Maralo Federal Com 1 (30-015-22958) Specific Justification for Volumes

The total volume released was incorrectly reported on the initial C-141as 95.7 bbls crude oil and 43 bbls produced water. The 210 bbl production tank contains both oil and water and the total volume released per the tank gauge was 95.7 bbls. The 43 bbls of water should have been subtracted from 95.7 bbls leaving 52.7 bbls of oil.

210 bbl tank (1.167 bbl/in)

Date	Gauge	Bbbls	Lost
1/4/2022	1'0'	14	95.7
1/2/2022	7'10"	109.7	



Remediation Summary and Deferral Request

Murchison Oil & Gas, LLC Maralo Federal Com #1 Eddy County, New Mexico Unit Letter "L", Section 22, Township 17 South, Range 27 East Latitude 32.817825 North, Longitude 104.272827 West NMOCD Incident # nAPP2202451213

Prepared For:

Murchison Oil & Gas 5325 Sierra Vista Carlsbad, NM 88230

Prepared By:

Hungry Horse, LLC 4024 Plains Hwy Lovington, NM 88260 Office: (575) 393-3386

September 2024

Bradley Wells

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Attachments

Attachment I – Karst, Wetland, and Soil Maps

- Attachment II NMOCD Correspondence
- Attachment III Depth to Groundwater
- Attachment IV Site Photographs
- Attachment V Field Data
- Attachment VI Laboratory Analytical Results
- Attachment VII Lea Land, LLC Disposal Facility Waste Manifests



The following *Remediation Summary and Deferral Request* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter L (NW/SW), Section 22, Township 17 South, Range 27 East, approximately one mile Southeast of Riverside, in Eddy County, New Mexico. The property is located on Bureau of Land Management land. Topographic Map, OSE POD Locations Map, and USGS Well Locations Map are included as Figure 1, Figure 2, and Figure 3, respectively.

The release occurred on an active tank battery and well pad; Latitude 32.817825 North, Longitude 104.272827 West. The NMOCD Form C-141 indicated that on January 3, 2022 approximately 53 bbls of crude oil and 43 bbls of produced water were released due to a load line that froze and burst. A crew was dispatched to the release site and the line was repaired. No fluid was recovered. Previously submitted NMOCD Form C-141 are available on the NMOCD Permitting Portal.

NMOCD Site Classification:

A search of the New Mexico Office of the State Engineer (NMOSE) and United States Geological Survey (USGS) groundwater databases was completed in an effort to determine the horizontal distance to known water sources within a half mile radius of the Release Site. Approximate depth to groundwater was determined using maintained and published water well data. Karst mapping indicates the site is located in a Gypsum Karst designated area. Depth to groundwater information is provided as Attachment III and the results are depicted on Figures 2 and 3.

No water wells were located within a half mile of the release area. In addition, as the site is located in a Gypsum Karst designated area, the site will be remediated according to the strictest NMOCD Closure Criteria. Utilizing this information, the NMOCD Closure Criteria for the Site were determined as follows:

Depth to Groundwater	Constituent	Method	Limit
	Chloride	EPA 300.0 or SM4500 CLB	600 mg/kg
-504	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	100 mg/kg
<50'	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

A United States Department of Agriculture (USDA) Web Soil Survey was completed to determine soil types in the area of remediation. Web Soil Survey indicates the area is located in the Reeves-Gypsum land complex comprised of loam and clay loam soils with 0 to 3 percent slopes. As the affected area is located on an active well pad and lease road, no re-seeding will be required. Karst, Wetland, and Soil Maps are provided as Attachment I.

Remediation Activities:

On July 8, 2024, a Site Assessment and Remediation Work Plan was submitted to NMOCD for approval. On July 9, 2024, the Work Plan was approved. NMOCD Correspondence provided as Attachment II. Previously submitted pages of the approved Site Assessment and Remediation Work Plan are available on the NMOCD Permitting Portal.

From July 15 through 25, 2024, the release area was excavated per the NMOCD approved work plan. The areas characterized by sample locations SP1 and SP2 were excavated to an approximate depth of four feet bgs. The area characterized by sample location SP3 was excavated to an approximate depth of four and half feet bgs. The areas characterized by sample locations SP4 and SP8 were excavated to an approximate depth of two feet bgs. The areas characterized by sample locations SP5, SP6, and SP9 were excavated to an approximate depth of one-foot bgs. And the area characterized by sample location SP7 was excavated to an approximate depth of three feet bgs. Excavated contaminated soil was temporarily stockpiled onsite, within the excavated area, before transport to an NMOCD approved disposal facility.

The area characterized by sample locations SP1 and SP2 could not be fully excavated due the presence of process equipment and tanks. Fencing around the bermed containment was opened to allow access for contaminated soil to be hydro-excavated from the containment area until process equipment prevented further excavation. Hydro-excavated contaminated soil was transported to an NMOCD approved disposal facility.

The area characterized by sample location SP10 was not excavated as field data and laboratory analytical data indicate contaminate concentrations are below the NMOCD Closure Criteria.

On August 6, 2024, Hungry Horse, LLC notified NMOCD that closure samples would be collected on August 9, 2024. NMOCD Correspondence is provided as Attachment II.

On August 9, 2024, seventy-one composite confirmation soil samples were collected from the excavation floor and sidewalls, with each sample representing no more than 200 square feet. Soil samples FL1 through FL33 and SW1 through SW38, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples, with the exception of FL27 – FL33 and SW35 – SW37, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

On August 12, 2024, two composite confirmation soil samples were collected from the topsoil and caliche backfill pits. Soil samples Topsoil and Caliche, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

On August 20, 2024, the area within containment, characterized by sample locations FL27 – FL33, was hydro-excavated an additional one-foot bgs. Hydro-excavated contaminated soil was

transported to an NMOCD approved disposal facility. The area characterized by sample locations SW35 – SW37 was not excavated further as process equipment prevents further excavation.

On August 22, 2024, Hungry Horse, LLC notified NMOCD that additional closure samples would be collected on August 27, 2024. NMOCD Correspondence is provided as Attachment II.

On August 27, 2024, seven composite confirmation soil samples were collected from the excavation floor, with each sample representing no more than 200 square feet. Soil samples FL27b – FL33b, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated contaminant concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

The final excavated areas measured approximately fifty-three hundred square feet and ranged in depth from one to five feet bgs. During remediation activities approximately 430 tons of impacted soil were excavated and hauled to an NMOCD approved disposal facility. Disposal waste manifests provided in Attachment VII.

January 19, 2022 Sample Map, Delineation Sample Map, Excavation Floor Sample Map, and Excavation Sidewall Sample Map, are provided as Figure 4, Figure 5, Figure 6, and Figure 7, respectively. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment VI.

Sampling Procedure and Identification:

During confirmation sampling, five-point composite soil samples were collected from the floor of the excavation, each collected sample representing an area no greater than 200 square feet. These sample locations are identified by FL designation. Five-point composite soil samples were also collected from the sidewalls of the excavation, with each collected sample representing an area no greater than 200 square feet. These sample locations are identified by SW designation.

Excavation sidewall samples SW1 through SW38 were collected as five-point composite samples collected from the sidewalls of the excavation, from the excavation surface to the excavation floor. Sidewall samples SW11 – SW15 were collected from the interior sidewalls were the excavation depths changed. Excavation Sidewall Sample Map, provided as Figure 7, depicts sidewall sample boundaries.

Restoration, Reclamation, and Re-Vegetation:

Based upon laboratory analytical results from confirmation soil samples, the excavation has been backfilled with locally sourced, clean, non-impacted material. The area was contoured to achieve erosion control and preserve surface water flow.

As the affected area is located on an active well pad and lease road, no re-seeding will be required.

Deferral Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. As much contaminated soil as practicable, affected above the NMOCD Closure Criteria, has been excavated and hauled to an NMOCD approved facility for disposal. Laboratory analytical results from composite confirmation samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria, with the exception of sidewall samples SW35, SW36, and SW37, which exhibited TPH concentrations in excess of NMOCD Closure Criteria.

Per paragraph (2)of subsection C of 19.15.29.12 NMAC, a portion of contamination remains immediately under production equipment where remediation would cause a major facility deconstruction. As the lateral and vertical extents of the release area will have been fully delineated, a deferral of the remaining contamination is requested until such time as the well or facility is plugged or abandoned. Contamination in-situ does not cause an imminent risk to human health, the environment, or groundwater. Approximately 500 square feet, or 100 cy, remain directly beneath production equipment and will be remediated upon facility closure.

Based on laboratory analytical results, Murchison Oil & Gas respectfully requests deferral of the Maralo Federal Com #1 location, nAPP2202451213.

Limitations:

Hungry Horse, LLC, has prepared this *Remediation Summary and Deferral Request* to the best of its ability. No other warranty, expressed or implied, is made or intended. Hungry Horse has examined and relied upon documents referenced in the report and on oral statements made by certain individuals. Hungry Horse has not conducted an independent examination of the facts contained in referenced materials and statements. Hungry Horse has presumed the genuineness of these documents and statements and that the information provided therein is true and accurate. Hungry Horse notes that the facts and conditions referenced in this report may change over time, and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.



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Distribution:

Murchison Oil & Gas 5325 Sierra Vista Carlsbad, NM 88230

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2 811 S. First St. Artesia, NM 88210

New Mexico Bureau of Land Management 620 E. Greene St Carlsbad, NM 88220

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Figures

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OSE POD Locations Map Murchison Oil & Gas Maralo Federal Com #1 GPS: 32.8178253, -104.2728271 Eddy County

Drafted: dd Checked: bw Date: 4/15/24



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8/8/24

VTAL & CO

Date:



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Table

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
	1/19/22	0-4	Excavated	<2.00	310	6,900	2,010	8,910	<10.0	8,910	48.0
SSA-1	1/19/22	0-2	Excavated	0.124	115	3,220	1,010	4,230	<10.0	4,230	32.0
55A-1	1/19/22	2-4	Excavated	<0.050	16.0	217	317	534	<10.0	534	48.0
	1/19/22	4.2	Excavated	<1.00	135	2,230	776	3,006	<10.0	3,006	48.0
	1/19/22	0-4	Excavated	<2.00	70.6	576	143	719	<10.0	719	224
SSA-2	1/19/22	0-2	Excavated	2.17	305	2,640	271	2,911	<10.0	2,911	192
55A-2	1/19/22	2-4	Excavated	<0.050	3.32	14.1	16.8	30.9	<10.0	30.9	240
	1/19/22	4.2	Excavated	<0.050	17.0	133	125	258	<10.0	258	80.0
SSA-3	1/19/22	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
55A-5	1/19/22	4.2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
SSA-4	1/19/22	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	480
55A-4	1/19/22	4.2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	352
SSA-5	1/19/22	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,920
55A-5	1/19/22	4.2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	448
SSA-6	1/19/22	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
55A-0	1/19/22	4.2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SSA-7	1/19/22	0-4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	608
55A-7	1/19/22	4.2	Excavated	<0.050	0.996	<10.0	<10.0	<20.0	<10.0	<30.0	848
SSA-8	1/19/22	0-4	Excavated	<0.050	12.1	451	365	816	<10.0	816	32.0
33A-0	1/19/22	4.2	Excavated	<0.050	3.77	98.3	160	258.3	<10.0	258.3	64.0
SSA-9	1/19/22	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
55A-9	1/19/22	4.2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
SSA-10	1/19/22	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
	1/19/22	4.2	In-Situ	<0.050	<0.300	17.6	22.6	40.2	<10.0	40.2	256
Background	1/19/22	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
Background	1/19/22	4.2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
NMOCD Closure Criteria				10	50	-	-	N/A	-	100	600

TABLE 1 Summary of Soil Sample Laboratory Analytical Results Murchison Oil & Gas Maralo Federal Com #1 NMOCD Ref. #: nAPP2202451213

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SP1	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	90.2	90.2	<10.0	90.2	64.0
	6/6/24	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
SP2	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	13.1	<20.0	<10.0	<30.0	1,880
	6/6/24	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP3	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	4,160
	6/6/24	4	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	656
SP4	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	5,300
	6/6/24	2	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	416
SP5	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	1,540
515	6/6/24	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SP6	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	2,080
510	6/6/24	1	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	304
SP7	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
517	6/6/24	2	Excavated	<0.050	<0.300	<10.0	119	119	<10.0	119	112
SP8	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	129	129	<10.0	129	112
550	6/6/24	1	Excavated	<0.050	<0.300	<10.0	139	139	<10.0	139	48.0
SP9	6/6/24	Surf	Excavated	<0.050	<0.300	<10.0	124	124	<10.0	124	64.0
363	6/6/24	1	Excavated	<0.050	<0.300	<10.0	20.5	20.5	<10.0	<30.0	208
5010	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
SP10	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	208
1171	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ1	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
1170	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ2	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ3	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
HZ4	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
1175	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ5	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ6	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ7	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ8	6/6/24	Surf	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
	6/6/24	1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
HZ9	6/6/24	Surf	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	16.0
	6/6/24	1	In-Situ	<0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
HZ10	6/6/24	Surf	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	6/6/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	32.0
	NMOCD Closure Criteria							×20.0		100	600
NOTES:				10	50	-	-		-	100	000

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria Released to Imaging: 9/25/2024 2:29:49 PM

TABLE 1 Summary of Soil Sample Laboratory Analytical Results Murchison Oil & Gas Maralo Federal Com #1 NMOCD Ref. #: nAPP2202451213

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
FL1	8/9/24	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL2	8/9/24	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL3	8/9/24	4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL4	8/9/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL5	8/9/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL6	8/9/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL7	8/9/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL8	8/9/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL9	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL10	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL11	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	160
FL12	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL13	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL14	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL15	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL16	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL17	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL18	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL19	8/9/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL20	8/9/24	3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL21	8/9/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL22	8/9/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL23	8/9/24	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
FL24	8/9/24	2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL25	8/9/24	1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
FL26	8/9/24	1	In-Situ	< 0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
FL27	8/9/24	4	Excavated	< 0.050	24.5	603	375	978	<10.0	978	272
FL28	8/9/24	4	Excavated	< 0.050	<0.300	32.8	191	223.8	<10.0	223.8	144
FL29	8/9/24	4	Excavated	< 0.050	6.30	303	420	723	<10.0	723	336
FL30	8/9/24	4	Excavated	< 0.050	< 0.300	35.0	285	320	<10.0	320	288
FL31	8/9/24	4	Excavated	< 0.050	2.17	96.5	128	224.5	<10.0	224.5	160
FL32	8/9/24	4	Excavated	< 0.050	2.73	73.6	128	201.6	<10.0	201.6	208
FL33	8/9/24	4	Excavated	< 0.050	1.94	195	515	710	<10.0	710	448
SW1	8/9/24	0-1	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW2	8/9/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW2	8/9/24	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW4	8/9/24	0-2	In-Situ	< 0.050	< 0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW5	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW6	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW7	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
	Closure Crite			<0.050 10	<0.300 50	-		×20.0		100	600
NOTES:	10	50	-	-	iv/A	-	100	000			

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria Released to Imaging: 9/25/2024 2:29:49 PM

TABLE 1 Summary of Soil Sample Laboratory Analytical Results Murchison Oil & Gas Maralo Federal Com #1 NMOCD Ref. #: nAPP2202451213

Sample ID	Date	Depth (ft)	Soil Status	Benzene (mg/kg)	BTEX (mg/kg)	GRO C ₆ -C ₁₀ (mg/kg)	DRO C ₁₀ -C ₂₈ (mg/kg)	GRO + DRO C ₆ -C ₂₈ (mg/kg)	ORO C ₂₈ -C ₃₆ (mg/kg)	TPH C ₆ -C ₃₆ (mg/kg)	Chloride (mg/kg)
SW8	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW9	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW10	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW11	8/9/24	1-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW12	8/9/24	2-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW13	8/9/24	1-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW14	8/9/24	1-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW15	8/9/24	2-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW16	8/9/24	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW17	8/9/24	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW18	8/9/24	0-3	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW19	8/9/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW20	8/9/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW21	8/9/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW22	8/9/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW23	8/9/24	0-1	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW24	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW25	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW26	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW27	8/9/24	0-2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	128
SW28	8/9/24	0-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	144
SW29	8/9/24	0-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW30	8/9/24	0-4.5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW31	8/9/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	112
SW32	8/9/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
SW33	8/9/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW34	8/9/24	0-4	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
SW35	8/9/24	0-4	In-Situ	<0.050	4.86	295	405	700	<10.0	700	96.0
SW36	8/9/24	0-4	In-Situ	<0.050	3.80	216	257	473	<10.0	473	144
SW37	8/9/24	0-4	In-Situ	<0.050	17.4	1,280	753	2,033	<10.0	2,033	112
SW38	8/9/24	0-4	In-Situ	<0.050	0.358	21.4	28.0	49.4	<10.0	49.4	256
Topsoil	8/12/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
Caliche	8/12/24	2	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	<16.0
FL27b	8/27/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL28b	8/27/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	80.0
FL29b	8/27/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL30b	8/27/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL31b	8/27/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	48.0
FL32b	8/27/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	64.0
FL33b	8/27/24	5	In-Situ	<0.050	<0.300	<10.0	<10.0	<20.0	<10.0	<30.0	96.0
	D Closure Crite	eria		10	50	-	-	N/A	-	100	600

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria Released to Imaging: 9/25/2024 2:29:49 PM

Attachment I Karst, Wetland, and Soil Maps

Maralo Federal Com #1



4/16/2024

- Karst Type
 Volcanic

 Carbonate
 World Imagery

 Erosional
 Low Resolution 15m Imagery

 Gypsum
 High Resolution 60cm Imagery
- High Resolution 30cm Imagery Citations 150m Resolution Metadata



U.S. Geological Survey Open-File Report 2004-1352, Caves and Karst in the U.S. National Park Service, AGI Karst Map of the US., Earthstar Geographics

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Wetlands

- Estuarine and Marine Deepwater
- Estuarine and Marine Wetland

- Freshwater Emergent Wetland
- Freshwater Forested/Shrub Wetland
- **Freshwater Pond**

Lake Other Riverine Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

> National Wetlands Inventory (NWI) This page was produced by the NWI mapper

Released to Imaging: 9/25/2024 2:29:49 PM

Received by OCD: 9/24/2024 7:18:18 AM

32° 49' 38" N





32° 49' 38" N





32° 48' 30" N

104° 15' 20" W

USDA Natural Resources Conservation Service Released to Imaging: 9/25/2024 2:29:49 PM

32° 48' 30" N

Web Soil Survey National Cooperative Soil Survey 4/17/2024 Page 1 of 3



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
GC	Gypsum land-Cottonwood complex, 0 to 3 percent slopes	267.7	24.9%
RG	Reeves-Gypsum land complex, 0 to 3 percent slopes	806.1	75.1%
Totals for Area of Interest		1,073.9	100.0%



Eddy Area, New Mexico

RG—Reeves-Gypsum land complex, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5f Elevation: 1,250 to 5,000 feet Mean annual precipitation: 10 to 25 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 190 to 235 days Farmland classification: Not prime farmland

Map Unit Composition

Reeves and similar soils: 55 percent Gypsum land: 30 percent Minor components: 15 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Reeves

Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 32 inches: clay loam
H3 - 32 to 60 inches: gypsiferous material

Properties and qualities

Slope: 0 to 1 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 25 percent
Gypsum, maximum content: 80 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water supply, 0 to 60 inches: Low (about 4.3 inches)

Map Unit Description: Reeves-Gypsum land complex, 0 to 3 percent slopes---Eddy Area, New Mexico

Interpretive groups

Land capability classification (irrigated): 3s Land capability classification (nonirrigated): 7s Hydrologic Soil Group: B Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Description of Gypsum Land

Setting

Landform: Ridges, plains, hills Landform position (two-dimensional): Shoulder, backslope, footslope, toeslope Landform position (three-dimensional): Side slope, head slope, nose slope, crest Down-slope shape: Convex Across-slope shape: Linear Parent material: Residuum weathered from gypsum

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 8s Hydric soil rating: No

Minor Components

Reagan

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Largo

Percent of map unit: 5 percent Ecological site: R070BC007NM - Loamy Hydric soil rating: No

Cottonwood

Percent of map unit: 5 percent Ecological site: R070BC033NM - Salty Bottomland Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 19, Sep 7, 2023



Attachment II NMOCD Correspondence

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

QUESTIONS

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Action 370981

QUESTIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	370981
	Action Type:
	[NOTIEV] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2202451213
Incident Name	NAPP2202451213 MARALO FEDERAL COM #1 @ 30-015-22958
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-22958] MARALO FEDERAL COM #001

Location of Release Source

Site Name	MARALO FEDERAL COM #1
Date Release Discovered	01/03/2022
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.						
What is the sampling surface area in square feet	5,360					
What is the estimated number of samples that will be gathered	71					
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/09/2024					
Time sampling will commence	08:00 AM					
Please provide any information necessary for observers to contact samplers	Hector Luna 720-586-1727					
Please provide any information necessary for navigation to sampling site	32.817821, -104.272832					

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

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	370981
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)
	-

CONDITIONS

Created By Condition Condition Date Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the 8/6/2024 ccottrell remediation closure samples not being accepted.

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Action 370981

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

QUESTIONS

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Action 376597

QUESTIONS

Operator: C	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway A	Action Number:
Plano, TX 75024	376597
A	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2202451213
Incident Name	NAPP2202451213 MARALO FEDERAL COM #1 @ 30-015-22958
Incident Type	Oil Release
Incident Status	Remediation Plan Approved
Incident Well	[30-015-22958] MARALO FEDERAL COM #001

Location of Release Source

Site Name	MARALO FEDERAL COM #1
Date Release Discovered	01/03/2022
Surface Owner	Federal

Sampling Event General Information

Please answer all the questions in this group.	
What is the sampling surface area in square feet	160
What is the estimated number of samples that will be gathered	7
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/27/2024
Time sampling will commence	08:00 AM
Please provide any information necessary for observers to contact samplers	Jerry Heidelberg 575-390-3639
Please provide any information necessary for navigation to sampling site	32.817821, -104.272832

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) 334-6

District IV 1220 S. St Francis Dr., Santa Fe, NM 87 Phone:(505) 476-3470 Fax:(505) 476-34

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

CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	376597
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By Condition Condition Date Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the 8/22/2024 ccottrell remediation closure samples not being accepted.

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Action 376597

6170	
7505	Santa Fe,
3462	

Daniel Dominguez

From:	Hall, Brittany, EMNRD <brittany.hall@emnrd.nm.gov></brittany.hall@emnrd.nm.gov>
Sent:	Wednesday, August 21, 2024 7:58 AM
То:	Cindy Cottrell
Cc:	Daniel Dominguez; Greg Boans; Rusty Cooper; Luke Pumphrey; Powell, Brandon, EMNRD;
	Moander, Chris, EMNRD; Romero, Rosa, EMNRD; Smith, Cory, EMNRD; Bratcher, Michael, EMNRD
Subject:	RE: [EXTERNAL] Maralo Federal Com #1 (nAPP2202451213) Extension Request

Cindy,

The 30-day extension request is approved. The remediation closure report is due by 9/23/2024. Please ensure that the C-141N is completed at least 2 business days prior to collecting any additional confirmation/final samples pursuant to 19.15.29.12 D.(1)(a) NMAC.

Please include a copy of this correspondence in the remediation closure report.

Thank you, **Brittany Hall ●** Environmental Specialist Environmental Bureau Projects Group EMNRD - Oil Conservation Division 1000 Rio Brazos Road | Aztec, NM 87110 505.517.5333 | <u>Brittany.Hall@emnrd.nm.gov</u> <u>http://www.emnrd.nm.gov/ocd/</u>

Please be advised that the new Digital C-141 is live as of December 1, 2023. Please review the new Digital C-141 submission Dec 1, 2023 Guidance document posted on the EMRND Website prior to submitting any C-141s. The guidance documents can be found at https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or https://www.emnrd.nm.gov/ocd/ocd-announcements-and-notifications/ or

From: Cindy Cottrell <ccottrell@jdmii.com>
Sent: Tuesday, August 20, 2024 2:49 PM
To: Hall, Brittany, EMNRD <Brittany.Hall@emnrd.nm.gov>
Cc: Daniel Dominguez <ddominguez@hungry-horse.com>; Greg Boans <gboans@jdmii.com>; Rusty Cooper
<rcooper@jdmii.com>; Luke Pumphrey <lpumphrey@jdmii.com>
Subject: [EXTERNAL] Maralo Federal Com #1 (nAPP2202451213) Extension Request

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

Good afternoon,

We need to request a 30-day extension for the Maralo closure report due on 8/23/24 because some of the floor samples from the closure sampling on August 9, 2024 did not meet closure criteria. Additional excavation inside the battery will be required to complete the remediation. New closure samples will also need to be obtained following the excavation. Please let me know if you need any additional details.

Thank you for your consideration.

S MURCHISON OIL AND GAS, LLC

Released to Imaging: 9/25/2024 2:29:49 PM

Received by OCD: 9/24/2024 7:18:18 AM Cindy Cottrell

Regulatory Coordinator & Corporate Secretary 7250 Dallas Parkway, Suite 1400 Plano, TX 75024 Direct Line: 469-573-6413

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Attachment III Depth to Groundwater

New Mexico Office of the State Engineer Wells with Well Log Information

			Ν	No wells found.
UTMNAD83 Ra	dius Search (in meters):			
Easting (X):	568069.48	Northing (Y):	3631325.45	Radius: 805
The data is furnished by particular purpose of the		y the recipient with	the expressed understanding that the	OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for
4/17/24 8:07 AM				WELLS WITH WELL LOG INFORMATION

Released to Imaging: 9/25/2024 2:29:49 PM

Attachment IV Site Photographs















Photographs







Photographs













Attachment V Field Data

Sample Log

Hungry Horse, LLC

 Yes
 Water
 <50'</th>

 Standard
 TPH 100mg/kg, Chloride 600mg/kg

Date: <u>6-6-24</u> GPS: <u>32.8178253, -104.2728271</u> Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor	Chloride	GPS
HZI	Su-F		2.00 49114=196	
	1 ¹		1,80 4384=172	
HZ2	SUFF		2.20 57×4=228	
	1		2.00 H9X4= 196	
HZ3	SurF		2.40 65×4= 260	
	i i i		1.60 36×4= 144	
HZY	Surf		2.60 73×4= 292	
	1 10		2.00 49×4=196	
HZ5	Surf		2.00 49×4=196	
	1.		1,8@ 43×4= 172	
HZLe	SUFP		1180 43×4=172	
,	1		2.00 4924= 196	
HZ7	Surf		2.40 65X4= 260	
11-5-1	15		1.80 43×4=172	
HZ 8	Surt		Que 73×4=292	
1.2.5	1 ⁵		A.20 57X4=228	
#29	Surf	1	2.80 83×4= 3.32	
- 1/2-1	10		2.40 65×4=260	
HZ10	Surf		2.60 73×4= 292	
HZIO	ti		1:80 43×4=172	
SPI	Surt	Yes	280 83×4=332	
	1'	Yeg	1,8e 43×4= 172	
	21	Yes	2.6@ 73×4=292	_
	3'		2.00 49×4=196	1
	41	Yes NO	2.60 49×9 = 196	
SP2	Surf	Yes	2.60 73x4=292	
	- Ft	Veg	2.40 6524 2 200	
	2'	Yes	2.00 4984=196	
	3	NO	1.8e 43x4=172	
	41	NO	1,60 310745 144	
5P.3	Surf	VO	6.0H@ 142014=5704	
2.0	1	NO	5.20245×4=980	
	.91	100	(1) 6 32314 1312	
	3'	NO	(.0 0 322,4 1312 4.8 e 10 x4 = 848 3.100 :25x4 = 500	
	42	NO	3.120 :1954 = 500	

Sample Point = SP1 @ ## etc

Horizontal = HZ1 etc

Test Trench = TT1 @ ##

Floor = FL1 etc Sidewall = SW1 etc Horizontal = HZ1 e

Refusal = SP1 @ 4'-R

Resamples= SP1b @ 5' or SW #1b Stockpile = Stockpile #1

GPS Sample Points, Center of Comp Areas

Sample Log

Hungry Horse, LLC

Project: Maralo Federal Com #1

Water <50' Karst Yes Standard TPH 100mg/kg, Chloride 600mg/kg

Date: GPS: 32.8178253, -104.2728271 Sampler: Jerry Heidelberg

Sample ID	Depth	PID/Odor		GPS
SPH	Surf	Little	5,840132224= 5,288	
		NO	H2@ 165×4= 660	
	11	NB	3.0e92×4=368	
	3'	,		
	41			
SP5	SUFF	no	6.40377×9=1.508	
	H H	NO	2.6@73×4=292	
	23'			
	31			
	141			
SPG	Surf	no	6.8043394=1737	
vię	1	no	2.80 83×4= 332	
	21			
	3'		N	-
	4	1		
SP7	Surf	No	1.0>100	
	J.		A.80 83×4=332	
		NO	2.8e 83×4=332	
	2' 3'	100		
	41			
SP8	Surt	No	1.60 36×4=144	
	11		2.62 73×4=292	
	21			
	3			
	41			
SP9	SUFF	NO	1.27100	
511	11	NO	1,8 @ 43×4=172	
			140 0 100 1110	
	2'			
	2' 3' 4'			
SPW	Surf	NO	2.B.@. 4947	
	11	NO	2.00 49×4= 1.80 43×4=172	
	2'	100	1100 000-11.	
	3'			
	ÂŞ			
	17			

Floor = FL1 etc

Sidewall = SW1 etc

Released to Imaging: 9/25/2024 2:29:49 PM

Refusal = SP1 @ 4'-R GPS Sample Points, Center of Comp Areas Resamples= SP1b @ 5' or SW #1b Stockpile = Stockpile #1

Attachment VI Laboratory Analytical Results



January 31, 2022

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: MARALO FED #1 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/27/22 9:55.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 1 @ 0-4' BGS (H220316-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<2.00	2.00	01/29/2022	ND	2.03	102	2.00	2.58	
Toluene*	25.3	2.00	01/29/2022	ND	1.96	97.9	2.00	0.624	GC-NC
Ethylbenzene*	29.3	2.00	01/29/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	255	6.00	01/29/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	310	12.0	01/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	159	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	48.0	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6900	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	2010	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	376	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.8	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 2 @ 0-4' BGS (H220316-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	01/29/2022	ND	2.03	102	2.00	2.58	
Toluene*	10.8	0.200	01/29/2022	ND	1.96	97.9	2.00	0.624	GC-NC1
Ethylbenzene*	6.92	0.200	01/29/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	52.9	0.600	01/29/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	70.6	1.20	01/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	193	% 69.9-14	0						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	576	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	143	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	102	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	82.5	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 3 @ 0-4' BGS (H220316-03)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	01/28/2022	ND	1.96	97.9	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	0.226	0.150	01/28/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	<0.300	0.300	01/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	95.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.0	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 4 @ 0-4' BGS (H220316-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	01/28/2022	ND	1.96	97.9	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	<0.300	0.300	01/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	95.7	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	94.7	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 5 @ 0-4' BGS (H220316-05)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	01/29/2022	ND	1.96	97.9	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/29/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/29/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	<0.300	0.300	01/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1920	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	97.1	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	96.4	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 6 @ 0-4' BGS (H220316-06)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	01/29/2022	ND	1.96	97.9	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/29/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/29/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	<0.300	0.300	01/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	114 9	66.9-13	6						
Surrogate: 1-Chlorooctadecane	113 9	59.5-14	2						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 7 @ 0-4' BGS (H220316-07)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	01/29/2022	ND	1.96	97.9	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/29/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/29/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	<0.300	0.300	01/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	608	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	92.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.5	% 59.5-14	2						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 8 @ 0-4' BGS (H220316-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2022	ND	2.03	102	2.00	2.58	
Toluene*	0.602	0.050	01/29/2022	ND	1.96	97.9	2.00	0.624	GC-NC1
Ethylbenzene*	<0.050	0.050	01/29/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	11.5	0.150	01/29/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	12.1	0.300	01/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	379	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	451	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	365	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	133	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	90.0	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 9 @ 0-4' BGS (H220316-09)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	01/29/2022	ND	1.96	97.9	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/29/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/29/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	<0.300	0.300	01/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	89.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	89.5	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	01/31/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 10 @ 0-4' BGS (H220316-10)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/29/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	01/29/2022	ND	1.96	97.9	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/29/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/29/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	<0.300	0.300	01/29/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	87.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	85.7	% 59.5-14	2						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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 SM4500CI-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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 72 of 260

Received by OCD: 9/24/2024 7:18:18 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

Company Name: R.T. Hicks Consultants						B	ILL T	0	-	ANALYSIS REQUEST												
Project Manager:						P.O. #:							T	T	T	T	IN	EQUI	1			
Address: 901 Rio Grande Blvd NW, Suite F-142					Company: P.T. Histo Company																	
City: Albuquerque State: NM Zip: 87104					Company: R.T. Hicks Consultants																	
Phone #: 505-266-5004 Fax #:					Attn: Randy Hicks Address:																	
Project #: Project Owner: Murchison						City:																
Project Name: Maralo Fed #1 release																						
Project Location: Eddy County					State: Zip:																	
Sampler Name: Kristin Pope						Phone #:					0											
FOR LAB USE ONLY	Kilstill Pobe		T	-	I M	ATRIX	Fax #: PRESERV. SAMPLING					0										
Lab I.D.	Sample	Sample I.D.			GROUNDWATER WASTEWATER SOIL			ACIU/BASE: ICE / COOL OTHER :				TPH ROIS	BTEX	Chlorido			-					
1000 514	CC4 1 0 0 14 000		(G)RAB	# CONTAINERS	S S G	SL OI	04	2 D	DAT		-	~										
Z	SSA-1 @ 0-4 ft BGS SSA-2 @ 0-4 ft BGS	10	10	4	l Č			ð	1/19/2			X	X	X								
	SSA-3 @ 0-4 ft BGS		C	4				0		1246		X	X	X								-
	SSA-4 @ 0-4 ft BGS		C	1				ð l	-/	1258	F	X	X	X					100			
~	SSA-5 @ 0-4 ft BGS		10	1				ð	(1309	R.	SI	X	X								
	SSA-6 @ 0-4 ft BGS		12	4				\mathbf{O}		1320		SI	<u>X</u>	ð			-					
-	SSA-7 @ 0-4 ft BGS		C	1				\diamond		1344		SI	<u>X</u>	<u> </u>	-	-						
	SSA-8 @ 0-4 ft BGS		č	1				\mathbf{Q}		13.55		ð l	ð l	ð	-	-	-	_	_			
	SSA-9 @ 0-4 ft BGS		C	1	X				1	1405	10	SI	\mathbf{O}	\diamond		-	-	_	-		-	
10	SSA-10 @ 0-4 ft BGS		C	1	X		-	$\mathbf{\nabla}$	1			\Im	\diamond	Θ			-				-	
EASE NOTE: Liability an alyses. All claims includin	d Damages. Cardinal's liability and div ig those for negligence and any other or ardinal be liable for incidental or conse	ent's exclusive remedy for a cause whatsoever shall be	iny claim	arisin	g whether based	In contract	or tort, sha	all be limited to	o the amount	aid by the client	t for the								_			_
liates or successors arisin	ig out of or related to the performance	of services hereunder by C	without	limitati	ion, business int	emuptions, k	iss of use	, or loss of pro	offts incurred b	ifter completion of y client, its subsi	of the apidiaries,	spplicable s,	•									
Knutin Pope		Date: 1-27-22 Time: 0955 Date:	Received By:				Ma	Phone F Fax Res REMAR	Resul	//se. esult: □ Yes □ No Add'I Phone #: 												
		Time:	Red	erve	ed By:)		Em	ail	to k	risti	n@r	thick	scor	nsult	con	n			
Delivered By: ampler - UPS	(Circle One) 2: Bus - Other:	5:) C-0 2.00 A			Sample Cool II																	


February 15, 2022

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: MARALO FED #1 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/14/22 11:05.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	02/14/2022	Sampling Date:	01/19/2022
Reported:	02/15/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 1 @ 0-2' (H220562-01)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/15/2022	ND	432	108	400	0.00	

Sample ID: SSA - 1 @ 2-4' (H220562-02)

Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/15/2022	ND	432	108	400	0.00	

Sample ID: SSA - 2 @ 0-2' (H220562-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/15/2022	ND	432	108	400	0.00	

Sample ID: SSA - 2 @ 2-4' (H220562-04)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/15/2022	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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Page 76 of 260

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: RT Hicks Consultants	BILL TO		ANALYSIS F	REQUEST
Project Manager: Kristin Pope	P.O. #:			
Address: 901 Rio Grande Blud NW, Suite F-14	Company: RT Hick	ks		
City: Albuqueralle State: NM Zip: 8710	4 Attn: Randy			
Phone #: \$75-302-6755 Fax #:	Address:			
Project #: Project Owner: Marchis	ON City:			
Project Name: Maralo Fed #1 Release	State: Zip:			
Project Location: Eddy Co.	Phone #: 505-266	-5004		
Sampler Name: Kristin Pape	Fax #:			
FOR LAB USE ONLY	MATRIX PRESERV. SAN	PLING		
Lab I.D. Sample I.D. U330563 1 55A-1 @ 0-2 ft 2 55A-1 @ 2-4 ft 3 55A-2 @ 0-2 ft 4 55A-2 @ 2-4 ft G I	Solution Subde Subde Other: Acid/Base: Acid/Base: Other: Other:	TIME 1225 1230 1238 1246		
Coo	de in writing and received by Cardinal within 30 days after interruptions, loss of use, or loss of profits incurred by or ther such claim is based upon any of the above stated re- de Condition Intact es Pres Pres	r completion of the applicable lent, its subsidiaries, isons or otherwise.	dard Bacteria (or Cool Intact	nly) Sample Condition Observed Temp. °C



February 16, 2022

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: MARALO FED #1 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 02/14/22 11:05.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	02/14/2022	Sampling Date:	01/19/2022
Reported:	02/16/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 1 @ 0-2' (H220563-01)

<10.0

263 %

140 %

10.0

66.9-136

59.5-142

BTEX 8021B	mg,	′kg	Analyze	d By: MS					I-02, S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.124	0.050	02/15/2022	ND	1.84	92.0	2.00	7.59	
Toluene*	7.91	0.050	02/15/2022	ND	1.85	92.4	2.00	8.24	GC-NC1
Ethylbenzene*	<0.050	0.050	02/15/2022	ND	1.85	92.6	2.00	9.92	
Total Xylenes*	107	0.150	02/15/2022	ND	5.73	95.5	6.00	10.3	GC-NC1
Total BTEX	115	0.300	02/15/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	762	% 69.9-14	0						
TPH 8015M	mg/	′kg	Analyze	d By: CK					I-02, S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3220	10.0	02/15/2022	ND	208	104	200	0.994	
DRO >C10-C28*	1010	10.0	02/15/2022	ND	225	112	200	3.80	

ND

02/15/2022

Cardinal Laboratories

EXT DRO >C28-C36

Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	02/14/2022	Sampling Date:	01/19/2022
Reported:	02/16/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 1 @ 2-4' (H220563-02)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					I-02, S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2022	ND	1.84	92.0	2.00	7.59	
Toluene*	0.993	0.050	02/15/2022	ND	1.85	92.4	2.00	8.24	GC-NC1
Ethylbenzene*	<0.050	0.050	02/15/2022	ND	1.85	92.6	2.00	9.92	
Total Xylenes*	15.0	0.150	02/15/2022	ND	5.73	95.5	6.00	10.3	GC-NC1
Total BTEX	16.0	0.300	02/15/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	407 9	% 69.9-14	0						
TPH 8015M	mg/	′kg	Analyze	d By: CK					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	217	10.0	02/15/2022	ND	208	104	200	0.994	
DRO >C10-C28*	317	10.0	02/15/2022	ND	225	112	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	02/15/2022	ND					
Surrogate: 1-Chlorooctane	132 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	128 9	% 59.5-14							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	02/14/2022	Sampling Date:	01/19/2022
Reported:	02/16/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 2 @ 0-2' (H220563-03)

BTEX 8021B	mg	/kg	Analyze	d By: MS					I-02, S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.17	0.050	02/15/2022	ND	1.84	92.0	2.00	7.59	
Toluene*	63.3	1.00	02/16/2022	ND	1.85	92.4	2.00	8.24	GC-NC1
Ethylbenzene*	27.1	1.00	02/16/2022	ND	1.85	92.6	2.00	9.92	GC-NC1
Total Xylenes*	212	0.150	02/15/2022	ND	5.73	95.5	6.00	10.3	GC-NC1
Total BTEX	305	0.300	02/15/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	533	% 69.9-14	10						
TPH 8015M	mg/	/kg	Analyze	d By: CK					I-02, S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2640	10.0	02/15/2022	ND	208	104	200	0.994	
DRO >C10-C28*	271	10.0	02/15/2022	ND	225	112	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	02/15/2022	ND					
Surrogate: 1-Chlorooctane	164	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	130	% 59.5-14							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	02/14/2022	Sampling Date:	01/19/2022
Reported:	02/16/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 2 @ 2-4' (H220563-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					I-02, S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/15/2022	ND	1.84	92.0	2.00	7.59	
Toluene*	0.275	0.050	02/15/2022	ND	1.85	92.4	2.00	8.24	GC-NC1
Ethylbenzene*	<0.050	0.050	02/15/2022	ND	1.85	92.6	2.00	9.92	
Total Xylenes*	3.04	0.150	02/15/2022	ND	5.73	95.5	6.00	10.3	GC-NC1
Total BTEX	3.32	0.300	02/15/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	160 %	69.9-14	10						
TPH 8015M	mg/	kg	Analyze	d By: CK					I-02
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.1	10.0	02/15/2022	ND	208	104	200	0.994	
DRO >C10-C28*	16.8	10.0	02/15/2022	ND	225	112	200	3.80	
EXT DRO >C28-C36	<10.0	10.0	02/15/2022	ND					
Surrogate: 1-Chlorooctane	106 %	66.9-13	6						
Surrogate: 1-Chlorooctadecane	119 %	59.5-14	12						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
I-02	This result was analyzed outside of the EPA recommended holding time.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

(575) 393-2326 FAX (575) 393-2	176	0000000000 ~ 0 7 8 98 7 7 90000000000	ANALYSIS REQUEST
Company Name: RT Hicks Consultants		BILL TO	
Project Manager: Kristin Pope		P.O. #:	
Address: ANI Rin Grando Blud NW, SU	ite F-142	Company: RT Hicks	
City: Albuquerque State: NM	Zip: 87104	Attn: Randy	
Phone #: 575-302-6755 Fax #:		Address:	
Project #: Project Owne	r: Murchison	City:	
Project Name: Maralo Fod #1 Release	1	State: Zip:	
Project Name. Maralo red I nereuse		Phone #: 505-266-5004	
Project Location: Eddy Co.		Fax #:	
Sampler Name: Kristin Pope	MATRIX	PRESERV. SAMPLING	801
Lab I.D. Sample I.D. H320 5763 1 55A - 1 @ 0-2 f4 2 55A - 1 @ 2-4 f4 3 55A - 2 @ 0-2 f4 4 55A - 2 @ 2-4 f4	C C C C (G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL	DATE TIME VCIDIBASE: V	
	r sou claim selsion whether based in conti	ract or tor, shall be limited to the amount paid by the client f	orthe
Kontin Popp Time: 9:4	sing without limitation, business interruption w Cardinal, regardless of whether such of Received By: 22	ns, loss of use, or loss of profits incurred by client, its subsid aim is based upon any of the above stated reasons or other Verbal R All Result	anes. Hesult: <u>Yes No Add'I Phone #:</u> ts are emailed. Please provide Email address: of In Orthicks consult.com, R.O
Relinquished By: Date: 2-14-6 Time: 1/05 Delivered By: (Circle One) Observed Temp.	c 33 Sample Con		und Time: Standard Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other: Corrected Temp.		Yes TO Thermom No TO Correction	eter ID #97-#18

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Page 7 of 7

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

Received by OCD: 9/24/2024 7:18:18 AM



February 01, 2022

KRISTIN POPE R T HICKS CONSULTANTS 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE, NM 87104

RE: MARALO FED #1 RELEASE

Enclosed are the results of analyses for samples received by the laboratory on 01/27/22 9:55.

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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 1 @ 4.2' BGS (H220315-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<1.00	1.00	01/27/2022	ND	2.03	102	2.00	4.81	
Toluene*	8.21	1.00	01/27/2022	ND	1.97	98.3	2.00	4.83	GC-NC1
Ethylbenzene*	13.5	1.00	01/27/2022	ND	1.94	97.1	2.00	5.07	GC-NC1
Total Xylenes*	113	3.00	01/27/2022	ND	5.87	97.8	6.00	5.36	GC-NC1
Total BTEX	135	6.00	01/27/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	162 9	69.9-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/28/2022	ND	432	108	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2230	10.0	01/28/2022	ND	213	106	200	6.98	
DRO >C10-C28*	776	10.0	01/28/2022	ND	210	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	351	% 66.9-13	6						

Surrogate: 1-Chlorooctadecane 96.3 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 2 @ 4.2' BGS (H220315-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2022	ND	2.03	102	2.00	4.81	
Toluene*	1.39	0.050	01/27/2022	ND	1.97	98.3	2.00	4.83	GC-NC1
Ethylbenzene*	1.54	0.050	01/27/2022	ND	1.94	97.1	2.00	5.07	GC-NC1
Total Xylenes*	14.1	0.150	01/27/2022	ND	5.87	97.8	6.00	5.36	GC-NC1
Total BTEX	17.0	0.300	01/27/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	285	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/28/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	133	10.0	01/28/2022	ND	213	106	200	6.98	
DRO >C10-C28*	125	10.0	01/28/2022	ND	210	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	125	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	100	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 3 @ 4.2' BGS (H220315-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2022	ND	2.03	102	2.00	4.81	
Toluene*	<0.050	0.050	01/27/2022	ND	1.97	98.3	2.00	4.83	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	1.94	97.1	2.00	5.07	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	5.87	97.8	6.00	5.36	
Total BTEX	<0.300	0.300	01/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	103	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	01/28/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	213	106	200	6.98	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	210	105	200	8.92	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	93.0	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.4	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 4 @ 4.2' BGS (H220315-04)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/27/2022	ND	2.03	102	2.00	4.81	
Toluene*	<0.050	0.050	01/27/2022	ND	1.97	98.3	2.00	4.83	
Ethylbenzene*	<0.050	0.050	01/27/2022	ND	1.94	97.1	2.00	5.07	
Total Xylenes*	<0.150	0.150	01/27/2022	ND	5.87	97.8	6.00	5.36	
Total BTEX	<0.300	0.300	01/27/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	01/28/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2022	ND	187	93.7	200	3.96	
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	217	108	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					
Surrogate: 1-Chlorooctane	96.4	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	87.7	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 5 @ 4.2' BGS (H220315-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	1.97	98.7	2.00	3.17	
Toluene*	<0.050	0.050	01/28/2022	ND	1.89	94.5	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.90	95.2	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.77	96.1	6.00	4.19	
Total BTEX	<0.300	0.300	01/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	01/28/2022	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2022	ND	187	93.7	200	3.96	
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	217	108	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					
Surrogate: 1-Chlorooctane	102 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	93.9	% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 6 @ 4.2' BGS (H220315-06)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	1.97	98.7	2.00	3.17	
Toluene*	<0.050	0.050	01/28/2022	ND	1.89	94.5	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.90	95.2	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.77	96.1	6.00	4.19	
Total BTEX	<0.300	0.300	01/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/28/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2022	ND	187	93.7	200	3.96	
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	217	108	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					
Surrogate: 1-Chlorooctane	90.5	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	83.6	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 7 @ 4.2' BGS (H220315-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	1.97	98.7	2.00	3.17	
Toluene*	<0.050	0.050	01/28/2022	ND	1.89	94.5	2.00	3.39	
Ethylbenzene*	0.072	0.050	01/28/2022	ND	1.90	95.2	2.00	4.20	GC-NC1
Total Xylenes*	0.924	0.150	01/28/2022	ND	5.77	96.1	6.00	4.19	GC-NC1
Total BTEX	0.996	0.300	01/28/2022	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	117 9	% 69.9-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	01/28/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2022	ND	187	93.7	200	3.96	
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	217	108	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					
Surrogate: 1-Chlorooctane	98.2	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane	91.5	% 59.5-14	2						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 8 @ 4.2' BGS (H220315-08)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					S-04	
Analyte	Result	Reporting Limit	imit Analyzed Method Blank		BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/28/2022	ND	1.97	98.7	2.00	3.17		
Toluene*	0.124	0.050	01/28/2022	ND	1.89	94.5	2.00	3.39	GC-NC1	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.90	95.2	2.00	4.20	0	
Total Xylenes*	3.64	0.150	01/28/2022	ND 5.77 96.1 6.00		4.19	GC-NC1			
Total BTEX	3.77	0.300	01/28/2022	01/28/2022 ND			GC-NC1			
Surrogate: 4-Bromofluorobenzene (PID	0									
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	lank BS % Recovery Tr		True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	01/28/2022	ND	432	108	3.77			
TPH 8015M	mg/	′kg	Analyze	d By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	98.3	10.0	01/31/2022	ND	187	93.7	200	3.96		
DRO >C10-C28*	160	10.0	01/31/2022	ND	217	108	200	4.10		
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND						
Surrogate: 1-Chlorooctane	119 9	66.9-13	6							
Surrogate: 1-Chlorooctadecane	100 9	% 59.5-14	2							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 9 @ 4.2' BGS (H220315-09)

BTEX 8021B	mg,	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	1.97	98.7	2.00	3.17	
Toluene*	<0.050	0.050	01/28/2022	ND	1.89	94.5	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.90	95.2	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.77	96.1	6.00	4.19	
Total BTEX	<0.300	0.300	01/28/2022	ND					
urrogate: 4-Bromofluorobenzene (PID 101 % 69.9-1		0							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2022	1/28/2022 ND		108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/31/2022	ND	187	93.7	200	3.96	
DRO >C10-C28*	<10.0	10.0	01/31/2022	ND	217	108	200	4.10	
EXT DRO >C28-C36	<10.0	10.0	01/31/2022	ND					
Surrogate: 1-Chlorooctane	93.6	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane 88.5 % 59.5-14		2							

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: SSA - 10 @ 4.2' BGS (H220315-10)

BTEX 8021B	mg	/kg	Analyze	d By: MS/					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	1.97	98.7	2.00	3.17	
Toluene*	<0.050	0.050	01/28/2022	ND	1.89	94.5	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.90	95.2	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.77	96.1	6.00	4.19	
Total BTEX	<0.300	0.300	01/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID 102 %		% 69.9-14	0						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Analyte Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	01/28/2022	ND	432	108	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.6	10.0	01/31/2022	ND	187	93.7	200	3.96	
DRO >C10-C28*	22.6	10.0	01/31/2022	ND	217	108	200	4.10	
EXT DRO >C28-C36	<10.0	0 10.0 01/31/2022 N		ND					
Surrogate: 1-Chlorooctane	rogate: 1-Chlorooctane 90.2 % 66.9-1		6						
Surrogate: 1-Chlorooctadecane	83.6	% 59.5-14	2						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: BACKGROUND @ 0-4' BGS (H220315-11)

BTEX 8021B	mg/	′kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	it Analyzed Method Blank		BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	1.97	98.7	2.00	3.17	
Toluene*	<0.050	0.050	01/28/2022	ND	1.89	94.5	2.00	3.39	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.90	95.2	2.00	4.20	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.77	96.1	6.00	4.19	
Total BTEX	<0.300	0.300	01/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID 102 % 69.9-14		0							
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	01/28/2022	2022 ND		100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	103 9	% 66.9-13	6						
Surrogate: 1-Chlorooctadecane 104 % 59.5-142		2							

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



R T HICKS CONSULTANTS KRISTIN POPE 901 RIO GRANDE BLVD SUITE F-142 ALBUQUERQUE NM, 87104 Fax To: NONE

Received:	01/27/2022	Sampling Date:	01/19/2022
Reported:	02/01/2022	Sampling Type:	Soil
Project Name:	MARALO FED #1 RELEASE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	MURCHISON- EDDY CO.		

Sample ID: BACKGROUND @ 4.2' BGS (H220315-12)

BTEX 8021B	mg/	/kg	Analyze	d By: MS/					
Analyte	Result	Reporting Limit	ng Limit Analyzed Method Bla		BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/28/2022	ND	2.03	102	2.00	2.58	
Toluene*	<0.050	0.050	01/28/2022	ND	1.96	97.9	2.00	0.624	
Ethylbenzene*	<0.050	0.050	01/28/2022	ND	1.96	98.0	2.00	1.09	
Total Xylenes*	<0.150	0.150	01/28/2022	ND	5.97	99.5	6.00	0.350	
Total BTEX	<0.300	0.300	01/28/2022	ND					
Surrogate: 4-Bromofluorobenzene (PID 101 % 69.9-14		0							
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	01/28/2022	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/28/2022	ND	201	100	200	1.03	
DRO >C10-C28*	<10.0	10.0	01/28/2022	ND	207	103	200	3.51	
EXT DRO >C28-C36	<10.0	10.0	01/28/2022	ND					
Surrogate: 1-Chlorooctane	2: 1-Chlorooctane 91.1 % 66.9-1.		6						
Surrogate: 1-Chlorooctadecane 90.5 %		% 59.5-14	2						

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Celey D. Keene, Lab Director/Quality Manager



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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 303-2326 EAX (575) 303-2476

Company Name: R.T. Hicks Consultants		BILL TO	ANALYSIS REQUEST
Project Manager:		P.O. #:	
Address: 901 Rio Grande Blvd NW, Suite F-142		Company: R.T. Hicks Consultants	
City: Albuquerque State:	M Zip: 87104	Attn: Randy Hicks	
Phone #: 505-266-5004 Fax #:		Address:	
	Owner: Murchison	City:	
Project Name: Maralo Fed #1 release	MUTCHISON	State: Zip:	
Project Location: Eddy County		Phone #:	
Sampler Name: Kristin Pope		Fax #:	
FOR LAB USE ONLY	MATRIX		
	Wb.		
	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL		No.
Lab I.D. Sample I.D.	OR DW/		
In not	(G)RAB OR (C)C # CONTAINERS GROUNDWATEI WASTEWATER SOIL	SLUDGE ACID/BAR ACID/BAR ACID/BAR ACID/BAR ACID/BAR	THE CREATE
1220315		SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : AMIL ALVO	
	GSG1X	X H9-22 1232	
	SGIX	1249	
355A-3 @ 4.2 ft B		X / 1303	
	4561 X	X (B13	
	GGI X	B22	
655A-6 @ 4.2 ft Be	561	346	
8 BA-8 Q 4. 2 Ft BG	s a / X	(1356	
9 KD-9 0 4 2 11 22		1408	
1 SA-16 @ 4. 2 M BC		1426	
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Ace. In no event shall Cardinal be liable for incidental or consequental damages in	man be deemed waved unless made in writing	and received by Cardinal within 30 days after completion of the a	e applicable
lates or successors arising out of or related to the performance of services hereun elinquished By: Date:	er by Cardinal, regardless of whether such da	im is based upon any of the above stated reasons or otherwise. Phone Resu	
Varia Das Tipe:	do la	Fax Result:	It: □ Yes □ No Add'I Phone #: □ Yes □ No Add'I Fax #:
Michtin Pope 0955	Mulara	Aldaha REMARKS:	
Date:	Received By:	Fmail	to kristin@rthicksconsult.com
Time:		Erran	to thoungent longconsult.com

CHECKED BY:

(Initials)

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Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

+ Cardinal connet accent.

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Sample Condition

Yes Yes

Cool Intact

Released to Imaging: 9/25/2024 2:29:49 PM

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Received by OCD: 9/24/2024 7:18:18 AM

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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

Company Nam	R.T. Hicks Consultants						- 6			B	ILL	TO					ANALYSIS REQUEST
Project Manage	er:							P.0). #:				2.00				
Address: 901 F	Rio Grande Blvd NW, Suite F-142							Cor	mpa	ny: F	RT H	icks C	onsultants	1			
City: Albuquer		Zij	p: 8	3710	4	100					Hicks		onoununto				
Phone #: 505								Add			THERE				1.00		
Project #:	Project Own	er:	Mu	irch	ison			City:							- 1		
Project Name:	Maralo Fed #1 release		IVIL	IGH	15011		State:										
	on: Eddy County							Phone #:									
Sampler Name	Kristin Pone	-	-	-			_	Fax		T .			P	0	-		
FOR LAB USE ONLY	Klistin Pobe	T	Г	T	M	ATRI	_	-	-	SER	/. s	AMPL	ING	5			
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL OTHER :	D	ATE	TIME	TPH 80.	RTEX	Oblacida	
11	Background @ 0-4 ft BGS	С	-	ľ	X			Ĭ		X		9/22	1210	X	X	X	
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analyses. All claims includi	nd Damages. Cardinal's liability and dient's exclusive remedy for ing those for negligence and any other cause whatsoever shall be	deemed	d waive	ed unie	ss made	in writin	no and r	eceive	d by C	ardinal	within 30	days after	completion of the	e annlinahi			
service. In no event shall C	Cardinal be liable for incidental or consequental damages, including out of or related to the performance of services hereunder by	g withou	t limita	ation, b	usiness in	nterrupi	tions, lo	ss of u	se, or	loss of p	profits incu	urred by c	dient, its subsidiari	ies.			
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Sampler - UPS	- Bus - Other:								-	(Init	tials)						

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

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June 13, 2024

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: MARALO FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 06/07/24 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-23-16. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 1 - SURF (H243275-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 1 - 1' (H243275-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	88.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.7	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 2 - SURF (H243275-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	83.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 2 - 1' (H243275-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	90.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 3 - SURF (H243275-05)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 3 - 1' (H243275-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	87.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 4 - SURF (H243275-07)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	86.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.6	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 4 - 1' (H243275-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.3	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 5 - SURF (H243275-09)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.85	92.4	2.00	0.392	
Toluene*	<0.050	0.050	06/11/2024	ND	1.83	91.7	2.00	2.12	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.87	93.7	2.00	3.46	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.43	90.5	6.00	3.64	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	78.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.3	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 5 - 1' (H243275-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	88.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.3	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 6 - SURF (H243275-11)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	86.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 6 - 1' (H243275-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.0	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 7 - SURF (H243275-13)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	79.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.0	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 7 - 1' (H243275-14)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	90.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 8 - SURF (H243275-15)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	88.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.5	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 8 - 1' (H243275-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	187	93.7	200	1.78	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	187	93.3	200	0.349	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	85.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 9 - SURF (H243275-17)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2024	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	88.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 9 - 1' (H243275-18)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.8	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 10 - SURF (H243275-19)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	78.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.3	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: HZ 10 - 1' (H243275-20)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	74.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.6	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 1 - SURF (H243275-21)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	90.2	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	90.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 1 - 4' (H243275-22)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	83.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.7	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 2 - SURF (H243275-23)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	13.1	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	79.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.5	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 2 - 4' (H243275-24)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	109	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	81.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.5	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 3 - SURF (H243275-25)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4160	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	93.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.8	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 3 - 4' (H243275-26)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	656	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	94.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 4 - SURF (H243275-27)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	108	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5300	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 4 - 2' (H243275-28)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	87.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.4	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 5 - SURF (H243275-29)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	2.03	101	2.00	4.47	
Toluene*	<0.050	0.050	06/11/2024	ND	2.15	107	2.00	3.75	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	2.14	107	2.00	2.70	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	6.59	110	6.00	2.81	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1540	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 5 - 1' (H243275-30)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	87.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 6 - SURF (H243275-31)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2080	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	92.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.1	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 6 - 1' (H243275-32)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	81.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	84.8	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 7 - SURF (H243275-33)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	204	102	200	0.503	
DRO >C10-C28*	<10.0	10.0	06/11/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					
Surrogate: 1-Chlorooctane	82.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.0	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 7 - 2' (H243275-34)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	204	102	200	0.503	
DRO >C10-C28*	119	10.0	06/11/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					
Surrogate: 1-Chlorooctane	62.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.5	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 8 - SURF (H243275-35)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	204	102	200	0.503	
DRO >C10-C28*	129	10.0	06/11/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.4	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 8 - 1' (H243275-36)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/11/2024	ND	204	102	200	0.503	
DRO >C10-C28*	139	10.0	06/11/2024	ND	185	92.3	200	1.70	
EXT DRO >C28-C36	<10.0	10.0	06/11/2024	ND					
Surrogate: 1-Chlorooctane	80.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 9 - SURF (H243275-37)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	124	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	76.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	75.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 9 - 1' (H243275-38)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	20.5	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	74.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 10 - SURF (H243275-39)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	96.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	83.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	06/07/2024	Sampling Date:	06/06/2024
Reported:	06/13/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SP 10 - 1' (H243275-40)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/11/2024	ND	1.82	90.8	2.00	2.11	
Toluene*	<0.050	0.050	06/11/2024	ND	1.84	91.8	2.00	1.42	
Ethylbenzene*	<0.050	0.050	06/11/2024	ND	1.74	86.8	2.00	0.686	
Total Xylenes*	<0.150	0.150	06/11/2024	ND	5.42	90.3	6.00	0.273	
Total BTEX	<0.300	0.300	06/11/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	06/11/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/10/2024	ND	207	103	200	0.268	
DRO >C10-C28*	<10.0	10.0	06/10/2024	ND	203	101	200	0.162	
EXT DRO >C28-C36	<10.0	10.0	06/10/2024	ND					
Surrogate: 1-Chlorooctane	84.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.0	% 49.1-14	8						

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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, Lab Director/Quality Manager

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Relinquished By: Sampler Name: Phone #: City: Project Manager: Project Location: Project Name: Project #: Address: Company Name: LEASE NOTE: FOR LAB USE ONLY 64377 Lab I.D. In no e è Lovington 575 393-3386 4024 Plains Hwy 0 0 N HZ5-Surf Maralo Federal Com #1 HZ5-1' HZ4-1' HZ4-Surf HZ3-1' HZ3-Surf HZ2-1' HZ2-Surf HZ1-1' HZ1 -Surf 101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Daniel Dominguez UL/ L Sec 22 T17S - R27E Hungry Horse LLC Jerry Heidelberg Sample I.D. Project Owner: Fax #: State: Time:325 Date: 6-7-24 NM Murchison Oil & Gas G G G G G G G G 9 G (G)RAB OR (C)OMP Received B Zip: -# CONTAINERS ----88260 GROUNDWATER WASTEWATER MATRIX × × × \times × × × × × × SOIL DIL SLUDGE Fax #: OTHER Phone #: 575 706-0667 State: NM City: Attn: Company Address: 5325 Sierra Vista P.O. #: ACID/BASE PRESERV. Greg Boans ICE / COOL × × × × × × × Carlsbad × × BILL OTHER Zip: 88230 Murchison Oil & Gas 6/6/24 6/6/24 6/6/24 6/6/24 6/6/24 6/6/24 6/6/24 6/6/24 6/6/24 6/6/24 DATE SAMPLING TO d by the Fax Result: Phone Result: client for the tion of the appl REMARKS: TIME ICaDie × × × × × × Chloride × × × × □ Yes × × × × × × × × × × TPH BTEX 8021 × × × × × × × × × × ANALYSIS Add'I Fax #: Add'l Phone #: REQUEST

Received by OCD: 9/24/2024 7:18:18 AM

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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

2

Cool Infact Sample Condition

D

(Initials)

CHECKED BY:

Sampler - UPS

Delivered By:

(Circle One) Bus - Other:

> Time: Date:

> > Received By

Email results to:

pm@hungry-horse.com gboans@jdmii.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 142 of 260

Received by OCD: 9/24/2024 7:18:18 AM

1	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	I, Hobbs, NM 88240 FAX (575) 393-2476	40												
Company Name:		0					\neg		m	BILL TO		-			ANALYSIS
Project Manager:	Daniel Dominguez	Z					P.	P.O. #:							
Address: 4024 I	4024 Plains Hwy						Co	Company	iny	Murchison Oil	in Oil & Gas				
City: Lovington		State: NM	Zip:		88260		Att	Attn:	Greg	Greg Boans					
le #:	575 393-3386	Fax #:					Ad	Idres	S: 5	Address: 5325 Sierra Vista	Vista				
Project #:		Project Owner:	Murc	Murchison Oil &	Oil &	Gas	City:	ty:	Carlsbad	sbad					
Project Name: M	Maralo Federal Com #1	#1					Sta		MN	P.	88230				
Project Location:	UL/ L Sec 22 T17S	S - R27E					Ph	Phone #:		575 706-0667	67				
Sampler Name:	Jerry Heidelberg						Fa	Fax #:	-						
FOR LAB USE ONLY				-		MATRIX		PRE	PRESERV	П	SAMPLING				
Lab I.D.	Sample I.D.	I.D.	(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER	WASTEWATER		SLUDGE OTHER :	ACID/BASE	OTHER :	DATE	TIME	Chloride	ТРН	BTEX 8021	
Н // Н	HZ6-Surf		G	-	-		-	-	-		-	×	×	×	
Н 2/	HZ6-1'		G	-		×			×	6/6/24	-	×	×	×	
H CI	HZ7-Surf		G	-	-	×	_		×	6/6/24	-	×	×	×	
H H	HZ7-1'		G			×			×	6/6/24	-	×	×	×	
H S/	HZ8-Surf		G			×			×	6/6/24	-	×	×	×	
Н 9/.	HZ8-1'		G	-		×			×	6/6/24	-	×	×	×	
17 H	HZ9-Surf		G	-		×			×	6/6/24		×	×	×	
HQL	HZ9-1'		G	-		×	-		×	6/6/24	-	×	×	×	
Н 61	HZ10-Surf		G	-		×			×	6/6/24		×	×	×	
20	HZ10-1'		G	-		×			×	6/6/24		×	×	×	
PLEASE NOTE: Liability and Dama analyses. All claims including those service. In no event shall Cardinal b	ges. Cardinal's for negligence e liable for inci-	ges. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the for negligence and any other cause whatsower shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the app a bable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries a bable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries a bable for incidental or consequential damages.	or any claim arising whethe be deemed waived unless ding without limitation, busi	ved unless tation, busin	tether base tess made business in	ed in contract or tort, shall be e in writing and received by Ca interruptions, loss of use, or lo	received received iss of use	all be lim by Card or loss	imited to the indinal within iss of profits i	based in contract or tort, shall be limited to the amount paid by made in writing and received by Cardinal within 30 days after con ess interruptions, loss of use, or loss of profits incurred by client, ess interruptions.	ant paid by the client for the ys after completion of the ag d by client, its subsidiaries.	oplicable			
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1		Time:								1	-			gboans(gboans@jdmii.com
Delivered By: (Circle One) Sampler - UPS - Bus - Other	(Circle One) Bus - Other:	t	14	2	Sam	Sample Condition Cool Intact	dition		(In	(Initials)					

Page 44 of 46

Page 143 of 260

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Page 144 of 260

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	(575) 393-2326 FAX (575) 393-2476	FAX (5	FAX (575) 393-2476	76																	
Company Name:		.C							-			B	BILL TO						ANALYSIS	REQUEST	
Project Manager:	Daniel Dominguez	ZE							P	P.O. #:	37								_		
Address: 4024	4024 Plains Hwy								0	Company	any		Murchison Oil	& Gas							
City: Lovington		State:	MM	Zip:	b: 88260	260			Þ	Attn:		eg E	Greg Boans								
Phone #: 575 3:	575 393-3386	Fax #:							A	ddre	SS:	53	Address: 5325 Sierra Vista	ita							
Project #:		Project	Project Owner:	Murch	Murchison Oil &)il & G	Gas		0	City:	Ca	Carlsbad	ad								
Project Name: M	Maralo Federal Com #1	#1							S	State: NM	N		Zip: 88230								
Project Location:	UL/ L Sec 22 T17S -	7S - R27E	7E						P	Phone #:	#	57	575 706-0667								
Sampler Name:	Jerry Heidelberg								T	Fax #:		1									
FOR LAB USE ONLY					П	2	MATRIX	×	1 ł	밁	PRESERV.	RV.	SAMPLING	G							
Lab I.D.	Sample I.D.	I.D.		(G)RAB OR (C)OMP	# CONTAINERS GROUNDWATER	WASTEWATER	SOIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	Chloride	трн	BTEX 8021				
als	SP1-Surf			G	-		×	-	-		×		6/6/24		×	×	×				
	SP1-4'			G	-		×	-	-		×		6/6/24		×	×	×				
SCE	SP2-Surf			G	1		×	-	-		×		6/6/24		×	×	×				
	SP2-4'			G	-		×	-			×		6/6/24		×	×	×				
	SP3-Surf			G	-		×	-	-	-	×		6/6/24		×	×	×				
	SP3-4'			G	-		×	-	-		×		6/6/24		×	×	×				
S	SP4-Surf			G	-		×	-			×		6/6/24		×	×	×				
sge	SP4-2'			G	-		×	-			×		6/6/24		×	×	×				
29 S	SP5-Surf			G	-		×	-			×		6/6/24		×	×	×				
	SP5-1'			G	1		×	-			×		6/6/24		×	×	×	_			
PLEASE NOTE: Liability and Damages Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatevere shall be demod waived unless made in writing and received by Cardinal writin 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profils incurred by client, is subsidiaries, artifiates or successors arising out of or related to the performance of services hereinder by Cardinal repartices of whether such claims is based upon any of the atoms shaded to assons or of hereinder by Cardinal repartices of whether such claims is beaded upon any of the atoms shaded to assons or otherwise artifiates or successors arising out of or related to the performance of services hereinder by Cardinal repartices of whether such claims is beaded upon any of the atoms stand to assons or otherwise artifiates or successors arising out of or related to the performance of services hereinder by Cardinal repartices of whether such claims is based upon any of the atoms stand to assons or otherwise artifiates or successors arising out of or related to the performance of services hereinder by Cardinal repartices of whether such claims is based upon any of the atoms stand to assons or otherwise artifiates or successors arising out of or related to the performance of services hereinder by Cardinal repartices of whether such claims is based upon any of the atoms stand to assons or otherwise artifiates or successors arising out of or related to the performance of services hereinder by Cardinal repartices of whether such claims is based upon any of the atoms assons or otherwise artifiates or successors arising out of or related to the performance of services hereinder by claims at a successors of thereinder	and Damages Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the ding those for negligence and any other cause whatsever shall be deemed warved unless made unless made in writing and received by Cardinal within 30 days after completion of the a Cardinal be liable for incidential or consequential damages, including without limitation, business interruptions, loss of uses of profils incurred by client, its subsidiaries sind out of or related to the performance of services hereunder by Cardinal reparties of whether such claim is based unon any of the above stated reasons or ofhenesies sind out of or related to the performance of services hereunder by Cardinal reparties of whether such claim is based unon any of the above stated reasons or ofhenesies of the service of the service of the second services and the service of the service of the above stated reasons or otherwise the service of the service of the second service of the service of the service of the above stated reasons or otherwise the service of the above stated reasons or otherwise the service of the service of	stient's exclus or cause wha sequental da	ive remedy for any i tsoever shall be dee mages, including wi s hereunder by Carc	claim arisi med waiv thout limit thal. reca	ing whethe ved unless tation, busi	rr based made in ness intr whether	in cont writing erruptic	contract or tort, shall t writing and received by ruptions, loss of use, or ch claim is based upor	tort, st aceived s of us	l by Ca e, or lo	imited indinal ss of p	to the within rofits i	amount paid by the 30 days after comple ncurred by client, its	client for the ation of the applic subsidiaries, r otherwise	able						
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† Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476
Received by OCD: 9/24/2024 7:18:18 AM

101	01 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	Hobbs, NM 88	240 476									
Company Name:	Hungry Horse LLC				E	BILL TO					ANALYSIS REQ	REQUEST
	Daniel Dominguez				P.O. #:			_	_	-		
P	ains Hwy				Company	Murchison Oil &	l & Gas	_				
City: Lovington		State: NM	Zip: 88	88260	Attn: Greg	Greg Boans		_				
e #		Fax #:	-		16 L	erra	Vista					
Project #:	P	Project Owner:	Murchison	Oil & Gas	City: Carlsbad	sbad						
Project Name: Mara	Maralo Federal Com #1	1			State: NM	Zip: 88230		_				
on:	UL/ L Sec 22 T17S	S - R27E			#	575 706-0667		_				
	Jerry Heidelberg				Fax #:					-		
				MATRIX	PRESERV	V. SAMPLING	NG					
Lab I.D.	Sample I.D.	I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL	DATE	TIME	Chloride	TPH BTEX 8021			
3/ SPF	SPR-Surf		-	×	×		-	-	-	×		
32 SP6-1	6-1'		-	×	×	6/6/24		-	-	×		
~	SP7-Surf		G 1	×	×	6/6/24		-		×		
	7-2'		G 1	×	×	6/6/24				×		
3ds SPS	SP8-Surf		G 1	X	X	6/6/24		×	×	×		
36 SP8-1'	8-1'		G 1	×	×	6/6/24		×	×	×		
37 SPS	SP9-Surf		G 1	×	X	6/6/24		×	×	×		
1	9-1'		G 1	×	×	6/6/24		×	×	×		
SP1	SP10-Surf		G 1	×	×	6/6/24			×	×		
PLEASE NOTE: Liability and Dama	SP10-1' nd Damages. Cardinal's liability and cli-	ont's exclusive remedy for any	G 1	X I I	r tort, shall be limited to the	6/6/24	client for the	×	×	×		
BILL	including those for negligence and any other cause whatsoe shall Cardinal be liable for incidental or consequental damages ins arising out of or related to the performance of services he	cause whatsoever shall be dee quental damages, including wi of services hereunder by Caro	ned nal.	ss made in writing and isiness interruptions, lo f whether such claim is	led by use_o	hin 30 days after comp Its incurred by client, its above stated reasons o		able				
Relinquished By:	11 CM	Date:7-24	Received By:		110	11	Phone Result: Fax Result:		Yes	No No	Add'l Phone #: Add'l Fax #:	
Retrictuished BV:	Mall Para	Time: 325	Received By	BVIIIALA	Wilda	A AN	REMAR			2		
1	(Time:				(Enidi results to.	SUITS IC		pans@jo	gboans@jdmii.com	
Delivered By: (Circle One) Sampler - UPS - Bus - Other	(Circle One) Bus - Other:	200	4/40	Sample Condition Cool Intact Yes HYes	0	CHECKED BY: (Initials)						

Released to Imaging: 9/25/2024 2:29:49 PM

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August 16, 2024

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: MARALO FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 08/09/24 16:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 1-4.5' (H244835-01)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 2-4.5' (H244835-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/13/2024	ND	432	108	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	102	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 3-4.5' (H244835-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	84.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 4-2' (H244835-04)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	81.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 5-2' (H244835-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 6-2' (H244835-06)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	93.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 7-2' (H244835-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	90.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 8-2' (H244835-08)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 9-1' (H244835-09)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	99.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 10-1' (H244835-10)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	125	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 11-1' (H244835-11)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	100	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 12-1' (H244835-12)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	93.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 13-1' (H244835-13)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	67.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	77.2	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 14-1' (H244835-14)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.1	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	91.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 15-1' (H244835-15)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	98.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 16-1' (H244835-16)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.98	99.2	2.00	0.853	
Toluene*	<0.050	0.050	08/13/2024	ND	1.94	96.8	2.00	1.43	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.06	103	2.00	1.47	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.07	101	6.00	1.43	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 17-1' (H244835-17)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	QM-07
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	105	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 18-1' (H244835-18)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	201	101	200	2.08	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	194	96.8	200	0.567	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	103	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 19-3' (H244835-19)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 20-3' (H244835-20)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	85.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	<i>99.7</i>	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 21-2' (H244835-21)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	126	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 22-2' (H244835-22)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	102	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 23-2' (H244835-23)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	103 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 \$	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 24-2' (H244835-24)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	110 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	134	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 25-1' (H244835-25)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	111 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	131	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 26-1' (H244835-26)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	102	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 27-4' (H244835-27)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	0.833	0.050	08/13/2024	ND	2.27	114	2.00	1.51	GC-NC1
Ethylbenzene*	1.11	0.050	08/13/2024	ND	2.44	122	2.00	2.18	GC-NC1
Total Xylenes*	22.5	0.150	08/13/2024	ND	7.19	120	6.00	1.80	GC-NC1
Total BTEX	24.5	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	158	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	603	10.0	08/14/2024	ND	228	114	200	0.244	
DRO >C10-C28*	375	10.0	08/14/2024	ND	215	108	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					
Surrogate: 1-Chlorooctane	141	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	127	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 28-4' (H244835-28)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	GC-NC
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	129	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	32.8	10.0	08/14/2024	ND	228	114	200	0.244	
DRO >C10-C28*	191	10.0	08/14/2024	ND	215	108	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	119 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 29-4' (H244835-29)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	0.532	0.050	08/13/2024	ND	2.44	122	2.00	2.18	GC-NC1
Total Xylenes*	5.77	0.150	08/13/2024	ND	7.19	120	6.00	1.80	GC-NC1
Total BTEX	6.30	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	163	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	303	10.0	08/14/2024	ND	228	114	200	0.244	
DRO >C10-C28*	420	10.0	08/14/2024	ND	215	108	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					
Surrogate: 1-Chlorooctane	136	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 30-4' (H244835-30)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	0.214	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	130	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	35.0	10.0	08/14/2024	ND	228	114	200	0.244	
DRO >C10-C28*	285	10.0	08/14/2024	ND	215	108	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 31-4' (H244835-31)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	GC-NC
Ethylbenzene*	0.362	0.050	08/13/2024	ND	2.44	122	2.00	2.18	GC-NC1
Total Xylenes*	1.81	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	2.17	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	177	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	96.5	10.0	08/14/2024	ND	228	114	200	0.244	
DRO >C10-C28*	128	10.0	08/14/2024	ND	215	108	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 32-4' (H244835-32)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	0.076	0.050	08/13/2024	ND	2.27	114	2.00	1.51	GC-NC1
Ethylbenzene*	0.201	0.050	08/13/2024	ND	2.44	122	2.00	2.18	GC-NC1
Total Xylenes*	2.45	0.150	08/13/2024	ND	7.19	120	6.00	1.80	GC-NC1
Total BTEX	2.73	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	168	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	73.6	10.0	08/14/2024	ND	228	114	200	0.244	
DRO >C10-C28*	128	10.0	08/14/2024	ND	215	108	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	100	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 33-4' (H244835-33)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	0.275	0.050	08/13/2024	ND	2.44	122	2.00	2.18	GC-NC1
Total Xylenes*	1.67	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	1.94	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	234 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	195	10.0	08/14/2024	ND	228	114	200	0.244	
DRO >C10-C28*	515	10.0	08/14/2024	ND	215	108	200	2.98	
EXT DRO >C28-C36	<10.0	10.0	08/14/2024	ND					
Surrogate: 1-Chlorooctane	121 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 1 (H244835-34)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	99.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 2 (H244835-35)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	107	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	128	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 3 (H244835-36)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.20	110	2.00	1.74	
Toluene*	<0.050	0.050	08/13/2024	ND	2.27	114	2.00	1.51	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.44	122	2.00	2.18	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.19	120	6.00	1.80	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	104 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 4 (H244835-37)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	QM-07
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	90.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 5 (H244835-38)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	231	115	200	0.186	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	218	109	200	2.01	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	115 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 6 (H244835-39)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	93.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 7 (H244835-40)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	112 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 8 (H244835-41)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	111 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 9 (H244835-42)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.8	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 10 (H244835-43)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 11 (H244835-44)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	114 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	6 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 12 (H244835-45)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	116 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 13 (H244835-46)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	88.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	103 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.7	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 14 (H244835-47)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	116 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 15 (H244835-48)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	86.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	97.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 16 (H244835-49)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	91.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.8	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 17 (H244835-50)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/13/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	92.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.4	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 18 (H244835-51)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	89.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	113 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 19 (H244835-52)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	87.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	106	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 20 (H244835-53)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	85.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	107 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	104 9	49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 21 (H244835-54)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	98.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 22 (H244835-55)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	95.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.5	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 23 (H244835-56)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.32	116	2.00	1.06	
Toluene*	<0.050	0.050	08/13/2024	ND	2.15	107	2.00	1.14	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.14	107	2.00	1.72	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.49	108	6.00	1.37	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.8	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	96.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 24 (H244835-57)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	96.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 25 (H244835-58)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	196	98.2	200	0.968	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	193	96.7	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	87.1	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.6	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 26 (H244835-59)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 27 (H244835-60)

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	89.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	103 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 28 (H244835-61)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.8	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 29 (H244835-62)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/14/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	92.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 30 (H244835-63)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	82.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 31 (H244835-64)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	114 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	80.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 32 (H244835-65)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	87.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 33 (H244835-66)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	82.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.6	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 34 (H244835-67)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.45	122	2.00	8.15	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	112	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: CT						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	89.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	101	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 35 (H244835-68)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	0.097	0.050	08/13/2024	ND	2.33	117	2.00	7.42	GC-NC1
Ethylbenzene*	0.238	0.050	08/13/2024	ND	2.45	122	2.00	8.15	GC-NC1
Total Xylenes*	4.52	0.150	08/13/2024	ND	7.53	126	6.00	8.33	GC-NC1
Total BTEX	4.86	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	238 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	295	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	405	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	151 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	96.7	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 36 (H244835-69)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	0.073	0.050	08/13/2024	ND	2.33	117	2.00	7.42	GC-NC1
Ethylbenzene*	0.234	0.050	08/13/2024	ND	2.45	122	2.00	8.15	GC-NC1
Total Xylenes*	3.49	0.150	08/13/2024	ND	7.53	126	6.00	8.33	GC-NC1
Total BTEX	3.80	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	232 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	216	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	257	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	141 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 9	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 37 (H244835-70)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	0.821	0.050	08/13/2024	ND	2.33	117	2.00	7.42	GC-NC1
Ethylbenzene*	0.923	0.050	08/13/2024	ND	2.45	122	2.00	8.15	GC-NC1
Total Xylenes*	15.6	0.150	08/13/2024	ND	7.53	126	6.00	8.33	GC-NC1
Total BTEX	17.4	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	336	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1280	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	753	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	289	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/09/2024	Sampling Date:	08/09/2024
Reported:	08/16/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: SW 38 (H244835-71)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	2.18	109	2.00	6.18	
Toluene*	<0.050	0.050	08/13/2024	ND	2.33	117	2.00	7.42	
Ethylbenzene*	0.069	0.050	08/13/2024	ND	2.45	122	2.00	8.15	GC-NC1
Total Xylenes*	0.289	0.150	08/13/2024	ND	7.53	126	6.00	8.33	
Total BTEX	0.358	0.300	08/13/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	143	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CT					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	08/13/2024	ND	432	108	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	21.4	10.0	08/13/2024	ND	199	99.5	200	1.70	
DRO >C10-C28*	28.0	10.0	08/13/2024	ND	198	99.1	200	0.269	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	86.5	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	97.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
A-01	CCV failed high biased. All samples ND, data not adversly affected.
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, F (575) 393-2326 FA Company Name: Hungry Horse LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Hungry Horse LLC	8240 2476	BILL TO		ANALYSIS R	Page 74
Project Manager: Daniel Dominguez	ominguez					
Address: 4024 Plains Hwy				Oil & Gas		
City: Lovington	State: NM	Zip: 88260	g B			
Phone #: 575 393-3386	Fax #:		22 1	Vista		
Project #:	Project Owner:	Murchison Oil & Gas	City: Carlsbad			
Project Name: Maralo Feder	Federal Com #1			30		
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Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

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

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Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2476

Project Manager: Company Name:

Daniel Dominguez Hungry Horse LLC

P.O. #:

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August 14, 2024

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: MARALO FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 08/12/24 16:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: TOPSOIL (H244858-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.99	99.6	2.00	1.73	
Toluene*	<0.050	0.050	08/13/2024	ND	2.01	100	2.00	0.260	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.07	104	2.00	0.847	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.12	102	6.00	1.08	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/13/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	232	116	200	0.185	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.393	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	67.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.4	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/12/2024	Sampling Date:	08/12/2024
Reported:	08/14/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: CALICHE (H244858-02)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/13/2024	ND	1.99	99.6	2.00	1.73	
Toluene*	<0.050	0.050	08/13/2024	ND	2.01	100	2.00	0.260	
Ethylbenzene*	<0.050	0.050	08/13/2024	ND	2.07	104	2.00	0.847	
Total Xylenes*	<0.150	0.150	08/13/2024	ND	6.12	102	6.00	1.08	
Total BTEX	<0.300	0.300	08/13/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/13/2024	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/13/2024	ND	232	116	200	0.185	
DRO >C10-C28*	<10.0	10.0	08/13/2024	ND	215	107	200	0.393	
EXT DRO >C28-C36	<10.0	10.0	08/13/2024	ND					
Surrogate: 1-Chlorooctane	70.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	80.9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

elivered By: ((elinquished By:/		invice. In no event shall Cardin filiates or such spors arising ou	EASE NOTE: Liability and Dialayses. All claims including th		(-	Lab I.D.	FUK DAS USE ONLY	Sampler Name:	Project Location:	Project Name:			V0	ess:	an	Company Name:
Delivered By: (Circle One)). O.C Time: Sampler - UPS - Bus - Other: 1. O.C Sample Condition CHECI Cool Intact (Initiant) (Initiant))	al be liable for incidental or consult of or related to the performance	mages. Cardinal's liability and cli		Caliche	Iopsoli	Sample I.D.		Jerry Heidelberg	-	lar		575 393-3386	n	4024 Plains Hwy		
C Time:	Date:	Time: 12/12/24	cause whatsoever shall be de squental darnages, including w of services hereunder by Car	ent's exclusive remedy for any				I.D.			7S - R27E	#1	Project Owner:	Fax #:	State: NM		Iez	14 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476 Hungry Horse LLC
	Received	Received	erned waived unless ithout limitation, busi final, regardless of v	claim arising wheth		C 1	C 1	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER					Murchison Oil & Gas		Zip: 8			8240 2476
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CHECKED BY: (Initials)			in 30 days after corr s incurred by client, bove stated reasons	the amount paid by the		8/12/24	8/12/24	OTHER : DATE	RV. SAMPLING		Phone #: 575 706-0667	Zip: 88230	Carlsbad	Address: 5325 Sierra Vista	gB	Murchison Oil & Gas	DIFFIC	
Email results to:	REMARK	Phone Result: Fax Result:	sub	a client for the		9:05	9:00	TIME	ING		7	30		/ista		Oil & Gas		
sults to			ble				-	Chloride										
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pm@hungry-horse.com gboans@jdmii.com	hr R	No Add'l Phone #:				×	×	BTEX 8021									ANALYSIS	
5		#:															SIS REQUEST	
											_		_					



August 29, 2024

DANIEL DOMINGUEZ Hungry Horse Environmental P.O. Box 1058 Hobbs, NM 88240

RE: MARALO FEDERAL COM #1

Enclosed are the results of analyses for samples received by the laboratory on 08/27/24 14:48.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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 accreditated through the State of Colorado Department of Public Health and Environment for:

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

Accreditation applies to public drinking water matrices.

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. Keine

Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 27 B - 5' (H245215-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	2.16	108	2.00	7.45	
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53	
Total BTEX	<0.300	0.300	08/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.7	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	68.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 28 B - 5' (H245215-02)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	2.16	108	2.00	7.45	
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53	
Total BTEX	<0.300	0.300	08/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/28/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	75.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.1	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 29 B - 5' (H245215-03)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	2.16	108	2.00	7.45	
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53	
Total BTEX	<0.300	0.300	08/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.6	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	89.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 30 B - 5' (H245215-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	2.16	108	2.00	7.45	
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53	
Total BTEX	<0.300	0.300	08/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2024	ND	448	112	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	89.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 31 B - 5' (H245215-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	2.16	108	2.00	7.45	
Toluene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.20	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	2.10	105	2.00	7.21	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	6.29	105	6.00	7.53	
Total BTEX	<0.300	0.300	08/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/28/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	80.3	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.8	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 32 B - 5' (H245215-06)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.91	95.4	2.00	3.78	
Toluene*	<0.050	0.050	08/28/2024	ND	1.86	92.8	2.00	0.931	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	1.87	93.4	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	5.55	92.4	6.00	1.53	
Total BTEX	<0.300	0.300	08/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	<i>98.3</i>	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	08/28/2024	ND	448	112	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	84.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

Hungry Horse Environmental DANIEL DOMINGUEZ P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/27/2024	Sampling Date:	08/27/2024
Reported:	08/29/2024	Sampling Type:	Soil
Project Name:	MARALO FEDERAL COM #1	Sampling Condition:	Cool & Intact
Project Number:	MURCHISON	Sample Received By:	Alyssa Parras
Project Location:	UL/L SEC 22 T17S - R27E		

Sample ID: FL 33 B - 5' (H245215-07)

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/28/2024	ND	1.91	95.4	2.00	3.78	
Toluene*	<0.050	0.050	08/28/2024	ND	1.86	92.8	2.00	0.931	
Ethylbenzene*	<0.050	0.050	08/28/2024	ND	1.87	93.4	2.00	1.33	
Total Xylenes*	<0.150	0.150	08/28/2024	ND	5.55	92.4	6.00	1.53	
Total BTEX	<0.300	0.300	08/28/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	97.9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/28/2024	ND	448	112	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/28/2024	ND	201	101	200	2.18	
DRO >C10-C28*	<10.0	10.0	08/28/2024	ND	194	97.0	200	1.93	
EXT DRO >C28-C36	<10.0	10.0	08/28/2024	ND					
Surrogate: 1-Chlorooctane	90.4	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.2	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CARDINAL

Released to Imag	ging: 9/25/2024	2:29:49	PM	

Received	by (OCD: 9	0/24/2024	7:18:18	AM
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Company Name:		C		BILL	10			ANAI VSIS DECITEST
Project Manager:		Z		P.O. #:		1	_	
Address: 4024	4024 Plains Hwy			ny	Murchison Oil & Gas			
City: Lovington		State: NM	Zip: 88260	ġ B	Ins	_		
Phone #: 575 3	575 393-3386	Fax #:			Sierra Vista			
Project #:		Project Owner:	er: Murchison Oil & Gas	City: Carlsbad		_		
Project Name: 1	Maralo Federal Com #1	#1		State: NM Zip:	p: 88230		_	
Project Location:	: UL/ L Sec 22 T17S - R27E	'S - R27E		Phone #: 575 7	575 706-0667	_		
Sampler Name:	Jerry Heidelberg						_	
FOR LAB USE ONLY			MATRIX		SAMPLING			
			RS TER					
Lab I.D.	Sample I.D.	I.D.	RAB OR ((CONTAINE) COUNDWA ASTEWATE	UDGE HER : ID/BASE: E / COOL HER :		loride	PH TEX 8021	
/ F	FL27b-5'		×	X	8/27/24 8:05	×	+	
2	FL28b-5'		C 1 X		1	×	+	
	FL29b-5'		C 1 X		1	×	+	
4 F	FL30b-5'		C 1 X			×	+	
CA FI	FL31b-5'		C 1 X			×	+	
6 F	FL32b-5'		C 1 X	/8 X 8/		×	+	
7 F	FL33b-5'		C 1 X	18 X 8/		×	\square	
							-	
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analyses. All claims including those for negligence and any oth service. In no event shall Cardinal be liable for incidental or con affliates or successors arising out of or related to the performan	ing those for negligence and any other c ardinal be liable for incidental or consec ing out of or related to the performance	ause whatsoever sha tuental damages, inc of services hereunde	waived unless ma limitation, busines frecardless of whet	see in contrast of tort, shall be limited to the amou de in writing and received by Cardinal within 30 day is interruptions, loss of use, or loss of provide incurre her such claim is bened snoo one of the office or unit	nt paid by the client for the s after completion of the app d by client, its subsidiaries,	licable		
Kelinquished By:	1 Cran		Received B		Phone Result: Fax Result:		The Yes	No Add'l Phone #: Add'l Fax #
Reinquished By:	Mart al Aville	Date:	Received By:	þ	REMARKS: Email result	ts		9 7
Delivered By: (Circle One)	_	Inne		dition CHECKED BY:	BY:		gboa	gboans@jdmii.com
Sampler - UPS - 8		1 4 000		-				

Attachment VII Lea Land, LLC Disposal Facility Waste Manifests

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

NON-I	HAZARDOUS WASTE MANIFEST	No. 206319	Trailer No. REY	/ES 09		
	Company Name: Murchison Oil& Gas Phone: 575706-0667	Address: 7250 Dal Plano, Te	1105 PKWY #1400 Xas 75024	Disposal Date: 07-25-2024 08:45 AM		
GENERATOR	Name Or Description Of Waste Shipped X RCRA Exempt RCRA Non-Exempt	-				
ENER	Weight (lbs): 27200, 35(180, 20	040	TEBUUD	0		
ט	Lease/Job Name: MARALO FED COM #001					
	Generator's Representative: GREG BOANS					
	Name: Hungry Horse					
rer	Emergency Contact: Vernon Black					
OR.	Emergency Contact Phone: (575) 631-225	3				
ISP	Transporter: Acknowledgment of Delive	ry of Material				
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):	GARIBA	n1			
	Signature (Firma):	<u>to</u> (1/	Date: 07-25-20	24 08:45 AM		
СІЦТҮ		arker 64, U.S. Hwy East Of Carlsbad, N		(575) 887-4048		
FA	Permit No: Comm NM-1-0035-New Mexico	ents:				
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Describ	ed Wastes Were De	livered To This Fa	ncility.		
DISI	Authorized Signature: MSANCA2	Unit No:		Г іте 08:45 АМ		
	X					

LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257



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

NON-I	HAZARDOUS WASTE MANIFEST		No. 206320	Trailer No. ASJ	BLUE
	Company Name: Murchison Oil& Gas Phone: 575706-0667		Address: 7250 Do Plano,TX	11as picwy 1400 75074	Disposal Date: 07-25-2024 08:53 AM
GENERATOR	Name Or Description Of Waste S	hipped: Non-Exemp	t		
GENER	Weight (lbs): 2500, 2404D)	TOSUS	JUD	
U	Lease/Job Name: MARLO FED COM #001				
	Generator's Representative: GREG BOANS	_			
	Name: Hungry Horse				
TER	Emergency Contact: Vernon Bla	ck			
OR	Emergency Contact Phone: (575)	631-2253			
4SP	Transporter: Acknowledgment o	f Delivery of	f Material		
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):	ution	eo TAN	ANGO	
	Signature (Firma): X			Date: 07-25-20	24 08:53 AM
СІГІТҮ	Lea Land, LLC		er 64, U.S. Hwy 6 Of Carlsbad, NN		(575) 887-4048
FA	Permit No: NM-1-0035-New Mexico	Comments	:		
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-	Described V	Vastes Were Deli	ivered To This Fi	acility.
DISI	Authorized Signature:		Unit No: IIA		Time 08:53 AM

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NON-I	HAZARDOUS WASTE MANIFEST	-	No. 206376	Trailer No. RE	EYES 09		
	Company Name: Murchison Oil & Gas Inc. Phone: (575) 706-0667		Address: 7250 Dallas Pkv Plano, TX 75024	•	Disposal Date: 07-26-2024 08:36 AM		
GENERATOR	Name Or Description Of Waste S	Shipped: Non-Exemp	t				
ENE	Weight (lbs): 30620, 3136(),	3168() TCQZ	550			
0	Lease/Job Name: MARLO: FED COM #001 API-30-01 Maraio	5-22958					
	Generator's Representative: Greg Boans						
~	Name: Hungry Horse						
ТЕН	Emergencý Contact: Vernon Bla	ack					
OR	Emergency Contact Phone: (575	i) 631-2253					
ISP	Transporter: Acknowledgment c	of Delivery of	ⁱ Material				
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico)	tide (son bald	4			
4	Signature (Firma): X	Aldor	v	, Date: 07-26-2	024 08:36 AM		
СІЦТҮ	Lea Land, LLC		er 64, U.S. Hwy 6 Of Carlsbad, NN		(575) 887-4048		
FA	Permit No: NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above	-Described V	Vastes Were Deli	ivered To This I	Facility.		
DISI	Authorized Signature:		Unit No: IIA	Date 07-26-2024	Time 08:36 AM		
	Ŏ						

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NON-I	HAZARDOUS WASTE MANIFEST	ſ	No. 206377	Trailer No. R	EYES 06	
	Company Name: Murchison Oil & Gas Inc. Phone: (575) 706-0667		Address: 7250 Dailas Pkv Plano, TX 75024	-	Disposal Date: 07-26-2024 08:36 AM	
GENERATOR	Name Or Description Of Waste S	Shipped: Non-Exemp	t			
ENE	Weight (lbs): 25780, HolfOl	87140) TC	79100	•	
U.	Lease/Job Name: MARLO FED COM #001			•		
	Generator's Representative: Greg Boans					
DRTER	Name: Hungry Horse Emergency Contact: Vernon Bla Emergency Contact Phone: (575					
TRANSPORTER	Transporter: Acknowledgment of Printed/Typed Name (Impreso/Mecanografico):	-	Garibald	Date: 07-26-2	024 08:36 AM	
сігіту	Lea Land, LLC	1	er 64, U.S. Hwy 6 Of Carlsbad, NM	-	(575) 887-4048	
FA	Permit No: Comments: NM-1-0035-New Mexico Image: Comment state of the state o					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above	-Described V	Vastes Were Deli	vered To This I	Facility.	
DISI	Authorized Signature: MSancha		Unit No: IIA	Date 07-26-2024	Time 08:36 AM	
	X					

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NON-	HAZARDOUS WASTE MANIFEST No. 206431 Trailer No. REYES 09				
	Company Name: Murchison Oil & Gas Inc. Phone: (575) 706-0667		Address: 7250 Dallas Pkv Plano, TX 75024	-	Disposal Date: 07-29-2024 08:30 AM
ATOR	Name Or Description Of Waste S	Shipped: Non-Exemp	t		<u> </u>
GENERATOR	Weight (Ibs): 55,60,35050 Lease/Job Name:		06 T	10766	0
	MARLO FED COM #001 API# 30-0 Generator's Representative: Greg Boans				
ORTER	Name: Hungry Horse Emergency Contact: Vernon Bla Emergency Contact Phone: (575				
TRANSPORTER	Transporter: Acknowledgment of Printed/Typed Name (Impreso/Mecanografico)	、 -	Material		
	Signature (Firma): X	tlgon		Date: 07-29-2	2024 08:30 AM
ACILITY	Lea Land, LLC		er 64, U.S. Hwy f Of Carlsbad, NN	•	(575) 887-4048
Ъ	Permit No: NM-1-0035-New Mexico	Comments	• •		
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above	-Described V	Vastes Were Deli	ivered To This	Facility.
ISIO	Authorized Signature:		Unit No: IIA	Date 07-29-2024	Time 08:30 AM
			D. LLC		

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NON-	I-HAZARDOUS WASTE MANIFEST No. 206432 Trailer No. REYES 06					
	Company Name: Murchison Oil & Gas Inc. Phone: (575) 706-0667	Address: 7250 Dallas Pkv Plano, TX 75024	-	Disposal Date: 07-29-2024 08:34 AM		
GENERATOR	Name Or Description Of Waste Shipped: X RCRA Exempt RCRA Non-Exempt	pt				
ENE	Weight (lbs): 26541,77140,2808	0 109	\$ 1760			
0	Lease/Job Name: MARLO FED COM #001 AP1# 30-015-22958					
	Generator's Representative: Greg Boans					
	Name: Hungry Horse					
TER	Emergency Contact: Vernon Black					
0 L N	Emergency Contact Phone: (575) 631-2253					
ISP	Transporter: Acknowledgment of Delivery of	of Material				
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico)yLeonardo					
•	Signature (Firma):		Date: 07-29-2	2024 08:34 AM		
СІЦТУ		ker 64, U.S. Hwy (t Of Carlsbad, NN	-	(575) 887-4048		
БA	Permit No: Comment NM-1-0035-New Mexico	s:				
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Apove-Described	Wastes Were Del	ivered To This	Facility.		
DISI	Authonized Signature: 1	Unit No: IIA	Date 07-29-2024	Time 08:34 AM		

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NON-HAZARDOUS WASTE MANIFEST			No. 206504	Trailer No. REYES 09	
	Company Name: Murchison Oil & Gas Inc. Phone: (575) 706-0667		Address: 7250 Dallas Pkv Plano, TX 75024	-	Disposal Date: 07-30-2024 08:48 AM
GENERATOR	Name Or Description Of Waste X RCRA Exempt RCRA	Shipped: Non-Exemp	t		· · · · · ·
CENEF	Weight (lbs):	1.9814	10, T	66338	0
	Lease/Job Name: MARALO FED COM #001 API 30-0	015-22958			
	Generator's Representative: Greg Boans				
~	Name: Hungry Horse	-			
TER	Emergency Contact: Vernon Bla	ack			:
OR	Emergency Contact Phone: (575	5) 631-2253			ĥ
İSP	Transporter: Acknowledgment (of Delivery of	' Material		
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):/	Aido G	200iGaldi		
Т	Signature (Firma):	rido cu		Date: 07-30-2	2024 08:48 AM
СІГІТҮ	Lea Land, LLC		er 64, U.S. Hwy 6 Of Carlsbad, NN		(575) 887-4048
FA	Permit No: NM-1-0035-New Mexico	Comments	:		
DISPOSAL	Disposal Facility's Certification: LHereby Certify That The Above	-Described V	Vastes Were Deli	ivered To This	Facility.
DIS	Authorized Signature:		Unit No: IIA	Date 07-30-2024	Time 08:48 AM

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NON-HAZARDOUS WASTE MANIFEST		No. 206505	Trailer No. REYES 06		
Company Name: Murchison Oil & Cas Inc.Address: 7250 Dallas Pkwy Plano, TX 75024Phone:(575) 706-0667		-	Disposal Date: 07-30-2024 08:51 AM		
Name Or Description Of Waste Shipped: Image: Structure Image					
GENEF	Weight (lbs): 23650, 24150 Lease/Job Name: MARALO FED COM #001 API 30-01		60	10 7212	C
Generator's Representative: Greg Boans					
TRANSPORTER	Name: Hungry Horse Emergency Contact: Vernon Black Emergency Contact Phone: (575) 631-2253 Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico); / Leanarda Garibard;				
	Signature (Firma): X / (LEONADO Date: 07-30-2024 08:51 AM			024 08:51 AM	
СІГІТҮ	Lea Land, LLC	Mile Marker 64, U.S. Hwy 62/180, 30 Miles East Of Carlsbad, NM			(575) 887-4048
MM-1-0035-New Mexico					
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.			acility.	
DISF	Authorized Signature:		Unit No: IIA	Date 07-30-2024	Time 08:51 AM· ·

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NON-HAZARDOUS WASTE MANIFEST		No. 206562	Trailer No. REYES 09			
	Company Name: Murchison Oil & Gas Inc. Phone: (575) 706-0667		Address: 7250 Dallas Pkwy Suite #1400 Plano, TX 75024		Disposal Date: 07-31-2024 08:38 AM	
RATOR	Name Or Description Of Waste Shipped:					
GENERATO	Weight (lbs): 27400,2765(2)	2778	0 TC8	2860		
U	Lease/Job Name: MARLO FED COM # 001 API# 30-01	15-22958				
	Generator's Representative: Greg Boans					
	Name: Hungry Horse					
rer	Emergency Contact: Vernon Black					
OR.	Emergency Contact Phone: (575) 631-2253					
ISP	Transporter: Acknowledgment of	f Delivery of	Material			
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico):	HIDO G	iari6aldí			
-	Signature (Firma): X Aldo & Date: 07-31-2024 08:38			024 08:38 AM		
СІГІТҮ	Lea Land, LLC		er 64, U.S. Hwy 6 Of Carlsbad, NN		(575) 887-4048	
FA	Permit No: Comments: NM-1-0035-New Mexico Comments:					
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Authorized Signature: Unit No: Date 07-31-2024				vered To This F	acility.	
DISI	Authorized Signature:		Unit No: IIA	Date 07-31-2024	Time 08:38 AM	

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NON-HAZARDOUS WASTE MANIFEST		No. 206564 Trailer No. REYES 06		YES 06	
	Company Name: Murchison Oil & Cas Inc. Phone: (575) 706-0667		Address: 7250 Dallas Pkwy Suite #1400 Plano, TX 75024		Disposal Date: 07-31-2024 08:41 AM
GENERATOR	Name Or Description Of Waste Shipped:				
ENE	Weight (lbs): 26020,2(0020)),26(18	- 50,	TO 790	190
0	C Lease/Job Name: MARLO FED COM # 001 API# 30-015-22958				
Generator's Representative: Greg Boans					
	Name: Hungry Horse				
rer	Emergency Contact: Vernon Black				
OR.	Emergency Contact Phone: (575) 631-2253				
ISP	C Transporter: Acknowledgment of Delivery of Material				
TRANSPORTER	Printed/Typed Name (Impreso/Mecanografico);/é	0000000	Gar: Gald		
-	Signature (Firma): X LEONARDO Date: 07-31-2024 08:41 A			24 08:41 AM	
СІЦТҮ	Lea Land, LLC		er 64, U.S. Hwy 6 Of Carlsbad, NN	-	(575) 887-4048
FA	Permit No: Comments: NM-1-0035-New Mexico Comments:				
Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Fi Authorized Signature: Unit No: Date			acility.		
DISI	Authorized Signature:		Unit No: IIA		Time 08:41 AM

LEA LAND, LLC 1300 WEST MAIN STREET • OKLAHOMA CITY, OK 73106 • PHONE (405) 236-4257



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

NON-HAZARDOUS WASTE MANIFEST		No. 206622 Trailer No. REYES 06		EYES 06		
	Company Name: Murchíson Oil & Cas Inc. Phone: (5 75) 706-0667		Address: 7250 Dallas Pkv Plano, TX 75024	-	Disposal Date: 08-01-2024 08:22 AM	
Name Or Description Of Waste Shipped: Image: CRA Exempt Image: CRA Exempt </td <td>:</td> <td></td>				:		
				580		
	Lease/Job Name: MARLO FED COM #001 API# 30-015-22958					
	Generator's Representative: Greg Boans					
	Name: Hungry Horse					
TER	Emergency Contact: Vernon Black					
0 K	Emergency Contact Phone: (575) 631-2253					
NSP	D Transporter: Acknowledgment of Delivery of Material					
RA	Emergency Contact: Vernon Black Emergency Contact Phone: (575) 631-2253 Transporter: Acknowledgment of Delivery of Material Printed/Typed Name (Impreso/Mecanografico): Leonardo Gar: Gald; Signature (Firma): X LEONARDO Date: 08-01-2024 08:22 AM					
L				2024 08:22 AM		
СІЦТҮ	Lea Land, LLC		er 64, U.S. Hwy 6 Of Carlsbad, NN	-	(575) 887-4048	
NM-1-0035-New Mexico						
DISPOSAL	Disposal Facility's Certification: I Hereby Certify That The Above-Described Wastes Were Delivered To This Facility.			Facility.		
DISI	Authorized Signature:	Unit No: IIA	Date 08-01 - 2024	Time 08:22 AM		

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

QUESTIONS

Action 386032

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	386032
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

QUESTIONS Droroguioitoo

Incident ID (n#)	nAPP2202451213
Incident Name	NAPP2202451213 MARALO FEDERAL COM #1 @ 30-015-22958
Incident Type	Oil Release
Incident Status	Deferral Request Received
Incident Well	[30-015-22958] MARALO FEDERAL COM #001

Location of Release Source

Please answer all the questions in this group.		
Site Name	MARALO FEDERAL COM #1	
Date Release Discovered	01/03/2022	
Surface Owner	Federal	

Incident Details

Please answer all the questions in this group.		
Incident Type	Oil Release	
Did this release result in a fire or is the result of a fire	No	
Did this release result in any injuries	No	
Has this release reached or does it have a reasonable probability of reaching a watercourse	No	
Has this release endangered or does it have a reasonable probability of endangering public health	No	
Has this release substantially damaged or will it substantially damage property or the environment	No	
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No	

Nature and Volume of Release

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission. Crude Oil Released (bbls) Details Not answered. Cause: Freeze | Other (Specify) | Produced Water | Released: 43 BBL | Recovered: 0 BBL | Produced Water Released (bbls) Details Lost: 43 BBL Is the concentration of chloride in the produced water >10,000 mg/l Yes Cause: Freeze | Other (Specify) | Condensate | Released: 53 BBL | Recovered: 0 BBL | Lost: Condensate Released (bbls) Details 53 BBI Natural Gas Vented (Mcf) Details Not answered. Natural Gas Flared (Mcf) Details Not answered. Other Released Details Not answered. Are there additional details for the questions above (i.e. any answer containing Load line valve froze and burst Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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QUESTIONS (continued)

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	386032
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	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes
Reasons why this would be considered a submission for a notification of a major release With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e.	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.

Initial	Response

The responsible party must undertake the following actions immediately unless they could create a s	afety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for releat the OCD does not relieve the operator of liability should their operations have failed to a	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface t does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 09/24/2024

Action 386032

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QUESTIONS (continued)

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	386032
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 26 and 50 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Between 1 and 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1 and 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Dense state and a second state of		
1 8	plan approval with this submission	Yes
Attach a comprehensive report de	monstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	al extents of contamination been fully delineated	Yes
Was this release entirely c	ontained within a lined containment area	No
Soil Contamination Sampling	: (Provide the highest observable value for each, in n	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	5300
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	8910
GRO+DRO	(EPA SW-846 Method 8015M)	8910
BTEX	(EPA SW-846 Method 8021B or 8260B)	310
Benzene	(EPA SW-846 Method 8021B or 8260B)	2.2
	NMAC unless the site characterization report includes complete	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
which includes the anticipated tin	nelines for beginning and completing the remediation.	
	nelines for beginning and completing the remediation. Ill the remediation commence	07/15/2024
On what estimated date wi		
On what estimated date wi On what date will (or did) th	II the remediation commence	07/15/2024
On what estimated date wi On what date will (or did) th On what date will (or was)	Il the remediation commence he final sampling or liner inspection occur	07/15/2024 08/27/2024
On what estimated date wi On what date will (or did) th On what date will (or was) What is the estimated surfa	II the remediation commence he final sampling or liner inspection occur the remediation complete(d)	07/15/2024 08/27/2024 08/27/2024
On what estimated date wi On what date will (or did) th On what date will (or was) What is the estimated surfate What is the estimated volue	III the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed	07/15/2024 08/27/2024 08/27/2024 5300
On what estimated date wi On what date will (or did) th On what date will (or was) What is the estimated surfa What is the estimated volum What is the estimated surfa	III the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed me (in cubic yards) that will be reclaimed	07/15/2024 08/27/2024 08/27/2024 5300 307

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

QUESTIONS, Page 3

Action 386032

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

QUESTIONS, Page 4

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Action 386032

QUESTIONS (continued)	
Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	386032
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Remediation Plan (continued)

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	No	
OR is the off-site disposal site, to be used, an NMED facility	No	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	No	
(In Situ) Soil Vapor Extraction	No	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No	
Ground Water Abatement pursuant to 19.15.30 NMAC	No	
OTHER (Non-listed remedial process)	No	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
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.		
I hereby agree and sign off to the above statement	Name: Cindy Cottrell Title: Regulatory Coordinator Email: ccottrell@jdmii.com Date: 09/24/2024	

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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QUESTIONS, Page 5

Action 386032

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QUESTIONS	(continued)	
QUESTIONS	(Continueu)	

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	386032
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

QUESTIONS

Deferral Requests Only		
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of	f the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	Yes	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Is the remaining contamination in areas immediately under or around production equipment where remediation could cause a major facility deconstruction	Yes	
Please list or describe the production equipment and how (re)moving the equipment would cause major facility deconstruction	The equipment on site includes a 210 bbl steel production tank, 210 bbl fiberglass water tank and production flowlines. Removal of this equipment to remediate will result in the well being shut in and a major facility deconstruction. Shutting the well in for an extended period could be detrimental to future production.	
What is the remaining surface area (in square feet) that will still need to be remediated if a deferral is granted	500	
What is the remaining volume (in cubic yards) that will still need to be remediated if a deferral is granted	100	
	iately under or around production equipment such as production tanks, wellheads and pipelines where n may be deferred with division written approval until the equipment is removed during other operations, or when	
Enter the facility ID (f#) on which this deferral should be granted	Not answered.	
Enter the well API (30-) on which this deferral should be granted	30-015-22958 MARALO FEDERAL COM #001	
Contamination does not cause an imminent risk to human health, the environment, or groundwater	True	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed ef which includes the anticipated timelines for beginning and completing the remediation.	fforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
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 requir 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 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.		
I hereby agree and sign off to the above statement	Name: Cindy Cottrell Title: Regulatory Coordinator	

Email: ccottrell@jdmii.com Date: 09/24/2024

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Plano, TX 75024

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386032

[C-141] Deferral Request C-141 (C-141-v-Deferral)

Action Type:

QUESTIONS, Page 6

Action 386032

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QUESTIONS (continued) OGRID: Murchison Oil and Gas, LLC 15363 7250 Dallas Parkway Action Number

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	376597
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/27/2024
What was the (estimated) number of samples that were to be gathered	7
What was the sampling surface area in square feet	160

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed. Requesting a remediation closure approval with this submission No

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CONDITIONS

Operator:	OGRID:
Murchison Oil and Gas, LLC	15363
7250 Dallas Parkway	Action Number:
Plano, TX 75024	386032
	Action Type:
	[C-141] Deferral Request C-141 (C-141-v-Deferral)

CONDITIONS

Create By	I Condition	Condition Date
bhall	Deferral request approved. The contamination that is still in place must be remediated when the tanks and associated piping is removed during other operations, or when the well or facility is plugged or abandoned, whichever comes first.	9/25/2024

CONDITIONS

Action 386032