



September 28, 2023

New Mexico Oil Conservation Division

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

**Re: Closure Request
Harroun Ranch #005
Incident Number nAPP2200455573
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment, excavation, and soil sampling activities performed at the Harroun Ranch #005 (Site). The purpose of the excavation and soil sampling activities was to address impacts to soil resulting from a produced water release at the Site. Based on the excavation activities and laboratory analytical results from soil sampling events, BTA is submitting this *Closure Request*, describing remediation that has occurred and requesting closure for Incident Number nAPP2200455573.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit P, Section 20, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.28407°, -104.00095°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On January 3, 2022, a valve froze on a sand trap tank, causing approximately 953 barrels (bbls) of produced water to be released onto the pad. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a *Release Notification Form C-141* (Form C-141) on January 4, 2022. The release was assigned Incident Number nAPP2200455573.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 6 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater is New Mexico Office of the State Engineer (NMOSE) well C-02707, located approximately 0.92 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 18 feet bgs and a total depth of 40 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

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The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 796 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total Petroleum Hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

DELINEATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

On May 5, 2023, Ensolum personnel conducted an initial Site assessment to evaluate the release extent based on details outlined on the Form C-141 and visual observations. No visible indications of surface impacts were observed during the initial Site visit. Four soil samples (SS01 through SS04) were collected outside of the inferred release extent at a depth of 0.5 feet bgs to delineate the lateral extent of the release. Seven delineation boreholes (SS05 through SS11) were advanced via hand auger within the inferred release area, to assess for the presence or absence of impacted soil. Soil samples were collected from each borehole at a depth of 0.5 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID), and chloride using Hach® chloride QuanTab® test strips. Visual observations and field screening results were logged on lithologic soil sampling logs which are included in Appendix B. The inferred release area and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during site assessment and a photographic log is included in Appendix C.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO) and TPH-diesel range organics (DRO) , and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method 4500.0.

Laboratory analytical results for delineation soil samples SS01 through SS04 indicated all COC concentrations were compliant with the Site Closure Criteria and successfully defined the lateral extent of the inferred release area. Laboratory analytical results for delineation soil samples SS07, SS08, and SS11, collected at a depth of 0.5 feet bgs and within the inferred release area, indicated all COC concentrations were compliant with the Site Closure Criteria. Laboratory analytical results for SS05, SS06, SS09, and SS10, collected within the inferred release area at a depth of 0.5 feet bgs, indicated TPH and/or chloride concentrations exceeded the Site Closure Criteria. Based on laboratory analytical results for soil sample SS05, SS06, SS09, and SS10, excavation activities appeared to be warranted.

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EXCAVATION ACTIVITIES AND LABORATORY ANALYTICAL RESULTS

Between May 24 and May 30, 2023, Ensolum personnel were on Site to oversee excavation activities to remove impacted soil within the release extent based on the laboratory analytical results from delineation activities. Excavation activities were performed utilizing hand shovels and back-hoe. To direct excavation activities, soil was screened for VOCs and chloride. The excavation was completed to a maximum depth of 1-foot bgs. Photographic documentation of the excavation activities is included in Appendix C.

Following removal of impacted soil, 5-point composite soil samples were collected at a frequency of one sample per 200 square foot zones from the floor and sidewalls of the excavation extent. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Due to the shallow depth of the excavation extent, the sidewalls were incorporated into the floor samples. Composite soil samples FS01 through FS54 were collected from the floor of the excavation at a depth of 1-foot bgs. In addition, seven discrete soil samples were collected from the potholes at depths ranging from 1-foot to 4 feet bgs. The soil samples were collected, handled, and analyzed following the same procedures as described above.

Laboratory analytical results indicated composite soil samples FS28, FS40, and FS41 contained TPH concentrations exceeding the Closure Criteria. COCs in all other composite soil samples from the floor and sidewalls of the excavation, as well as the six discrete pothole soil samples, were in compliance with Site Closure Criteria. The excavation extent and excavation soil sample locations are presented on Figure 3. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Appendix D. Based on laboratory analytical results for soil samples FS28, FS40, and FS41, additional excavation activities were warranted.

On June 21, 2023, Ensolum personnel returned to the Site to continue excavation activities at the 200-square foot zones that exceeded the Closure Criteria. These zones were excavated an additional 0.25 feet to a depth of 1.25 feet bgs, and composite soil samples labeled FS28A, FS40A and FS41A were collected. The 5-point composite soil samples were collected as described above and were screened for VOCs and chloride.

Laboratory analytical results from the June 2023 sampling event indicated all COC concentrations in soil samples FS28A, FS40A and FS41A were compliant with the Closure Criteria.

The total excavation area measured approximately 10,800 square feet. Approximately 500 cubic yards of impacted soil was transported and properly disposed of at the OWL Landfill Services, LLC in Jal, New Mexico.

CLOSURE REQUEST

Site assessment and excavation activities were conducted to remediate impacted soil resulting from a produced water release at the Site. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated all COCs were compliant with the Site Closure Criteria. Delineation soil samples indicated all COCs were compliant with the Site Closure Criteria confirming the lateral and vertical extent of the inferred release area. Based on the soil sample laboratory analytical results, no further remediation was required.

No visible indications of the release were observed, and excavation of impacted soil has mitigated impacts at this Site. BTA believes these remedial actions are protective of human health, the environment, and groundwater. As such, BTA respectfully requests closure for Incident Number nAPP2200455573. Notifications submitted to the NMOCD are included in Appendix E and the final Form C-141 is included in Appendix F.

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If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Tabitha Guadian
Assistant Geologist



Daniel R. Moir, PG
Senior Managing Geologist

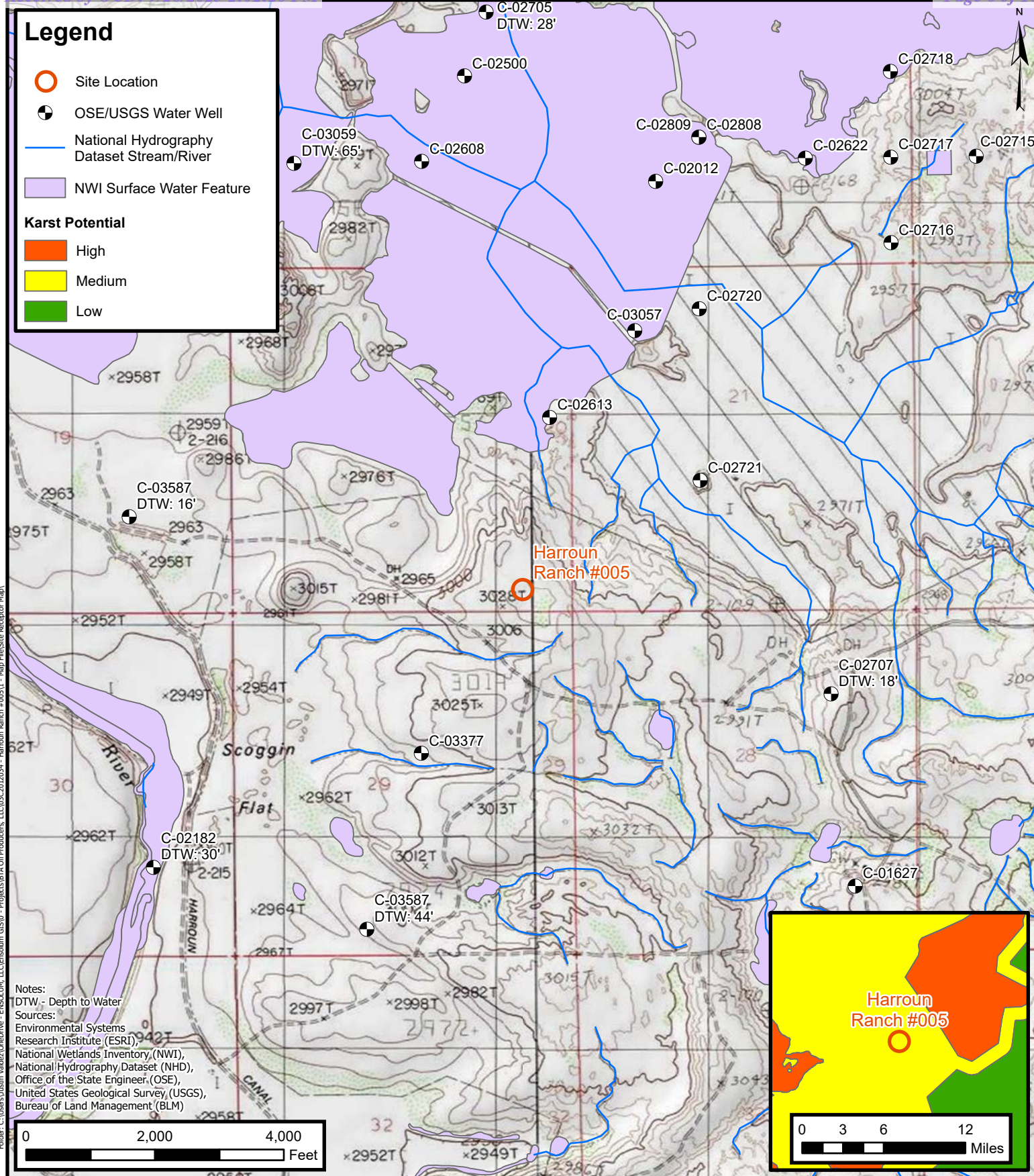
cc: Kelton Beaird, BTA
Bureau of Land Management

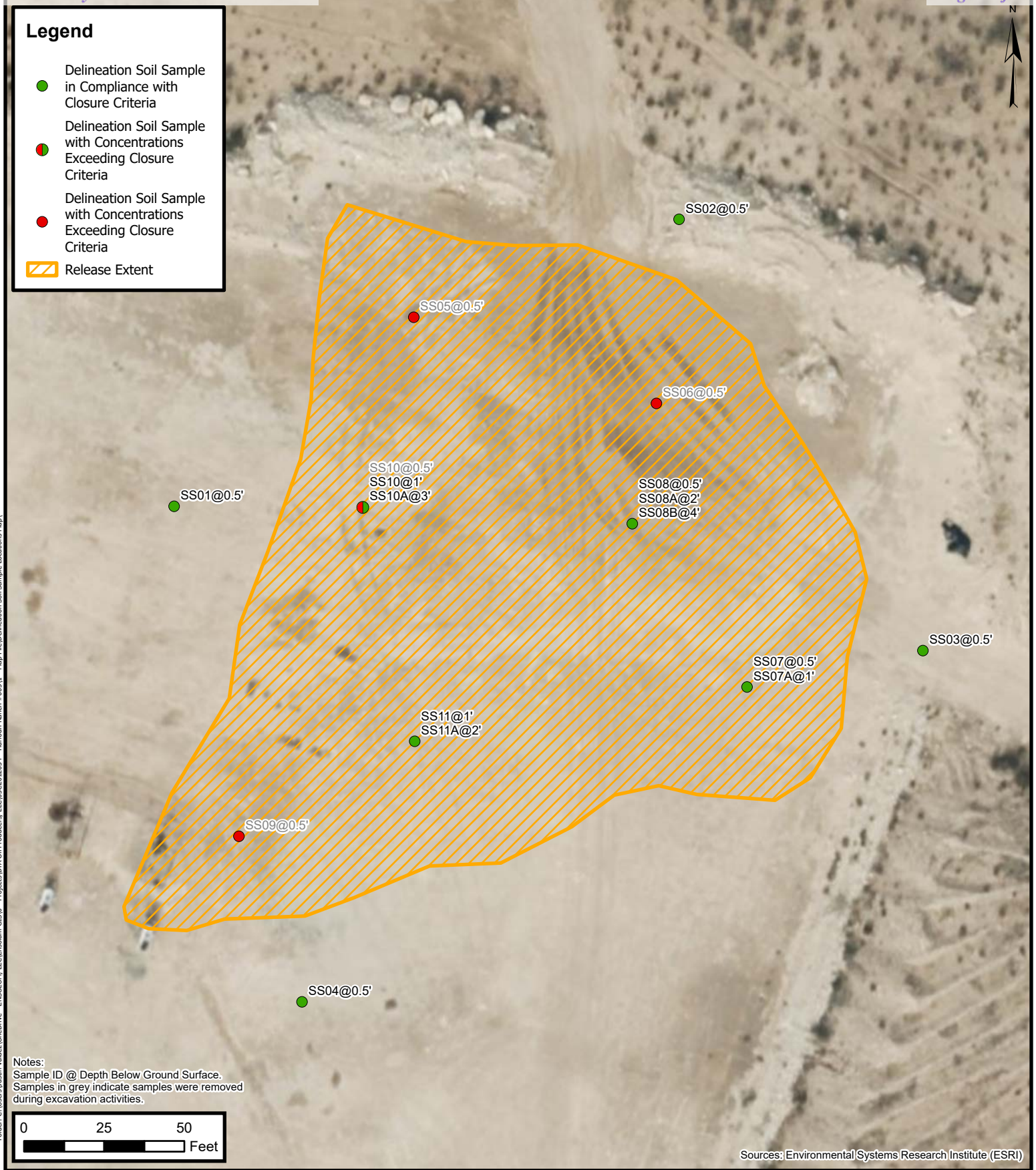
Appendices:

Figure 1	Site Receptor Map
Figure 2	Assessment Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Lithologic/Soil Sampling Logs
Appendix C	Photographic Log
Appendix D	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix E	NMOCD Notifications
Appendix F	Final C-141



FIGURES





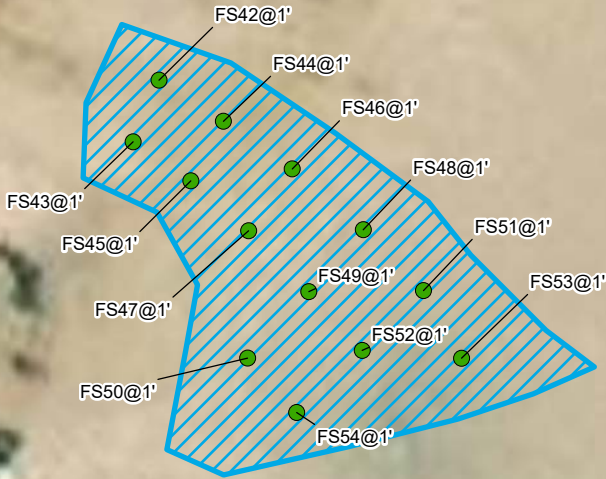
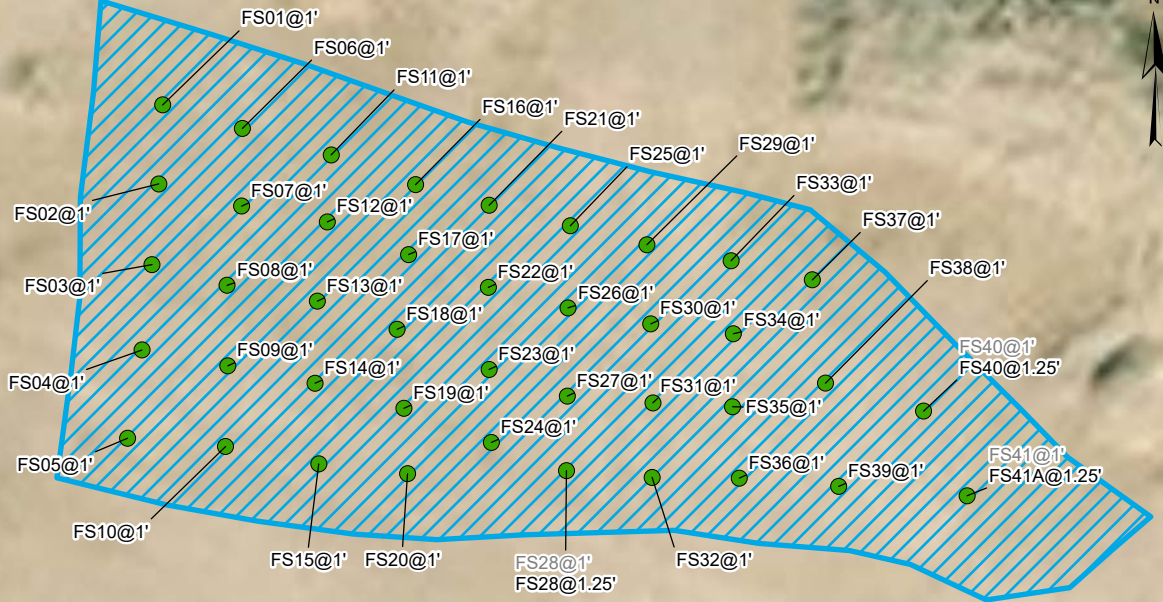
Delineation Soil Sample Locations

BTA Oil Producers, LLC
Harroun Ranch #005
Incident Number: nAPP2200455573
Unit P, Sec 20, T23S, R29E
Eddy County, New Mexico

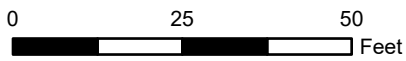
FIGURE
2

Legend

- Excavation Floor Sample in Compliance with Closure Criteria
- Excavation Extent



Notes:
Sample ID @ Depth Below Ground Surface.
Samples in grey indicate soil sample was removed during excavation activities.



Sources: Environmental Systems Research Institute (ESRI)

Excavation Soil Sample Locations

BTA Oil Producers, LLC
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Unit P, Sec 20, T23S, R29E
Eddy County, New Mexico

FIGURE

3





TABLES



TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
 Harroun Ranch #005
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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	32.0
SS02	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS03	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS04	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	16.0
SS05	05/08/2023	0.5	<0.050	<0.300	<10.0	1,390	273	1,390	1,663	14,000
SS06	05/08/2023	0.5	<0.050	<0.300	<10.0	2,790	479	2,790	3,269	2,800
SS07	05/08/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
SS07A	05/26/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	64.0
SS08	05/08/2023	0.5	<0.050	<0.300	<10.0	26.1	<10.0	26.1	26.1	96.0
SS08A	05/26/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS08B	05/26/2023	4	<0.050	<0.300	<10.0	11.9	<10.0	11.9	11.9	592
SS09	05/08/2023	0.5	<0.050	<0.300	<10.0	444	271	444	715	3,120
SS10	05/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	640
SS10	06/21/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
SS10A	05/26/2023	3	<0.050	<0.300	<10.0	16.8	<10.0	16.8	16.8	240
SS11	05/26/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
SS11A	05/26/2023	2	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
Excavation Soil Samples										
FS01	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS02	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS03	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS04	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS05	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	208
FS06	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	224
FS07	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192



TABLE 1
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 Harroun Ranch #005
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Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS08	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS09	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS10	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS11	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS12	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS13	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS14	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	80.0
FS15	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	144
FS16	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	192
FS17	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS18	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS19	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS20	05/25/2023	1	<0.050	<0.0300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS21	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS22	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	176
FS23	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS24	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS25	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	128
FS26	05/25/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
FS27	05/26/2023	1	<0.050	<0.300	<10.0	41.9	<10.0	41.9	41.9	224
FS28	05/26/2023	1	<0.050	<0.300	<10.0	120	<10.0	120	120	80.0
FS28A	06/21/2023	1.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS29	05/26/2023	1	<0.050	<0.300	<10.0	99.3	<10.0	99.3	99.3	80.0
FS30	05/26/2023	1	<0.050	<0.300	<10.0	81.0	<10.0	81.0	81.0	96.0
FS31	05/26/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS32	05/26/2023	1	<0.050	<0.300	<10.0	22.4	<10.0	22.4	22.4	272
FS33	05/26/2023	1	<0.050	<0.300	<10.0	12.4	<10.0	12.4	12.4	304
FS34	05/26/2023	1	<0.050	<0.300	<10.0	16.4	<10.0	16.4	16.4	304
FS35	05/26/2023	1	<0.050	<0.300	<10.0	28.9	<10.0	28.9	28.9	304
FS36	05/26/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	112
FS37	05/26/2023	1	<0.050	<0.300	<10.0	12.9	<10.0	12.9	12.9	240
FS38	05/26/2023	1	<0.050	<0.300	<10.0	11.8	<10.0	11.8	11.8	208



TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Harroun Ranch #005 BTA Oil Producers, LLC Eddy County, New Mexico										
Sample Designation	Date	Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
FS39	05/26/2023	1	<0.050	<0.300	<10.0	14.6	<10.0	14.6	14.6	208
FS40	05/26/2023	1	<0.050	<0.300	<10.0	114	<10.0	114	114	224
FS40A	06/21/2023	1.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS41	05/26/2023	1	<0.050	<0.300	<10.0	228	14.1	228	242	224
FS41A	06/21/2023	1.25	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS42	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	400
FS43	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	416
FS44	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS45	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS46	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS47	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	320
FS48	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS49	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	336
FS50	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	288
FS51	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS52	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	304
FS53	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	528
FS54	05/30/2023	1	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	496

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.**Grey** text represents samples that have been excavated




APPENDIX A

Referenced Well Records



New Mexico Office of the State Engineer

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	X	Y
	C 02707			2	28	23S	29E	595535	3571868* 
<hr/>									
Driller License: 1348		Driller Company:			TAYLOR WATER WELL SERVICE				
Driller Name:									
Drill Start Date: 06/09/2000		Drill Finish Date:			06/09/2000		Plug Date:		
Log File Date: 08/28/2000		PCW Rcv Date:					Source:		Shallow
Pump Type:		Pipe Discharge Size:					Estimated Yield:		700 GPM
Casing Size: 2.38		Depth Well:			40 feet		Depth Water:		18 feet
<hr/>									
Water Bearing Stratifications:				Top	Bottom	Description			
				36	78	Limestone/Dolomite/Chalk			
<hr/>									
Casing Perforations:				Top	Bottom				
				35	40				

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

8/22/23 8:52 AM

POINT OF DIVERSION SUMMARY

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well IMC Kalium Owner's Well No. _____
Street or Post Office Address Box 71
City and State Carlsbad, NM 88220

Well was drilled under Permit No. C-2707 and is located in the:
a. NE ¼ _____ ¼ _____ ¼ _____ ¼ of Section 28 Township 23S Range 29E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348
Address 7317 Etcheverry Rd., Carlsbad, NM 88220
Drilling Began 6/9/00 Completed 6/9/00 Type tools Rotary Size of hole 6 in.
Elevation of land surface or _____ at well is 11K ft. Total depth of well 40 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 18 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
36	40	4	Limestone:brn,vfn xln,dolo	700

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
2 3/8	Sch 40	Flush	+2	40	42	Cap	35	40

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 08-28-2000 Quad _____ FWL _____ FSL _____
File No. C-2707 Use Monitor Location No. 23S.29E.28.2

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

Air drilled to 40'. Sand packed from 30-40'. Grouted from 30' to surface.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

STATE ENGINEER OFFICE
WELL RECORD

444312

Section 1. GENERAL INFORMATION

(A) Owner of well IMC Kalium Owner's Well No. _____
Street or Post Office Address Box 71
City and State Carlsbad, NM 88220

Well was drilled under Permit No. C-2707 and is located in the:
a. NE $\frac{1}{4}$ $\frac{1}{4}$ $\frac{1}{4}$ of Section 28 Township 23S Range 29E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348
Address 7317 Etcheverry Rd., Carlsbad, NM 88220
Drilling Began 5/27/00 Completed 6/2/00 Type tools Rotary Size of hole 6 in.
Elevation of land surface or _____ at well is UK ft. Total depth of well _____ ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
36	78	42	Limestone:brn,off wht,pnk,mic xln,fractured	700

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 08-28-2000 Quad _____ FWL _____ FSL _____
File No. C-2707 Use Monitor Location No. 23S.29E.28.2

Section 6. LOG OF HOLE

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

Drilled with mud to 213.5'. Packer tested. Plugged well back with cement grout. Brought grout up too far and plugged water zone. Drilled new hole with air 10' from this hole.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller/

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 4(a) and Section 5 need be completed.

Eddy County, New Mexico
Latitude 32°16'15", Longitude 104°01'46" NAD27
Land-surface elevation 2,962 feet above NAVD88
The depth of the well is 89 feet below land surface.
This well is completed in the Other aquifers (N9999OTHER) national aquifer.
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	<div>Water-level date-time accuracy</div>	<div>Parameter code</div>	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	<div>Status</div>	<div>Method of measurement</div>	<div>Measuring agency</div>	<div>Source of measurement</div>	<div>Water-level approval status</div>
1954-11-08		D	62610		2924.82	NGVD29	1	Z			A
1954-11-08		D	62611		2926.38	NAVD88	1	Z			A
1954-11-08		D	72019	35.62			1	Z			A


Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.





APPENDIX B

Lithologic/Soil Sampling Logs

								Sample Name: SS07		Date: 5/26/2023	
								Site Name: Harroun Ranch #005			
								Incident Number: nAPP2200455573			
								Job Number: 03C2012034			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Peter Van Patten		Method: Backhoe	
Coordinates: 32.284192,-104.00041								Hole Diameter:		Total Depth: 1'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Damp	ND	0.1	N	SS07A	1	0	SP-SM	Sand: Brown, fine grain, moderately graded, abundant white caliche gravel, no stain, no odor			
						1		Refusal after 1' bgs			
						2					
						3					
						4					
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					

								Sample Name: SS08		Date: 5/26/2023	
								Site Name: Harroun Ranch #005			
								Incident Number: nAPP2200455573			
								Job Number: 03C2012034			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Peter Van Patten		Method: Backhoe	
Coordinates: 32.284272,-104.000662								Hole Diameter:		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Damp	ND	0.1	N			1	CHHE	Caliche: tan, light brown, no stain, no odor			
Damp	526	0.1	N	SS08A	2	2	CHHE	Caliche: tan to brown, some gray/green concrete, no stain, no odor			
Damp	ND	0.1	N			3	SP-SM	Sand: brown, light brown, fine grain, moderately graded, some caliche gravel, no stain, no odor			
Damp	526	0.1	N	SS08B	4	4	SP-SM	Sand/Caliche: light tan, brown, gray, red, fine grain, poorly graded, some concrete, no stain/odor			
						5					
						6					
						7					
						8					
						9					
						10					
						11					
						12					

								Sample Name: SS10		Date: 5/26/2023	
								Site Name: Harroun Ranch #005			
								Incident Number: nAPP2200455573			
								Job Number: 03C2012034			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Peter Van Patten		Method: Backhoe	
Coordinates: 32.284372,-104.000758								Hole Diameter:		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Damp	526	0.1	N	SS10	1	1	CHHE	Caliche: light tan, pinkish tan, some gravel, no stain, no odor			
Damp	212	3.7	N			2	CHHE	SAA (same as above): no stain, slight hydrocarbon odor			
Damp	257	2.2	N	SS10A	3	3	CHHE	SAA: no stain, slight hydrocarbon odor			
Damp	176	10.5	N			4	CHHE	SAA: no stain, hydrocarbon odor			
						5		TD at 4' bgs			
						6					
						7					
						8					
						9					
						10					
						11					
						12					

								Sample Name: SS11		Date: 5/26/2023	
								Site Name: Harroun Ranch #005			
								Incident Number: nAPP2200455573			
								Job Number: 03C2012034			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: Peter Van Patten		Method: Backhoe	
Coordinates: 32.284131,-104.000622								Hole Diameter:		Total Depth: 4'	
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water. 40% factors included.											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
						0					
Damp	ND	0.1	N	SS11	1	1	CHHE	Caliche/Sand: light tan, brownish tan, fine grain, poorly graded, some gravel, no stain, no odor			
Damp	212	0.1	N	SS11A	2	2	CHHE	SAA (same as above)			
Damp	176	0.1	N			3	CHHE	SAA			
Damp	ND	0.1	N			4	CHHE	SAA			
						5		TD at 4' bgs			
						6					
						7					
						8					
						9					
						10					
						11					
						12					



APPENDIX C

Photographic Log



Photographic Log
BTA Oil Producers, LLC
Harroun Ranch #005
nAPP2200455573



Photograph: 1 Date: 5/5/2023
Description: Soil staining in release footprint
View: Southeast



Photograph: 2 Date: 5/24/2023
Description: Excavation activities
View: Northwest



Photograph: 3 Date: 5/25/2023
Description: Excavation activities
View: Northeast



Photograph: 4 Date: 5/30/2023
Description: Completed excavation activities
View: Southeast



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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

May 11, 2023

HADLIE GREEN

ENSOLUM

3122 NATIONAL PARKS HWY

CARLSBAD, NM 88220

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/08/23 14:27.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

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

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 01 @ 0.5' (H232262-01)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/09/2023	ND	1.99	99.7	2.00	15.7	
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3	
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9	
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1	
Total BTEx	<0.300	0.300	05/09/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/09/2023	ND	432	108	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	220	110	200	1.72	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	207	103	200	1.35	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 112 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 02 @ 0.5' (H232262-02)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/09/2023	ND	1.99	99.7	2.00	15.7		
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3		
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9		
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1		
Total BTEx	<0.300	0.300	05/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 110 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/09/2023	ND	432	108	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 03 @ 0.5' (H232262-03)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/09/2023	ND	1.99	99.7	2.00	15.7		
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3		
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9		
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1		
Total BTEx	<0.300	0.300	05/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/09/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 90.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 112 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 04 @ 0.5' (H232262-04)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/09/2023	ND	1.99	99.7	2.00	15.7		
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3		
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9		
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1		
Total BTX	<0.300	0.300	05/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	05/09/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 91.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 05 @ 0.5' (H232262-05)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/09/2023	ND	1.99	99.7	2.00	15.7		
Toluene*	<0.050	0.050	05/09/2023	ND	1.94	97.0	2.00	14.3		
Ethylbenzene*	<0.050	0.050	05/09/2023	ND	2.03	102	2.00	13.9		
Total Xylenes*	<0.150	0.150	05/09/2023	ND	5.97	99.5	6.00	14.1		
Total BTEx	<0.300	0.300	05/09/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	14000	16.0	05/09/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	1390	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	273	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 85.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 06 @ 0.5' (H232262-06)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7		
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2800	16.0	05/09/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	2790	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	479	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 94.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 07 @ 0.5' (H232262-07)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7		
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1		
Total BTX	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 113 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/09/2023	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	<10.0	10.0	05/11/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	<10.0	10.0	05/11/2023	ND					

Surrogate: 1-Chlorooctane 110 % 48.2-134

Surrogate: 1-Chlorooctadecane 120 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 08 @ 0.5' (H232262-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7		
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 112 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/09/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	198	99.1	200	2.48	
DRO >C10-C28*	26.1	10.0	05/09/2023	ND	193	96.6	200	0.488	
EXT DRO >C28-C36	<10.0	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 98.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM
HADLIE GREEN
3122 NATIONAL PARKS HWY
CARLSBAD NM, 88220
Fax To:

Received: 05/08/2023
Reported: 05/11/2023
Project Name: HARROUN RANCH #005
Project Number: 03C2012034
Project Location: BTA - (32.28407-104.00095)

Sampling Date: 05/05/2023
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SS 09 @ 0.5' (H232262-09)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2023	ND	1.99	99.7	2.00	15.7		
Toluene*	<0.050	0.050	05/10/2023	ND	1.94	97.0	2.00	14.3		
Ethylbenzene*	<0.050	0.050	05/10/2023	ND	2.03	102	2.00	13.9		
Total Xylenes*	<0.150	0.150	05/10/2023	ND	5.97	99.5	6.00	14.1		
Total BTEx	<0.300	0.300	05/10/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3120	16.0	05/09/2023	ND	416	104	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/09/2023	ND	163	81.6	200	5.85	
DRO >C10-C28*	444	10.0	05/09/2023	ND	186	92.9	200	7.87	
EXT DRO >C28-C36	271	10.0	05/09/2023	ND					

Surrogate: 1-Chlorooctane 86.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.1 % 49.1-148

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Notes and Definitions

BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

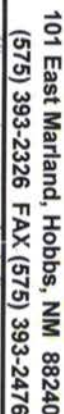
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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 12 of 12



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

June 01, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/26/23 12:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is fluid and cursive, with the first name "Celey" and last name "Keene" clearly distinguishable.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 01 1' (H232699-01)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43	
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43	
Total BTEx	<0.300	0.300	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 68.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 68.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 02 1' (H232699-02)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43		
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43		
Total BTX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 72.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.4 % 49.1-148

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 03 1' (H232699-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43		
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43		
Total BTEX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 04 1' (H232699-04)

BTX 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43		
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43		
Total BTX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 05 1' (H232699-05)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43		
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43		
Total BTEX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 64.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 63.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 06 1' (H232699-06)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43		
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43		
Total BTEX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 73.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 07 1' (H232699-07)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	1.98	98.8	2.00	1.43		
Toluene*	<0.050	0.050	05/26/2023	ND	2.06	103	2.00	1.84		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	1.96	98.0	2.00	2.49		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	6.07	101	6.00	3.43		
Total BTEX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 65.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.9 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 08 1' (H232699-08)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159		
Total BTEx	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 84.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 09 1' (H232699-09)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159		
Total BTEX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 60.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 60.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 10 1' (H232699-10)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/26/2023	ND	432	108	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	10.4	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 73.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 11 1' (H232699-11)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159		
Total BTEx	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 76.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 76.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 12 1' (H232699-12)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEx	<0.300	0.300	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 68.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 67.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 13 1' (H232699-13)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159		
Total BTEx	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 73.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 14 1' (H232699-14)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159		
Total BTEX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 71.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 71.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 15 1' (H232699-15)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159		
Total BTEX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 56.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 54.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 16 1' (H232699-16)

BTEx 8021B		mg/kg		Analyzed By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52	
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87	
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310	
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159	
Total BTEX	<0.300	0.300	05/26/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 90.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 17 1' (H232699-17)

BTEX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159		
Total BTEX	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	199	99.6	200	1.94	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	197	98.6	200	0.855	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 64.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 64.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 18 1' (H232699-18)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/26/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/26/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/26/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/26/2023	ND	5.99	99.8	6.00	0.159		
Total BTEx	<0.300	0.300	05/26/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 79.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 19 1' (H232699-19)

BTX 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159		
Total BTX	<0.300	0.300	05/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 82.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 20 1' (H232699-20)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159		
Total BTEx	<0.300	0.300	05/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 70.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 72.9 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 21 1' (H232699-21)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159		
Total BTEx	<0.300	0.300	05/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 53.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 22 1' (H232699-22)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159		
Total BTEX	<0.300	0.300	05/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 78.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 82.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 23 1' (H232699-23)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159		
Total BTEX	<0.300	0.300	05/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/26/2023	ND	400	100	400	7.69		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 78.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 81.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 24 1' (H232699-24)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159		
Total BTEX	<0.300	0.300	05/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/26/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 84.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 87.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 25 1' (H232699-25)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159		
Total BTEx	<0.300	0.300	05/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/26/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 84.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/26/2023
 Reported: 06/01/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/25/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: FS 26 1' (H232699-26)

BTEx 8021B		mg/kg		Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/27/2023	ND	2.09	104	2.00	4.52		
Toluene*	<0.050	0.050	05/27/2023	ND	2.15	107	2.00	7.87		
Ethylbenzene*	<0.050	0.050	05/27/2023	ND	2.05	103	2.00	0.310		
Total Xylenes*	<0.150	0.150	05/27/2023	ND	5.99	99.8	6.00	0.159		
Total BTEx	<0.300	0.300	05/27/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/26/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/27/2023	ND	180	90.2	200	7.56	
DRO >C10-C28*	<10.0	10.0	05/27/2023	ND	184	91.8	200	6.22	
EXT DRO >C28-C36	<10.0	10.0	05/27/2023	ND					

Surrogate: 1-Chlorooctane 82.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.0 % 49.1-148

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 1 of 3

[illegible]

101 East Marland, Hobbs, NM 88240
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Pg 2 of 3

[illegible]



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

pg 3 of 3

Company Name: Ensolum, LLC		BILL TO		ANALYSIS REQUEST			
Project Manager: Hadlie Green		P.O. #:					
Address: 601 N. Marientfeld St. STE 400		Company: BTA Oil					
City: Midland		State: TX Zip: 79701					
Phone #: 432-557-8895		Fax #:					
Project #: 03C2012		Project Owner:					
Project Name: Harroun Ranch #005		City: Midland					
Project Location: 32.28407, -104.00095		State: TX Zip: 79701					
Sampler Name: Kase Parker		Phone #: 432-312-2203					
		Fax #:					
FOR LAB USE ONLY		MATRIX		PRESERV		SAMPLING	
						500	

[illegible]

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Relinquished By: <i>Chyane</i>	Date: 3/24/13	Received By: <i>WJH</i>	Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #:
	Time: 0720		
Relinquished By: <i>JM/PM</i>	Date: 5-26-23	Received By: <i>Jennica Black</i>	REMARKS:
	Time: 1205		
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C <i>6.4</i> <i>5.8</i>	Sample Condition Cool Intact <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Turnaround Time: <input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush
		CHECKED BY: (Initials) <i>WJH</i>	Thermometer ID #113 Correction Factor -0.5°C <i>5.44</i>
		Bacteria (only) Sample Condition Cool Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	Observed Temp. °C Corrected Temp. °C

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

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

June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:Reported:
09-Jun-23 16:31**Sample ID****Laboratory ID****Matrix****Date Sampled****Date Received**

SS10A 3.0'

H232725-01

Soil

26-May-23 09:35

30-May-23 13:30

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

Cardinal Laboratories

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A handwritten signature in cursive script, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:31

SS10A 3.0'
H232725-01 (Soil)

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

Chloride	240		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)		111 %		71.5-134	3053012	JH/	30-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	16.8	10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3053014	MS	30-May-23	8015B	

Surrogate: 1-Chlorooctane		113 %		48.2-134	3053014	MS	30-May-23	8015B	
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Surrogate: 1-Chlorooctadecane		111 %		49.1-148	3053014	MS	30-May-23	8015B	
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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:31

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water									
Blank (3053010-BLK1)				Prepared & Analyzed: 30-May-23					
Chloride	ND	16.0	mg/kg						
LCS (3053010-BS1)				Prepared & Analyzed: 30-May-23					
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (3053010-BSD1)				Prepared & Analyzed: 30-May-23					
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20

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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:31

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3053012 - Volatiles**Blank (3053012-BLK1)**

Prepared & Analyzed: 30-May-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			

LCS (3053012-BS1)

Prepared & Analyzed: 30-May-23

Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			

LCS Dup (3053012-BSD1)

Prepared & Analyzed: 30-May-23

Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-04
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-04
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	87.3-122	14.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:31

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3053014 - General Prep - Organics**Blank (3053014-BLK1)**

Prepared & Analyzed: 30-May-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			

LCS (3053014-BS1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			

LCS Dup (3053014-BSD1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		88.9	49.1-148			

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 8

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

June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:Reported:
09-Jun-23 16:39

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
-----------	---------------	--------	--------------	---------------

SS08B 4.0'	H232727-01	Soil	26-May-23 09:20	30-May-23 13:30
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06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:39

SS08B 4.0'
H232727-01 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	592		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134 3053012 JH/ 30-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	11.9		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	

Surrogate: 1-Chlorooctane 120 % 48.2-134 3053014 MS 30-May-23 8015B

Surrogate: 1-Chlorooctadecane 121 % 49.1-148 3053014 MS 30-May-23 8015B

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:39

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water									
Blank (3053010-BLK1)									
					Prepared & Analyzed: 30-May-23				
Chloride	ND	16.0	mg/kg						
LCS (3053010-BS1)									
					Prepared & Analyzed: 30-May-23				
Chloride	432	16.0	mg/kg	400		108	80-120		
LCS Dup (3053010-BSD1)									
					Prepared & Analyzed: 30-May-23				
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20

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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:39

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

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

Batch 3053012 - Volatiles**Blank (3053012-BLK1)**

Prepared & Analyzed: 30-May-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			

LCS (3053012-BS1)

Prepared & Analyzed: 30-May-23

Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			

LCS Dup (3053012-BSD1)

Prepared & Analyzed: 30-May-23

Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-04
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-04
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	87.3-122	14.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:39

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

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

Batch 3053014 - General Prep - Organics**Blank (3053014-BLK1)**

Prepared & Analyzed: 30-May-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			

LCS (3053014-BS1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			

LCS Dup (3053014-BSD1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		88.9	49.1-148			

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:Reported:
09-Jun-23 16:43**Sample ID****Laboratory ID****Matrix****Date Sampled****Date Received**

SS08A 2.0'

H232728-01

Soil

26-May-23 09:10

30-May-23 13:30

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

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A handwritten signature in black ink, appearing to read "Coley D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:43

SS08A 2.0'
H232728-01 (Soil)

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

Chloride	96.0		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			109 %	71.5-134		3053012	JH/	30-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	

Surrogate: 1-Chlorooctane			121 %	48.2-134		3053014	MS	30-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			120 %	49.1-148		3053014	MS	30-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:43

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water									
Blank (3053010-BLK1)				Prepared & Analyzed: 30-May-23					
Chloride	ND	16.0	mg/kg						
LCS (3053010-BS1)				Prepared & Analyzed: 30-May-23					
Chloride	432	16.0	mg/kg	400		108 80-120			
LCS Dup (3053010-BSD1)				Prepared & Analyzed: 30-May-23					
Chloride	432	16.0	mg/kg	400		108 80-120	0.00	20	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:43

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3053012 - Volatiles**Blank (3053012-BLK1)**

Prepared & Analyzed: 30-May-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			

LCS (3053012-BS1)

Prepared & Analyzed: 30-May-23

Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			

LCS Dup (3053012-BSD1)

Prepared & Analyzed: 30-May-23

Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-04
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-04
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	87.3-122	14.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:43

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3053014 - General Prep - Organics**Blank (3053014-BLK1)**

Prepared & Analyzed: 30-May-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			

LCS (3053014-BS1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			

LCS Dup (3053014-BSD1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		88.9	49.1-148			

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:Reported:
09-Jun-23 16:46

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
-----------	---------------	--------	--------------	---------------

SS07A 1.0'	H232729-01	Soil	26-May-23 09:00	30-May-23 13:30
------------	------------	------	-----------------	-----------------

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:46

SS07A 1.0'
H232729-01 (Soil)

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

Cardinal Laboratories**Inorganic Compounds**

Chloride	64.0		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
-----------------	-------------	--	------	-------	---	---------	----	-----------	-----------	--

Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134 3053012 JH/ 30-May-23 8021B

Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	

Surrogate: 1-Chlorooctane 121 % 48.2-134 3053014 MS 30-May-23 8015B

Surrogate: 1-Chlorooctadecane 120 % 49.1-148 3053014 MS 30-May-23 8015B

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:46

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water									
Blank (3053010-BLK1)					Prepared & Analyzed: 30-May-23				
Chloride	ND	16.0	mg/kg						
LCS (3053010-BS1)					Prepared & Analyzed: 30-May-23				
Chloride	432	16.0	mg/kg	400		108 80-120			
LCS Dup (3053010-BSD1)					Prepared & Analyzed: 30-May-23				
Chloride	432	16.0	mg/kg	400		108 80-120	0.00	20	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:46

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3053012 - Volatiles**Blank (3053012-BLK1)**

Prepared & Analyzed: 30-May-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			

LCS (3053012-BS1)

Prepared & Analyzed: 30-May-23

Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			

LCS Dup (3053012-BSD1)

Prepared & Analyzed: 30-May-23

Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-04
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-04
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	87.3-122	14.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:46

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 3053014 - General Prep - Organics**Blank (3053014-BLK1)**

Prepared & Analyzed: 30-May-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			

LCS (3053014-BS1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			

LCS Dup (3053014-BS1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		88.9	49.1-148			

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. Keene", is written over a horizontal line.

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N Marientfeld Street, Suite 400

City: Midland State: TX Zip: 79701

Phone #: 432-557-8895 Fax #: Project Owner:

Project #: 03C2012034 Project Name: Harroun Ranch #005

Project Location: 32,28407,-104,00095

Sampler Name: Peter Van Patten

FOR LAB USE ONLY

Lab I.D. Sample I.D. Depth (feet)

103378155 * 107A 1.0'

(G)RAB OR (C)OMP. # CONTAINERS

GROUNDWATER WASTEWATER

SOIL OIL SLUDGE OTHER :

ACID/BASE: ICE / COOL OTHER :

DATE TIME

5-26-23 900

TPH

BTEX

Chlorides

BILL TO

P.O. #:

Company: BTA Oil

Attn: Kevin Jones

Address: 104 S Pecos St

City: Midland

State: TX Zip: 79701

Phone #: 432-312-2203

Fax #:

PRESERV

SAMPLING

ANALYSIS REQUEST

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Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

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Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Relinquished By:

Date: 5-30-23

Time: 1330

Date: 5-30-23

Time: 1330

Date: 5-30-23

Time: 1330

Date: 5-30-23

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Received By:

Verbal Result: ☐ Yes ☒ No Add'l Phone #:

All Results are emailed. Please provide Email address:

Remarks: * Customer requested ID change.

TEMP 10111K. 54°C

5/18/23

5/18/23

5/18/23

5/18/23

5/18/23

5/18/23

5/18/23

5/18/23

5/18/23

Turnaround Time: ☐ Standard ☒ Rush

Thermometer ID #113

Correction Factor -0.5°C

Bacteria (only) ☐ Cool Intact ☐ Yes ☐ No

Sample Condition ☐ Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

Corrected Temp. °C

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

June 09, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at

www.tceq.texas.gov/field/ga/lab_accred_certif.html.

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

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

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

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

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

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:Reported:
09-Jun-23 16:51

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS11 1.0'	H232730-01	Soil	26-May-23 09:45	30-May-23 13:30
SS11A 2.0'	H232730-02	Soil	26-May-23 09:50	30-May-23 13:30

06/09/23 - Client changed the sample ID (see COC). This is the revised report and will replace the one sent on 06/02/23.

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A handwritten signature in black ink, appearing to read "Coley D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:51

SS11 1.0'
H232730-01 (Soil)

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

Chloride	128		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050	0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	<0.050	0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	<0.050	0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	<0.150	0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	<0.300	0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)	106 %	71.5-134	3053012	JH/	30-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0	10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	<10.0	10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0	10.0	mg/kg	1	3053014	MS	30-May-23	8015B	

Surrogate: 1-Chlorooctane	102 %	48.2-134	3053014	MS	30-May-23	8015B	
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Surrogate: 1-Chlorooctadecane	102 %	49.1-148	3053014	MS	30-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:51

SS11A 2.0'
H232730-02 (Soil)

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

Chloride	224		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
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Volatile Organic Compounds by EPA Method 8021

Benzene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Toluene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Ethylbenzene*	<0.050		0.050	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total Xylenes*	<0.150		0.150	mg/kg	50	3053012	JH/	30-May-23	8021B	
Total BTEX	<0.300		0.300	mg/kg	50	3053012	JH/	30-May-23	8021B	

Surrogate: 4-Bromofluorobenzene (PID)			106 %	71.5-134		3053012	JH/	30-May-23	8021B	
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Petroleum Hydrocarbons by GC FID

GRO C6-C10*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
DRO >C10-C28*	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	
EXT DRO >C28-C36	<10.0		10.0	mg/kg	1	3053014	MS	30-May-23	8015B	

Surrogate: 1-Chlorooctane			115 %	48.2-134		3053014	MS	30-May-23	8015B	
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Surrogate: 1-Chlorooctadecane			116 %	49.1-148		3053014	MS	30-May-23	8015B	
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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:51

Inorganic Compounds - Quality Control**Cardinal Laboratories**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water									
Blank (3053010-BLK1)				Prepared & Analyzed: 30-May-23					
Chloride	ND	16.0	mg/kg						
LCS (3053010-BS1)				Prepared & Analyzed: 30-May-23					
Chloride	432	16.0	mg/kg	400		108 80-120			
LCS Dup (3053010-BSD1)				Prepared & Analyzed: 30-May-23					
Chloride	432	16.0	mg/kg	400		108 80-120	0.00	20	

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Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:51

Volatile Organic Compounds by EPA Method 8021 - Quality Control**Cardinal Laboratories**

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

Batch 3053012 - Volatiles**Blank (3053012-BLK1)**

Prepared & Analyzed: 30-May-23

Benzene	ND	0.050	mg/kg							
Toluene	ND	0.050	mg/kg							
Ethylbenzene	ND	0.050	mg/kg							
Total Xylenes	ND	0.150	mg/kg							
Total BTEX	ND	0.300	mg/kg							
Surrogate: 4-Bromofluorobenzene (PID)	0.0542		mg/kg	0.0500		108	71.5-134			

LCS (3053012-BS1)

Prepared & Analyzed: 30-May-23

Benzene	2.14	0.050	mg/kg	2.00		107	81.4-118			
Toluene	2.23	0.050	mg/kg	2.00		112	88.7-121			
Ethylbenzene	2.13	0.050	mg/kg	2.00		106	86.1-120			
m,p-Xylene	4.45	0.100	mg/kg	4.00		111	88.2-124			
o-Xylene	2.13	0.050	mg/kg	2.00		106	84.9-118			
Total Xylenes	6.58	0.150	mg/kg	6.00		110	87.3-122			
Surrogate: 4-Bromofluorobenzene (PID)	0.0529		mg/kg	0.0500		106	71.5-134			

LCS Dup (3053012-BSD1)

Prepared & Analyzed: 30-May-23

Benzene	1.82	0.050	mg/kg	2.00		91.1	81.4-118	15.9	15.8	QR-04
Toluene	1.87	0.050	mg/kg	2.00		93.6	88.7-121	17.6	15.9	QR-04
Ethylbenzene	1.83	0.050	mg/kg	2.00		91.6	86.1-120	14.9	16	
m,p-Xylene	3.86	0.100	mg/kg	4.00		96.6	88.2-124	14.2	16.2	
o-Xylene	1.85	0.050	mg/kg	2.00		92.5	84.9-118	14.0	16.7	
Total Xylenes	5.71	0.150	mg/kg	6.00		95.2	87.3-122	14.1	16.3	
Surrogate: 4-Bromofluorobenzene (PID)	0.0521		mg/kg	0.0500		104	71.5-134			

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND TX, 79705

Project: HARROUN RANCH #005
Project Number: 03C2012034
Project Manager: HADLIE GREEN
Fax To:

Reported:
09-Jun-23 16:51

Petroleum Hydrocarbons by GC FID - Quality Control**Cardinal Laboratories**

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

Batch 3053014 - General Prep - Organics**Blank (3053014-BLK1)**

Prepared & Analyzed: 30-May-23

GRO C6-C10	ND	10.0	mg/kg							
DRO >C10-C28	ND	10.0	mg/kg							
EXT DRO >C28-C36	ND	10.0	mg/kg							
Surrogate: 1-Chlorooctane	38.0		mg/kg	49.6		76.7	48.2-134			
Surrogate: 1-Chlorooctadecane	39.9		mg/kg	50.0		79.8	49.1-148			

LCS (3053014-BS1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	186	10.0	mg/kg	200		92.8	78.5-124			
DRO >C10-C28	164	10.0	mg/kg	200		81.8	72.5-126			
Total TPH C6-C28	349	10.0	mg/kg	400		87.3	77.6-123			
Surrogate: 1-Chlorooctane	41.2		mg/kg	49.6		83.1	48.2-134			
Surrogate: 1-Chlorooctadecane	44.9		mg/kg	50.0		89.7	49.1-148			

LCS Dup (3053014-BSD1)

Prepared & Analyzed: 30-May-23

GRO C6-C10	177	10.0	mg/kg	200		88.3	78.5-124	5.05	17.7	
DRO >C10-C28	157	10.0	mg/kg	200		78.4	72.5-126	4.33	21	
Total TPH C6-C28	333	10.0	mg/kg	400		83.3	77.6-123	4.71	18.5	
Surrogate: 1-Chlorooctane	40.4		mg/kg	49.6		81.5	48.2-134			
Surrogate: 1-Chlorooctadecane	44.5		mg/kg	50.0		88.9	49.1-148			

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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



ANALYSIS REQUEST

Lab I.D.		* Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING DATE	TIME	TPH	BTEX	Chloride
#03A730	SS		<input checked="" type="checkbox"/>	-	GROUNDWATER WASTEWATER <input checked="" type="checkbox"/> SOIL <input checked="" type="checkbox"/> OIL SLUDGE OTHER :	ACID/BASE: <input checked="" type="checkbox"/> ICE / COOL OTHER :	26 5-20-23	945	x x	x x	x x
1	BA		<input checked="" type="checkbox"/>	-			5-20-23	950	x x	x x	x x
2	SS		<input checked="" type="checkbox"/>	-			26				

Page 9 of 9



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

June 02, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 05/30/23 13:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 27 1.0' (H232731-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTX	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	186	92.8	200	5.05	
DRO >C10-C28*	41.9	10.0	05/30/2023	ND	164	81.8	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 120 % 48.2-134

Surrogate: 1-Chlorooctadecane 124 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 28 1.0' (H232731-02)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTEX	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	186	92.8	200	5.05	
DRO >C10-C28*	120	10.0	05/30/2023	ND	164	81.8	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 101 % 48.2-134

Surrogate: 1-Chlorooctadecane 105 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 29 1.0' (H232731-03)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTX	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/31/2023	ND	432	108	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	186	92.8	200	5.05	
DRO >C10-C28*	99.3	10.0	05/30/2023	ND	164	81.8	200	4.33	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 98.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 104 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 30 1.0' (H232731-04)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTEX	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 109 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	81.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 73.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 78.7 % 49.1-148

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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 31 1.0' (H232731-05)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.14	107	2.00	15.9	
Toluene*	<0.050	0.050	05/30/2023	ND	2.23	112	2.00	17.6	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.13	106	2.00	14.9	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.58	110	6.00	14.1	
Total BTX	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 86.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 32 1.0' (H232731-06)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	22.4	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 89.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.5 % 49.1-148

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 33 1.0' (H232731-07)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.2 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	12.4	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 76.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 79.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 34 1.0' (H232731-08)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	16.4	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 82.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 35 1.0' (H232731-09)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	28.9	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 88.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.2 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 36 1.0' (H232731-10)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71		
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92		
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47		
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98		
Total BTEx	<0.300	0.300	05/30/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 94.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 98.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 37 1.0' (H232731-11)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	12.9	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.9 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 38 1.0' (H232731-12)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/30/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/30/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/30/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/30/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	11.8	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 91.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 39 1.0' (H232731-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	14.6	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 95.5 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 40 1.0' (H232731-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	114	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 97.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/26/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 41 1.0' (H232731-15)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	228	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	14.1	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 96.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 106 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 42 1.0' (H232731-16)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 87.6 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.8 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 43 1.0' (H232731-17)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	416	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 44 1.0' (H232731-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 53.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 55.6 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 45 1.0' (H232731-19)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 83.0 % 48.2-134

Surrogate: 1-Chlorooctadecane 85.3 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 46 1.0' (H232731-20)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.3 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 84.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 47 1.0' (H232731-21)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 87.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.7 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 48 1.0' (H232731-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 85.3 % 48.2-134

Surrogate: 1-Chlorooctadecane 88.0 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 49 1.0' (H232731-23)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.4 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/31/2023	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	221	111	200	9.69	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	189	94.7	200	4.38	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 67.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 70.1 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 50 1.0' (H232731-24)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	05/31/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 111 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 51 1.0' (H232731-25)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.11	106	2.00	4.71	
Toluene*	<0.050	0.050	05/31/2023	ND	2.12	106	2.00	5.92	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.17	109	2.00	5.47	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.35	106	6.00	5.98	
Total BTEx	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.6 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	304	16.0	05/31/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 107 % 48.2-134

Surrogate: 1-Chlorooctadecane 109 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 52 1.0' (H232731-26)

BTEx 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/31/2023	ND	2.02	101	2.00	1.67	
Toluene*	<0.050	0.050	05/31/2023	ND	2.10	105	2.00	2.58	
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.00	100	2.00	2.23	
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.17	103	6.00	1.24	
Total BTEX	<0.300	0.300	05/31/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	448	112	400	3.64	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 86.7 % 48.2-134

Surrogate: 1-Chlorooctadecane 90.4 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 53 1.0' (H232731-27)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2023	ND	2.02	101	2.00	1.67		
Toluene*	<0.050	0.050	05/31/2023	ND	2.10	105	2.00	2.58		
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.00	100	2.00	2.23		
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.17	103	6.00	1.24		
Total BTEx	<0.300	0.300	05/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	528	16.0	05/31/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 109 % 48.2-134

Surrogate: 1-Chlorooctadecane 114 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/30/2023
 Reported: 06/02/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 05/30/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 54 1.0' (H232731-28)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/31/2023	ND	2.02	101	2.00	1.67		
Toluene*	<0.050	0.050	05/31/2023	ND	2.10	105	2.00	2.58		
Ethylbenzene*	<0.050	0.050	05/31/2023	ND	2.00	100	2.00	2.23		
Total Xylenes*	<0.150	0.150	05/31/2023	ND	6.17	103	6.00	1.24		
Total BTEx	<0.300	0.300	05/31/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	496	16.0	05/31/2023	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/30/2023	ND	202	101	200	4.72	
DRO >C10-C28*	<10.0	10.0	05/30/2023	ND	191	95.3	200	4.25	
EXT DRO >C28-C36	<10.0	10.0	05/30/2023	ND					

Surrogate: 1-Chlorooctane 108 % 48.2-134

Surrogate: 1-Chlorooctadecane 113 % 49.1-148

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QR-04	The RPD for the BS/BSD was outside of historical limits.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 31 of 33



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Ensolum, LLC

Project Manager: Hadlie Green

Address: 601 N Marientfeld Street, Suite 400

City: Midland

Phone #: 432-557-8895

Project #: 03C2012034

Project Name: Harroun Ranch #005

Project Location: 32.28407, -104.00095

Sampler Name: Peter Van Patten

BILL TO

P.O. #:

Company: BTA Oil

Attn: Kevin Jones

Address: 104 S Pecos St

City: Midland

State: TX Zip: 79701

Phone #: 432-312-2203

Fax #:

ANALYSIS REQUEST

Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							DATE	TIME	TPH	BTEX	Chlorides	
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE						ICE / COOL
11	FS37	1.0'	C	1													
12	FS38		C	1													
13	FS39		C	1													
14	FS40		C	1													
15	FS41		C	1													
16	FS42		C	1													
17	FS43		C	1													
18	FS44		C	1													
19	FS45		C	1													
20	FS46		C	1													

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Relinquished By:

Date: 5-30-23

Time: 1:30

Date: 5-30-23

Time: 1:30

Date: 5-30-23

Time: 1:30

Date: 5-30-23

Time: 1:30

Date: 5-30-23

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Time: 1:30

Date: 5-30-23

Time: 1:30

Date: 5-30-23

Time: 1:30

Date: 5-30-23

Time: 1:30

Date: 5-30-23

Time: 1:30

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Observed Temp. °C

Corrected Temp. °C

Sample Condition

Cool Intact

CHECKED BY:

Initials

Turnaround Time:

Thermometer ID #113

Standard

RUSH

Bacteria (only)

Cool Intact

Sample Condition

Observed Temp. °C

Corrected Temp. °C

Corrected Temp. °C

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



Company Name: Ensolum, LLC	
Project Manager: Hadlie Green	
BILL TO	ANALYSIS REQUEST
P.O. #:	

Address: 601 N Marientfield Street, Suite 400	Company: BTA Oil
City: Midland	State: TX Zip: 79701
Phone #: 432-557-8895	Fax #:
Project #: 03C2012034	Project Owner:
Project Name: Harroun Ranch #005	City: Midland
Project Location: 32,28407,-104.00095	State: TX Zip: 79701
Sampler Name: Peter Van Patten	Phone #: 432-312-2203
	Fax #:

[illegible]

Reinquisitioned By: _____ **Date:** _____

Received By: _____

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Requisitioned By:	Date: 5-30-23		Received By: Speakeingrey	REMARKS: TEMPERATURE = 3.4; SE	Turnaround Time: Standard <input checked="" type="checkbox"/> Rush <input type="checkbox"/>	Thermometer ID #113	Corrosion Factor -0.5°C	Verbal Result: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Add'l Phone #:
	Time: 1:30							All Results are emailed. Please provide Email address: hygene@usdiana.edu		
Delivered By: (Circle One)	Observed Temp. 6.0°C	Corrected Temp. 5.4°C	Sample Condition Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/>	CHECKED BY: (Initials) SE	Bacteria (only) <input type="checkbox"/>	Cool Intact <input type="checkbox"/>	Sample Condition	Observed Temp. °C	Corrected Temp. °C	
† Cardinal cannot accept verbal changes. Please email changes to hygene@usdiana.edu										

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

June 27, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN RANCH #005

Enclosed are the results of analyses for samples received by the laboratory on 06/23/23 9:29.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Mike Snyder". The signature is fluid and cursive, with the first name "Mike" and last name "Snyder" clearly distinguishable.

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 06/23/2023
 Reported: 06/27/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 06/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SS 10 1.0 (H233251-01)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/23/2023	ND	2.28	114	2.00	2.09	
Toluene*	<0.050	0.050	06/23/2023	ND	2.23	112	2.00	2.59	
Ethylbenzene*	<0.050	0.050	06/23/2023	ND	2.11	105	2.00	1.07	
Total Xylenes*	<0.150	0.150	06/23/2023	ND	6.48	108	6.00	0.241	
Total BTEX	<0.300	0.300	06/23/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 108 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	173	86.4	200	0.328	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	163	81.6	200	0.0809	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 80.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 74.8 % 49.1-148

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 06/23/2023
 Reported: 06/27/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 06/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 28A 1.25 (H233251-02)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2023	ND	2.32	116	2.00	9.06		
Toluene*	<0.050	0.050	06/24/2023	ND	2.25	113	2.00	8.28		
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.19	109	2.00	7.07		
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.59	110	6.00	6.62		
Total BTEX	<0.300	0.300	06/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	173	86.4	200	0.328	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	163	81.6	200	0.0809	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 90.4 % 48.2-134

Surrogate: 1-Chlorooctadecane 83.7 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 06/23/2023
 Reported: 06/27/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 06/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 40A 1.25 (H233251-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/24/2023	ND	2.32	116	2.00	9.06		
Toluene*	<0.050	0.050	06/24/2023	ND	2.25	113	2.00	8.28		
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.19	109	2.00	7.07		
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.59	110	6.00	6.62		
Total BTEx	<0.300	0.300	06/24/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	173	86.4	200	0.328	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	163	81.6	200	0.0809	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 98.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 92.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 06/23/2023
 Reported: 06/27/2023
 Project Name: HARROUN RANCH #005
 Project Number: 03C2012034
 Project Location: BTA 32.28407,-104.00095

Sampling Date: 06/21/2023
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS 41A 1.25 (H233251-04)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/24/2023	ND	2.32	116	2.00	9.06	
Toluene*	<0.050	0.050	06/24/2023	ND	2.25	113	2.00	8.28	
Ethylbenzene*	<0.050	0.050	06/24/2023	ND	2.19	109	2.00	7.07	
Total Xylenes*	<0.150	0.150	06/24/2023	ND	6.59	110	6.00	6.62	
Total BTX	<0.300	0.300	06/24/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 71.5-134

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/23/2023	ND	400	100	400	7.69	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	06/23/2023	ND	173	86.4	200	0.328	
DRO >C10-C28*	<10.0	10.0	06/23/2023	ND	163	81.6	200	0.0809	
EXT DRO >C28-C36	<10.0	10.0	06/23/2023	ND					

Surrogate: 1-Chlorooctane 92.8 % 48.2-134

Surrogate: 1-Chlorooctadecane 86.8 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Ensolium, LLC

BILL TO

ANALYSIS REQUEST

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

† Cardinal cannot accept verbal changes. Please email changes to celej.keene@cardinalabsnm.com



APPENDIX E

NMOCD Notifications

From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Cc: [Bratcher, Michael, EMNRD](#); [Hamlet, Robert, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 05/22/2023
Date: Friday, May 19, 2023 1:25:29 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Hadlie Green <hgreen@ensolum.com>
Sent: Thursday, May 18, 2023 11:37 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Nathan Sirgo <nsirgo@btaoil.com>; Kevin Jones <kjones@btaoil.com>; Kelton Beaird <KBeaird@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 05/22/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of May 22, 2023.

- Harroun Ranch #005 / nAPP2200455573
 - Sampling Date: 5/23/2023 @ 9:00 AM MST

- Harroun East Tank Battery / nAPP2204151142
 - Sampling Date: 5/22/2023 @ 9:00 AM MST
- Harroun East Tank Battery / nAPP2202845563
 - Sampling Date: 5/22/2023 @ 9:00 AM MST
- Mesa Dolphin CTB / nAPP2313555368
 - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Mesa 2H Production Facility / nAPP2115531696
 - Sampling Date: 5/25/2023 @ 9:00 AM MST
- Rojo 20 21 Tank Battery / nAPP2123554329
 - Sampling Date: 5/26/2023 @ 9:00 AM MST
- Rojo 38 41 Tank Battery / nAPP2123555001
 - Sampling Date: 5/26/2023 @ 9:00 AM MST
- Mesa 8105 JV-P 004H / nOY1831160155 / nCH1903550822 / nRM2004549559
 - Sampling Date: 5/24-24/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC



From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#); [Bratcher, Michael, EMNRD](#)
Cc: [Bratcher, Michael, EMNRD](#); [Velez, Nelson, EMNRD](#)
Subject: RE: [EXTERNAL] BTA - Sampling Notification - Week of 06/19/2023
Date: Friday, June 16, 2023 2:39:46 PM
Attachments: [image005.jpg](#)
[image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

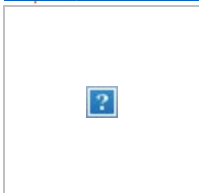
[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
<http://www.emnrd.nm.gov>



From: Hadlie Green <hgreen@ensolum.com>
Sent: Friday, June 16, 2023 10:54 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Kelton Beaird <KBeaird@btaoil.com>
Subject: [EXTERNAL] BTA - Sampling Notification - Week of 06/19/2023

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

All,

BTA anticipates collecting confirmation samples at the following locations the week of June 19, 2023.

- Mesa 30 31 Tank Battery / nAPP2106930621

- Sampling Date: 6/19/2023 @ 9:00 AM MST
- Mesa 8105 JVP #3 Produced Water Line / nRM2016045357
 - Sampling Date: 6/19-20/2023 @ 9:00 AM MST
- Mesa #16H Flowline / nAPP2123156473
 - Sampling Date: 6/21-22/2023 @ 9:00 AM MST
- Harroun Ranch #005 / nAPP2200455573
 - Sampling Date: 6/21/2023 @ 9:00 AM MST

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC





APPENDIX F

Final C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2200455573
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.28407 Longitude: -104.00095

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Harroun Ranch #005	Site Type: Well Pad
Date Release Discovered: 1/3/2022	API# (if applicable) Nearest well: Harroun Ranch #5 API #30-015-46976

Unit Letter	Section	Township	Range	County
P	20	23S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name:)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 953 BBL	Volume Recovered (bbls) 900 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Valve frozen on a sand trap tank caused the tank to overflow and spill on the pad in the vicinity of the well. Recovered 900 BW. Site has been scraped down to rock at depths ranging from 2" to 6" deep across the pad and generated about 80 cubic yards of impacted caliche for disposal. Initial lab samples taken after the scrape are at 600 PPM Chlorides. (Spill calculation spreadsheet attached.)

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? Release exceeded volume of 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Via filing NOR document on NMOCD Permitting Portal that was assigned Incident ID # nAPP2200455573 on 1/4/2022.	

Initial Response

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

- ☒ The source of the release has been stopped.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: **Bob Hall** Title: **Environmental Manager**

Signature:  Date: **1/21/2021**

email: **bhall@btaoil.com** Telephone: **432-682-3753**

OCD Only

Received by: Ramona Marcus Date: 1/24/2022

NAPP2200455573

Location Harroun Ranch 5**API #****Spill Date** 1/3/2022**Spill Dimensions****ENTER** - Length of Spill feet**ENTER** - Width of Spill feet**ENTER** - Saturation Depth of Spill inches**ENTER** - Porosity Factor decimal**Oil Cut - Well Test / Vessel Throughput or Contents**

Oil

Water

Calculated Oil Cut

Volume Recovered in Truck / Containment**ENTER** - Recovered Oil BBL**ENTER** - Recovered Water BBL**Calculated Values**

Release of Oil in Soil - Unrecovered

calculated
 BBL

Release of Water in Soil - Unrecovered

 BBL

Unrecovered Total Release

 BBL**Calculated Values**

Total Release of Oil

calculated
 BBL

Total Release of Water

 BBL

Total Release

 BBL

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

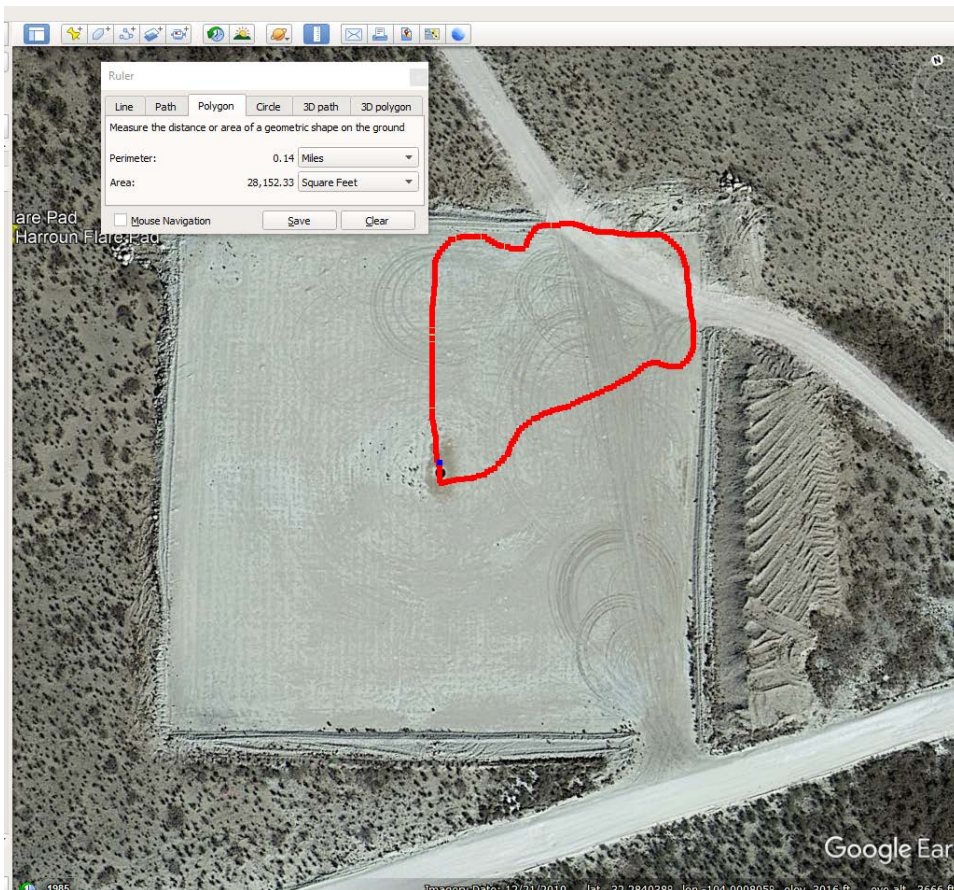
(Length X Width X Depth X 1 ft/12 in) X Porosity5.615 ft³ / BBL

X

Oil Cut
(or Water Cut)

Harroun Ranch #5

NAPP2200455573



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 74204

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 74204
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	1/24/2022

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50 (ft bgs)</u>
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 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.

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kelton Beaird Title: Environmental ManagerSignature: Date: 09/28/2023 email: KBeaird@btaoil.com Telephone: 432-312-2203 **OCD Only**

Received by: _____

Date: _____

Incident ID	nAPP2200455573
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 items must be included in the closure report.*

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kelton Beaird

Title: Environmental Manager

Signature: 

Date: 09/28/2023

email: KBeaird@btaoil.com

Telephone: 432-312-2203

OCD Only

Received by: _____

Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____

Title: _____

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 270258

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 270258
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/18/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/18/2024