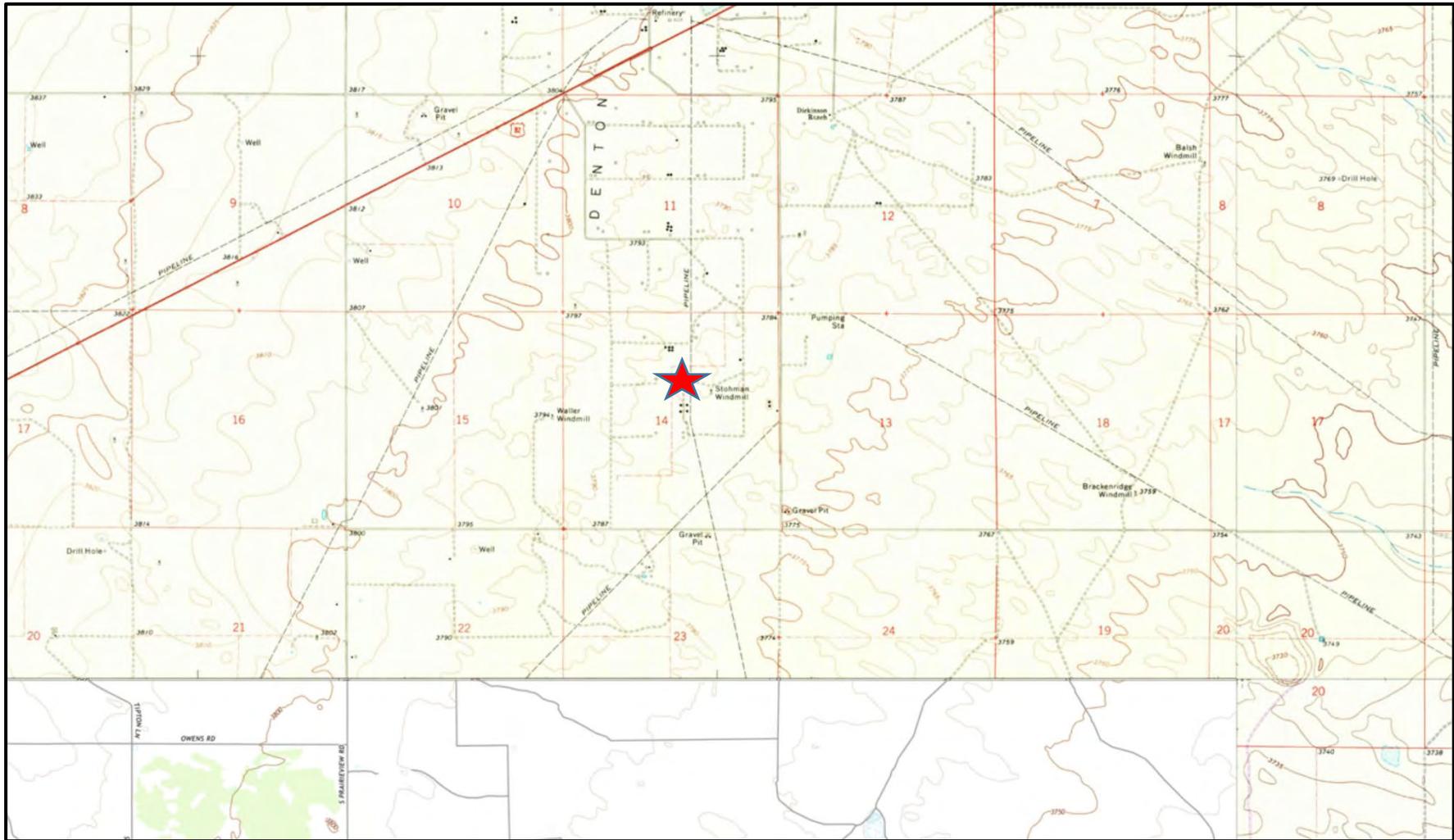
**TABLE 1
SUMMARY OF SOIL SAMPLE ANALYTICAL RESULTS
LYNX OPERATING COMPANY
PAT H McCLURE A #002 (API # 30-025-05316)
Incident # nAPP223344921**

Sample ID	Sample Date	Sample Depth (feet bgs)	Soil Status	TPH	TPH	TPH	Total TPH	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	Chloride
				(GRO)	(DRO)	(MRO)		milligrams per kilogram (mg/kg)					
NMOCD Closure Criteria (0-4' bgs)				-	-	-	100	10	-	-	-	50	600
NMOCD Closure Criteria (Below 4' bgs)				1,000	-	-	2,500	10	-	-	-	50	10,000
EAST WALL BOTTOM #3	07/11/22	4.9	In Situ	<10.0	36.0	17.8	53.8	<0.050	<0.050	<0.050	<0.150	<0.300	3,440
WEST WALL #1	01/07/23	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
	07/11/22	4.6	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	544
WEST WALL #2	01/07/23	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	112
	07/11/22	5	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	928
WEST WALL #3	01/07/23	0-4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
	07/11/22	5.3	In Situ	<10.0	21.4	10.6	32.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,860
WEST WALL #4	07/11/22	4.10	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	1,950
NORTH	07/29/22	4.7	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	3,680
WEST	07/29/22	4.4	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	880
SOUTH	07/29/22	4.7	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	800
NORTH FLOOR	07/29/22	5.1	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	128
SOUTH FLOOR	07/29/22	5.1	In Situ	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	2,000
SP-1	01/07/23	5.1	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	1,040
SP-2	01/07/23	5.1	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	112
SP-3	01/07/23	5.1	In Situ	<10.0	11.7	<10.0	11.7	--	--	--	--	--	656
SP-4	01/07/23	5.1	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	592
SP-5	01/07/23	5.1	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	48.0
SP-6	01/07/23	5.1	In Situ	<10.0	<10.0	<10.0	<10.0	--	--	--	--	--	944
BACKFILL SOIL													
PIT DIRT	07/11/22	---	---	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	96.0
PIT CALICHE	07/11/22	---	---	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	64.0

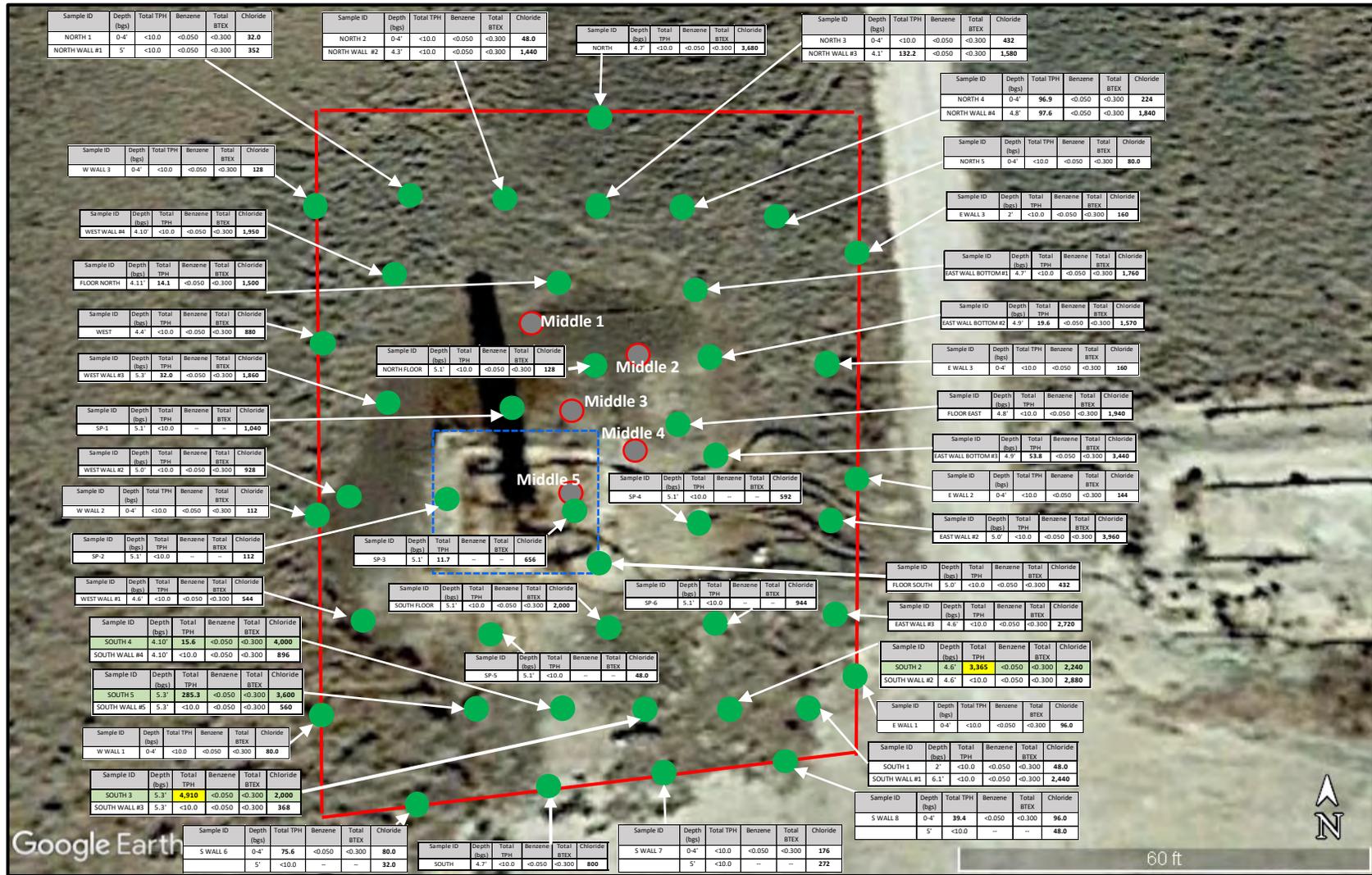
Notes:

1. GRO: Gasoline Range Organics
2. DRO: Diesel Range Organics
3. MRO: Motor Oil Range Organics
4. bgs: below ground surface
5. Bold and highlighting indicates the COC was detected above the NMOCD Closure Criteria.
6. < indicates the COC was below the appropriate laboratory method/sample detection limit
7. Yellow highlighting indicates the COC concentration exceeds the NMOCD Closure Criteria.
8. Green highlighting indicates soil has been excavated and disposed.

FIGURES



LEGEND:  Site Location Base Map From GAIA GPS Topo	Figure 1 Site Location Map Lynx Operating Company Pat H McClure A #002 Lea County, New Mexico	Drafted by: CC Checked by: CC	
		Draft: November 18, 2022	
GPS: 33.018891° -103.170099°			
(Empty cell)			

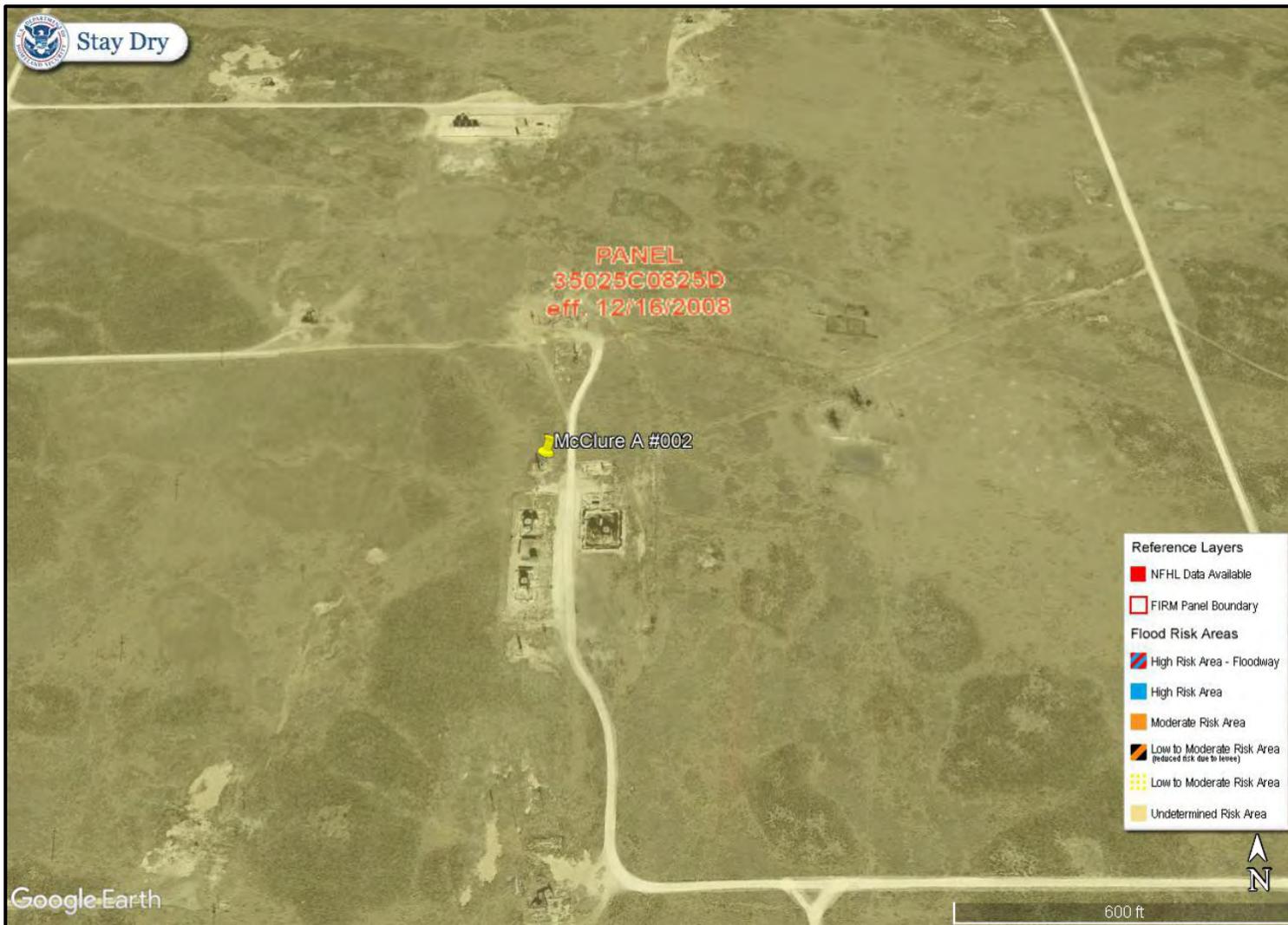


LEGEND: Sample Location With Concentrations (mg/kg) Middle Samples were excavated and disposed. Excavation Boundary Former Pad Boundary Highlighted cells indicate soil was excavated and disposed	Figure 2 Soil Sample Analytical Results Map	Drafted by: CC Checked by: CC
	Lynx Operating Company Pat H McClure A #002 Lea County, New Mexico	Draft: Mar. 6, 2023
		GPS: 33.018891° -103.170099°
		Base Map from Google Earth

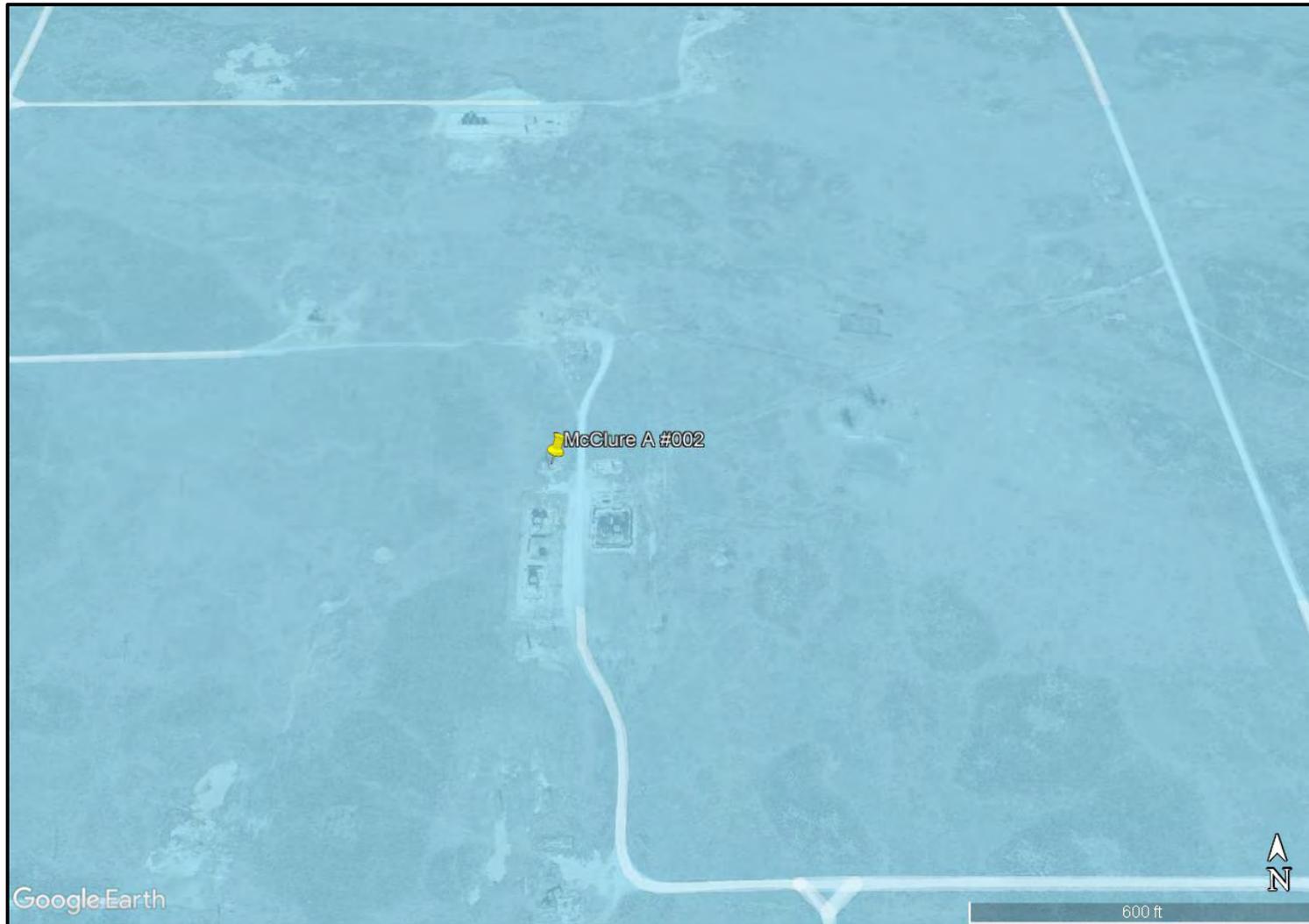




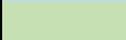
LEGEND:  Site and Water Well Locations  0.5 Mile Radius Base Map from Google Earth	Figure 3 Wellhead Protection Area Map Lynx Operating Company Pat H McClure A #002 Lea County, New Mexico	Drafted by: CC Checked by: CC	
		Draft: November 18, 2022	
GPS: 33.018891° -103.170099°			



LEGEND:  Site Location	Figure 4 FEMA Floodplain Map Lynx Operating Company Pat H McClure A #002 Lea County, New Mexico	Drafted by: CC Checked by: CC	
		Draft: November 18, 2022	
GPS: 33.018891° -103.170099°			
(Empty cell)			
(Empty cell)			
Base Map from GoogleEarth and FEMA Stay Dry			



LEGEND:

	Site Location
	Low Karst Potential
	Medium Karst Potential
	High Karst Potential

Base Map from Google Earth and WHYMAP

Figure 5
Karst Potential Map
Lynx Operating Company
Pat H McClure A #002
Lea County, New Mexico

Drafted by: CC Checked by: CC	
Draft: November 18, 2022	
GPS:	33.018891° -103.170099°



Appendix A: New Mexico Oil Conservation Division Correspondence

From: Chris Gaddy
Sent: Wednesday, August 10, 2022 4:54 PM
To: 'Bolton, Eugene, EMNRD' <Eugene.Bolton@state.nm.us>
Cc: rustyloyd66@gmail.com; will@lynxco.biz
Subject: RE: [EXTERNAL] LYNX OPERATING CO., INC. Compliance Report [175071]

Gene,

My apologies for the delay in getting back to you and should have a report to you early next week. We are waiting on the most recent analysis results from Cardinal Labs and will provide them with GPS coordinates for each sample location.

The contaminated soils were disposed of at Gandy Marley where we have accrued over \$35k in disposal charges and total costs approaching \$200k. I've attached a single manifest for your review and can provide them all if required.

Thanks,

Chris Gaddy | Drilling Manager | Cambrian Management
415 W. Wall St., Ste. 900, Midland, TX 79701 | O: 432-620-9181 x27 | C: 432-634-9337

From: Bolton, Eugene, EMNRD <Eugene.Bolton@state.nm.us>
Sent: Thursday, July 14, 2022 3:27 PM
To: Chris Gaddy <cgaddy@cambrianmgmt.com>
Cc: rustyloyd66@gmail.com; will@lynxco.biz
Subject: RE: [EXTERNAL] LYNX OPERATING CO., INC. Compliance Report [175071]

Chris,

Please show which were the agreements, and the landowner, in case 19.15.29 NMAC requirements may apply.

Oftentimes, the landowner can require more stringent criteria that goes beyond the State's regulations. At other times, a landowner may not require various NM rules that could apply.

What is the disposition of all contaminated soils? Those are good photos of extensive efforts. Looks like a sound remediation pending the sample areas with gps marked for each.

Thank you,

Eugene Bolton - Compliance Ofc
NM Energy, Minerals, Natural Resources Department
Oil Conservation Division District 1 – NM South
1625 N. French Drive Hobbs, NM 88240
575 / 840-5961 8-3 eugene.bolton@state.nm.us



From: Chris Gaddy <cgaddy@cambrianmgmt.com>
Sent: Thursday, July 14, 2022 1:25 PM
To: Bolton, Eugene, EMNRD <Eugene.Bolton@state.nm.us>
Cc: rustyloyd66@gmail.com; will@lynxco.biz
Subject: RE: [EXTERNAL] LYNX OPERATING CO., INC. Compliance Report [175071]

Gene,

I am providing the attached as an update to the work we've accomplished to date. Everything has been done in agreement with the landowner and I will submit the soil analysis results when completed by Cardinal Labs.

Thanks,

Chris Gaddy | Drilling Manager | Cambrian Management
415 W. Wall St., Ste. 900, Midland, TX 79701 | O: 432-620-9181 x27 | C: 432-634-9337

From: Bolton, Eugene, EMNRD <Eugene.Bolton@state.nm.us>
Sent: Wednesday, June 8, 2022 5:28 PM
To: Chris Gaddy <cgaddy@cambrianmgmt.com>
Cc: rustyloyd66@gmail.com; will@lynxco.biz
Subject: Re: [EXTERNAL] LYNX OPERATING CO., INC. Compliance Report [175071]

Chris,

No need to submit to a portal or department. Info regarding samples are submitted by email back to the inspector for review, unless OCD Environmental is involved.

Suspect for TPH are samples South 2 and South 3. For the correct chlorides concentration criteria, what do you show for water table levels in that area? If well bore logs are used, will need date and ID number for tracking. If none, I can look up the OSE wells in the area. Let me know.

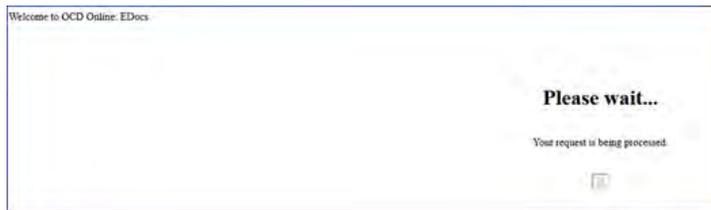
Thanks,
-gb

Get [Outlook for iOS](#)

From: Chris Gaddy <cgaddy@Cambrianmgmt.com>
Sent: Friday, June 3, 2022 4:42:18 PM
To: Bolton, Eugene, EMNRD <Eugene.Bolton@state.nm.us>
Cc: rustyloyd66@gmail.com <rustyloyd66@gmail.com>; will@lynxco.biz <will@lynxco.biz>
Subject: RE: [EXTERNAL] LYNX OPERATING CO., INC. Compliance Report [175071]

Mr. Bolton,

I am trying to login to EDocs to submit the attached analysis results from Cardinal Labs for Compliance Key #: cEZB222851781 and I keep getting the screen shown below. I wanted you to know that we are working through the issues noted in your previous email and have met with the landowner and have agreement on next steps. I wanted to post the analysis results and photos of the 15 sample locations prior to beginning the remediation but will attempt again on Monday. We feel that we have satisfied the remediation requirements for Compliance Key # cEZB222851624 and cEZB222853479 and request on next steps.



Thanks,

Chris Gaddy | Ops Engineer | Cambrian Management
415 W. Wall St., Ste. 900, Midland, TX 79701 | O: 432-620-9181 x27 | C: 432-634-9337

From: Chris Gaddy
Sent: Wednesday, March 30, 2022 3:40 PM
To: 'Bolton, Eugene, EMNRD' <Eugene.Bolton@state.nm.us>
Cc: 'rustyloyd66@gmail.com' <rustyloyd66@gmail.com>
Subject: RE: [EXTERNAL] LYNX OPERATING CO., INC. Compliance Report [175071]

Mr. Bolton,

I am the engineer responsible for the Lynx wells and wanted to let you know that your email didn't make it to my desk until today. However, I have reviewed it with our field foreman and he is working on compliance issues 19.15.29 and 19.15.16.8. I am working to address compliance issue 19.15.16 Drilling and Production: Last Prod 4/1/2020 is 8 mo past due for the cEZB222853479 [30-025-05315] - PAT H MCCLURE A #001. Regarding this, the sub pump failed on 3/20/2020 and it has been down since. We also lost our Regulatory Analyst since this time so I assume that a required sundry wasn't filed. I reviewed the entire Chapter 15 Part 16 and I am unable to find what I need to do to satisfy this compliance issue. I assume a filing is required that notifies the NMOTC that a well is temporarily abandoned but can you give me more detail so I can address this issue?

Thank you,

Chris Gaddy | Ops Engineer | Cambrian Management
415 W. Wall St., Ste. 900, Midland, TX 79701 | O: 432-620-9181 x27 | C: 432-634-9337

From: Socorro Hendry <shendry@Cambrianmgmt.com>
Sent: Wednesday, March 30, 2022 10:48 AM
To: Chris Gaddy <cgaddy@Cambrianmgmt.com>
Subject: FW: [EXTERNAL] LYNX OPERATING CO., INC. Compliance Report [175071]

From: Bolton, Eugene, EMNRD <Eugene.Bolton@state.nm.us>
Sent: Friday, January 28, 2022 4:47 PM
To: Socorro Hendry <shendry@cambridriamgmt.com>
Cc: Andy Rickard <arickard@cambridriamgmt.com>
Subject: [EXTERNAL] LYNX OPERATING CO., INC. Compliance Report [175071]

Greetings,

From routine well inspections conducted for operators in New Mexico, the following compliances are viewed in the Compliance Key # in the operator Well Details. Regardless of inspection date, the 90 day due date is established from the date of this email. Please ensure each field agent receives all details for each compliance. Helpful Reminder: Current operator contact information is updated via the operator's account login, within 30 days of each change.

Compliance Key #:

CEZB222851624 [30-025-05317] - PAT H MCCLURE B #002
- 19.15.29 Releases: Large release area east and SE of separator.
- Safety: Drip pan with mesh under chem drums. _ Label drums. _ Weeds

CEZB222851781 [30-025-05316] - PAT H MCCLURE A #002
- 19.15.29 Releases: Prod water release north of separator. Check chloride / chem levels.
- Safety: Drip pan with mesh under chem drum. _ Weeds at PJ & TB.

CEZB222853479 [30-025-05315] - PAT H MCCLURE A #001
- 19.15.29 Releases: TB release. Large area no vegetation south beyond TB. Release SE of separator.
- 19.15.16 Drilling and Production: Last Prod 4/1/2020 is 8 mo past due.
- 19.15.16.8 Sign on Wells: Install sign including API & footages.
- Safety: Drip pan with mesh under chem drums. _ Weeds at well & TB. _ Exposed elect lines at well.

For 19.15.29 Releases shown above:

Notice of Release (NOR) and Form C-141 are required for an aggregate site release threshold of 5 barrels fluid (1.04 cubic yard fluid), or 12 cu yards soil (avg. dumptruck load).

Process:

- Repair / replace leak source/s.
- Operator is responsible for all costs if opting to submit a complete soil sample site characterization, that may or may not preclude an excavation.

If all onsite and offsite locations are at or below the Table I criteria in 19.15.29.12.E(2) NMAC, a complete site characterization with exact soil sampling locations and concentrations, can be submitted to this email thread for review.

Remediation:

- Remove all soil mix areas to extent of horizontal and vertical contamination, both on & (if) off of well site.
- Properly dispose all materials, per rule.
- Upon excavation up to 2 foot depth, please stop work, do not cover contamination.
- Following an approved method listed in 19.15.29.11.A(5)(b) NMAC, submit soil sample concentrations and exact locations within each excavation, verifying all contamination levels are below thresholds.
- In the scaled site and sampling diagram, include the location and three photo angles of each exposed excavation, shovel included in images for perspective.
- For receiving the next process to continue, return images and concurring soil sample levels on this email thread.

Immediate operator email is required for closing each site's compliance(s).

Upon full completion of all compliances per location, include final photos to this email thread. Operator responsibilities are in 19.15 NMAC.

Thank you,

Eugene Bolton - Compliance Ofc
NM Energy, Minerals, Natural Resources Department
Oil Conservation Division District 1 – NM South
1625 N. French Drive Hobbs, NM 88240
575 / 840-5961 8-3
eugene.bolton@state.nm.us



OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat or risk to groundwater, surface water, surface constituents, human & animal health, or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

All Oil Conservation Division Forms require submitting by E-Docs. Emailed Forms are not accepted.

- Create Login: <https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/Signup/Create/Signup.aspx>
- If you have current Login info & password: <https://ocdimage.emnrd.state.nm.us/eDocs/Login.aspx>
- Notice of Release (NOR): <https://wwwapps.emnrd.state.nm.us/ocd/ocdpermitting/login.aspx>
- Register / Fee / Update: <https://wwwapps.emnrd.nm.gov/ocd/ocdpermitting/default.aspx>
- Help / FYI / FAQ: <https://wwwapps.emnrd.state.nm.us/OCD/OCDPermitting/help.aspx>
- NM OCD Reports / Forms: <https://www.srca.nm.gov/parts/title19/19.015.0007.html>
- Well File / Information Search: <https://ocdimage.emnrd.state.nm.us/imaging/>
- 19.15 NMAC Rule Archive: <https://www.srca.nm.gov/chapter-15-oil-and-gas/>
- Compliance Communication / Questions: ocdadmincomp@state.nm.us
- Environmental Communication / Questions: ocd.enviro@state.nm.us
- Completed Compliances / Photos: eugene.bolton@state.nm.us
- View Compliance/s: Log In > enter API > More Well Info > View Well Details > scroll / Quicklink to Compliance
- NEW <https://www.emnrd.nm.gov/ocd> (Main OCD Page)
- NEW <https://www.emnrd.nm.gov/ocd/ocd-gis-and-maps/> (Maps)
- NEW <https://www.emnrd.nm.gov/ocd/ocd-forms/> (Forms / PDF / DOC)
- NEW <https://www.emnrd.nm.gov/ocd/og-announcements-and-notifications/> (Info)
- NEW <https://www.emnrd.nm.gov/ocd/ocd-e-permitting/> (Permits / Sundries / Monthly Report)
- NEW <https://www.emnrd.nm.gov/ocd/oc-info-og-rules-and-forms/> (Rules / Statutes / Changes)

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[Message clipped] [View entire message](#)

3 Attachments • Scanned by Gmail

 30025053150000_...	 Sample Map with ...	 MC Clure A #2 an...
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From: Bolton, Eugene, EMNRD <Eugene.Bolton@state.nm.us>
Sent: Monday, August 29, 2022 5:35 PM
To: Chris Gaddy <cgaddy@Cambrianmgmt.com>
Cc: rustyloyd66@gmail.com; will@lynxco.biz
Subject: RE: [EXTERNAL] RE: LYNX OPERATING CO., INC. Compliance key cEZB222851781

Yes, got it, Chris.

May need to get an inspection on this one, will let you know, Sir.

Thank you for the info.

Eugene Bolton - Compliance Ofc
NM Energy, Minerals, Natural Resources Department
Oil Conservation Division District 1 – NM South
1625 N. French Drive Hobbs, NM 88240
575 / 840-5961 8-3
eugene.bolton@state.nm.us



From: Chris Gaddy <cgaddy@Cambrianmgmt.com>
Sent: Friday, August 26, 2022 8:29 AM
To: Bolton, Eugene, EMNRD <Eugene.Bolton@state.nm.us>
Cc: rustyloyd66@gmail.com; will@lynxco.biz
Subject: [EXTERNAL] RE: LYNX OPERATING CO., INC. Compliance key cEZB222851781

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Gene,

Just checking in to confirm that you received this email and data, and if you have any questions or comments.

Thanks,

Chris Gaddy | Drilling Manager | Cambrian Management
415 W. Wall St., Ste. 900, Midland, TX 79701 | O: 432-620-9181 x27 | C: 432-634-9337

From: Chris Gaddy
Sent: Friday, August 19, 2022 1:36 PM
To: 'Bolton, Eugene, EMNRD' <Eugene.Bolton@state.nm.us>
Cc: rustyloyd66@gmail.com; will@lynxco.biz
Subject: LYNX OPERATING CO., INC. Compliance key cEZB222851781

Gene,

I apologize for the delay in getting this report to you. This project has turned out to be much larger than anticipated and we wanted to present you with a complete report. We have a lot of information and it was all getting a little complicated for me, who supervised the work, so I wanted to try to get everything as organized as possible for you before submitting.

Attached please find a map (McClure A #2 figure 1) that summarizes the soil samples taken as we dug the pit that measures approximately 126' long on the east wall, 132' long on the west wall, 96' long on the north wall and 106' long on the south wall.

In all, Lynx performed 3 sets of soil samples (surface, ~2' and 4'+ to 5'+) the results of which are attached.

In reviewing case 19.15.29 NMAC, we learned that if the water table at our location is below 50' and we have dug 4' or lower, the chloride target moves from 600 ppm to 10,000 ppm. Figure 2 shows that within half a mile of our location, 7 water wells were drilled within the last few years, all whose water tables were at 65'.

We have also attached a document (McClure A2 Soil Sample Coordinates_complete) that shows the GPS coordinates and depth of each point taken in the history of our analysis.

All excavated soil was hauled by King Oilfield Services to Gandy Marley for disposal. As such, it is our belief that with the attached lab results, Lynx has satisfied the requirements under case 19.15.29 NMAC. With OCD approval, we will begin backfill and reclamation efforts. If you'd like to do a site inspection, we would welcome the opportunity to meet you there

Please call or email me with questions/comments.

Thanks,

Chris Gaddy | Drilling Manager | [Cambrian Management](#)
415 W. Wall St., Ste. 900, Midland, TX 79701 | O: 432-620-9181 x27 | C: 432-634-9337

Chris Gaddy

to Jocelyn,, Michael,, will@lynxco.biz, rustyloyd66@gmail.com

Nov 11, 2022, 11:29 AM (6 days ago)

Good morning Ms. Harimon,

I appreciate your quick response and I have a couple of questions.

Please see the attached that contains photos with a hand drawn map of the sample points. If we add the geo locators from previously submitted *McClure A2 Soil Sample Coordinates* and descriptions from *McClure A #2 Figure 1* to the photos in the attached, will this satisfy your submission requirements?

Thanks,

Chris Gaddy | Drilling Manager/Engineer | Cambrian Management

415 W. Wall St., Ste. 900, Midland, TX 79701 | O: 432-620-9181 x27 | C: 432-634-9337

From: Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>

Sent: Monday, November 7, 2022 2:30 PM

To: Chris Gaddy <cgaddy@Cambrianmgmt.com>; Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; will@lynxco.biz; rustyloyd66@gmail.com

Subject: RE: [EXTERNAL] LYNX OPERATING CO., INC. Compliance key cEZB222851781

Good afternoon Mr. Gaddy,

Regarding the closure request for *McClure A #2*. The OCD is unable to approve closure for this site with the information provided. Please provide the following and resubmit for evaluation.

- A detailed description and map of areas excavated and the corresponding depths.
- Photographic documentation of the excavated areas with descriptions and geo locators.

If you have any further questions, please feel free to contact me.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@state.nm.us

<http://www.emnrd.nm.gov>



From: Chris Gaddy <cgaddy@Cambrianmgmt.com>

Sent: Friday, November 4, 2022 12:28 PM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Cc: Bolton, Eugene, EMNRD <Eugene.Bolton@emnrd.nm.gov>; Bolton, Eugene, EMNRD <Eugene.Bolton@emnrd.nm.gov>; will@lynxco.biz; rustyloyd66@gmail.com

Subject: [EXTERNAL] LYNX OPERATING CO., INC. Compliance key cEZB222851781

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Dear OCD Environmental,

Per direction from Eugene Bolton, I am requesting your decision to close this case per the attached soil sample results and other documentation.

McClure A #2 figure 1 map summarizes the soil samples taken as we dug the pit that measures approximately 126' long on the east wall, 132' long on the west wall, 96' long on the north wall and 106' long on the south wall.

In all, Lynx performed 3 sets of soil samples (surface, ~2' and 4'+ to 5'+) the results of which are attached.

In reviewing case 19.15.29 NMAC, we learned that if the water table at our location is below 50' and we have dug 4' or lower, the chloride target moves from 600 ppm to 10,000 ppm. Figure 2 shows that within half a mile of our location, 7 water wells were drilled within the last few years, all whose water tables were at 65'.

McClure A2 Soil Sample Coordinates_complete shows the GPS coordinates and depth of each point taken in the history of our analysis.

All excavated soil was hauled by King Oilfield Services to Gandy Marley for disposal. As such, it is our belief that with the attached lab results, Lynx has satisfied the requirements under case 19.15.29 NMAC. With OCD Environmental approval, we will begin backfill and reclamation efforts.

Please call or email me with questions/comments.

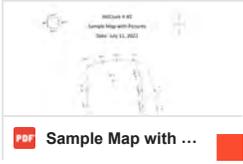
Thanks,

Chris Gaddy | Drilling Manager/Engineer | Cambrian Management
415 W. Wall St., Ste. 900, Midland, TX 79701 | O: 432-620-9181 x27 | C: 432-634-9337

...

[Message clipped] [View entire message](#)

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From: Hamlet, Robert, EMNRD <Robert.Hamlet@emnrd.nm.gov>
Sent: Monday, November 14, 2022 2:27 PM
To: Chris Gaddy <cgaddy@Cambrianmgmt.com>
Cc: Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Harimon, Jocelyn, EMNRD <Jocelyn.Harimon@emnrd.nm.gov>
Subject: RE: [EXTERNAL] LYNX OPERATING CO., INC. Compliance key cEZB222851781

Chris,

The incident report will need to be uploaded to the OCD Payment Portal for review if not completed already. An Environmental Specialist will review the report and a notification will be sent with the decision.

Regards,

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
506 W. Texas Ave. | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Wednesday, January 4, 2023 12:10 PM
To: Chris Gaddy <chris.gaddy@octane-energy.com>
Subject: The Oil Conservation Division (OCD) has rejected the application, Application ID: 162216

To whom it may concern (c/o Chris Gaddy for LYNX OPERATING CO., INC.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nAPP2233344921, for the following reasons:

- **Closure Report Denied. Sidewall samples should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to establish the edge of the release. Sidewall/Floor samples should represent no more than 200 ft². Please indicate on site map where pad boundary ends and pasture begins. Please note the lat/long noted is slightly off as the release occurred approximately 400 feet south-southwest of the provided coordinates. Please make sure C141 is signed by operator. Please resubmit a revised closure report to the OCD portal by February 4, 2023.**

The rejected C-141 can be found in the OCD Online: Permitting - Action Status, under the Application ID: 162216.

Please review and make the required correction(s) prior to resubmitting.

If you have any questions why this application was rejected or believe it was rejected in error, please contact me prior to submitting an additional C-141.

Thank you,
Jennifer Nobui
Environmental Specialist-Advanced
505-470-3407
Jennifer.Nobui@emnrd.nm.gov

New Mexico Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, NM 87505

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Cindy Crain <cindy.crain@gmail.com>

Jan 22, 2023,
1:02 PM

to Jennifer,

Hi Jennifer -

Thank you for speaking with me regarding the rejected application for Incident # nAPP2233344921.

Since we last spoke, additional soil samples were collected from the bottom and sidewalls for analysis of TPH, BTEX, and/or chlorides (as necessary).

Attached please find an updated Table 1 (Summary of Soil Sample Analytical Results) and Figure 2 (Soil Sample Analytical Results Map). All final soil samples report concentrations of TPH, BTEX, and chlorides below the OCD Closure Criteria.

I am hoping that you have time to review the attached documentation and let me know if these results provide enough information for you to approve backfill and closure of this Site. If you are in agreement, we will submit the revised closure report to the fee portal by February 4, 2023 as you requested.

Please let me know if you have any questions or need additional information.

Thank you,
Cindy Crain

--

Crain Environmental
2925 East 17th Street
Odessa, TX 79761
(575) 441-7244

Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov> Jan 23, 2023,
10:00 AM

to me

Hi Cindy

I am still waiting on Mike to let me know when he can set up a call with you but he has been pretty busy. However he did say the rules say the release needs to be fully delineated and you delineate laterally to 600/100, so he told me its always been that way. Let me know if you still want to set up a call with Mike. In the meantime, I will review your email below and get back to you.

Thanks
Jennifer Nobui

From: Cindy Crain <cindy.crain@gmail.com>
Sent: Sunday, January 22, 2023 12:03 PM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Subject: [EXTERNAL] Re: FW: The Oil Conservation Division (OCD) has rejected the application, Application ID: 162216

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.



Cindy Crain <cindy.crain@gmail.com>

Jan 23, 2023,
10:44 AM

to Jennifer,

Jennifer,

Based on the information provided in the attachments that I emailed to you, I believe that this site has been fully delineated. If that is the case, there is no need to set up a call with Mike.

Please let me know what you think once you've had a chance to look it over.

Thank you!
Cindy Crain



Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov> Jan 23, 2023,
10:47 AM

to Michael,, me

Hello Cindy

I have reviewed the attached figure and table and you still have several lateral samples exceeding 600 mg/kg of chloride.

Here are just a few examples:

West at 4.4' 880 mg/kg chloride

North 3,680 mg/kg chloride

The release needs to be delineated laterally to 600 mg/kg. Your samples were collected >4' but these lateral samples still did not define the edge of the release so if you could step out a further to get to the edge we would then have the needed delineation.

Let me know if you have any questions.

Thanks,
Jennifer Nobui

Cindy Crain <cindy.crain@gmail.com>

Jan 23, 2023,
11:20 AM

to Jennifer,, Michael,

Jennifer,

Thank you for reviewing and getting back to me so quickly!

It is my understanding of the regulations that the upper 4 feet be delineated to 600/100, and at depths below 4' the concentrations are determined by the criteria in 19.15.29.12 NMAC. The information provided in the Closure Report, indicates that this site falls into the mid-level closure criteria.

If Mike has time to take a look and clarify, I would greatly appreciate it!

Sincerely,
Cindy Crain

Chris Gaddy <chris.gaddy@octane-energy.com>

Jan 30, 2023,
4:33 PM

to OCDOnline@state.nm.us, Chris, me

Ms. Nobui,

We respectfully request a 90 day extension to comply with OCD requirements and complete a revised closure report. Clarification of OCD regulations could require additional personnel and equipment scheduling, sample acquisition, lab testing, etc.

We will make it a priority to finalize any addition testing requirements and submit the revised Closure Report ASAP after we get clarification.

Thanks,
Chris

Nobui, Jennifer, EMNRD

Mon, Feb 13,
10:05 AM

to me

Hello Cindy

I wanted to let you know that I haven't forgotten about your request to meet with us. Mike Bratcher has been insanely busy these past weeks. You are on my list to reach out to but its taking some time and I didn't want you to think I forgot about your request. Your question had to do with lateral delineation on the pad and below is a reply Mike and the other regulators have provided.

"Please continue to horizontally delineate sample points () to 600 mg/kg for chlorides/ 100 mg/kg TPHH etc on the outer edges/periphery and include sample points in your next report after closure criteria limits have been met. While vertical definition of contamination that may be acceptable is almost exclusively driven by depth to water, as determined, and as driven by Table I in rule, horizontal definition if different. The edges (horizontal definition) of a liquid release must be determined as well. The only value for determination of horizontal impact are derived by either "background" value as determined appropriate to Rule 29, or, for chloride, 600 mg/Kg in soils. This 600 mg/Kg value is discussed in detail in 19.15.29.13 D. (1). Therefore, horizontal soils delineation for chloride should be 600 mg/kG (again, or background) for all liquid releases, either on or off production pad."

This has always been the case. We need to know the extent of the release and if its on pad, we want to know the extent and if it ran off pad. So regardless of depth to groundwater, on pad and even off pad, we will always want to know the extent of the release, both vertically and laterally.

Let me know if this explanation helps at all, please feel free to call me.

Thanks,

Jennifer Nobui, PG • Environmental Specialist A
Environmental Bureau
EMNRD - Oil Conservation Division
5200 Oakland Avenue N.E Suite 100 | Albuquerque, NM 87113
505.470-3407 | Jennifer.Nobui@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>

Nobui, Jennifer, EMNRD

Feb 16, 2023,
2:11 PM

to Michael,, Jocelyn,, Robert,, Chris, me

Hello Chris

OCD approves your request for a 90-day extension to May 4, 2023 to submit a revised closure report. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,
Jennifer Nobui



Cindy Crain <cindy.crain@gmail.com>

Fri, Feb 17,
9:36 AM

to Jennifer

Hi Jennifer,

Thank you for reaching back out to me, and for providing the reply that Mike and other regulators had provided.

I still question whether or not soil below a depth of 4' bgs needs to be horizontally delineated to 600 mg/kg chloride and 100 mg/kg TPH, regardless of depth to groundwater, etc.

I'll look forward to hearing back from you.

Sincerely,
Cindy Crain

--

Crain Environmental
2925 East 17th Street
Odessa, TX 79761
(575) 441-7244

Nobui, Jennifer, EMNRD

Thu, Feb 23, 1:45 PM (11
days ago)

to Michael,, me

Hi Cindy

Can you take a call next Tuesday 2/28 at 10am MST? If you can, please send Mike and I an evite to schedule our calendars.



Cindy Crain <cindy.crain@gmail.com>

Feb 24, 2023, 9:21 AM (10 days ago)

to Jennifer,, Michael,

Jennifer,

That date and time works for me. I sent evites to you and Mike.

Thank you,
Cindy Crain

Appendix B: Laboratory Analytical Reports



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 27, 2022

JOSE MARRUFO
KING OILFIELD SERVICES, LLC
400 N. 16TH
LOVINGTON, NM 88260

RE: MC CLURE A #2

Enclosed are the results of analyses for samples received by the laboratory on 05/23/22 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. 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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene".

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH 1 (H222178-01)

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	05/26/2022	ND	2.09	105	2.00	2.26	
Toluene*	<0.050	0.050	05/26/2022	ND	2.06	103	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/26/2022	ND	1.99	99.5	2.00	2.62	
Total Xylenes*	<0.150	0.150	05/26/2022	ND	6.13	102	6.00	3.00	
Total BTEX	<0.300	0.300	05/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	191	95.3	200	0.0556		
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	184	92.1	200	1.59		
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND						

Surrogate: 1-Chlorooctane 134 % 66.9-136

Surrogate: 1-Chlorooctadecane 146 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH 2 (H222178-02)

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	05/26/2022	ND	2.09	105	2.00	2.26	
Toluene*	<0.050	0.050	05/26/2022	ND	2.06	103	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/26/2022	ND	1.99	99.5	2.00	2.62	
Total Xylenes*	<0.150	0.150	05/26/2022	ND	6.13	102	6.00	3.00	
Total BTEX	<0.300	0.300	05/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/26/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	191	95.3	200	0.0556	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	184	92.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 104 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH 3 (H222178-03)

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	05/26/2022	ND	2.09	105	2.00	2.26	
Toluene*	<0.050	0.050	05/26/2022	ND	2.06	103	2.00	2.03	
Ethylbenzene*	<0.050	0.050	05/26/2022	ND	1.99	99.5	2.00	2.62	
Total Xylenes*	<0.150	0.150	05/26/2022	ND	6.13	102	6.00	3.00	
Total BTEX	<0.300	0.300	05/26/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	05/26/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	191	95.3	200	0.0556	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	184	92.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 130 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH 4 (H222178-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46	
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/26/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	191	95.3	200	0.0556	
DRO >C10-C28*	77.2	10.0	05/26/2022	ND	184	92.1	200	1.59	
EXT DRO >C28-C36	19.7	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 119 % 66.9-136

Surrogate: 1-Chlorooctadecane 132 % 59.5-142

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH 5 (H222178-05)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46		
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970		
Total BTEX	<0.300	0.300	05/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/26/2022	ND	416	104	400	3.77	QM-07	

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	191	95.3	200	0.0556		
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	184	92.1	200	1.59		
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND						

Surrogate: 1-Chlorooctane 127 % 66.9-136

Surrogate: 1-Chlorooctadecane 138 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: MIDDLE 1 (H222178-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46	
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	191	95.3	200	0.0556	
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	184	92.1	200	1.59	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 121 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: MIDDLE 2 (H222178-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46	
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	05/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	191	95.3	200	0.0556	
DRO >C10-C28*	24.9	10.0	05/26/2022	ND	184	92.1	200	1.59	
EXT DRO >C28-C36	12.1	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 113 % 66.9-136

Surrogate: 1-Chlorooctadecane 125 % 59.5-142

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: MIDDLE 3 (H222178-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46	
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1100	16.0	05/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	20.7	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	11.7	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 95.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.9 % 59.5-142

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: MIDDLE 4 (H222178-09)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46	
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1800	16.0	05/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	25.0	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 86.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 91.2 % 59.5-142

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: MIDDLE 5 (H222178-10)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46	
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	05/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35	
DRO >C10-C28*	24.1	10.0	05/26/2022	ND	197	98.5	200	2.02	
EXT DRO >C28-C36	22.3	10.0	05/26/2022	ND					

Surrogate: 1-Chlorooctane 83.7 % 66.9-136

Surrogate: 1-Chlorooctadecane 86.9 % 59.5-142

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH 1 (H222178-11)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46		
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970		
Total BTEX	<0.300	0.300	05/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35		
DRO >C10-C28*	<10.0	10.0	05/26/2022	ND	197	98.5	200	2.02		
EXT DRO >C28-C36	<10.0	10.0	05/26/2022	ND						

Surrogate: 1-Chlorooctane 72.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 74.1 % 59.5-142

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH 2 (H222178-12)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46	
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	05/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35		
DRO >C10-C28*	2490	10.0	05/26/2022	ND	197	98.5	200	2.02		
EXT DRO >C28-C36	875	10.0	05/26/2022	ND						

Surrogate: 1-Chlorooctane 90.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 242 % 59.5-142

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH 3 (H222178-13)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46		
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970		
Total BTEX	<0.300	0.300	05/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2000	16.0	05/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS							S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10*	<10.0	10.0	05/26/2022	ND	189	94.6	200	7.35			
DRO >C10-C28*	3460	10.0	05/26/2022	ND	197	98.5	200	2.02			
EXT DRO >C28-C36	1450	10.0	05/26/2022	ND							

Surrogate: 1-Chlorooctane 100 % 66.9-136

Surrogate: 1-Chlorooctadecane 406 % 59.5-142

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH 4 (H222178-14)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/27/2022	ND	1.96	98.0	2.00	2.46	
Toluene*	<0.050	0.050	05/27/2022	ND	2.01	100	2.00	2.61	
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.93	96.5	2.00	1.46	
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.73	95.4	6.00	0.970	
Total BTEX	<0.300	0.300	05/27/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	05/26/2022	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	196	97.8	200	3.71	
DRO >C10-C28*	15.6	10.0	05/25/2022	ND	188	93.8	200	4.78	QM-07
EXT DRO >C28-C36	<10.0	10.0	05/25/2022	ND					

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	05/23/2022	Sampling Date:	05/23/2022
Reported:	05/27/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH 5 (H222178-15)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2022	ND	2.01	101	2.00	0.885		
Toluene*	<0.050	0.050	05/27/2022	ND	2.08	104	2.00	2.13		
Ethylbenzene*	<0.050	0.050	05/27/2022	ND	1.99	99.6	2.00	1.33		
Total Xylenes*	<0.150	0.150	05/27/2022	ND	5.95	99.2	6.00	1.20		
Total BTEX	<0.300	0.300	05/27/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3600	16.0	05/26/2022	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	05/25/2022	ND	196	97.8	200	3.71		
DRO >C10-C28*	195	10.0	05/25/2022	ND	188	93.8	200	4.78		
EXT DRO >C28-C36	90.3	10.0	05/25/2022	ND						

Surrogate: 1-Chlorooctane 118 % 66.9-136

Surrogate: 1-Chlorooctadecane 118 % 59.5-142

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Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: <i>Kins Oilfield Services LLC</i>	P.O. #:
Project Manager: <i>Jose Morrofo</i>	Company: <i>Cambridge Management</i>
Address: <i>400 N 16th</i>	Attn:
City: <i>LOUINSTEAD</i>	Address: <i>PO Box 272</i>
State: <i>NM</i> Zip: <i>88260</i>	
Phone #: <i>575)942-4998</i> Fax #:	City: <i>Midland</i>
Project #: <i>601</i> Project Owner: <i>Lynx Operating</i>	State: <i>TX</i> Zip: <i>75702</i>
Project Name: <i>McClure A # 2</i>	Phone #: <i>432.620.9181</i>
Project Location: <i>Rural Lea County, NM</i>	Fax #: <i>432.570.0102</i>
Sampler Name: <i>Jose Morrofo</i>	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
<i>A222178</i>	<i>1</i>	<i>G</i>	<i>1</i>	<i>X</i>								<i>5-23-22</i>	<i>0700</i>	<i>Chloride</i>	<i>✓</i>
	<i>2</i>			<i>X</i>										<i>Tph (8015M)</i>	<i>✓</i>
	<i>3</i>			<i>X</i>										<i>BTX (8021R)</i>	<i>✓</i>
	<i>4</i>			<i>X</i>											
	<i>5</i>			<i>X</i>											
	<i>10</i>			<i>X</i>											

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Relinquished By: _____ Date: *5-23-22* Time: *0820*

Received By: *Jamara [Signature]* Date: _____ Time: _____

Observed Temp. °C: *2.9* Corrected Temp. °C: *2.4*

Sample Condition: Cool Intact

Checked By: *je.*

Remarks: *AP@cardinalnm.com*
Kins Oilfield Services LLC @ yahoo.com

Turnaround Time: Standard Rush

Bacteria (only) Sample Condition: Cool Intact

Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinalabnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 14, 2022

JOSE MARRUFO
KING OILFIELD SERVICES, LLC
400 N. 16TH
LOVINGTON, NM 88260

Cambrian
JUL 19 2022
Received

RE: MC CLURE A #2

Enclosed are the results of analyses for samples received by the laboratory on 07/12/22 10:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: PIT DIRT (H222986-01)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	102	2.00	2.37	
Toluene*	<0.050	0.050	07/13/2022	ND	2.13	107	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.17	108	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.70	112	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 73.8 % 43-149

Surrogate: 1-Chlorooctadecane 80.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: PIT CALICHE (H222986-02)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	102	2.00	2.37	
Toluene*	<0.050	0.050	07/13/2022	ND	2.13	107	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.17	108	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.70	112	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 79.1 % 43-149

Surrogate: 1-Chlorooctadecane 83.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: FLOOR NORTH (H222986-03)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	102	2.00	2.37	
Toluene*	<0.050	0.050	07/13/2022	ND	2.13	107	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.17	108	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.70	112	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1500	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	14.1	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 69.1 % 43-149

Surrogate: 1-Chlorooctadecane 75.2 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: FLOOR SOUTH (H222986-04)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	102	2.00	2.37	
Toluene*	<0.050	0.050	07/13/2022	ND	2.13	107	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.17	108	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.70	112	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 117 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	432	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 63.7 % 43-149

Surrogate: 1-Chlorooctadecane 66.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: FLOOR EAST (H222986-05)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	102	2.00	2.37	
Toluene*	<0.050	0.050	07/13/2022	ND	2.13	107	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.17	108	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.70	112	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 119 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1940	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 97.5 % 43-149

Surrogate: 1-Chlorooctadecane 107 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH WALL #1 (H222986-06)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	102	2.00	2.37	
Toluene*	<0.050	0.050	07/13/2022	ND	2.13	107	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.17	108	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.70	112	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 105 % 43-149

Surrogate: 1-Chlorooctadecane 112 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH WALL #2 (H222986-07)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	102	2.00	2.37	
Toluene*	<0.050	0.050	07/13/2022	ND	2.13	107	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.17	108	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.70	112	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1440	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 77.3 % 43-149

Surrogate: 1-Chlorooctadecane 82.5 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH WALL #3 (H222986-08)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	102	2.00	2.37	
Toluene*	<0.050	0.050	07/13/2022	ND	2.13	107	2.00	2.71	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.17	108	2.00	2.06	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.70	112	6.00	2.78	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	90.4	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	41.8	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 75.4 % 43-149

Surrogate: 1-Chlorooctadecane 89.4 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH WALL #4 (H222986-09)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1840	16.0	07/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81		
DRO >C10-C28*	64.8	10.0	07/12/2022	ND	175	87.6	200	16.0		
EXT DRO >C28-C36	32.8	10.0	07/12/2022	ND						

Surrogate: 1-Chlorooctane 77.7 % 43-149

Surrogate: 1-Chlorooctadecane 85.9 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
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Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: EAST WALL #1 (H222986-10)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2720	16.0	07/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81		
DRO >C10-C28*	49.9	10.0	07/12/2022	ND	175	87.6	200	16.0		
EXT DRO >C28-C36	37.5	10.0	07/12/2022	ND						

Surrogate: 1-Chlorooctane 71.8 % 43-149

Surrogate: 1-Chlorooctadecane 78.0 % 42.5-161

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Analytical Results For:

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 LOVINGTON NM, 88260
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Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: EAST WALL #2 (H222986-11)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17	
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.4 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3960	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 72.3 % 43-149

Surrogate: 1-Chlorooctadecane 77.9 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: EAST WALL #3 (H222986-12)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17	
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2720	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81	
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0	
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND					

Surrogate: 1-Chlorooctane 75.8 % 43-149

Surrogate: 1-Chlorooctadecane 81.4 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: EAST WALL BOTTOM #1 (H222986-13)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 98.8 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1760	16.0	07/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/12/2022	ND	197	98.4	200	5.81		
DRO >C10-C28*	<10.0	10.0	07/12/2022	ND	175	87.6	200	16.0		
EXT DRO >C28-C36	<10.0	10.0	07/12/2022	ND						

Surrogate: 1-Chlorooctane 79.5 % 43-149

Surrogate: 1-Chlorooctadecane 81.8 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: EAST WALL BOTTOM #2 (H222986-14)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17	
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1570	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286	
DRO >C10-C28*	19.6	10.0	07/13/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 77.5 % 43-149

Surrogate: 1-Chlorooctadecane 87.1 % 42.5-161

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KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: EAST WALL BOTTOM #3 (H222986-15)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3440	16.0	07/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286		
DRO >C10-C28*	36.0	10.0	07/13/2022	ND	198	98.9	200	2.33		
EXT DRO >C28-C36	17.8	10.0	07/13/2022	ND						

Surrogate: 1-Chlorooctane 92.0 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH WALL #1 (H222986-16)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2440	16.0	07/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286		
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	198	98.9	200	2.33		
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND						

Surrogate: 1-Chlorooctane 71.2 % 43-149

Surrogate: 1-Chlorooctadecane 74.1 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH WALL #2 (H222986-17)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PII) 99.1 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2880	16.0	07/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286		
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	198	98.9	200	2.33		
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND						

Surrogate: 1-Chlorooctane 76.1 % 43-149

Surrogate: 1-Chlorooctadecane 79.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH WALL #3 (H222986-18)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	07/13/2022	ND	400	100	400	3.92		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286		
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	198	98.9	200	2.33		
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND						

Surrogate: 1-Chlorooctane 95.3 % 43-149

Surrogate: 1-Chlorooctadecane 102 % 42.5-161

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Celestina Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
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 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH WALL #4 (H222986-19)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17	
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	896	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 78.5 % 43-149

Surrogate: 1-Chlorooctadecane 91.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH WALL #5 (H222986-20)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17	
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 99.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	560	16.0	07/13/2022	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 62.9 % 43-149

Surrogate: 1-Chlorooctadecane 68.9 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: WEST WALL #1 (H222986-21)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17	
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	07/13/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 94.9 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: WEST WALL #2 (H222986-22)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIC) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	928	16.0	07/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286		
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	198	98.9	200	2.33		
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND						

Surrogate: 1-Chlorooctane 91.5 % 43-149

Surrogate: 1-Chlorooctadecane 100 % 42.5-161

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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: WEST WALL #3 (H222986-23)

BTEX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/13/2022	ND	1.86	93.0	2.00	5.17		
Toluene*	<0.050	0.050	07/13/2022	ND	1.92	95.9	2.00	5.17		
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	1.95	97.5	2.00	5.58		
Total Xylenes*	<0.150	0.150	07/13/2022	ND	5.95	99.2	6.00	5.77		
Total BTEX	<0.300	0.300	07/13/2022	ND						

Surrogate: 4-Bromofluorobenzene (PIL) 99.5 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1860	16.0	07/13/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286		
DRO >C10-C28*	21.4	10.0	07/13/2022	ND	198	98.9	200	2.33		
EXT DRO >C28-C36	10.6	10.0	07/13/2022	ND						

Surrogate: 1-Chlorooctane 93.1 % 43-149

Surrogate: 1-Chlorooctadecane 101 % 42.5-161

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/12/2022	Sampling Date:	07/11/2022
Reported:	07/14/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: WEST WALL #4 (H222986-24)

BTEX 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/13/2022	ND	2.03	101	2.00	5.01	
Toluene*	<0.050	0.050	07/13/2022	ND	2.11	105	2.00	4.68	
Ethylbenzene*	<0.050	0.050	07/13/2022	ND	2.16	108	2.00	5.14	
Total Xylenes*	<0.150	0.150	07/13/2022	ND	6.65	111	6.00	5.63	
Total BTEX	<0.300	0.300	07/13/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 118 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1950	16.0	07/13/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	07/13/2022	ND	212	106	200	0.286	
DRO >C10-C28*	<10.0	10.0	07/13/2022	ND	198	98.9	200	2.33	
EXT DRO >C28-C36	<10.0	10.0	07/13/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 43-149

Surrogate: 1-Chlorooctadecane 87.0 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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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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Coley D. Keene

Coley D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: Lynx Oilfield Services, LLC
 Project Manager: Doree McArthur
 Address: 400 N 16th Street
 City: Lawton State: NM Zip: 58100
 Phone #: 575-942-4998 Fax #: _____
 Project #: _____ Project Owner: Lynx Operating
 Project Name: McClure A #2
 Project Location: Royal Lea County, NM
 Sampler Name: Doree McArthur
 FOR LAB USE ONLY

P.O. #: _____ Company: Cambron Nigh
 Address: Po Box 212
 City: Hildand State: TX Zip: 79702
 Phone #: 432-626-9181 Fax #: 432-576-0102

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE			
<u>H002986</u>	<u>wild well #1</u>	<u>G</u>	<u>1</u>			<u>✓</u>							<u>Chloride</u>
	<u>wild well #2</u>	<u>G</u>	<u>1</u>										<u>TPH (8015M)</u>
	<u>wild well #3</u>	<u>G</u>	<u>1</u>										<u>BTex (8021B)</u>
	<u>wild well #4</u>	<u>G</u>	<u>1</u>										

Relinquished By: _____ Date: 7-12-22 Received By: Jamara Chabrye Date: 7-12-22
 Time: 1050
 Relinquished By: _____ Date: _____ Received By: _____ Date: _____

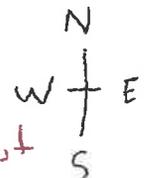
Delivered By: (Circle One) Observed Temp. °C 20 Sample Condition: Intact Cool Yes No
 Corrected Temp. °C 19.4 CHECKED BY: AO (Initials)

Turnaround Time: _____ Standard Bacteria (only) Sample Condition Rush Cool Intact Yes No
 Thermometer ID #113 Correction Factor -0.5°C

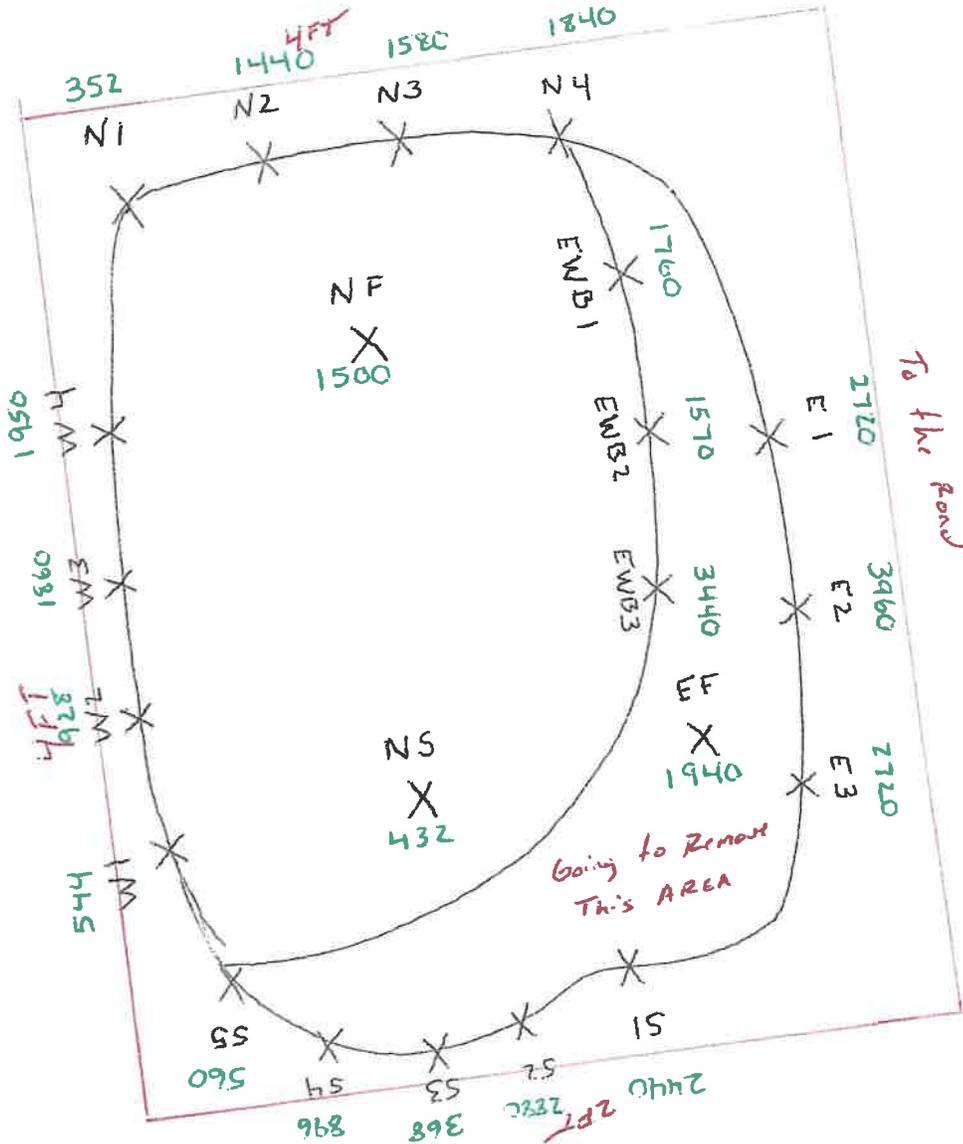
Vertical Result: Yes No Add'l Phone #: _____
 All Results are emailed. Please provide Email address: _____

REMARKS: _____

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com



RED - What is going to be dug out
 GREEN - Sample Levels. = chloride



SAMPLES 7/11/22 9:00AM

Got 1 sample at caliche pit 64.0
 1 sample of dirt pit 96.0



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 04, 2022

JOSE MARRUFO
KING OILFIELD SERVICES, LLC
400 N. 16TH
LOVINGTON, NM 88260

RE: MC CLURE A #2

Enclosed are the results of analyses for samples received by the laboratory on 07/29/22 10:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH (H223354-01)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3680	16.0	08/02/2022	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					

Surrogate: 1-Chlorooctane 85.3 % 43-149

Surrogate: 1-Chlorooctadecane 87.8 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: WEST (H223354-02)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	08/02/2022	ND	432	108	400	0.00	QM-07

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					

Surrogate: 1-Chlorooctane 95.1 % 43-149

Surrogate: 1-Chlorooctadecane 91.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH (H223354-03)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 91.4 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	08/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/02/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/02/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/02/2022	ND					

Surrogate: 1-Chlorooctane 99.6 % 43-149

Surrogate: 1-Chlorooctadecane 93.7 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: NORTH FLOOR (H223354-04)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.9 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 107 % 43-149

Surrogate: 1-Chlorooctadecane 103 % 42.5-161

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

KING OILFIELD SERVICES, LLC
 JOSE MARRUFO
 400 N. 16TH
 LOVINGTON NM, 88260
 Fax To:

Received:	07/29/2022	Sampling Date:	07/29/2022
Reported:	08/04/2022	Sampling Type:	Soil
Project Name:	MC CLURE A #2	Sampling Condition:	Cool & Intact
Project Number:	001	Sample Received By:	Tamara Oldaker
Project Location:	LYNX OPERATING - LEA CO NM		

Sample ID: SOUTH FLOOR (H223354-05)

BTEX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/03/2022	ND	2.02	101	2.00	1.87	
Toluene*	<0.050	0.050	08/03/2022	ND	2.08	104	2.00	2.56	
Ethylbenzene*	<0.050	0.050	08/03/2022	ND	2.10	105	2.00	2.22	
Total Xylenes*	<0.150	0.150	08/03/2022	ND	6.35	106	6.00	3.11	
Total BTEX	<0.300	0.300	08/03/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2000	16.0	08/02/2022	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/03/2022	ND	243	121	200	1.83	
DRO >C10-C28*	<10.0	10.0	08/03/2022	ND	252	126	200	2.49	
EXT DRO >C28-C36	<10.0	10.0	08/03/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 43-149

Surrogate: 1-Chlorooctadecane 94.9 % 42.5-161

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: King Oilfield Services, LLC
 Project Manager: Jose Marrufo
 Address: 400 N 16th Street
 City: Lovington State: NM Zip: 88260
 Phone #: 575-942-4998 Fax #: 575-942-4998
 Project #: 001 Project Owner: Lynx Operating
 Project Name: McClure A #2
 Project Location: Rural Lea County, NM
 Sampler Name: Jose Marrufo
 P.O. #: Company: Cambrian Mgmt.
 Address: PO Box 272
 City: Midland State: TX Zip: 79702
 Phone #: 432-620-9181 Fax #: 432-570-0102

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:			
H223354	North	G	1								7-29-22	0900	Chloride
	West												Tph (8015M)
	South												BTex (8021B)
	North Floor												
	South Floor												

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Relinquished By: [Signature]
 Date: 7-29-22
 Received By: [Signature]
 Date: 7-29-22
 Verbal Result: Yes No Add'l Phone #:
 All Results are emailed. Please provide Email address:
 REMARKS:

Delivered By: (Circle One) Observed Temp. °C 4.7 Sample Condition Cool Intact Yes No
 Corrected Temp. °C 4.81 Bacteria (only) Sample Condition Cool Intact Yes No
 Checked By: (Initials) JPD. Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No
 Corrected Temp. °C

FOR WOOD PC 2 10/07/21

† Cardinal cannot accept verbal changes. Please email changes to cely.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 16, 2023

CINDY CRAIN
CRAIN ENVIRONMENTAL
2925 E. 17TH STREET
ODESSA, TX 79761

RE: MC CLURE A # 2

Enclosed are the results of analyses for samples received by the laboratory on 01/09/23 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 accredited through the State of Colorado Department of Public Health and Environment for:

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

Cardinal Laboratories is accredited through the State of New Mexico Environment Department for:

Method SM 9223-B Total Coliform and E. coli (Colilert MMO-MUG)
Method EPA 524.2 Regulated VOCs and Total Trihalomethanes (TTHM)
Method EPA 552.2 Total Haloacetic Acids (HAA-5)

Accreditation applies to public drinking water matrices for State of Colorado and New Mexico.

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



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CRAIN ENVIRONMENTAL
2925 E. 17TH STREET
ODESSA TX, 79761

Project: MC CLURE A # 2
Project Number: NOT GIVEN
Project Manager: CINDY CRAIN
Fax To: (432) 272-0304

Reported:
16-Jan-23 16:49

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
W WALL 3 (2')	H230096-01	Soil	07-Jan-23 10:40	09-Jan-23 14:00
W WALL 2 (2')	H230096-02	Soil	07-Jan-23 10:45	09-Jan-23 14:00
W WALL 1 (2')	H230096-03	Soil	07-Jan-23 10:50	09-Jan-23 14:00
E WALL 3 (2')	H230096-04	Soil	07-Jan-23 10:55	09-Jan-23 14:00
E WALL 2 (2')	H230096-05	Soil	07-Jan-23 11:00	09-Jan-23 14:00
E WALL 1 (2')	H230096-06	Soil	07-Jan-23 11:05	09-Jan-23 14:00
S WALL 6 (2')	H230096-07	Soil	07-Jan-23 11:10	09-Jan-23 14:00
S WALL 6 (5')	H230096-08	Soil	07-Jan-23 11:15	09-Jan-23 14:00
S WALL 7 (2')	H230096-09	Soil	07-Jan-23 11:20	09-Jan-23 14:00
S WALL 7 (5')	H230096-10	Soil	07-Jan-23 11:25	09-Jan-23 14:00
S WALL 8 (2')	H230096-11	Soil	07-Jan-23 11:30	09-Jan-23 14:00
S WALL 8 (5')	H230096-12	Soil	07-Jan-23 11:35	09-Jan-23 14:00
SP - 1	H230096-13	Soil	07-Jan-23 11:40	09-Jan-23 14:00
SP - 2	H230096-14	Soil	07-Jan-23 11:45	09-Jan-23 14:00
SP - 3	H230096-15	Soil	07-Jan-23 11:50	09-Jan-23 14:00
SP - 4	H230096-16	Soil	07-Jan-23 11:55	09-Jan-23 14:00
SP - 5	H230096-17	Soil	07-Jan-23 12:00	09-Jan-23 14:00
SP - 6	H230096-18	Soil	07-Jan-23 12:05	09-Jan-23 14:00

01/16/22 - Client added BTEX to samples 01-07, 09 and 11 (see COC). This is the revised report and will replace the one sent on 01/12/22.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CRAIN ENVIRONMENTAL
2925 E. 17TH STREET
ODESSA TX, 79761

Project: MC CLURE A # 2
Project Number: NOT GIVEN
Project Manager: CINDY CRAIN
Fax To: (432) 272-0304

Reported:
16-Jan-23 16:49

W WALL 3 (2')
H230096-01 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	128		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Surrogate: 4-Bromofluorobenzene (PID)			126 %	71.5-134		3011334	JH	16-Jan-23	8021B	

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctane			63.0 %	48.2-134		3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			66.0 %	49.1-148		3010931	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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**W WALL 2 (2')
 H230096-02 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			128 %	71.5-134		3011334	JH	16-Jan-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			63.6 %	48.2-134		3010931	MS	10-Jan-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			70.2 %	49.1-148		3010931	MS	10-Jan-23	8015B	
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Analytical Results For:

CRAIN ENVIRONMENTAL
2925 E. 17TH STREET
ODESSA TX, 79761

Project: MC CLURE A # 2
Project Number: NOT GIVEN
Project Manager: CINDY CRAIN
Fax To: (432) 272-0304

Reported:
16-Jan-23 16:49

W WALL 1 (2')**H230096-03 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories**Inorganic Compounds**

Chloride	80.0		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 126 % 71.5-134 3011334 JH 16-Jan-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

Surrogate: 1-Chlorooctane 68.1 % 48.2-134 3010931 MS 10-Jan-23 8015B

Surrogate: 1-Chlorooctadecane 73.2 % 49.1-148 3010931 MS 10-Jan-23 8015B

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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**E WALL 3 (2')
 H230096-04 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	160		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			127 %	71.5-134		3011334	JH	16-Jan-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	11-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	11-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	11-Jan-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			71.9 %	48.2-134		3010931	MS	11-Jan-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			78.1 %	49.1-148		3010931	MS	11-Jan-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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**E WALL 2 (2')
 H230096-05 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	144		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			125 %	71.5-134		3011334	JH	16-Jan-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			49.2 %	48.2-134		3010931	MS	10-Jan-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			51.4 %	49.1-148		3010931	MS	10-Jan-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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**E WALL 1 (2')
H230096-06 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			124 %	71.5-134		3011334	JH	16-Jan-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

Surrogate: 1-Chlorooctane			74.8 %	48.2-134		3010931	MS	10-Jan-23	8015B	
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Surrogate: 1-Chlorooctadecane			82.2 %	49.1-148		3010931	MS	10-Jan-23	8015B	
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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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S WALL 6 (2')

H230096-07 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	80.0		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			126 %	71.5-134		3011334	JH	16-Jan-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	55.4		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	20.2		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

Surrogate: 1-Chlorooctane			55.0 %	48.2-134		3010931	MS	10-Jan-23	8015B	
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Surrogate: 1-Chlorooctadecane			63.7 %	49.1-148		3010931	MS	10-Jan-23	8015B	
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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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**S WALL 6 (5')
H230096-08 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	32.0		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctane			52.6 %	48.2-134		3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			55.9 %	49.1-148		3010931	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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S WALL 7 (2')

H230096-09 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	176		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			125 %	71.5-134		3011334	JH	16-Jan-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			71.6 %	48.2-134		3010931	MS	10-Jan-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			77.8 %	49.1-148		3010931	MS	10-Jan-23	8015B	
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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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S WALL 7 (5')

H230096-10 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	272		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctane			78.2 %	48.2-134		3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			85.5 %	49.1-148		3010931	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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S WALL 8 (2')

H230096-11 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	96.0		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3011334	JH	16-Jan-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3011334	JH	16-Jan-23	8021B	

<i>Surrogate: 4-Bromofluorobenzene (PID)</i>			126 %	71.5-134		3011334	JH	16-Jan-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	39.4		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			57.8 %	48.2-134		3010931	MS	10-Jan-23	8015B	
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<i>Surrogate: 1-Chlorooctadecane</i>			66.4 %	49.1-148		3010931	MS	10-Jan-23	8015B	
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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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S WALL 8 (5')

H230096-12 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

Surrogate: 1-Chlorooctane			66.1 %	48.2-134		3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			72.2 %	49.1-148		3010931	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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**SP - 1
H230096-13 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	1040		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctane			74.7 %	48.2-134		3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			84.1 %	49.1-148		3010931	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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SP - 2
H230096-14 (Soil)

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	112		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-Cl-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctane			61.9 %	48.2-134		3010931	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			67.8 %	49.1-148		3010931	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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**SP - 3
H230096-15 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	656		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
DRO >C10-C28*	11.7		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3010931	MS	10-Jan-23	8015B	

<i>Surrogate: 1-Chlorooctane</i>			52.9 %	48.2-134		3010931	MS	10-Jan-23	8015B	
<i>Surrogate: 1-Chlorooctadecane</i>			58.5 %	49.1-148		3010931	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
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**SP - 4
H230096-16 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	592		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	QR-03
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctane			86.2 %	48.2-134		3011004	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			95.8 %	49.1-148		3011004	MS	10-Jan-23	8015B	

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
--	--	------------------------------

**SP - 5
H230096-17 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
---------	--------	-----	-----------------	-------	----------	-------	---------	----------	--------	-------

Cardinal Laboratories

Inorganic Compounds

Chloride	48.0		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctane			79.7 %	48.2-134		3011004	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			88.6 %	49.1-148		3011004	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
--	--	------------------------------

**SP - 6
H230096-18 (Soil)**

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
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Cardinal Laboratories

Inorganic Compounds

Chloride	944		16.0	mg/kg	4	3011014	AC	10-Jan-23	4500-CI-B	
-----------------	------------	--	------	-------	---	---------	----	-----------	-----------	--

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3011004	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctane			80.8 %	48.2-134		3011004	MS	10-Jan-23	8015B	
Surrogate: 1-Chlorooctadecane			90.7 %	49.1-148		3011004	MS	10-Jan-23	8015B	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
--	--	------------------------------

Inorganic Compounds - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3011014 - 1:4 DI Water										
Blank (3011014-BLK1)										
Prepared & Analyzed: 10-Jan-23										
Chloride	ND	16.0	mg/kg							
LCS (3011014-BS1)										
Prepared & Analyzed: 10-Jan-23										
Chloride	416	16.0	mg/kg	400		104	80-120			
LCS Dup (3011014-BSD1)										
Prepared & Analyzed: 10-Jan-23										
Chloride	416	16.0	mg/kg	400		104	80-120	0.00	20	

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
--	--	------------------------------

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3011334 - Volatiles

Blank (3011334-BLK1)

Prepared: 13-Jan-23 Analyzed: 16-Jan-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0628		mg/kg	0.0500		126	71.5-134			

LCS (3011334-BS1)

Prepared: 13-Jan-23 Analyzed: 16-Jan-23

Benzene	2.03	0.050	mg/kg	2.00		101	81.4-118			
Toluene	2.17	0.050	mg/kg	2.00		109	88.7-121			
Ethylbenzene	2.08	0.050	mg/kg	2.00		104	86.1-120			
m,p-Xylene	4.32	0.100	mg/kg	4.00		108	88.2-124			
o-Xylene	2.09	0.050	mg/kg	2.00		104	84.9-118			
Total Xylenes	6.41	0.150	mg/kg	6.00		107	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0602		mg/kg	0.0500		120	71.5-134			

LCS Dup (3011334-BSD1)

Prepared: 13-Jan-23 Analyzed: 16-Jan-23

Benzene	1.81	0.050	mg/kg	2.00		90.5	81.4-118	11.4	15.8	
Toluene	1.95	0.050	mg/kg	2.00		97.4	88.7-121	10.9	15.9	
Ethylbenzene	1.87	0.050	mg/kg	2.00		93.7	86.1-120	10.4	16	
m,p-Xylene	3.91	0.100	mg/kg	4.00		97.6	88.2-124	9.99	16.2	
o-Xylene	1.89	0.050	mg/kg	2.00		94.3	84.9-118	10.2	16.7	
Total Xylenes	5.79	0.150	mg/kg	6.00		96.5	87.3-122	10.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0590		mg/kg	0.0500		118	71.5-134			

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2 Project Number: NOT GIVEN Project Manager: CINDY CRAIN Fax To: (432) 272-0304	Reported: 16-Jan-23 16:49
--	--	------------------------------

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3010931 - General Prep - Organics

Blank (3010931-BLK1)		Prepared: 09-Jan-23 Analyzed: 10-Jan-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	39.6		mg/kg	50.0		79.1	48.2-134			
Surrogate: 1-Chlorooctadecane	41.8		mg/kg	50.0		83.7	49.1-148			

LCS (3010931-BS1)		Prepared: 09-Jan-23 Analyzed: 10-Jan-23								
GRO C6-C10	188	10.0	mg/kg	200		93.9	78.5-124			
DRO >C10-C28	197	10.0	mg/kg	200		98.6	72.5-126			
Total TPH C6-C28	385	10.0	mg/kg	400		96.3	77.6-123			
Surrogate: 1-Chlorooctane	43.8		mg/kg	50.0		87.5	48.2-134			
Surrogate: 1-Chlorooctadecane	50.2		mg/kg	50.0		100	49.1-148			

LCS Dup (3010931-BS1)		Prepared: 09-Jan-23 Analyzed: 10-Jan-23								
GRO C6-C10	189	10.0	mg/kg	200		94.7	78.5-124	0.812	17.7	
DRO >C10-C28	197	10.0	mg/kg	200		98.4	72.5-126	0.181	21	
Total TPH C6-C28	386	10.0	mg/kg	400		96.6	77.6-123	0.305	18.5	
Surrogate: 1-Chlorooctane	44.5		mg/kg	50.0		89.0	48.2-134			
Surrogate: 1-Chlorooctadecane	50.7		mg/kg	50.0		101	49.1-148			

Batch 3011004 - General Prep - Organics

Blank (3011004-BLK1)		Prepared & Analyzed: 10-Jan-23								
GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	43.8		mg/kg	50.0		87.5	48.2-134			
Surrogate: 1-Chlorooctadecane	47.8		mg/kg	50.0		95.6	49.1-148			

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Analytical Results For:

CRAIN ENVIRONMENTAL 2925 E. 17TH STREET ODESSA TX, 79761	Project: MC CLURE A # 2	Reported:
	Project Number: NOT GIVEN	16-Jan-23 16:49
	Project Manager: CINDY CRAIN	
	Fax To: (432) 272-0304	

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 3011004 - General Prep - Organics

LCS (3011004-BS1)

Prepared & Analyzed: 10-Jan-23

GRO C6-C10	204	10.0	mg/kg	200		102	78.5-124			
DRO >C10-C28	186	10.0	mg/kg	200		92.8	72.5-126			
Total TPH C6-C28	390	10.0	mg/kg	400		97.5	77.6-123			
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	48.2-134			
Surrogate: 1-Chlorooctadecane	58.0		mg/kg	50.0		116	49.1-148			

LCS Dup (3011004-BSD1)

Prepared & Analyzed: 10-Jan-23

GRO C6-C10	204	10.0	mg/kg	200		102	78.5-124	0.454	17.7	
DRO >C10-C28	186	10.0	mg/kg	200		92.9	72.5-126	0.129	21	
Total TPH C6-C28	389	10.0	mg/kg	400		97.3	77.6-123	0.177	18.5	
Surrogate: 1-Chlorooctane	49.7		mg/kg	50.0		99.4	48.2-134			
Surrogate: 1-Chlorooctadecane	57.0		mg/kg	50.0		114	49.1-148			

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Notes and Definitions

- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCS/D recovery and/or RPD values.
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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101 East Marland, Hobbs, NM 88240
 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 4

Company Name: Grain Environmental Project Manager: Cindy Crain Address: 2925 E. 17th St. City: Odessa State: TX Zip: 79761 Phone #: (575) 441-7244 Fax #: - Project #: - Project Name: McClure A # 2 Project Location: Lea Co., NM Project Owner: Lynx Operating Project Name: McClure A # 2 Project Location: Lea Co., NM Project Owner: Lynx Operating				P.O. #: Company: Octane Attn: Chris Gaddy Address: 310 W Mall, Ste. 300 City: Midland State: TX Zip: 79701 Phone #: (432) 634-9337 Fax #:											
BILL TO				ANALYSIS REQUEST											
FOR LAB USE ONLY															
Lab I.D. H230096	Sample I.D. 1 M Wall 3 (2') 2 W Wall 2 (2') 3 W Wall 1 (2') 4 E Wall 3 (2') 5 E Wall 2 (2') 6 E Wall 1 (2') 7 S Wall 6 (2') 8 S Wall 7 (2') 9 S Wall 7 (2') 10 S Wall 7 (5')	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER MATRIX SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME	Chlorides TPH 8015 M BTEX added 1/16/23 to											
								C 1	1/7/23	1040	X				
								C 1	1/7/23	1045	X				
								C 1	1/7/23	1050	X				
								C 1	1/7/23	1055	X				
								C 1	1/7/23	1100	X				
								C 1	1/7/23	1105	X				
								C 1	1/7/23	1110	X				
								C 1	1/7/23	1115	X				
								C 1	1/7/23	1120	X				
								C 1	1/7/23	1125	X				

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Relinquished By: *Cindy Crain* Date: 1-9-23 Received By: *Yamara Walker* Date: 1/9/23

Delivered By: (Circle One) Observed Temp. °C 4.3 Sample Condition Cool Intact Yes No
 Corrected Temp. °C 3.7

Turnaround Time: Standard Rush Bacteria (only) Sample Condition Cool Intact Yes No
 Thermometer ID #113 Correction Factor -0.6°C

Vertical Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: REMARKS:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



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 (575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

Company Name: <u>Lein Environmental</u> Project Manager: <u>Lindy Crain</u> Address: <u>2925 E. 17th St.</u> <u>Odessa</u> State: <u>TX</u> Zip: <u>79761</u> City: <u>Odessa</u> State: <u>TX</u> Zip: <u>79761</u> Phone #: <u>(575) 441-7244</u> Fax #: <u>-</u> Project #: <u>-</u> Project Owner: <u>Lynn Operating</u> Project Name: <u>McClure A # 2</u> State: <u>TX</u> Zip: <u>79701</u> Project Location: <u>Lea Co., NH</u> Phone #: <u>(432) 634-9337</u> Sampler Name: <u>Lindy Crain</u> Fax #: <u>-</u>		BILL TO P.O. #: <u>-</u> Company: <u>DeJane</u> Attn: <u>Chris Gaddy</u> Address: <u>310 N. Wall, Ste. 300</u> City: <u>Midland</u> State: <u>TX</u> Zip: <u>79701</u> Phone #: <u>(432) 634-9337</u>		ANALYSIS REQUEST	
Lab I.D. <u>H230096</u> H 5 Wall 8 (2') 12 S Wall 8 (5') 13 SP-1 14 SP-2 15 SP-3 16 SP-4 17 SP-5 18 SP-6		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :		DATE TIME	
1 1 1 1 1 1 1 1		X X X X X X X X		1/7/23 1130 1/7/23 1135 1/7/23 1140 1/7/23 1145 1/7/23 1150 1/7/23 1155 1/7/23 1200 1/7/23 1205	
Relinquished By: <u>Lindy Crain</u> Date: <u>1-9-23</u> Time: <u>1400</u>		Received By: <u>[Signature]</u> Date: <u>1-9-23</u> Time: <u>1400</u>		Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Add'l Phone #: <u>-</u> All Results are emailed. Please provide Email address: <u>-</u>	
Delivered By: (Circle One) UPS - Bus - Other: <u>UPS</u>		Observed Temp. °C <u>4.3</u> Corrected Temp. °C <u>3.7</u>		Turnaround Time: <u>Standard</u> Thermometer ID #113 Correction Factor -0.6°C	
Sample Condition Cool Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked BY: <u>[Signature]</u>		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Observed Temp. °C Corrected Temp. °C		REMARKS: <u>Chlorides</u> <u>TPH 8015M</u> <u>BTEX added 1/14/23 to</u>	

FORM 008-K-3-3-07710ZZ

† Cardinal cannot accept verbal changes. Please email changes to caley.keene@cardinallabsnm.com

Appendix C: Photographic Documentation

Appendix C
Lynx Operating Company, Inc.
Pat H McClure A #002 - July 11, 2022



Appendix C
Lynx Operating Company, Inc.
Pat H McClure A #002



July 11, 2022



July 11, 2022



August 15, 2022



August 15, 2022



August 15, 2022

Appendix D: Initial and Final 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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	nAPP2233344921
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Lynx Operating Company, Inc.	OGRID	175071
Contact Name	Chris Gaddy	Contact Telephone	(432) 634-9337
Contact email	chris.gaddy@octane-energy.com	Incident # (assigned by OCD)	nAPP2233344921
Contact mailing address	310 W. Wall Street, Ste. 300 Midland, TX 79701		

Location of Release Source

Latitude 33.018891 Longitude -103.170099
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Pat H McClure A #002	Site Type	Flow Line
Date Release Discovered	2/28/22	API# (if applicable)	30-025-05316

Unit Letter	Section	Township	Range	County
G	14	15S	37E	Lea

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls)	4 bbls	Volume Recovered (bbls)	0 bbls
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls)	13 bbls	Volume Recovered (bbls)	0 bbls
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<input type="checkbox"/> Condensate	Volume Released (bbls)		Volume Recovered (bbls)	
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)		Volume Recovered (Mcf)	
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)		Volume/Weight Recovered (provide units)	

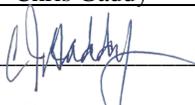
Cause of Release Historical release

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release appears to be larger than 25 bbls
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? No information available	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.	
Printed Name: <u>Chris Gaddy</u>	Title: <u>Agent for Lynx Operating Company</u>
Signature: 	Date: <u>March 8, 2023</u>
email: <u>chris.gaddy@octaneenergy.com</u>	Telephone: <u>(432) 634-9337</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

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Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	___65___ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: *Each of the following items must be included in the report.*

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- Depth to water determination
- Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

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Printed Name: Chris Gaddy Title: Agent for Lynx Operating Company

Signature:  Date: March 8, 2023

email: chris.gaddy@octane-energy.com Telephone: (432) 634-9337

OCD Only

Received by: Jocelyn Harimon Date: 03/09/2023

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Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

- Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature: _____ Date: _____

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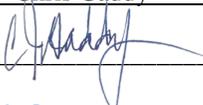
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Chris Gaddy Title: Agent for Lynx Operating Company
 Signature:  Date: March 8, 2023
 email: chris.gaddy@octane-energy.com Telephone: (432) 634-9337

OCD Only

Received by: Jocelyn Harimon Date: 03/09/2023

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 03/17/2023
 Printed Name: Jennifer Nobui Title: Environmental Specialist A

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720

District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720

District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 194965

CONDITIONS

Operator: LYNX OPERATING CO., INC. 4849 Greenville Ave. Dallas, TX 75206	OGRID: 175071
	Action Number: 194965
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/17/2023