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Final Closure Report

Grizzly Operating, LLC
CS Caylor #3 Flowline
Lea County, New Mexico
Unit Letter "H", Section 1, Township 17 South, Range 36 East
Latitude 32.86709 North, Longitude 103.301054 West
NMOCD Incident # NRM2022558133

Prepared For:

Grizzly Operating, LLC 4001 Penbrook, Suite 201 Odessa, TX 79762

Prepared By:

Hungry Horse, LLC 4024 Plains Hwy Lovington, NM 88260

November 2020

Lindsey Nevels
Project Manager

Sr. Project Manager

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HUNGRY HORSE, LLC

The following *Final Closure Report* serves as a condensed update on field activities undertaken at the afore referenced Site.

Background:

The site is located in Unit Letter H (SE/NE), Section 1, Township 17 South, Range 36 East, approximately 5.8 miles southeast of Lovington, in Lea County, New Mexico. The property is owned by the city of Lovington. 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 in a pasture area next to a lease road; latitude 32.86709 North, Longitude 103.301054 West. The Initial NMOCD Form C-141 indicated that on August 10, 2020, approximately 23 bbls of produced water was released with no produced water recovered. The release was attributed to the failure of a poly flowline. Previously submitted pages of the NMOCD Form C-141 are available on the NMOCD Imaging System. The Remediation and Closure pages of the NMOCD Form C-141 are included as Attachment V.

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 not located in a designated Karst area. Depth to groundwater information is provided as Attachment II and the results are depicted on Figures 1 & 2.

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	10,000 mg/kg
	TPH (GRO + DRO + MRO)	EPA SW-846 Method 8015M Ext	2,500 mg/kg
51' – 100'	DRO + GRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Methods 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Methods 8021B or 8260B	10 mg/kg

Delineation Activities:

On August 10, 2020, Hungry Horse, LLC conducted an initial site assessment. During the site assessment a series of test trenches were advanced within the release area in an effort to determine the vertical extent of impacted soil. In addition, test trenches were advanced at the inferred edges of the release area in an effort to determine the horizontal extent of impacted



soil. During the advancement of the test trenches, soil samples were collected and field screened for the presence of Volatile Organic Compounds utilizing a Photoionization Detector (PID). Chloride concentrations were determined via titration by use of a La Motte chloride kit.

On August 13, 2020, sixteen (16) delineation soil samples, SP1 through SP8, were submitted to the laboratory for analysis of BTEX, TPH, and Chloride. Two (2) soil samples from each test trench (highest observed contaminated and deepest depth investigated) were submitted for laboratory analysis. Laboratory analytical results indicated BTEX concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples. TPH concentrations were below the NMOCD Closure Criteria in each of the submitted samples with the exception of SP1 @ Surf, SP2 @ Surf, SP3 @ Surf, and SP4 @ Surf, which exhibited TPH concentrations of 488.1 mg/kg, 397 mg/kg, 764 mg/kg and 126 mg/kg, respectively. Chloride concentrations were below the NMOCD Closure Criteria in each of the submitted samples with the exception of the surface samples at sample locations SP1 through SP8.

On August 17, 2020, twelve (12) horizontal delineation samples, HZ1B through HZ6B, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Two (2) soil samples from each test trench (highest observed contaminated and deepest depth investigated) were submitted for laboratory analysis. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of HZ2B, HZ3B, HZ4B, and HZ5B, all at five (5) feet bgs. HZ2B, HZ3B, and HZ4B exhibited chloride concentrations of 2,940 mg/kg, 2,810 mg/kg, and 2,660 mg/kg, respectively. HZ5B exhibited a TPH concentration of 113 mg/kg.

On August 31, 2020, delineation sampling continued on site. Sample locations SP2, SP3, SP4, SP5, HZ2, HZ3, HZ4, and HZ5 were resampled in an effort to fully delineate the site. Four (4) delineation samples, SP2 through SP5, and eight (8) horizontal delineation samples, HZ2C through HZ5C, were sent to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples with the exception of HZ2C at five (5) feet bgs and HZ5C at five (5) feet bgs which exhibited TPH concentrations of 659 mg/kg and 444 mg/kg, respectively.

Remediation Activities:

On October 16, 2020, remediation activities commenced on location. In accordance with NMOCD guidelines, impacted soil was excavated to a depth of four and a half (4.5) feet bgs or until field observations and laboratory analytical data suggested BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria. Excavated soil was transported to an NMOCD approved disposal facility.



On October 22, 2020, delineation sampling continued on site. Sample locations SP8, HZ2, and HZ5, were resampled in an effort to fully delineate the site. One (1) delineation sample, SP8, and four (4) horizontal delineation samples, HZ2D and HZ5D, were sent to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted soil samples.

On October 28, 2020, after removal of impacted soil, composite confirmation soil samples, representing every 200 sq. ft., were collected from the excavation floor. Composite samples were also collected from the sidewalls of the excavation, each representing fifty (50) linear feet. Composite closure samples BH1 through BH43, and SW1 through SW12, were submitted to the laboratory for analysis of BTEX, TPH, and chloride. Fifty-five (55) composite samples were collected and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted samples with the exception of SW1 through SW4 which exhibited chloride concentrations of 666 mg/kg, 718 mg/kg, 696 mg/kg, and 678 mg/kg, respectively.

On November 6, 2020, remediation activities continued on site. The areas characterized by sample locations SW1 through SW4 were excavated and impacted soil transported to an NMOCD approved disposal facility.

On November 9, 2020, closure sampling continued on site. Four (4) composite closure samples, SW1b through SW4b, were collected from the excavation sidewalls and submitted to the laboratory for analysis of BTEX, TPH, and chloride. Laboratory analytical results indicated BTEX, TPH, and chloride concentrations were below the NMOCD Closure Criteria in each of the submitted samples.

A Delineation Sample Location Map and an Excavation Sample Location Map are provided as Figure 4 and Figure 5, and Field data is provided as Attachment III. A Summary of Soil Sample Laboratory Analytical Results is provided as Table 1 and Laboratory Analytical Reports are provided as Attachment IV.

The excavated area measured approximately 100 ft. in length, 86 ft. in width, and four and a half (4.5) feet in depth. During remediation activities approximately 2,300 cubic yards of impacted soil were hauled to an NMOCD approved disposal facility.

Restoration, Reclamation, and Re-Vegetation:

The area was then backfilled with clean, non-impacted, like material and brought back to at, or near, original relative positions. The affected area was contoured to achieve erosion control



and preserve surface water flow. Affected areas not on production areas will be reseeded with an approved seed mixture during the first favorable growing season following closure of the site.

Closure Request:

Remediation activities were conducted in accordance with applicable NMOCD Regulations. The impacted soil was excavated and transported to an NMOCD approved disposal facility. Laboratory analytical results from composite confirmation soil samples indicate concentrations of BTEX, TPH, and chloride are below the NMOCD Closure Criteria.

Based on laboratory analytical results and field activities conducted to date, Hungry Horse recommends Grizzly Operating, LLC provide copies of this *Final Closure Report* to the appropriate agencies and request closure be granted to the CS Caylor #3 Flowline leak.

Limitations:

Hungry Horse, LLC, has prepared this Final Closure Report 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.



Distribution:

Grizzly Operating, LLC 4001 Penbrook, Suite 201 Odessa, TX 79762

New Mexico Energy, Minerals and Natural Resources Department Oil Conservation Division, District 1 1625 N. French Drive Hobbs, NM 88240

Figures

Checked: Imn

Date:

8/11/20

Lea County

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Figure 2

OSE POD Locations Map Grizzly Energy CS Caylor #3 Flowline GPS: 32.86709, -103.301054 Lea County

Legend:

- CS Caylor #3 Flowline
- Active OSE Water Well
- Pending OSE Water Well

Drafted: lmn Checked: dd 8/11/20 Date:



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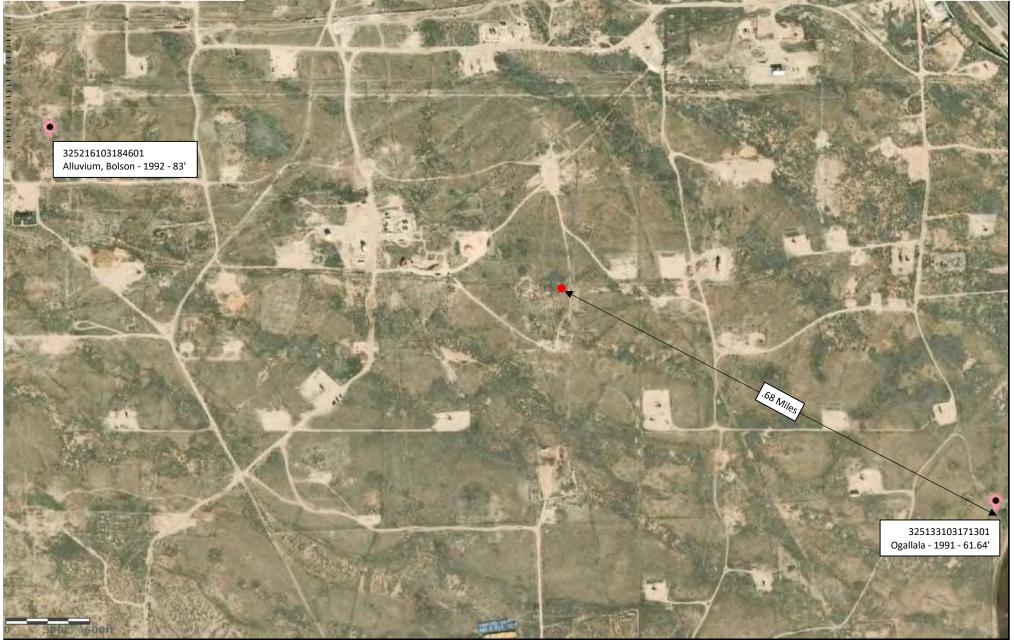


Figure 3

USGS Well Locations Map Grizzly Energy CS Caylor #3 Flowline GPS: 32.86709, -103.301054 Lea County

Legend:

CS Caylor #3 Flowline

USGS Well Location



Drafted: lmn Checked: dd

Date: 8/11/20

Tables

TABLE 1 Summary of Soil Sample Laboratory Analytical Results Grizzly Energy CS Caylor #3 Flowline

NMOCD Ref. #: nRM2022558133

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	8/13/20	Surf	Excavated	0.420	2.79	60.5	377	437.5	50.6	488.1	5,070
31 1	8/13/20	5	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	225
SP2	8/13/20	Surf	Excavated	0.535	3.90	<50.0	344	344	53	397	10,200
31 2	8/13/20	5	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,870
SP3	8/13/20	Surf	Excavated	0.170	0.298	<49.8	645	645	119	764	20,800
313	8/13/20	5	In Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	3,750
SP4	8/13/20	Surf	Excavated	0.604	1.70	<50.0	126	126	<50.0	126	6,930
31 4	8/13/20	5	In Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,240
SP5	8/13/20	Surf	Excavated	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	29,700
313	8/13/20	5	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	303
SP6	8/13/20	Surf	Excavated	<0.00198		<49.9	<49.9	<49.9	<49.9	<49.9	7,670
310	8/13/20	5	In Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	571
SP7	8/13/20	Surf	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	4,390
3, ,	8/13/20	5	In Situ	0.00257	0.00582	<49.9	<49.9	<49.9	<49.9	<49.9	68.1
SP8	8/13/20	Surf	Excavated	0.00205	0.0273	<49.8	<49.8	<49.8	<49.8	<49.8	21,100
310	8/13/20	5	In Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,550
HZ1B	8/17/20	Surf	In Situ	0.00395	0.00641	<50.0	<50.0	<50.0	<50.0	<50.0	168
11215	8/17/20	5	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	281
HZ2B	8/17/20	Surf	Excavated	0.00318	0.00318	<50.0	<50.0	<50.0	<50.0	<50.0	97.4
11225	8/17/20	5	In Situ	<0.00198	0.00219	<49.9	<49.9	<49.9	<49.9	<49.9	2,940
HZ3B	8/17/20	Surf	Excavated	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	21.7
11235	8/17/20	5	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	2,810
HZ4B	8/17/20	Surf	Excavated	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	87
11245	8/17/20	5	In Situ	<0.00199	<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,660
HZ5B	8/17/20	Surf	Excavated	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	323
11235	8/17/20	5	In Situ	<0.00198	<0.00198	<50.0	113	113	<50.0	113	106
HZ6B	8/17/20	Surf	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	300
11205	8/17/20	5	In Situ	0.00359	0.00359	<49.9	<49.9	<49.9	<49.9	<49.9	103
SP2	8/31/20	5.5	In Situ	ND	ND	ND	ND	ND	ND	ND	110
SP3	8/31/20	5.5	In Situ	ND	ND	ND	ND	ND	ND	ND	87
SP4	8/31/20	5.5	In Situ	ND	ND	ND	ND	ND	ND	ND	102
SP5	8/31/20	5.5	In Situ	ND	ND	ND	ND	ND	ND	ND	92.1
HZ2C	8/31/20	Surf	Excavated	ND	ND	ND	ND	ND	ND	ND	156.0
11220	8/31/20	5	In Situ	ND	ND	ND	263	263	396	659	ND
HZ3C	8/31/20	Surf	In Situ	ND	ND	ND	ND	ND	ND	ND	92.9
11250	8/31/20	5	In Situ	ND	ND	ND	ND	ND	ND	ND	ND
HZ4C	8/31/20	Surf	In Situ	ND	ND	ND	ND	ND	ND	ND	116
11270	8/31/20	5	In Situ	ND	ND	ND	ND	ND	ND	ND	ND
HZ5C	8/31/20	Surf	Excavated	ND	ND	ND	ND	ND	ND	ND	136
11250	8/31/20	5	In Situ	ND	ND	ND	157	222	222	444	ND
SP8	10/22/20	5.5	In Situ	<0.00200	<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	10.9
HZ2D	10/22/20	Surf	In Situ	<0.00201	<0.00201	<50.0	55.4	55.4	<50.0	55.4	11.0
11220	10/22/20	5	In Situ	<0.00201	<0.00201	<50.0	86.2	86.2	<50.0	86.2	12.5
LIZED	10/22/20	Surf	In Situ	<0.00198	<0.00198	<49.9	57.7	57.7	<49.9	57.7	12.0
HZ5D	10/22/20	5	In Situ	<0.00201	<0.00201	<50.0	52.5	52.5	<50.0	52.5	12.1
NMOCD C	losure Crite	ria		10	50	-	-	1,000	-	2,500	10,000

NOTES:

- = Sample not analyzed for that constituent.

Bold text denotes a concentration that exceeds the NMOCD Closure Criteria

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TABLE 1 Summary of Soil Sample Laboratory Analytical Results Grizzly Energy CS Caylor #3 Flowline

NMOCD Ref. #: nRM2022558133

i==========				CD Ref. #:							
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)
BH1	10/28/20	4.5	In Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,520
BH2	10/28/20	4.5	In Situ		<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	1,600
BH3	10/28/20	4.5	In Situ		<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,740
BH4	10/28/20	4.5	In Situ	<0.00202	<0.00202	<49.9	<49.9	<49.9	<49.9	<49.9	3,070
BH5	10/28/20	4.5	In Situ		<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	2,870
BH6	10/28/20	4.5	In Situ	<0.00201		<49.9	<49.9	<49.9	<49.9	<49.9	2,060
BH7	10/28/20	4.5	In Situ		<0.00202	<49.8	<49.8	<49.8	<49.8	<49.8	1,820
BH8	10/28/20	4.5	In Situ		<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	1,840
BH9	10/28/20	4.5	In Situ	<0.00200		<49.9	<49.9	<49.9	<49.9	<49.9	3,350
BH10	10/28/20	4.5	In Situ	<0.00200		<49.9	<49.9	<49.9	<49.9	<49.9	3,620
BH11	10/28/20	4.5	In Situ		<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	3,520
BH12	10/28/20	4.5	In Situ		<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	3,970
-									<u> </u>		
BH13 BH14	10/28/20	4.5	In Situ		<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	3,850
	10/28/20	4.5	In Situ		<0.00198	<49.8	<49.8	<49.8	<49.8	<49.8	3,080
BH15	10/28/20	4.5	In Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	3,010
BH16	10/28/20	4.5	In Situ	<0.00201		<50.0	<50.0	<50.0	<50.0	<50.0	2,730
BH17	10/28/20	4.5	In Situ		<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,790
BH18	10/28/20	4.5	In Situ		<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,830
BH19	10/28/20	4.5	In Situ		<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	3,210
BH20	10/28/20	4.5	In Situ	<0.00202		<49.8	<49.8	<49.8	<49.8	<49.8	2,960
BH21	10/28/20	4.5	In Situ	<0.00201		<50.0	<50.0	<50.0	<50.0	<50.0	3,290
BH22	10/28/20	4.5	In Situ		<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	2,280
BH23	10/28/20	4.5	In Situ		<0.00200	<49.8	<49.8	<49.8	<49.8	<49.8	1,960
BH24	10/28/20	4.5	In Situ		<0.00201	<50.0	<50.0	<50.0	<50.0	<50.0	2070
BH25	10/28/20	4.5	In Situ		<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2030
BH26	10/28/20	4.5	In Situ	<0.00199		<50.0	<50.0	<50.0	<50.0	<50.0	2450
BH27	10/28/20	4.5	In Situ	<0.00199		<49.9	<49.9	<49.9	<49.9	<49.9	1150
BH28	10/28/20	4.5	In Situ		<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	1,040
BH29	10/28/20	4.5	In Situ	<0.00201		<50.0	<50.0	<50.0	<50.0	<50.0	706
BH30	10/28/20	4.5	In Situ		<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	673
BH31	10/28/20	4.5	In Situ		<0.00198		<50.0	<50.0	<50.0		751
BH32	10/28/20	4.5	In Situ		<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	895
BH33	10/28/20	4.5	In Situ		<0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	819
BH34	10/28/20	4.5	In Situ		<0.00198	<49.9	<49.9	<49.9	<49.9	<49.9	664
BH35	10/28/20	4.5	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	763
BH36	10/28/20	4.5	In Situ		<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	1230
BH37	10/28/20	4.5	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1210
BH38	10/28/20	4.5	In Situ	<0.00199	<0.00199	<49.8	<49.8	<49.8	<49.8	<49.8	1,150
BH39	10/28/20	4.5	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	1,200
BH40	10/28/20	4.5	In Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	1,240
BH41	10/28/20	4.5	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	991
BH42	10/28/20	4.5	In Situ	<0.00198	<0.00198	<50.0	<50.0	<50.0	<50.0	<50.0	1,110
BH43	10/28/20	4.5	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	1,180
NMOCD (losure Crite	ria		10	50	-	-	1,000	-	2,500	10,000

NOTES:

^{- =} Sample not analyzed for that constituent.

TABLE 1 Summary of Soil Sample Laboratory Analytical Results Grizzly Energy CS Caylor #3 Flowline

NMOCD Ref. #: nRM2022558133

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)
SW1	10/28/20	2	Excavated	0.00203	0.0107	<49.8	<49.8	<49.8	<49.8	<49.8	666
SW2	10/28/20	2	Excavated	0.00217	0.00812	<50.0	<50.0	<50.0	<50.0	<50.0	718
SW3	10/28/20	2	Excavated	0.00272	0.0150	<49.9	<49.9	<49.9	<49.9	<49.9	696
SW4	10/28/20	2	Excavated	<0.00202	0.00931	<49.9	<49.9	<49.9	<49.9	<49.9	678
SW5	10/28/20	2	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	333
SW6	10/28/20	2	In Situ	<0.00202	<0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	343
SW7	10/28/20	2	In Situ	<0.00201	<0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	280
SW8	10/28/20	2	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	376
SW9	10/28/20	2	In Situ	<0.00201	<0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	337
SW10	10/28/20	2	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	325
SW11	10/28/20	2	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	403
SW12	10/28/20	2	In Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	331
SW1b	11/9/20	2	In Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	7.05
SW2b	11/9/20	2	In Situ	<0.00199	<0.00199	<50.0	<50.0	<50.0	<50.0	<50.0	<5.03
SW3b	11/9/20	2	In Situ	<0.00200	<0.00200	<49.9	<49.9	<49.9	<49.9	<49.9	<4.96
SW4b	11/9/20	2	In Situ	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
NMOCD Closure Criteria			10	50	-	-	1,000	-	2,500	10,000	

Attachment I Site Photographs

Photo:

Direction: Northeast

Description:

Release area



Photo:

Direction:

East

Description:

Release area



Photo:
3
Direction:
Northeast
Description:
Release area



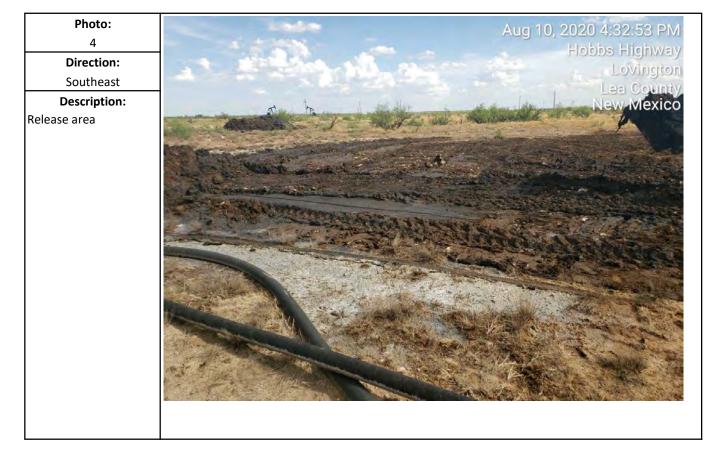


Photo:

5

Direction:

East

Description:

Excavation activities



Photo:

6

Direction:

Southeast

Description:

Excavation activities

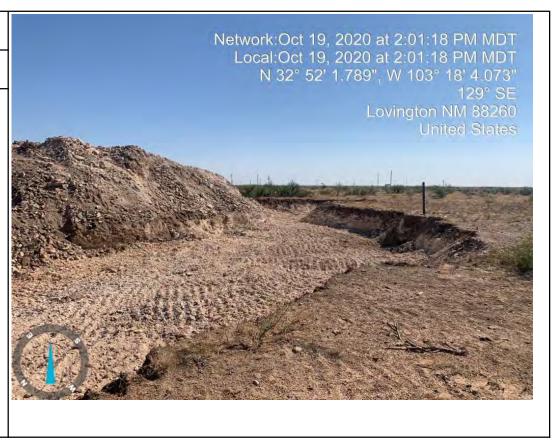


Photo:
7
Direction:
Northwest
Description:

Excavation activities



Photo:

Direction:West

Description: Excavation activities



Photo:

9

Direction: West

Description:

Excavation activities



Photo:

10

Direction: Southwest

Description:

Backfilling excavation



Photo:

11

Direction:Southwest

Description:Backfilling excavation

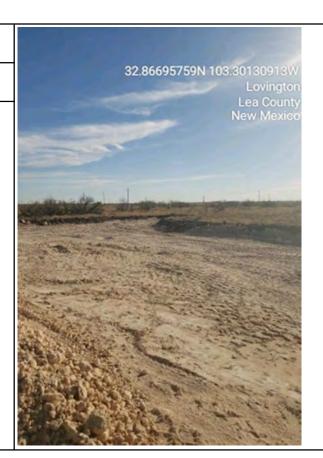


Photo:

12

Direction:Northeast

Description:Backfilling excavation

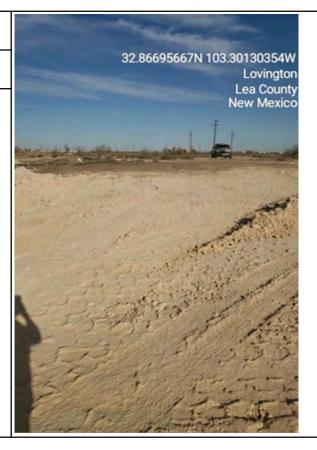


Photo:

Direction:East

Description: Backfill complete



Photo:

Direction:

West

Description:Backfill complete



Photo: 15

Direction: Southwest

Description: Backfill complete



Photo:

Direction:

South

Description:Backfill complete



Attachment II Depth to Groundwater Information

Received by OCD: 11/11/2020 3:07:44 PM Page 28 of 362



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

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is

O=orphaned,
C=the file is (quarters are 1=NW 2=NE 3=SW 4=SE)
closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

me.)	cioseu)		(4	uarters e	310 3111	allest to larges	(14)	ADOS O HVI III III	21013)		(11116	Ct)	
	POI											.	
POD Number	Sub Code basi		Source	q q q		Twe Pna	Х	Υ	Distance Start Date	Log File Finish Date Date	•	Depth Water Driller	License Number
L 12562 POD11	L	LE				17S 36E	658989	3637831	33 05/20/2010	05/20/2010 06/08/2010	112	97 BRYAN NYDOSKE	1210
<u>L 02508</u>	L	LE	Shallow	2 2 2	01	17S 36E	659013	3638194*	366 11/17/1954	11/20/1954 11/26/1954	120	40 TATUM, CLAUDE E.	33
<u>L 10633</u>	R L	LE	Shallow	4	13	17S 36E	659026	3637389*	448 04/17/2001	04/19/2001 07/16/2001	209	80 KEN MARSH	586
L 14207 POD1	L	LE	Shallow	3 3 2	01	17S 36E	658500	3637679 🌍	480 10/07/2016	10/12/2016 12/12/2016	240	100 WHITE, JOHN W	1456
<u>L 04988</u>	L	LE	Shallow	1 2	01	17S 36E	658510	3638089*	514 01/02/1963	01/03/1963 01/10/1963	195	55 MURRELL ABBOTT	46
L 12562 POD4	L	LE	Shallow	4 4 2	36	16S 36E	658584	3638296 🌍	594 05/24/2010	05/24/2010 06/08/2010	121	106 BRYAN NYDOSKE	1210
L 02561	L	LE	Shallow	3 3 3	31	16S 37E	659210	3638403*	625 03/02/1954	03/03/1954 03/30/1954	137	50	46
<u>L 10633 S</u>	R L	LE	Shallow	4	13	17S 36E	659026	3637189*	646 04/20/2001	04/25/2001 07/16/2001	228	120 KEN MARSH	586
<u>L 02474</u>	L	LE	Shallow	1 3	06	17S 37E	659331	3637296*	654 01/13/1954	01/14/1954 03/02/1954	100	40	33
<u>L 01371</u>	L	LE	Shallow	4 3 4	36	16S 36E	658603	3638389*	659 02/22/1952	02/23/1952 02/25/1952	115	45 ABBOTT, CLYDE	46
L 14207 POD2	L	LE	Shallow	2 4 1	01	17S 36E	658222	3637712	743 10/05/2016	10/12/2016 12/12/2016	230	101 WHITE, JOHN W	1456
L 01220 POD1	L	LE	Shallow	3 3	31	16S 37E	659311	3638504*	760 09/17/1951	09/18/1951 09/28/1951	120	55 ABBOTT BROTHERS	
L 01438	L	LE	Shallow	3 4	36	16S 36E	658504	3638490*	798 05/05/1952	05/06/1952 05/20/1952	110	45	46
L 13332 POD1	L	LE	Shallow	1 3 3	36	16S 37E	659161	3638638 🌍	832 06/18/2013	06/21/2013 08/05/2013	106	102 SHANE CURRIE	1575
L 10633 POD5	L	LE	Shallow	2 4 4	01	17S 36E	659032	3636987 🌍	848 04/20/2001	04/25/2001 07/16/2001	228	120 KEN MARSH	586
L 10633 S2	R L	LE	Shallow	4	13	17S 36E	659032	3636987*	848 04/26/2001	04/30/2001 07/16/2001	196	80 KEN MARSH	586

*UTM location was derived from PLSS - see Help

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right

file.)

(R=POD has been replaced, O=orphaned,

C=the file is

(quarters are 1=NW 2=NE 3=SW 4=SE)

closed) (quarters are smallest to largest)

(NAD83 UTM in meters)

(in feet)

	POD													
	Sub-			qqq							Log File	Depth	Depth	License
POD Number	Code basin	County	Source	6416 4	Sec	Tws Rng	Х	Y	Distance Start Date	Finish Date	e Date	Well	Water Driller	Number
L 10633 S4	L	LE	Shallow	2 4 4	01	17S 36E	659032	3636987 🌍	848 06/24/2004	07/05/2004	07/12/2004	204	110	1498
L 10633 POD4	L	LE	Shallow	1 4 4	01	17S 36E	658832	3636987	853 04/17/2001	04/19/2001	07/16/2001	209	80 KEN MARSH	586

Record Count: 18

UTMNAD83 Radius Search (in meters):

Easting (X): 658955.62 Northing (Y): 3637831.92 Radius: 880

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Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number

Q64 Q16 Q4 Sec Tws Rng

L 02508

2 2 01 17S 36E

659013 3638194*

Source:

. •

Driller License: 33

Driller Company:

TATUM CLAUDE E.

Driller Name: TATUM, CLAUDE E.

Drill Start Date: 11/17/1954

Drill Finish Date:

Depth Well:

11/20/1954

Plug Date:

Shallow

Log File Date:

11/26/1954

PCW Rcv Date:

08/15/1955

Estimated Yield: 115 GPM

Pump Type: Casing Size: TURBIN 7.00 Pipe Discharge Size:

120 feet

.....

Depth Water:

40 feet

Water Bearing Stratifications:

Top Bottom Description40 120 Sandstone/G

120 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

60 120

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8/4/20 2:50 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q

Q64 Q16 Q4 Sec Tws Rng 1 2 01 178 36E

658510 3638089*

6

Driller License: 46 Driller Company: ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

L 04988

Log File Date: 01/10/1963 PCW Rcv Date: 08/14/1963 Shallow Source: **Pump Type:** TURBIN Pipe Discharge Size: 5 185 GPM **Estimated Yield: Casing Size:** 9.63 Depth Well: 195 feet Depth Water: 55 feet

Water Bearing Stratifications: Top Bottom Description

55 170 Other/Unknown

Casing Perforations: Top Bottom

55 190

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8/4/20 12:06 PM

POINT OF DIVERSION SUMMARY

^{*}UTM location was derived from PLSS - see Help



Water Right Summary

get image list

WR File Number: L 05456 Subbasin: L Cross Reference: -

MUN MUNICIPAL - CITY OR COUNTY SUPPLIED WATER **Primary Purpose:**

Primary Status: WDP

> Subfile: **Total Acres:** Header: -

Total Diversion: Cause/Case: -

> CITY OF LOVINGTON Owner: MERLE KINDEL Contact:

Documents on File

Status From/ Transaction Desc. **Diversion Consumptive** Trn# Doc File/Act 2 To Acres

APPRO 1965-05-14 WDP WDR L 05456 T

Current Points of Diversion

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng Other Location Desc

L 05456 2 2 01 17S 36E 658914 3638095*

An () after northing value indicates UTM location was derived from PLSS - see Help

Priority Summary

Priority Status Acres Diversion Pod Number 08/14/1964 WTD 0 L 05456

Place of Use

256 64 Q16 Q4Sec Tws Rng Diversion CU Use Priority **Status Other Location Desc** Acres WDP WITHIN THE CORPORATE 2 2 01 17S 36E MUN 08/14/1964 LIMITS OF THE CITY OF

LOVINGTON

Source

Acres Diversion Use Priority Source Description MUN 08/14/1964 GW

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8/4/20 2:45 PM WATER RIGHT SUMMARY



Water Right Summary

get image list

WR File Number: L 12562 Subbasin: L Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: NAVAJO REFINING COMPANY

Contact: STEVE TERRY
Owner: LEA REFINERY
Contact: STEVE TERRY

Documents on File

 Status
 From/

 Trn #
 Doc
 File/Act
 1
 2
 Transaction Desc.
 To
 Acres
 Diversion
 Consumptive

 ■ get 485041 EXPL 2010-05-19
 PMT LOG PODS 1-15
 T
 0
 0

Current Points of Diversion

(NAD83 UTM in meters)

			Q									
POD Number	Well Tag	Source		_	-		Tws	- 0	X	Y		Other Location Desc
<u>L 12562 POD1</u>		Shallow	2	2	4	36	16S	36E	658908	3639001	100	WW 18
L 12562 POD10		Shallow	2	2	4	36	16S	36E	659032	3638913	100	MW 19
L 12562 POD11		Shallow	2	4	2	01	17S	36E	658989	3637831	п	MW 20
L 12562 POD12		Shallow	3	1	3	31	16S	37E	659166	3638783	ш	MW 21
L 12562 POD13		Shallow	2	4	2	36	16S	36E	658956	3639405	ш	MW 28
L 12562 POD14		Shallow		2	2	36	16S	36E	658677	3639136	п	MW 17
L 12562 POD15		Shallow	4	1	2	36	16S	36E	658634	3639529	п	MW 15
L 12562 POD2		Shallow	2	2	3	36	16S	36E	659065	3638963	п	MW 23
<u>L 12562 POD3</u>		Shallow	3	1	3	31	16S	37E	659316	3638878	ю	MW 22
L 12562 POD4		Shallow	4	4	2	36	16S	36E	658584	3638296	ю	MW 16
<u>L 12562 POD5</u>		Shallow	3	3	1	31	16S	37E	659252	3639117	ю	MW 24
<u>L 12562 POD6</u>		Shallow	4	4	2	36	16S	36E	659001	3639212	ю	WW 26
<u>L 12562 POD7</u>		Shallow	4	4	2	36	16S	36E	658912	3639266	ю	MW 27
<u>L 12562 POD8</u>		Shallow	2	2	4	36	16S	36E	658992	3639097	ю	MW 25
L 12562 POD9		Shallow	1	4	4	25	17S	36E	658980	3630480	ю	MW 29

Source

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8/4/20 2:43 PM WATER RIGHT SUMMARY



Water Right Summary

get image list

WR File Number: L 12881 Subbasin: L Cross Reference: -

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: MATT HUDSON, PM CHEVRON ENVRNMNTL MNGMNT CO.
Contact: JOHN SCHNABLE, PM CONESTOGA-ROLVERS & ASSOC.,INC

Documents on File

 Status
 From/

 Trn #
 Doc
 File/Act
 1
 2
 Transaction Desc.
 To
 Acres
 Diversion
 Consumptive

 ■ get 488123
 EXPL 2011-10-27
 PMT LOG L12881 PODS1-4
 T
 0
 0

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	64 C	Q16	Q4	Sec	Tws	Rng	X	Y		Other Location Desc
<u>L 12881 POD1</u>		Shallow	2	3	2	01	17S	36E	658291	3648926	100	
<u>L 12881 POD2</u>			4	1	2	01	17S	36E	658503	3637981	ш	
<u>L 12881 POD3</u>			4	1	2	01	17S	36E	658612	3638016	ш	
<u>L 12881 POD4</u>			4	1	2	01	17S	36E	658640	3637921	ю	

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8/4/20 12:07 PM WATER RIGHT SUMMARY



Water Right Summary

WR File Number: L 14207 Subbasin: L Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: CHEVRON MIDCONTINENT LP

Contact: SCOTT FOORD

Documents on File

				Sta	tus		From/			
	Trn#	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
get images	629010	EXPL	2018-07-20	PMT	APR	L 14207 POD5-7	T	0	0	
get images	629009	EXPL	2018-07-19	PMT	PRC	L 14207 POD8	T	0	0	
get images		EXPL	2018-07-19	PMT	PRC	L 14207 POD4	T	0	0	
get images		EXPL	2016-09-30	PMT	LOG	L-14207 POD1-3	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

			(TVIDOS CTIVI III IIICCEIS)									
POD Number L 14207 POD1	Well Tag	Source Shallow	Q 64 3					Rng 36E	X 658500	Y 3637679	Other Location Desc MW-1 LPU-59	
<u>L 14207 POD2</u>		Shallow	2	4	1	01	17S	36E	658222	3637712	LPU-60	
<u>L 14207 POD3</u>		Shallow	2	3	3	31	16S	37E	606117	3636977	LPU-96	
<u>L 14207 POD4</u>	NA		4	4	1	01	17S	36E	658239	3637687	MW-2 (LPU-60)	
<u>L 14207 POD5</u>	NA			2	2	01	17S	36E	658596	3638048	MW-14 (WATER PLANT)	
<u>L 14207 POD6</u>	NA			1	2	01	17S	36E	658624	3637936	MW-15 (WATER PLANT)	
<u>L 14207 POD7</u>	NA			2	2	01	17S	36E	658438	3638022	MW-16 (WATER PLANT)	
<u>L 14207 POD8</u>	NA		4	3	2	01	17S	36E	658527	3637655)	

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8/4/20 12:07 PM WATER RIGHT SUMMARY



Water Right Summary

WR File Number: L 14263 Subbasin: L Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: CHEVRON MIDCONTINENT LP

Contact: SCOTT FOORD

Documents on File

				Sta	itus		From/			
	Trn#	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
get images	606341	EXPL	2017-04-25	PMT	LOG	L 14263 POD6-7	T	0	0	
						L 14263 POD1-5	T	0	0	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	6Q4	Sec	Tws	Rng	`	X	Y	Other Location Desc
L 14263 POD1		Shallow	4	4	4	01	17S	36E	65894	4 .	3636867 [MW-9
<u>L 14263 POD2</u>		Shallow	4	4	4	01	17S	36E	65894	4	3636867 [MW-10
<u>L 14263 POD3</u>		Shallow	4	4	4	01	17S	36E	65891	4	3638715 🧯	MW-11
L 14263 POD4		Shallow	4	4	4	01	17S	36E	65894	4	3636867	RW-1
L 14263 POD5			3	2	2	01	17S	36E	65872	0 .	3637922 [MW-13
<u>L 14263 POD6</u>		Shallow	4	4	4	01	17S	36E	65894	4 .	3636867 [MW-C-R
<u>L 14263 POD7</u>		Shallow	3	4	4	01	17S	36E	65878	35	3636874	MW-O-R

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8/4/20 12:09 PM WATER RIGHT SUMMARY



USGS Home **Contact USGS** Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area:

United States ✓ GO

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- Introducing The Next Generation of USGS Water Data for the Nation
 Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs

site_no list =

• 325133103171301

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325133103171301 17S.37E.06.411331

Lea County, New Mexico Latitude 32°51'45", Longitude 103°17'25" NAD27 Land-surface elevation 3,806.00 feet above NGVD29

The depth of the well is 100 feet below land surface.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1961-02-02		D	38.46			2		U		
1966-02-25		D	39.36			2		U		
1971-02-09		D	52.04			2		U		
1976-02-25		D	54.17			2		U		
1981-01-07		D	57.89			2		U		
1986-01-29		D	59.73			2		U		
1991-01-31		D	61.64			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

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Title: Groundwater for USA: Water Levels URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-08-13 16:06:18 EDT

0.28 0.26 nadww01

USA.gov



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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area:

United States ✓ GO

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- Introducing The Next Generation of USGS Water Data for the Nation
 Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 325141103185001

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325141103185001 17S.36E.02.244233

Lea County, New Mexico Latitude 32°51'55", Longitude 103°19'01" NAD27 Land-surface elevation 3,832.00 feet above NGVD29 The depth of the well is 150 feet below land surface.

This well is completed in the Ogallala Formation (1210GLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1961-03-29		D	43.75			2		U		
1966-02-21		D	45.84			2		U		
1971-02-10		D	49.63			2		U		
1976-02-25		D	52.10			2		U		
1981-01-13		D	58.13			2		U		
1986-01-14		D	62.96			2		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site

<u>Automated retrievals</u> <u>Help</u> Data Tips
Explanation of terms
Subscribe for system changes <u>News</u>

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-08-04 16:53:03 EDT 0.3 0.27 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area:

V United States y GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs site_no list =

• 325216103184601

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325216103184601 17S.36E.01.1120

Lea County, New Mexico Latitude 32°52'13", Longitude 103°18'46" NAD27

Land-surface elevation 3,836 feet above NGVD29

The depth of the well is 232 feet below land surface.

The depth of the hole is 232 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurem
1992-05-01	Į.	D	83			0		U		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	0	Water level accuracy to nearest foot
Status		The reported water-level measurement represents a static level
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	Α	Approved for publication Processing and review completed.

Questions about sites/data? Feedback on this web site Automated retrievals Help Data Tips **Explanation of terms** Subscribe for system changes **News**

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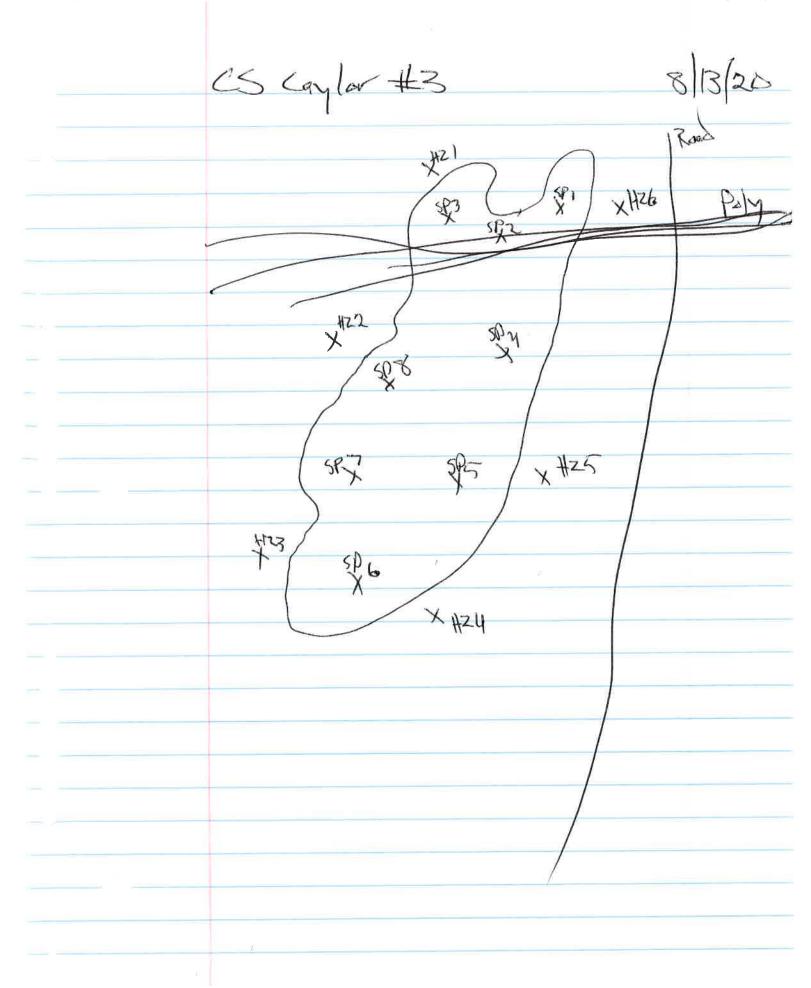
<u>U.S. Department of the Interior | U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels**

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2020-08-04 16:51:21 EDT 0.3 0.28 nadww01



Attachment III Field Data



 	<u>(a</u>		8-13-20
SPI SAF	_		
2'	80×20	1600	
4	148×20	2960	
5'	100×20	2000	
SPZ Suf			
2'	144 x20	2880	
6/	92 x 20	1840	
5'	92 x20	1840	
SP3 Suif	_		
2'	100 220	2000	
4	136 ×20	2720	
5'	124 x20	2480	
SPU surf			
2'	96 X20	1920	
4'	92 x20	1840	
5	72 x20	1440	
SPS surf			
2'	128×20	2560	
4'	96 X20	1920	
51	72 x20	1440	
SP6 Surf			
2'	40 KZV	800	
4'	48 x20	960	
5'	34 820	680	
SP7 Surf		4.30 - 2.3	
2'	104×20	2080	
 4	44 ×20	880	
5	60 × 20	(200	

			8-13 3-
0			8-13-20
SP8 Suff			
21	128 x 20	2560	
 4'	104 x20	2080	
5-1	84 220	1680	
			8-17-20
HZ1 Surf	200×20	4000	
2	144 x 20	2880	
q' 5-1	136 820	2720	
5	156 x20	3120	
HZ2 SVIF	40 x 20	800	
2'	36 ×20	720	
4'	120 ×20	2400	
5.6	108 x20	2160	
HZ3 Surf	16 X20	320	
2'	48 ×20	960	
 4 '	20 x20	400	
51	20 x 20	400	
HZ4 Suf	180 ×20	3600	
2'	20×20	400	
4'	20 × 20	400	
5	28 x20	560	
HZ5 Surf	200 × 20	4000	
2	16 x 20	320	
4'	36 x 20	720	
<u> </u>	36 x20	720	

	8-17-20
HZ6 Surf 32 x20 640	
2' 36 × 20 720	
4' 24 x20 480	
5' 20 x20 400	
 H216 Suf 16 x20 320	8-17-20
5' 20 x20 400	
HZ25 Suf 28 x20 \$560	
5' (6×20 320	
H236 suf 12x20 240 5 24x20 480	
 5 24×20 480	
 H246 Sorf 12x20 240	
 5' 12×20 240	
H256 Surf 12x20 240 5' 28x20 560	
 5' 28 x 20 5 60	
 HZ66 Sorf 12x20 20	
5' 20 x 20 400	

8/31/	20
1	

$$HZ2-COSMF 20 \times 20 = 240$$

 $HZ2-COS' 12 \times 20 = 240$

Attachment IV Laboratory Analytical Reports





















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Atlanta, GA (770) 449-8800

Work Order No: WOOSH

Revised Date 05012020 Rev. 2020.1	o					٥
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ле) / Received by (Signature) Date/Time	Relinquished by: (Signature)	Date/Time	nature)	Received by: (Signature)	y: (Signature)	Relinquished by: (Signature)
unless previously negotiated.	of Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	bmitted to Xenco, but not	e of \$5 for each sample su	ied to each project and a charg	harge of \$85.00 will be appl	of Xenco. A minimum c
rs. It assigns standard terms and conditions are due to circumstances beyond the control	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances havond the control	lient company to Xenco, it osses or expenses incurre	alid purchase order from c any responsibility for any	nent of samples constitutes a v samples and shall not assume	document and relinquishn e liable only for the cost of	of service. Xenco will b
Mo Ni Se Ag Ti U Hg: 1631 / 245.1 / 7470 / 7471	àd Cr Co Cu Pb Mn Mo Ni	N Sb As Ba Be Cd Cr Co	ICLP / SPLP 6010: 8RCRA	analyzed ICLP /	Circle Metriod(s) and Metal(s) to be analyzed	Circle Method
Pb Mg Mn Mo Ni K Se Ag SiO ₂ Na Sr Ti Sn U V Zn	Or Co Cu Fe	Sb As	13PPM Texas 11 Al	92	/ 6010	Circle Method
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		7 X X	+ MS	8/13/20		501
Sample Comments		Chir	Depth Comp	trix Sampled Sampled	ntification Matrix	Sample Identification
NaOH+Ascorbic Acid: SAPC	1	ria Ex	e: 1, G	Corrected Temperature:		Total Containers:
Zn Acetate+NaOH: Zn		de	o C	Temperature Reading:	Yes No	Sample Custody Seals:
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H.SO.: H. N.SOH: N.S		· ·	the lab, if received by 4:30pm	the lab, i	Mai haus sum	PO#
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299	pecolur IIC		Company Name:		Hunary Horse	Company Name:
ò.	1	armen Pita	Bill to: (if different)	962	Daniel Domingez	Project Manager:
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Work Order No:

0	Chrosostymental 8/12/20 ; Tensentium	Refinquished by: (Signature) Received by: (Signature) Date/Time Relinquished by: (Signature)	ilinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractor to cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses ill be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be	Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn N	Ba Ba B Cd Ca Ca Ca		SP 8 813/19 5-R P V V	18/18	SPV 8/3/20 5-R 744	Sp 6 8/3/30 SMF 7 4 4	Sample Identification Matrix Date Time Depth Comp Cont Time Comp Cont Time Depth Depth Time Depth Time Depth Dept	Total Containers: Corrected Temperature: 1, 0	Sample Custody Seals: Yes No Wax Temperature Reading: 6,0	2	Thermometer ID:	SAMPLE RECEIPT Temp Blank: Yes No / Wet Ice: (768) No et	Sampler's Name: Fall (2 (7)(4)(4)(4)(4) TAT starts the day received by 4:30pm o	Project Location Due Date:	Project Number: Rush Code	ANALYSI	CPIHEGRIZZUJENIGIJIE.	8260 City, State ZIP:	Address:	Company Name: HUMAN HOISE Company Name: Twi 11 lu Human	Din to. (hamelen)
Revised Date 05012020 Rev. 2020.1	MIQ MR FONDER	ignature) Received by: (Signature)	s. It assigns standard terms and conditions are due to circumstances beyond the control enforced unless previously negotiated.	MoNiSeAgTIU Hg:1631/245.1/7470/7471							Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na.S.O.: NaSO.	Nation: NARIO	H-DO HD NaCH Na			None: NO DI Water: H-O	S REQUEST Preservative Codes	Deliverables: EDD ADaPT Other:	Reporting:Level II Level III PST/UST TRRP Level IV	ָרָ	Program: UST/PST PRP Brownfields RRC Imperfund	Work Order Comments





























































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eurofins Environment Testing Xenco

Phone:

575 441-2504

pm@hungry-horse.com

Address:
City, State ZIP:

Odessa, Tx 79762

Reporting:Level II Level III LPST/UST

☐RRP Other:

Level IV

Deliverables: EDD

ADaPT []

State of Project:

Program: UST/PST PRP Brownfields RRC

□uperfund

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Page

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Work Order Comments

Grizzly Energy LLC 4001 Penbrook St

Address:

Hungry Horse LLC 4024 Plains Hwy

Lovington, Nm 88260

City, State ZIP:

Project Manager: Company Name:

Daniel Dominguez ; Lindsey Nevels

Bill to: (if different)
Company Name:

Carmen Pitt



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Work Order No: UNC 344

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	rms and conditions	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions	ient company to Xenco, its affiliates an	d purchase order from cl	ent of samples constitutes a val	nent and relinquishme	otice: Signature of this docun
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Atlanta, GA (770) 449-8800

Work Order No: 310 344

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Revised Date 05012020 Rev. 2020 1		8	ignature) (Received by: (Signature) Date/Time	are due to circumstances beyond the oontrol enforced unless previously negotiated.		li Se Ag TIU Hg: 1631 / 245.1 / 747	e Pb Mg Mn Mo Ni K Se Ag SiO₂Na Sr Tl Sn U V Zn						Sample Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH: Zn	Na ₂ S ₂ O ₃ : NaSO ₃	NaHSO. NABIS	U	10	HCL: HC HNO: HN	_	None: NO DI Water: H.O	REQUEST Preservative Codes	Deliverables: EDD	Reporting:Level II Level III ST/UST RRP Level IV	NATIONAL AND	Program: UST/PST PRP Brownfields RRC Deperfund	Work Order Comments	www.xenco.com rage of



Analytical Report

Report Summary

Client: Grizzly Energy Samples Received: 9/2/2020

Job Number: 19054-0003 Work Order: P009010

Project Name/Location: CS Caylor

Report Reviewed By:	Walter Hinkman	Date:	9/8/20	
	Walter Hinchman, Laboratory Director	_		



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI $\,$ certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
HZ2C Surf	P009010-01A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
HZ2C 5 ft	P009010-02A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
HZ3C Surf	P009010-03A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
HZ3C 5 ft	P009010-04A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
HZ4C Surf	P009010-05A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
HZ4C 5 ft	P009010-06A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
HZ5C Surf	P009010-07A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
HZ5C 5 ft	P009010-08A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.

(

Reported:



Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Odessa TX, 79762 Project Manager:

09/08/20 14:23 Daniel Dominguez

HZ2C Surf P009010-01 (Solid)

		007010-01 (3011	u)				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		94.4 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		89.9 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/04/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/04/20		
Surrogate: n-Nonane		108 %	50-200	09/04/20	09/04/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	156	20.0	1	09/04/20	09/04/20		





Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 Project Manager: 09/08/20 14:23 Daniel Dominguez

HZ2C 5 ft P009010-02 (Solid)

	1,	JU9010-02 (SUII	u)				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		99.3 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	263	25.0	1	09/04/20	09/04/20		
Oil Range Organics (C28-C40)	396	50.0	1	09/04/20	09/04/20		
Surrogate: n-Nonane		126 %	50-200	09/04/20	09/04/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	ND	20.0	1	09/04/20	09/04/20		





Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 Project Manager: 09/08/20 14:23 Daniel Dominguez

HZ3C Surf P009010-03 (Solid)

	'	009010-03 (3011	<u> </u>				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg		<u> </u>		Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.6 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/04/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/04/20		
Surrogate: n-Nonane		102 %	50-200	09/04/20	09/04/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	92.9	20.0	1	09/04/20	09/04/20	·	·



HZ3C 5 ft P009010-04 (Solid)

		007010-04 (3011	u)				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.8 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/04/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/04/20		
Surrogate: n-Nonane		93.2 %	50-200	09/04/20	09/04/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	ND	20.0	1	09/04/20	09/04/20	·	·





HZ4C Surf P009010-05 (Solid)

		007010-03 (301	u)				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		99.8 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/04/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/04/20		
Surrogate: n-Nonane		103 %	50-200	09/04/20	09/04/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	116	20.0	1	09/04/20	09/04/20		





Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 Project Manager: 09/08/20 14:23 Daniel Dominguez

HZ4C 5 ft P009010-06 (Solid)

	1	007010-00 (301	u)				
		Reporting		_			
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		86.5 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/04/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/04/20		
Surrogate: n-Nonane		101 %	50-200	09/04/20	09/04/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	ND	20.0	1	09/04/20	09/04/20		





Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 09/08/20 14:23 Project Manager: Daniel Dominguez

HZ5C Surf P009010-07 (Solid)

t Dilution g 0 1	Prepared	Analyzed	Notes	
g	Prepared	Analyzed	Notes	
0 1			Batch:	2036019
0 1	09/02/20	09/02/20		
0 1	09/02/20	09/02/20		
0 1	09/02/20	09/02/20		
0 1	09/02/20	09/02/20		
0 1	09/02/20	09/02/20		
0 1	09/02/20	09/02/20		
50-150	09/02/20	09/02/20		
g			Batch:	2036019
1	09/02/20	09/02/20		
50-150	09/02/20	09/02/20		
g			Batch:	2036044
1	09/04/20	09/04/20		
1	09/04/20	09/04/20		
50-200	09/04/20	09/04/20		
g			Batch:	2036038
1	09/04/20	09/04/20		
	50 1 50 1 50 1 50 1 50-150 sg 1 50-150	50 1 09/02/20 50 1 09/02/20 50 1 09/02/20 50 1 09/02/20 50-150 09/02/20 3g 0 1 09/02/20 50-150 09/02/20 3g 0 1 09/02/20 3g 0 1 09/02/20 50-150 09/02/20 50-200 09/04/20	50 1 09/02/20 09/02/20 50 1 09/02/20 09/02/20 50 1 09/02/20 09/02/20 50 1 09/02/20 09/02/20 50-150 09/02/20 09/02/20	50 1 09/02/20 09/02/20 50 1 09/02/20 09/02/20 50 1 09/02/20 09/02/20 50 1 09/02/20 09/02/20 50 1 09/02/20 09/02/20 50-150 09/02/20 09/02/20 8g Batch: 0 1 09/02/20 09/02/20 50-150 09/02/20 09/02/20 50-150 09/02/20 09/02/20 50-150 09/02/20 09/02/20 50-150 09/02/20 09/02/20 50-150 09/02/20 09/02/20 8g Batch: 0 1 09/04/20 09/04/20 50-200 09/04/20 09/04/20 50-200 09/04/20 09/04/20



HZ5C 5 ft P009010-08 (Solid)

		00,010 00 (801	"				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		99.5 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.5 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	157	25.0	1	09/04/20	09/04/20		
Oil Range Organics (C28-C40)	222	50.0	1	09/04/20	09/04/20		
Surrogate: n-Nonane		126 %	50-200	09/04/20	09/04/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	ND	20.0	1	09/04/20	09/04/20		





CS Caylor Grizzly Energy Project Name: 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 09/08/20 14:23 Project Manager: Daniel Dominguez

Vola	Volatile Organics by EPA 8021B - Quality Control											
	Reporting	Snike	Source	REC	RPD							

	.	Reporting	Spike	Source	220	REC	222	RPD	
Analyte	Result	Limit	Level	Result	REC	Limits	RPD	Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2036019-BLK1)							Prepared	& Analyzed:	09/01/20 1
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.7	50-150			
LCS (2036019-BS1)							Prepared	& Analyzed:	09/01/20 1
Benzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.85	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
o,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
Total Xylenes	14.4	0.0250	15.0		96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	50-150			
Matrix Spike (2036019-MS1)					Source: Po	009002-01	Prepared	: 09/01/20 1 A	nalyzed: 09/01/20 2
Benzene	5.07	0.0250	5.00	ND	101	54-133			
Toluene	5.24	0.0250	5.00	ND	105	61-130			
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
p-Xylene	5.18	0.0250	5.00	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	50-150			
Matrix Spike Dup (2036019-MSD1)					Source: Po	009002-01	Prepared	: 09/01/20 1 A	nalyzed: 09/01/20 2
Benzene	4.69	0.0250	5.00	ND	93.7	54-133	7.81	20	
Toluene	4.85	0.0250	5.00	ND	97.0	61-130	7.75	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.2	61-133	7.35	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	7.61	20	
o-Xylene	4.80	0.0250	5.00	ND	96.1	63-131	7.49	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.1	63-131	7.57	20	
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	50-150			





Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2036019-BLK1)							Prepared	& Analyzed	: 09/01/20 1
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	50-150			
LCS (2036019-BS2)							Prepared	& Analyzed	: 09/01/20 1
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	50-150			
Matrix Spike (2036019-MS2)					Source: P	009002-01	Prepared	: 09/01/20 1	Analyzed: 09/01/20 2
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	50-150			
Matrix Spike Dup (2036019-MSD2)					Source: P	009002-01	Prepared	: 09/01/20 1	Analyzed: 09/01/20 2
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130	0.819	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	50-150			





Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Con	Nonhalogenated	Organics by EF	PA 8015D - DRO/O	RO - Ouality Contro
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		- 8							
Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2036044-BLK1)							Prepared	& Analyzed:	09/04/20 1
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	54.8		50.0		110	50-200			
LCS (2036044-BS1)							Prepared	& Analyzed:	09/04/20 1
Diesel Range Organics (C10-C28)	483	25.0	500		96.7	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			
Matrix Spike (2036044-MS1)					Source: Po	009014-01	Prepared	& Analyzed:	09/04/20 1
Diesel Range Organics (C10-C28)	716	25.0	500	129	117	38-132			
Surrogate: n-Nonane	65.1		50.0		130	50-200			
Matrix Spike Dup (2036044-MSD1)					Source: Po	009014-01	Prepared	& Analyzed:	09/04/20 1
Diesel Range Organics (C10-C28)	715	25.0	500	129	117	38-132	0.0622	20	
Surrogate: n-Nonane	65.9		50.0		132	50-200			





Anions by EPA 300.0/9056A - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2036038-BLK1)							Prepared	: 09/04/20 0	Analyzed: 09/04/20 1
Chloride	ND	20.0							
LCS (2036038-BS1)							Prepared	: 09/04/20 0	Analyzed: 09/04/20 1
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2036038-MS1)					Source: Po	009009-01	Prepared	: 09/04/20 0	Analyzed: 09/04/20 1
Chloride	354	100	250	116	95.2	80-120			
Matrix Spike Dup (2036038-MSD1) Source: P009009-01 Prepared: 09/04/20 0							: 09/04/20 0	Analyzed: 09/04/20 1	
Chloride	322	100	250	116	82.5	80-120	9.42	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Page 15 of 17

Project I	nformation
Client: (CSCO
	Manager:
Address	
City, Sta	te, Zip.
Phone:	
Email:	
Report d	ue by:
Time	Date

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Page	of	1
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Received by OCD: 11/11/2020 3:07:44 PM

Page 16 of 17

Client: (ent: Grizzly Bill To							Use Only				AT	Е	PA Program				
Project: Project N	CS C.	ylar	Sam	inquez	Attention: Hungry H. Address:	use		W0#			Job I				3D	RCRA	CWA	SDWA
Address:	idiloger.	Division	(30)	- Ingota	City, State, Zip		PO	010	10				4-0503 nd Metho				St-	late
City, Stat					Phone:						Andry	313 (11	I I	T				UT AZ
Phone:					Email:			115	- 1							l m		
Email: Report d	ue bv:	-			prome hongry-hor	WA), 52) by 80) by 80	3021	260	010	300.0		Σ×	~		TX OK	
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	31	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC - NM	BGDOC - TX		Ren	narks
	8/31	Sail	1	HZZC		1											56	·Ł
	1	1	1	HZZC		2											5	
				HZ36		3			Ī								Sur	F
				HZ30		4											5	ft
				HZ40		S											501	f
				HZ4c		6											5 9	Ft
				HZ50		7										1-1	Sur	f
				HZ50		8											56	+
	-)-	-	\vdash															
Addition	al Instruc	tions:	•															
					hat tampering with or intentionally mislabelling the	sample location, date or											e day they are san subsequent days	
	d by: (Signa		Date		Received by: (Signature)	Date 8.3(.2)	020	Time	121				on ice:	La		e Only	suusequent days	
Relinquishe	d by: (Signa	20	/ Date	Time	Received by: (Signature) Received by: (Signature)	Date 9 a C	20	Time	77		T1	iveu	orrice.				T3	
lelinquishe	d by: (Signa	ture)	Date	Time	Received by: (Signature)	Date		Time				Tem	p°C_4					
amala Mata	iv. S - Soil Sd	- Solid Sp -	Sludge A - A	queous, 0 - Other		Container	Turna	1								107		



I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or	Samples requiring thermal preservation must be received or
	received packed in ice at an avg temp above 0 but less than

Lab Use Only Received on ice: Relinquished by: (Signature) AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Received by OCD: 11/11/2020 3:07:44 PM



Analytical Report

Report Summary

Client: Grizzly Energy Samples Received: 9/2/2020

Job Number: 19054-0003 Work Order: P009011

Project Name/Location: CS Caylor

Report Reviewed By:	Walter Hinkman	Date:	9/8/20	
	Walter Hinchman, Laboratory Director			



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise. Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way. Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc. Envirotech, Inc, holds the Utah TNI $\,$ certification NM009792018-1 for the data reported. Envirotech, Inc, holds the Texas TNI certification T104704557-19-2 for the data reported.



Sample Summary

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SP2 5.5 ft	P009011-01A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
SP3 5.5 ft	P009011-02A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
SP4 5.5 ft	P009011-03A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.
SP8 5.5 ft	P009011-04A	Soil	08/31/20	09/02/20	Glass Jar, 4 oz.

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Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 Project Manager: 09/08/20 14:20 Daniel Dominguez

SP2 5.5 ft P009011-01 (Solid)

	1	007011-01 (3011	u)				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.1 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/05/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/05/20		
Surrogate: n-Nonane		108 %	50-200	09/04/20	09/05/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	110	20.0	1	09/04/20	09/04/20		





Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 Project Manager: 09/08/20 14:20 Daniel Dominguez

SP3 5.5 ft P009011-02 (Solid)

	1	007011-02 (3011	u)				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		100 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		87.4 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/05/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/05/20		
Surrogate: n-Nonane		105 %	50-200	09/04/20	09/05/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	87.0	20.0	1	09/04/20	09/04/20	·	·





SP4 5.5 ft P009011-03 (Solid)

		009011-03 (3011	<u> </u>				
Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes	
Tildye	resur	Emit	Briation	Trepured	7 mary zea	110103	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		99.6 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.4 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/05/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/05/20		
Surrogate: n-Nonane		106 %	50-200	09/04/20	09/05/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	102	20.0	1	09/04/20	09/04/20		





Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 Project Manager: 09/08/20 14:20 Daniel Dominguez

SP8 5.5 ft P009011-04 (Solid)

		007011-04 (3011	u)				
		Reporting					
Analyte	Result	Limit	Dilution	Prepared	Analyzed	Notes	
Volatile Organics by EPA 8021B	mg/kg	mg/kg				Batch:	2036019
Benzene	ND	0.0250	1	09/02/20	09/02/20		
Toluene	ND	0.0250	1	09/02/20	09/02/20		
Ethylbenzene	ND	0.0250	1	09/02/20	09/02/20		
p,m-Xylene	ND	0.0500	1	09/02/20	09/02/20		
o-Xylene	ND	0.0250	1	09/02/20	09/02/20		
Total Xylenes	ND	0.0250	1	09/02/20	09/02/20		
Surrogate: 4-Bromochlorobenzene-PID		99.0 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg				Batch:	2036019
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/02/20	09/02/20		
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.1 %	50-150	09/02/20	09/02/20		
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg				Batch:	2036044
Diesel Range Organics (C10-C28)	ND	25.0	1	09/04/20	09/05/20		
Oil Range Organics (C28-C40)	ND	50.0	1	09/04/20	09/05/20		
Surrogate: n-Nonane		105 %	50-200	09/04/20	09/05/20		
Anions by EPA 300.0/9056A	mg/kg	mg/kg				Batch:	2036038
Chloride	92.1	20.0	1	09/04/20	09/04/20		





Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 19054-0003 Project Number: Reported: Odessa TX, 79762 09/08/20 14:20 Project Manager: Daniel Dominguez

Volat	tile Organics	by EPA 80	021B - Quality	Control	
	Domontino	C-:1	Carman	DEC	DDD

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2036019-BLK1)							Prepared	& Analyzed:	09/01/20 1
Benzene	ND	0.0250							
Toluene	ND	0.0250							
Ethylbenzene	ND	0.0250							
p,m-Xylene	ND	0.0500							
o-Xylene	ND	0.0250							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.89		8.00		98.7	50-150			
LCS (2036019-BS1)							Prepared	& Analyzed:	09/01/20 1
Benzene	4.70	0.0250	5.00		94.1	70-130			
Toluene	4.85	0.0250	5.00		97.1	70-130			
Ethylbenzene	4.85	0.0250	5.00		96.9	70-130			
p,m-Xylene	9.61	0.0500	10.0		96.1	70-130			
o-Xylene	4.79	0.0250	5.00		95.8	70-130			
Total Xylenes	14.4	0.0250	15.0		96.0	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.98		8.00		99.8	50-150			
Matrix Spike (2036019-MS1)					Source: Po	009002-01	Prepared	: 09/01/20 1 A	nalyzed: 09/01/20
Benzene	5.07	0.0250	5.00	ND	101	54-133			
Toluene	5.24	0.0250	5.00	ND	105	61-130			
Ethylbenzene	5.23	0.0250	5.00	ND	105	61-133			
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131			
o-Xylene	5.18	0.0250	5.00	ND	104	63-131			
Total Xylenes	15.5	0.0250	15.0	ND	104	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.02		8.00		100	50-150			
Matrix Spike Dup (2036019-MSD1)					Source: Po	009002-01	Prepared	: 09/01/20 1 A	nalyzed: 09/01/20
Benzene	4.69	0.0250	5.00	ND	93.7	54-133	7.81	20	
Toluene	4.85	0.0250	5.00	ND	97.0	61-130	7.75	20	
Ethylbenzene	4.86	0.0250	5.00	ND	97.2	61-133	7.35	20	
p,m-Xylene	9.61	0.0500	10.0	ND	96.1	63-131	7.61	20	
o-Xylene	4.80	0.0250	5.00	ND	96.1	63-131	7.49	20	
Total Xylenes	14.4	0.0250	15.0	ND	96.1	63-131	7.57	20	
Surrogate: 4-Bromochlorobenzene-PID	8.04		8.00		101	50-150			





Nonhalogenated Organics by EPA 8015D - GRO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2036019-BLK1)							Prepared	& Analyze	d: 09/01/20 1
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.26		8.00		90.7	50-150			
LCS (2036019-BS2)							Prepared	& Analyze	d: 09/01/20 1
Gasoline Range Organics (C6-C10)	47.0	20.0	50.0		94.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.35		8.00		91.9	50-150			
Matrix Spike (2036019-MS2)					Source: P	009002-01	Prepared	: 09/01/20	Analyzed: 09/01/20 2
Gasoline Range Organics (C6-C10)	47.3	20.0	50.0	ND	94.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.42		8.00		92.7	50-150			
Matrix Spike Dup (2036019-MSD2)					Source: P	009002-01	Prepared	: 09/01/20	l Analyzed: 09/01/20 2
Gasoline Range Organics (C6-C10)	46.9	20.0	50.0	ND	93.8	70-130	0.819	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.34		8.00		91.8	50-150			





Nonhalogenated Organics by EPA 8015D - DRO/ORO - Quality Control

Analyte	Result	Reporting Limit	Spike Level	Source	REC	REC Limits	RPD	RPD Limit	Notes
Allaryte	Kesuit	Liiiit	Level	Result	KLC	Limits	KI D		rvotes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2036044-BLK1)							Prepared	& Analyzed:	09/04/20 1
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C40)	ND	50.0							
Surrogate: n-Nonane	54.8		50.0		110	50-200			
LCS (2036044-BS1)							Prepared	& Analyzed:	09/04/20 1
Diesel Range Organics (C10-C28)	483	25.0	500		96.7	38-132			
Surrogate: n-Nonane	52.7		50.0		105	50-200			
Matrix Spike (2036044-MS1)					Source: Po	009014-01	Prepared	& Analyzed:	09/04/20 1
Diesel Range Organics (C10-C28)	716	25.0	500	129	117	38-132			
Surrogate: n-Nonane	65.1		50.0		130	50-200			
Matrix Spike Dup (2036044-MSD1)					Source: Po	009014-01	Prepared	& Analyzed:	09/04/20 1
Diesel Range Organics (C10-C28)	715	25.0	500	129	117	38-132	0.0622	20	
Surrogate: n-Nonane	65.9		50.0		132	50-200			





Grizzly Energy Project Name: CS Caylor 4001 Penbrook Suite 201 Project Number: 19054-0003 Reported: Odessa TX, 79762 09/08/20 14:20 Project Manager: Daniel Dominguez

Anions by FP	A 300 0/9056A	- Ouality Control
Amons by LP	A 300.0/9030A •	- Quanty Control

Analyte	Result	Reporting Limit	Spike Level	Source Result	REC	REC Limits	RPD	RPD Limit	Notes
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	
Blank (2036038-BLK1)							Prepared	: 09/04/20 0 A	Analyzed: 09/04/20 1
Chloride	ND	20.0							
LCS (2036038-BS1)							Prepared	: 09/04/20 0 A	Analyzed: 09/04/20 1
Chloride	247	20.0	250		98.8	90-110			
Matrix Spike (2036038-MS1)					Source: P	009009-01	Prepared	: 09/04/20 0 A	Analyzed: 09/04/20 1
Chloride	354	100	250	116	95.2	80-120			
Matrix Spike Dup (2036038-MSD1)					Source: P	009009-01	Prepared	: 09/04/20 0 A	Analyzed: 09/04/20 1
Chloride	322	100	250	116	82.5	80-120	9.42	20	

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values my differ slightly.

Envirotech, Inc | 5796 U.S Highway 64 | Farmington, NM 87401 | 505.632.1881 | Envirotech-inc.com



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

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Project Information

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Chain of Custody	Page
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Report o	lue by:					pme hongry-hor	se Low	3O by	3O by	8023	8260	5010	300	4	BGDOC - NM	×		TA OK		_	
Time Date Sampled Sampled Matrix No Containers Sample ID				Sample ID		, , ,		DRO/ORO by 8015	GRO/DRO by	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.			BGDOC-		Rem	narks		
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ample Mat	rix: S - Soil, S	d - Solid, Sg -	Sludge, A - A	queous, O - Other			Container	r Type: g - glass, p -							er glas	s, v - \	/OA				
lote: Samp	les are discar	ded 30 days a	fter results a	re reported unless	other arrang	rements are made. Hazardous samples will												ve samples is	applicab	la	

only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.



Received by OCD: 11/11/2020 3:07:44 PM

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Received by OCD: 11/11/2020 3:07:44 PM

Page 13 of 13

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roject Manager: Daniel Duminguez				-	Address:					0091	110		19050003												
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Time	Date		100			Marie	bare	nong	ry hoise	Lab	ORO	DRO	by 8	oy 82	s 60	de 3			C- N	¥		-			
Sampled	Sampled	Matrix	No Container	Sample II)					Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC - NM	BGDO			Rem	arks	
4	8/31	Soil	1	SP.	2					1									X				55	ff	
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AVG Temp °C_ Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.









eurofins Environment Testing Xenco









eurofins Environment Testing Xenco























City, State ZIP:

Address: Company Name:

230 Horse

Bill to: (if different)

2007

Email:

City, State ZIP: Address: Company Name:

State of Project:

Program: UST/PST _PRP _Brownfields _RRC

□uperfund □

www.xenco.com

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Work Order Comments

Reporting:Level II Level III PST/UST

RRP

☐ Level IV ☐

Project Manager:

unain or Gustody

Tampa, FL (813) 620-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 889-6701 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Atlanta, GA (770) 449-8800

Work Order No:
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Deliverables: EDD ADaPT Other:		Email:

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Chain of Custody

Tampa, FL (813) 820-2000, Tallahassee, FL (850) 756-0747, Delray Beach, FL (561) 689-6701 Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300, San Antonio, TX (210) 509-3334 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199, Phoenix, AZ (480) 355-0900 Midland, TX (432) 704-5440, EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296 Atlanta, GA (770) 449-8800

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Work Order Comments

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° NIA	Correction Factor:			NaHSO ₄ : NABIS
No YNA)	Temperature Reading:	'd,		Na ₂ S ₂ O ₃ : NaSO ₃
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Work Order No: 676438

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Work Order Comments

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Atlanta, GA (770) 449-8800

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101		re) _n Date/Time		Hg: 1631 / 245.1 / 7470 / 7471	Na Sr TI Sn U V Zn							Sample-Comments	NaOH+Ascorbic Acid: SAPC	Zn Acetate+NaOH; Zn	Na ₂ S ₂ O ₃ , NaSO ₃	NaHSO:: NABIS		•	HCI - HC HNO - HN	_	None: NO DI Wafer H.O	Preservative Codes

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Deliverables: EDD

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Other.

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Sample Comments	Ch TP BT	Time Depth Comp Cont	Sample Identification Matrix Sampled
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Zn Acetate+NaOH: Zn	id	Temperature Reading: 3.	Sample Custody Seals: Yes No N/A Temperate
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NaHSO: NARIS		20.21	Received Intact: Yes No Thermometer ID:
U		o Wet Ice: Yes No et el	SAMPLE RECEIPT Temp Blank: Yes No
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Program: UST/PST ☐PRP ☐Brownfields ☐RRC ☐uperfund ☐	7	Company Name:	Company Name: HUMOY' HOYSE
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Attachment V NMOCD Form C-141 Remediation and Closure Pages

	Page 358 of 36	2
Incident ID	nRM2022558133	
District RP		
Facility ID		
Application ID		

Site Assessment/Characterization

Inis information must be provided to the appropriate district office no taler than 90 days after the release discovery date.						
What is the shallowest depth to groundwater beneath the area affected by the release?	51'-100' (ft bgs)					
Did this release impact groundwater or surface water?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No					
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No					
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No					
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No					
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No					
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No					
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No					
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No					
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No					
Did the release impact areas not on an exploration, development, production, or storage site?	⊠ Yes □ No					
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.						
Characterization Report Checklist: Each of the following items must be included in the report.						
 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data □ Data table of soil contaminant concentration data 						

 Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells. Field data Data table of soil contaminant concentration data Depth to water determination Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs Photographs including date and GIS information Topographic/Aerial maps
Laboratory data including chain of custody

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

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I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the C failed to adequately investigate and remediate contamination that pose a threaddition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Carmen E Pitt	Title: Senior EHS Specialist
Signature: Carmen Pitt	Date: 11/11/2020
email: <u>cpitt@grizzlyenergyllc.com</u>	Telephone: 432-248-8145
OCD Only	
Received by:	Date:

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Facility ID	
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Remediation Plan

Remediation Plan Checklist: Each of the following items must be	included in the plan.
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.1 ☑ Proposed schedule for remediation (note if remediation plan times) 	2(C)(4) NMAC
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	oduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.
I hereby certify that the information given above is true and complet rules and regulations all operators are required to report and/or file c which may endanger public health or the environment. The acceptant liability should their operations have failed to adequately investigate surface water, human health or the environment. In addition, OCD a responsibility for compliance with any other federal, state, or local laterals.	ertain release notifications and perform corrective actions for releases are of a C-141 report by the OCD does not relieve the operator of and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Carmen E Pitt	Title: Senior EHS Specialist
Signature: Carmen Pätt	Date:11/11/2020
email: cpitt@grizzlyenergyllc.com	Telephone: 432-248-8145
OCD Only	
Received by:	Date:
☐ Approved ☐ Approved with Attached Conditions of A	Approval Denied Deferral Approved
Signature:	Date:

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Incident ID nRM2022558133
District RP
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following ite	ems must be included in the closure report.
☐ A scaled site and sampling diagram as described in 19.15.29.11	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a should their operations have failed to adequately investigate and rem human health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regulativestore, reclaim, and re-vegetate the impacted surface area to the con accordance with 19.15.29.13 NMAC including notification to the OC Printed Name: Carmen E Pitt	ediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in
email: cpitt@grizzlyenergyllc.com	Telephone: 432-248-8145
OCD Only	
Received by: Chad Hensley	Date:02/19/2021
remediate contamination that poses a threat to groundwater, surface we party of compliance with any other federal, state, or local laws and/or	of liability should their operations have failed to adequately investigate and eater, human health, or the environment nor does not relieve the responsible r regulations.
Closure Approved by:	Date: 02/19/2021
Printed Name: Chad Hensley	Title:Environmental Specialist Advanced

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

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

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

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

CONDITIONS

Action 11163

CONDITIONS OF APPROVAL

Operator:			OGRID:	Action Number:	Action Type:
GRIZZLY OPERATING, LLC	5847 San Felipe, Suite 3000	Houston, TX77057	258350	11163	C-141

OCD Reviewer	Condition
chensley	None