

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. BTA Oil Producers, LLC Closure Request Harroun Ranch #005

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 200square 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.



BTA Oil Producers, LLC Closure Request Harroun Ranch #005

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

Sincerely, Ensolum, LLC

Tol A.

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

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TABLES

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				H BT/	TABLE 1PLE ANALYTICAlarroun Ranch #0A Oil Producers,y County, New Me	05 LLC				
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
				Deli	neation Soil Sam	ples				
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
				Exc	avation Soil Sam	ples				
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

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				H. BTA	TABLE 1 LE ANALYTICA arroun Ranch #0 Oil Producers, County, New Magnetic	05 LLC				
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

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				H BT4	TABLE 1LE ANALYTICAarroun Ranch #0Oil Producers,County, New Me	05 LLC				
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=N	W 2=N	E 3=SW	′ 4=SE)			
			(quarter	s are sma	allest to	largest)		(NAD83 U	TM in meters)	
Well Tag	POD	Number	Q64 Q	16 Q4	Sec	Tws	Rng	Χ	Y	
	C 02	2707		2	28	238	29E	595535	3571868* 🌍	
x Driller Lic	ense:	1348	Driller C	ompar	ıy:	TA	IOR W	ATER WE	LL SERVICE	
Driller Nai	me:									
Drill Start	Date:	06/09/2000	Drill Fini	ish Dat	te:	0	5/09/200	00 Pl	ug Date:	
Log File D	ate:	08/28/2000	PCW Rc	v Date	:			So	urce:	Shallow
Pump Type	e:		Pipe Disc	charge	Size:			Es	timated Yield:	700 GPM
Casing Siz	e:	2.38	Depth W	ell:		4) feet	De	epth Water:	18 feet
X	Wate	er Bearing Stratif	fications:	То	op I	Bottom	Descr	iption		
					36	78	Limes	stone/Dolon	nite/Chalk	
X		Casing Per	forations:	То	op I	Bottom	l			
				4	35	4(

*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.

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POINT OF DIVERSION SUMMARY

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STATE ENGINEER OFFICE
WELL RECORD

+7-995+35 of 166 Revised June 1972 HUG31J

Section 1. GENERAL INFORMATION

(A) Owner o	f well <u>IMC</u> Post Office Ad	Kalium Budaran Bu					Owne			•
City and	State <u>Car</u>	lsbad, NI	4 88220							· · · · · · · · · · · · · · · · · · ·
Well was drille	d under Permit	No. C-2	707			and is located	in the:			
a. <u>NE</u>	¼4 ¼	4 ¹ /4	¼ of Se	ection <u>2</u>	28	_ Township _	23 <u>5</u> Rar	nge <u>29E</u>		N.M.P.M.
b. Tract	No	of Map No.		C	of the .					
	lo ivision, recorded				-					
		•					System			
(B) Drilling	Contractor	<u>Faylor Wa</u>	ater We	11 Ser	vic	e	License No	WD-1348		
Address7	317 Etche	everry Ro	1., Car	lsbad,	NM	88220				
Drilling Began	6/9/0	00 Comp	bleted <u>6/</u>	9/00		Type tools	Rotary	Size of h	ole _	<u>6</u> in,
Elevation of la	nd surface or _			a	it well	is <u>IIK</u>	ft. Total depth	of well4	0	ft.
Completed we	ll is 🔽 sl	hallow 🗆 a	rtesian.		Γ	oepth to water	upon completion	of well	18	8 ft.
Donth	in Feet	Υ		CIPAL W	ATER	BEARING ST	TRATA	Detter	4 - 4	x/-14
From	То	Thickness in Feet	·]	Descriptio	n of W	ater-Bearing H	formation	Estima (gallons		
36	40	4	Lime	stone:	brn	vfn xln,	,dolo	70	0	
	•									
<u> </u>	1	· · · · · · · · · · · · · · · · · · ·	Sectio	n 3 RECO	ORD	OF CASING	,	pros. a	,	
Diameter	Pounds	Threads		in Feet		Length	Then a set the	P	erfo	rations
(inches)	per foot	per in.	Тор	Botto	m	(feet)	Type of Sho	e Fro	'n	То
2 3/8	Sch 40	Flush	+2	40		42	Cap	3	<u>,</u>	40
								an in Sing Marina	2	
								1		and an and a second sec
		Secti	on 4. RECO	RD OF M	UDDII	NG AND CEM	ENTING	~~~		
Dep th From	in Feet To	Hole Diameter	Sacl of M			oic Feet Cement	Metho	d of Placeme	nt	
				,						

· · ·			, .			
· ·						
Plugging Contractor		on 5. PLUGGING R	ECORD			
Address Plugging Method	······		No.	Depth Top	in Feet Bottom	Cubic Feet of Cement
Date Well Plugged			1 1			

Plugging Method	INO,	Тор	Bottom	of Cement
Date Well Plugged	1			
Plugging approved by:	2			
	3			
State Engineer Representative	4			· · · · · · · · · · · · · · · · · · ·
FOR USE OF STATE ENGIN Date Received 08-28-2000	EER ONL	.Y	<u> </u>	<u>,</u>

Quad FWL FSL File No. C-2707 Use Monitor 235.29E.28.2

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Section 6. LOG OF HOLE

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by OCD: 9		······	Section 6. LOG OF HOLE Page 1
Depth From	in Feet To	Thickness in Feet	Color and Type of Material Encountered
0	2	2	Soil
2	8	6	Loose cobble+grave1
8	16	8	Caliche
16	36	20	Clay:pnk,sndy
36	40	4	Limestone:brn,vfn-micxln,very_dolomitic,fractured
			· · · · · · · · · · · · · · · · · · ·
		<u> </u>	
`			

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.

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 appacturately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) Section 5 need be completed.

Driller

STATE ENGINEER OFFICE WELL RECORD

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444312

Section 1. GENERAL INFORMATION

Street or City and	Post Office Add	dress <u>BO</u>	<u>x 71</u>			Owner's	· ·	
/ell was drillec	l under Permit l	No. <u>C-27</u>	07		and is located i	in the:		
a. <u>NE</u>	_ ¼ ¼		¼ of Sec	tion_28	_ Township	235 Range	<u>29E</u>	N.M.P.M
b. Tract	No	of Map No.		of the			<u> </u>	
	o (vision, recorded							
						ystem		
B) Drilling (Contractor]	Caylor Wa	iter Wel	1 Servic	e	_ License NoW	D <u>-1348</u>	
ddress7	317 Etche	everry Rd	1., Carl	sbad, NM		· · · · · · · · · · · · · · · · · · ·		
	nd surface or		<u>. </u>		isUK	ft. Total depth of	f well	
		Sect	tion 2. PRIN	CIPAL WATER			I weil	
	in Feet	Thickness		CIPAL WATER	-BEARING ST	RATA	Estimated	Yield
From	То	Thickness in Feet		CIPAL WATER Description of W	-BEARING ST Vater-Bearing F	RATA	Estimated (gallons per	Yield
		Thickness	Limes	CIPAL WATER Description of W stone:brn	-BEARING ST Vater-Bearing F	RATA	Estimated	Yield
From	То	Thickness in Feet	Limes	CIPAL WATER Description of W	-BEARING ST Vater-Bearing F	RATA	Estimated (gallons per	Yield
From	То	Thickness in Feet	Limes	CIPAL WATER Description of W stone:brn	-BEARING ST Vater-Bearing F	RATA	Estimated (gallons per 700	Yield
From	То	Thickness in Feet	Limes xln,	CIPAL WATER Description of W stone:brn	-BEARING ST Vater-Bearing F , off wht d	RATA	f Estimated (gallons per 700	Yield
From 36 Diameter	To 78 Pounds	Thickness in Feet 42 Threads	Limes xln, Section Depth	CIPAL WATER Description of W stone:brn fracture n 3. RECORD (in Feet	-BEARING ST Vater-Bearing F , off wht d OF CASING Length	RATA ormation ,pnk,mic	Festimated (gallons per 700	Yield minute)
From 36	<u>To</u> 78	Thickness in Feet 42	Limes x1n, Section	CIPAL WATER Description of W stone:brn fracture n 3. RECORD (-BEARING ST Vater-Bearing F , off wht d OF CASING	RATA	r Estimated (gallons per 700	Yield minute)
From 36 Diameter	To 78 Pounds	Thickness in Feet 42 Threads	Limes xln, Section Depth	CIPAL WATER Description of W stone:brn fracture n 3. RECORD (in Feet	-BEARING ST Vater-Bearing F , off wht d OF CASING Length	RATA ormation ,pnk,mic	Festimated (gallons per 700	Yield minute)

Depth	in Feet	Hole	Sacks	Cubic Feet	Method of	Placement	
From	То	Diameter	of Mud	of Cement	 Method Of		
						tet i sis	·.
		i l			 		
		,					
			······································			1.1	

Section 5. PLUGGING RECORD

00 0				Depth in Feet		Cubic Feet	
Plugging Method			No	Тор	Bottom	of Cement	
Date Well Plugge	d		1				
lugging approved by:			2				
			3				
	State	Engineer Representative	4				
······		FOR USE OF STATE ENG	GINEER ONLY	······			
Date Received	08-28-2000						
		Quad _		FW	L'	FSL	
File No	C-2707	Use Monit	tor r		23S.29E.	28.2	

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Received by OCD: 9/28/2023 2:02:28 PM

Depth	in Feet	Thickness	Color and Type of Material Encountered
From	То	in Feet	
0	3	3	Soil
3	86	50	Looseslime+dolo grave1+cobble
8 õ	36	28	Clay:rd,sme sndy
36	46	10	Ls:brn,vfn-micx1n,dolomitic,losing returns
46	52	6	Ls:off wht, pnk, vfin x1n, vry dolomitic, losing retur
52	56	4	Shale:rd,sme anhy
56	78	32	LS:1t gry,dns,vry dolomitic,sme 1t gry+ch1ky
78	142	64	Clay:rd,smth,sme wht anhy,sme gry siltstone
142	182	60	Clay:blu gry,sft,smth
182	208	26	Clay:rd,sme whtanhy,tr gry siltstone,sme rd anhy
208	213.5	5.5	Anhy:wht,gry,sme gyp
1			

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 the form is used as a plugging record, only Section and Section 5 need be completed. Released to Imaging: 3/18/2024 11:08:38 AM

USESe32161516192826931232528265.30.331322

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.

Table of data	Output formats	
Tab-separated data		
Graph of data		

Date \$	Time \$	Ø Water-level date-time accuracy	Parameter ¢ code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical \$ datum	Ø Status ≎	Method of measurement	Ø Measuring ≎ agency	Ø Source of measurement ≎	0 Water-level approval status	0
1954-11-08		D	62610		2924.82	NGVD29	1	Z				А
1954-11-08		D	62611		2926.38	NAVD88	1	Z				A
1954-11-08		D	72019	35.62			1	Z				А

		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 Released to Imaging: 3/18/2024 11:08:38 AM		Not determined
Keleased to Imaging: 3/18/2024 11:08:38 AM Water-level approval status	A	Approved for publication Processing and review completed.

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APPENDIX B

Lithologic/Soil Sampling Logs

E N S O L U M Sample Name: SS07 Date: Site Name: Harroun Ranch #005 Incident Number: nAPP2200455573	
	5/26/2023
LE IN S V L V IVI Incident Number: nAPP2200455573	
Job Number: 03C2012034	
LITHOLOGIC / SOIL SAMPLING LOG Logged By: Peter Van Patten Metho	od: 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. Ch performed with 1:4 dilution factor of soil to distilled water. 40% factors included.	hloride test
Moisture Content (ppm) Vapor Vapor Vapor Vapor Vapor Chloride (ppm) Vapor Vapor Chloride (ppm) (ppm) Chloride (ppm) (ppm) Chloride (ppm) Chlo	ons
Damp ND 0.1 N SS07A 1 1 SP-SM Sand: Brown, fine grain, moderath 2 2 Refusal after 1' bgs 4 5 6 7 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	v graded, o stain, no odor

								Sample Name: SS08	Date: 5/26/2023	
				C				Site Name: Harroun Ranch #005		
				3	ΟΙ			Incident Number: nAPP2200455	573	
								Job Number: 03C2012034		
		LITHOL	OGI	C / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten	Method: Backhoe	
Coordin	nates: 32	.284272,	-104.	000662				Hole Diameter:	Total Depth: 4'	
					ith HACH Chl to distilled v			PID for chloride and vapor, respectively in the second s	ctively. Chloride test	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic De	escriptions	
					T	0				
Damp	ND	0.1	N		-	- - - 1 -	СННЕ	Caliche: tan, light brown, r	no stain, no odor	
Damp	526	0.1	Ν	SS08A	2	2	CHHE	Caliche: tan to brown, som no stain, no odor	ne grav/green concrete,	
Damp	ND	0.1	Ν		-	3	SP-SM	Sand: brown, light brown, fine grain, moderatel graded, some caliche gravel, no stain, no odor		
Damp	526	0.1	Ν	SS08B	4	4	SP-SM	Sand/Caliche: light tan, bro grain, poorly graded, some TD at 4' bgs	own, gray, red, fine e concrete, no stain/odor	
					-	5				
					-	6				
					-	7				
					-	8				
					-	9				
					-	10				
					-	11				
					-	12				

								Sample Name: SS10	Date: 5/26/2023	
				C				Site Name: Harroun Ranch #005	54(0) 20/2025	
				2	ΟΙ			Incident Number: nAPP22004555	73	
								Job Number: 03C2012034		
		LITHOL	OGIO	C / SOIL S	AMPLING	LOG		Logged By: Peter Van Patten Method: Backhoe		
Coordi	nates: 32							Hole Diameter:	Total Depth: 4'	
			-		ith HACH Ch to distilled v		•	PID for chloride and vapor, respec cluded.	tively. Chloride test	
Moisture Content					(ft bgs)	USCS/Rock Symbol	Lithologic Descriptions			
Damp Damp		0.1 3.7	N	SS10				Caliche: light tan, pinkish ta no stain, no odor SAA (same as above): no st odor		
Damp	257	2.2	N	SS10A	3	3	СННЕ	SAA: no stain, slight hydroc	carbon odor	
Damp	176	10.5	Ν		. 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1 . 1		CHHE	<u>SAA: no stain. hvdrocarbon</u> TD at 4' bgs	odor	

								Sample Name: SS11	Date: 5/26/2023
				C	ΟΙ		RA		5
				3				Incident Number: nAPP220045	5573
								Job Number: 03C2012034	
	l	LITHOL	OGI	C / SOIL S	AMPLING	i LOG		Logged By: Peter Van Patten	Method: Backhoe
Coordir	nates: 32	.284131,	-104.	000622				Hole Diameter:	Total Depth: 4'
		Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test vith 1:4 dilution factor of soil to distilled water. 40% factors included.						ectively. Chloride test	
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	SS11	1 - 1		СННЕ	Caliche/Sand: light tan, b poorly graded, some grav	rownish tan, fine grain, vel, no stain, no odor
Damp	212	0.1	Ν	SS11A	2	2	CHHE	SAA (same as above)	
Damp	176	0.1	Ν		-	3	CHHE	SAA	
Damp	ND	0.1	Ν		-	4	CHHE	SAA TD at 4' bgs	
					-	- - 5 -			
					-	6			
					-	- - 7 -			
					-	8			
						9			
					-	10			
					-	11			
						- 12			



APPENDIX C

Photographic Log

Released to Imaging: 3/18/2024 11:08:38 AM





APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	112 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	108 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
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	05/09/2023	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109 9	% 49.1-14	8						

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager


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

Received:	05/08/2023	Sampling Date:	05/05/2023
Reported:	05/11/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA - (32.28407-104.00095)		

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

BTEX 8021B	mg/	kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

Sample I.D. Sample I.D. Sampl	PLEASE NOTE: Liability and Damages. C analyses. All claims including those for no service. It no overst shall Cardinal be labol affailanger successors arising out of or rel Relinquished By: Relinquished By: Relinquished By: Sampler - UPS - Bus - Ot	to see the second	Project Name: Project Location: Sampler Name: FOR LAB USE OWLY	Company Name: Project Manager: Address: City: Phone #:
P.O. # P.O. # P.O. # P.O. # P.O. # Company: And Address: Address: Phone #: P.O. # City: Address: Address: Phone #: P.O. # City: Address: Address: Phone #: P.O. # Phone # Phone # Phone # Phone # Phone # Phone #	Andhar's lability and client's exclusive nem of providence and any other cause whatsoever the for incident or consequential damages and to the performance of generatic damages and to the performance of generatic damages Time: Date: Time: Date: Time: Corrected Tem	5502 Dis 5502 Dis 550	Sample I.E	aborator of East Marland, Hobbs, N (575) 393-2326 FAX (575) (575) 572-359 (575) 572-3
	cr any claim arising whether based in contract or text be deemed waveed unless made in writing and received by Cardinal, regardless of whether such claim is based by Cardinal, regardless of whether such claim is based Received By: Received By: Cool Intact Cool Intact Cool Intact	<pre># CC GRO WAS SOIL OIL SLUI OTH ACID ICE / OTH</pre>	AB OR (C)OMP. INTAINERS UNDWATER TEWATER DGE ER: /BASE: COOL ER: VBASE:	2/12 Attn: Me Address:
	Paid by the client for the after completion of the applicable by client, its subditaines, reasons or otherwise. Turnaround Time: Standard Thermonneter ID #113 Thermonneter ID #113		STEX TPH	

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1



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	68.6	% 49.1-14	8						

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*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.2	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	63.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.9	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.9	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	60.8	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.3	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	76.6	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	432	108	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	67.1	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.7	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/26/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	71.0	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	54.0	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	64.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.6	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	72.9	% 49.1-14	8						

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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg,	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	55.9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	82.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	81.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.3	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/26/2023	Sampling Date:	05/25/2023
Reported:	06/01/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012	Sample Received By:	Tamara Oldaker
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d 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	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.0	% 49.1-14	8						

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*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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

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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

A claims FS08 10:30 9 FS09 10:35 10:35 9 FS10 V V 10:40 10:35 PLEASE NOTE: Labity and Damages. Cardinal's liabity and client's exclusive remote/for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waked unless made in withing and received by Cardinal within 30 days after completion of the applicable artifuses are uncessors and airong other cause whatsoever shall be deemed waked unless made in whiting and received by Cardinal within 30 days after completion of the applicable artifuses are uncessors or diservice. In the event shall Cardinal be be performance of tervices hereinder Windel mattern, buairess interruptions, loses of use, or lose of ports brows taked comments or diservice. Verbal Result: No Relinquished By: Date: Time: Verbal Result: NII Results are em MUM Time: Date: Verbal Result: NII Results are em MUM Time: Time: Verbal Result: NII Results are em MUM Time: Time: NIII Result NIII Results are em MUM Time: Time: NIII Result NIII Result NIII Result MUM Time: Time: NIIII	EASE NOTE: Liably and Damages. In Appear. All claims including those for n analyses. All claims including those for n analyses or successories arising out of or n Relinquished By: Relinquished By:	FS FS FS FS FS FS FS FS FS FS FS FS FS F	FSU	1 ability and Day			1	2 ES	6 FS06	FS05	4 FS04	3 FS03	2 FS02	/ FS01		FOR LAB USE ONLY	Sampler Name: Kase i	on:	Project Name: Harrour	Project #: 03C2012	Phone #: 432-557-8895	City: Midland	Address: 601 N. Marie	Project Manager: Had	Company Name: Ens	101 Ea: (575)	
n	over	1	J	egligence and any other co se for incidental or consequination of the sector of the se	10 Cardinal's liability and clien	60	80	FS07	96	05	04	03	02	01	Sample I.D.		Kase Parker	32.28407, -104.00095	Harroun Ranch #005				601 N. Marienfeld St. STE 400	Hadlie Green	Ensolum, LLC	st Marland, Ho 393-2326 FA	RDI
L'UR'	Date: S-26-23 Time: SAC 0	Time: 0170	Date: 2/ 24/03	ause whatsoever shall be d uental damages, including of services hereunder by Ca	V semiusive remedy for an	~//							-	1.	Sample Depth (feet)			5		Project Owner:	Fax #:	State: TX	00			101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	DINAL ratories
I Sampl	Received By:	Mall	Received/By:	e deemed waived unless made ng without limitation, business i Cardinal, regardless of wheth	3 <u> </u>								1		(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL	/M						Zip: 79701				40 76	011
Sample Condition CH Cool Intact	all un	M		cause whitsoever shall be deemed waiwed unless made in writing and received by Cardinal within 30 days after completion of the s quertal damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subaidiaries of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	and an comfract or tart shall be in									S	OIL SLUDGE OTHER :	MATRIX PRESERV.	Fax #:	Phone #:	State: TX	City: Mi	Address:	Attn: Ke	Company:	P.O. #:	Contraction of the second		
(Initials)	Me			ardinal within 30 days after o loss of profits incurred by die any of the above stated reas	be limited to the amount paid I	/							->	5/25/23	OTHER :	RV SAMPLING		432-312-2203	X Zip: 79701	Midland	104 S Pecos	Kevin Jones	: BTA Oil		BILL TO		10
Turnaround Time: Thermometer ID #1	REMARKS:	BJennings@ensol	Verbal Result:	completion of the a ent, its subsidiaries, ions or otherwise.	10:45 by the client for the	10:40	10:35	10:30	10:25	10:20	10:15	10:10	10:05	10:00	TIME	LING		ω	01		St				100		CHAIN-OF-C
Time:		@ensolur	re emaile		VV								-	X X	BTEX TPH									_			
Standard Rush		um.com hgre	Yes Ves Vo Add'l Phone #: Ied. Please provide Email address:		W	4								×	Chlorides 45	50	0								A		JSTODY A
Bacteria (only Cool Intact		hgreen@ensolum.com	dd'l Phone #: Email address:																						ANALYSIS REC	PS	ND ANALY
Bacteria (only) Sample Condition Cool Intact Observed Temp. °C		Som																							REQUEST	PG 1 of 5	USTODY AND ANALYSIS REQUEST

Page 29 of 31

@cardinallabsnm.com	ley.keene@	nges to ce	Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	ot accept verbal ch	† Cardinal cann	K 3.2 10/07/21	P UKW-UUD
5day Ques Ves	er ID #113 ector -0.5°C	Thermometer ID Correction Factor	P	8 AYes AYes	Corrected Temp. *C 5		Sampler - UPS - Bus - Other:
Standard Bacteria (only) Sample Condition	d Time:	Turnaround Time:	(Initiafs)		Observed Temp. "C Cr		Delivered By: (Circle One)
		REMARKS:	Malate	Ceived By:	Time: 205 Received By:	d By: MM	Relinquished By:
.com hgreen@ensolum.com	BJennings@ensolum.com	BJennin	•	MMM	Time: 0770	for	Kw
Verbal Result: Verbal Result:	are emailed	All Results		Received By:	Date: Hulz3 Re	N	Relinquished By:
	, B	stent, its subsidiar asons or otherwis	sampee, we cannot a muturing store on registering and our concernment municipal without limitation, business interruptions, loss of use, of loss of profils incurred by client, its subeidiaries service. In no event shall Cardrale faults for including under an under the service of the service of the service shall be above stated reasons or otherwise. affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.	t limitation, business interruptions regardless of whether such clair	quental damages, including withou of services hereunder by Cardinal	Cardinal be liable for incidental or conse ising out of or related to the performance	arranyees, ne carrie income service. In no event shall C affiliates or successors arisi
	he applicable	int paid by the client for the is after completion of the a	PLEASE NOTE: Lability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or fort, shall be limited to the amount pad by the client for the non-tool and the second second and the second second second waived unless made in writing and tooched by Cardinal within 30 days after completion of the applica	n ansing whether based in contra d waived unless made in writing a	ent's exclusive remedy for any clain cause whatsoever shall be deemer	nd Damages. Cardinal's liability and clines there are shown for newlinearce and any other	PLEASE NOTE: Labity an
	W W	11:35	W	W W	V	FS20	20
	1	11:30				FS19	61
		11:25				FS18	81
		11:20				FS17	11
		11:15				FS16	16
		11:10				FS15	2
		11:05				FS14	14
		11:00				FS13	21
	-	10:55			-	FS12	12
X	XX	10:50	5/25/23		1' C	FS11	//
Chlorides 4	BTEX TPH	TIME	OTHER : ACID/BASE: ICE / COOL OTHER :	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	(feet) (G)RAB OR (C)OMP	Sample I.D.	Lab I.D.
50		SAMPLING	PRESERV. SAME	MATRIX	1		FOR LAB USE ONLY
0			Fax #:			Kase Parker	Sampler Name:
		33	Phone #: 432-312-2203		35	1: 32.28407, -104.00095	Project Location:
		79701	State: TX Zip: 79			Harroun Ranch #005	Project Name:
	_		City: Midland		Project Owner:	03C2012	Project #: 030
		St	Address: 104 S Pecos		Fax #:	432-557-8895	e#:
			Attn: Kevin Jones	79701	State: TX Zip:		City: Midland
			Company: BTA Oil		400	STE	Address: 601
			P.O. #:				Project Manager:
ANALYSIS REQUEST			BILL TO				Company Name:
pg 2 ot s			ē.		obbs, NM 88240 X (575) 393-2476	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	
	OF-CU	CHAIN-	2		ratories	aboratorie	

Relinquished By:	PLEASE NOTE: Liability and Damages. Candinal's liability and client's exclusive rem numiyees. All claims including those for negligence and any other cause whatever service. In no event shall Cardinal be liable for incidential or consequential damages atfiliates or successor arising out of or related to the performance of tenricen hereus Relinquished By: Date: //	/	25 FS25		22 FS22		Lab I.D. Samp	Sampler Name: Kase Parker	Project Location: 32.28407	Project Name: Harroun Ranch #005	Project #: 03C2012	Phone #: 432-557-8895	City: Midland	Address: 601 N. Marienfeld St. STE 400	Project Manager: Hadlie Green	Company Name: Ensolu	101 East I (575) 39:	Labo
	edy for any c shall be dee including will nder by Card	K					Sample I.D. (feet) (G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER	ker	32.28407, -104.00095	~	Project Owner:	Fax #:	State: TX Zip: 79701	Id St. STE 400	Green	Ensolum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	POINAL Dratories
BY: Sample Condition Cool Intact Cool Intact No No No Pres II Yes No No No No Please email changes. Please email changes.	r based in contract or tort, shall be limited to the amou mode in writing and reached by Cardinal within 30 day ness interruptions, loss of use, or loss of profits incurre further such claim is based upon any of the above star references.					S 5/25/23	WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	Fax #:	#: 432-312-	TX Zip:	0	Address: 104 S Pecos		Company: BTA Oil		BILL TO		
me: Multiple Received By: Buennings@ensolum.com hgreen@ensolum.com te: 2.2.3 Received By: Buennings@ensolum.com hgreen@ensolum.com te: 2.2.3 Received By: Remarks: Buennings@ensolum.com hgreen@ensolum.com te: 2.2.3 Received By: Remarks: Buennings@ensolum.com hgreen@ensolum.com te: 2.2.3 Sample Condition CHECKEp/BY: Turnaround Time: Standard Bacteria (only) Sample Condition cool Image: Cool Image: Standard Bacteria (only) Sample Condition cool Image: Cool Image: Standard Bacteria (only) Sample Condition cool Image: Cool Image: Rush Cool Intact Observed Temp.*C cool No No No No No Ocrreacted Temp.*C Nc Nc No No Corrected Temp.*C cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Nc No No Corrected Temp.*C	an paid by the client for the splicable of by dent is subdefined. In the splicable of by dent is subdefined. Ind reasons or obcevitie.			11:50		/23 11:40 X X X	TTE SAMPLING BTEX TPH Chlorides 4500	0	2-2203	79701		ecos St		IIC		TO ANALYSIS REQUEST	Eta E Bd	CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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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/qa/lab_accred_certif.html.

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

Method EPA 552.2	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. Keine

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: HARR(oject Number: 03C20 oject Manager: HADLI 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

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager


ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03C				C	Reported: 99-Jun-23 16:3	31
				10A 3.0' 725-01 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	240		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)			111 %	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*	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	
Surrogate: 1-Chlorooctadecane			111 %	49.1	-148	3053014	MS	30-May-23	8015B	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



, os w wideler , we.	Project: HARROUN RANCH #005 oject Number: 03C2012034 ject Manager: HADLIE GREEN Fax To:	Reported: 09-Jun-23 16:31
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Inorganic Compounds - Quality Control

		Cardiı	1al Lab	oratories						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3053010 - 1:4 DI Water										
Blank (3053010-BLK1)				Prepared &	Analyzed:	30-May-23	3			
Chloride	ND	16.0	mg/kg							
LCS (3053010-BS1)				Prepared &	Analyzed:	30-May-23	3			
Chloride	432	16.0	mg/kg	400		108	80-120			
LCS Dup (3053010-BSD1)				Prepared &	Analyzed:	30-May-23	3			
Chloride	432	16.0	mg/kg	400		108	80-120	0.00	20	

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HARROUN RANCH #005705 W WADLEY AVE.Project Number:03C2012034MIDLAND TX, 79705Project Manager:HADLIE GREENFax To:	Reported: 09-Jun-23 16:31	
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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 &	z Analyzed:	30-May-2	3			
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-2	3			
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 &	z Analyzed:	30-May-2	3			
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			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	analyzed:	30-May-2	3			
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 &	z Analyzed:	30-May-2	3			
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 &	z Analyzed:	30-May-2	3			
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			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Company Name: Ensolum, LLC		BILL ID	MINALION	NEWOLO!
Project Manager: Hadile Green		Contraction BTA OIL		
Address: 601 N Marienfeld Street, Suite 400	400	Company. Sin Cit		
City: Midland	State: TX Zip: 79701	Attn: Kevin Jones		
-557-8895		Address: 104 S Pecos St		
	Project Owner:	City: Midland		
Project Name: Harroun Ranch #005		State: TX Zip: 79701		
Project Location: 32.28407104.00095		Phone #: 432-312-2203		
molor Name: Peter Van Patten		Fax #:		
Sampler Name, reter van Fatter	MATDIX	PRESERV SAMPLING	2	
FOR LAB USE ONLY	S ER			
Lab I.D. Sample I.D.	(G)RAB OR (C)O # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TPH BTEX Chiorid	
APOINT		5	XXX	
PLEASE NOTE: Lability and Damages. Cardinal's lability and client analyses. All claims including those for negligence and any other cau analyse. In no search shall Cardinal be liable for incidental or conseque	PLEASE NOTE: Lability and Damages. Caudinal's lability and client's exclusive remoty for any claim anang whisher based in contract or tori shall be limited to the amount paid by the direct to the applicable analyses. All claims including those for negligence and any other cause whateower thall be demited watered unless imade in writing and received by Caudinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whateower thall be demited watered unless imade in writing and received by Caudinal within 30 days after cause whateower that be demited watered unless imade in writing and received by Caudinal within 30 days after cause whateower that be demited watered unless imade in writing and received by Caudinal within 30 days after cause whateower that be demited watered unless imade in writing and received by Caudinal within 30 days after cause whateower that be demited watered unless imade in writing and received by Caudinal within 30 days after cause whateower that be demited watered unless imade in writing and received by Caudinal within 30 days after cause whateower that an analyses. All claims inducting the instead watered are completed within the days between the instead watered water	et or burt, shall be limited to the amount paid by the client for the nd received by Cardinal within 30 days after completion of the a , loss of use, or loss of profils incurred by client, its subsidiarise.	the e applicable ise,	
artiliates or successors arising out of or related to the performance of Relinquished By:	Date: Received By:	or such claim a cases upon any or the above same result. Verbal Result:	Verbal Result:	#: ress:
A later		10MILLA have	hgreen@ensdum.com	
Relinquished By:	Date: Received By:	TCIVIL TCIVIL TCIVIL	20	ET Chauses
Delivered By: (Circle One)	Observed Temp. "C . Or Sample Condition	CHECKED BY:	Standard PO	Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other: Corr	sote	No STO Correction Facto	er ID #113 - O. U 1 - Ves	Yes
FURM-000 K 3.2 10/07/21	+ Cardinal cannot accept verbal cha	iges. Please email chan		

CARDINAL Laboratories

Page 8 of 8

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



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/qa/lab_accred_certif.html.

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

Method EPA 552.2	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. Keine

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: HARR oject Number: 03C20 oject Manager: HADL 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

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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705			Project Num Project Mana	ber: 03C				C	Reported:)9-Jun-23 16:	39
)8B 4.0 727-01 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	592		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds by	y 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 G	C 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	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HARROUN RANCH #005Reported:705 W WADLEY AVE.Project Number:03C201203409-Jun-23 16:39MIDLAND TX, 79705Project Manager:HADLIE GREENFax To:
--

Inorganic Compounds - Quality Control

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HARROUN RANCH #005Reported:705 W WADLEY AVE.Project Number:03C201203409-Jun-23 16:39MIDLAND TX, 79705Project Manager:HADLIE GREENFax To:
--

Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal Laboratorie

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-2	3			
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-2	3			
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-2	3			
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			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project Number: Project Manager:	Reported: 09-Jun-23 16:39
	Fax To:	

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	analyzed:	30-May-2	3			
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 &	z Analyzed:	30-May-2	3			
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 &	z Analyzed:	30-May-2	3			
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			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

-aboratories

Company Nam	(575) 393-2326 FAX (575) 393-2476 Company Name: Ensolum. LLC	AX (575) 393-2	476	BILL TO		ANALYSIS REOLIEST
Project Manage	Project Manager: Hadlie Green			P.O. #:		
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	lite 400		Company: BTA Oil		
City: Midland		State: TX	Zip: 79701	Attn: Kevin Jones		
Phone #: 432-557-8895	57-8895	Fax #:		Address: 104 S Pecos St	St	
Project #: 03C2012034	012034	Project Owner:	a	City: Midland		
Project Name:	Project Name: Harroun Ranch #005			State: TX Zip: 79701	-	
Project Locatio	Project Location: 32.28407,-104.00095	5		432		
Sampler Name:	Sampler Name: Peter Van Patten			Fax #:		
Campion Manine	L COL VOILL CHOR		I MATOIV	SEBVI		
Lab I.D.	Sample I.D.	Depth	WATER	DL	+	rides
HA33737	X X	(feet)	# CONTA GROUND WASTEW SOIL OIL	SLUDGE OTHER : ACID/BAS ICE / COO OTHER : DATE	TIME TP+ BTE	
-	8400AB	4.0,	-	5	X X 026	×
-				1297,		
PLEASE NOTE: Lability and Dami analyses. All claims including those service. In no event shall Cardinal t	nd Damages. Cardinal's liability and client's excluing those for negligence and any other cause what ardinal be liable for incidental or consequental d	ilent's exclusive remedy for a r cause whatsoever shall be requental damages, includin	edy for any claim arising whether based in contra shall be deemed waived unless made in wriling i including without firmlation, business interruption	5 0 2	ount paid by the client for the lays after completion of the applicable red by client, its subsidianies,	
Relinquished By:	Relinquished By:	e of services nereunder by U わらいひろ	Received		Verbal Result: Yes All Results are emailed. Pl	All Results are emailed. Please provide Email address:
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Relinquished By:	Y	Date: Time:	Received By:	(1/2 3.42 Stated the linuses
Delivered By: (Circle One)		Observed Temp. *C	Cool Intact	CHECKED BY:	Turnaround Time: St	Standard A Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other		Corrected Temp. S. 4 2	A Yes A	2	Thermometer ID #113 Correction Factor -0.5°C	
DOD-MOLOU	12/10/07/21					

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

Received by OCD: 9/28/2023 2:02:28 PM

6/8/23



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/qa/lab_accred_certif.html.

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

Method EPA 552.2	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. Keine

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: HARR(oject Number: 03C20 oject Manager: HADLI 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.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: HARROUN RANCH #005 Project Number: 03C2012034 Project Manager: HADLIE GREEN Fax To:					C	Reported:)9-Jun-23 16:	43		
)8A 2.0 728-01 (Se						
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds			16.0			2052010		21.24 22	4500 CL D	
Chloride	96.0		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)			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*	<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

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HARROUN RANCH #005Reported:705 W WADLEY AVE.Project Number:03C201203409-Jun-23 16:43MIDLAND TX, 79705Project Manager:HADLIE GREENFax To:
--

Inorganic Compounds - Quality Control

		Cardir	1al Lab	oratories						
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%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 &	z 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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: Project Number: Project Manager: 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
Batch 3053012 - Volatiles										
Blank (3053012-BLK1)				Prepared &	Analyzed:	30-May-2	3			
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-2	3			
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-2	3			
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			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project Number: Project Manager:	Reported: 09-Jun-23 16:43
	Fax To:	

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	analyzed:	30-May-2	3			
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 &	z Analyzed:	30-May-2	3			
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 &	z Analyzed:	30-May-2	3			
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			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Namo	(5/5) 393-2326 r	FAA (0/0) 303-2410	9/5	BILL TO		ANALYSIS	REQUEST	
Project Manager: Hadlie Green	r Hadlie Green			P.O. #:	_	_		
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	uite 400		Company: BTA Oil				
City: Midland		State: TX	Zip: 79701	Attn: Kevin Jones				
Phone #: 432-557-8895	57-8895	Fax #:		Address: 104 S Pecos St	St .			
Project #: 03C2012034	012034	Project Owner:	a	City: Midland				
Project Name: I	Project Name: Harroun Ranch #005			State: TX Zip: 79701				
Project Locatio	Project Location: 32.28407,-104.00095	95		Phone #: 432-312-2203				
Sampler Name:	Sampler Name: Peter Van Patten			Fax #:				
FOR LAB USE ONLY			MATRIX	PRESERV. SAMPLING		>		
Lab I.D.	Sample I.D.	Depth (feet)			TPH BTEX	Chlorides		
	AHO8BA	2.0'		< >	910 X X	×		+
					4 hur than eilent for the			
PLEASE NOTE: Liability analyses, All claims inclu service. In no event shall	and Damages. Cardinal's liability an ding those for negligence and any of Cardinal be liable for incidental or ci	5 client's exclusive remedy for her cause whatsoever shall b insequental damages, includion	any claim arising whether based in cont e deemed waived unless made in writing ng without limitston, business interruptio	PEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arking whether based in contract or tort, shall be limited to tore amount, peu or your control on the applicable analyzes. All claims including those for negligance and any other cuuse whatsoever shall be deemed waived unless made in writing and received by Cardinal which 30 days after completion of the applicable analyzes. All claims including those for negligance and any other cuuse whatsoever shall be deemed waived unless made in writing and received by Cardinal being in the completion of the applicable service. In no event shall Cardinal be liable for incidential consequential damages, including without inntation, business interruptions, loss of use, or loss of the above stated reasons or otherwise.	r completion of the applicable fent, its subsidiaries, asons or otherwise.			
Relinquished By: Relinquished By: Relinquished By:	By: By: By:	Time:	Received By: Received By: Received By:	Time: Received By:	It: I Yes	B'No Add'I Phone #: Please provide Email address: Num, LEVA UST MY, Juggu	mated ID Char	Sa Sa
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Circle One) - Bus - Other:	Observed Temp. *C Corrected Temp. *C	Cool Intart Cool Intart	Addition CHECKED BY:	Turnaround Time: Thermometer ID #113 Correction Factor -0.5°C	Standard Bacteria (or Rush Cool Intact	Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Ves Yes Nc No Corrected Temp. °C	
				INV I I I I I			1	

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



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/qa/lab_accred_certif.html.

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

Method EPA 552.2	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. Keine

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: HARR oject Number: 03C2C oject Manager: HADL 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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:HARROUN RANCH #005Reported:Project Number:03C201203409-Jun-23 16:46Project Manager:HADLIE GREENFax To:Fax To:						46			
				07A 1.0' 729-01 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	ories					
Inorganic Compounds										
Chloride	64.0		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds b	y 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 G	C 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

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HARROUN RANCH #005705 W WADLEY AVE.Project Number:03C2012034MIDLAND TX, 79705Project Manager:HADLIE GREEN Fax To:	Reported: 09-Jun-23 16:46
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Inorganic Compounds - Quality Control

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

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HARROUN RANCH #005705 W WADLEY AVE.Project Number:03C2012034MIDLAND TX, 79705Project Manager:HADLIE GREENFax To:	Reported: 09-Jun-23 16:46
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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-2	3			
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-2	3			
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-2	3			
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			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HARROUN RANCH #005Reported:705 W WADLEY AVE.Project Number:03C201203409-Jun-23 16:46MIDLAND TX, 79705Project Manager:HADLIE GREEN Fax To:Fax To:	
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Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	Analyzed:	30-May-2	3			
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 &	z Analyzed:	30-May-2	3			
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-2	3			
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			

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Relinquished By: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished PLEASE NOTE: Liability and Damages. Cardin analyses, All claims including those for negliger rervice. In no event shall Cardinal be liable for incide 123212 Sampler Name: Peter Van Patten Project Location: 32.28407,-104.00095 Project Name: Harroun Ranch #005 Project #: 03C2012034 Phone #: 432-557-8895 City: Midland Project Manager: Hadlie Green Address: 601 N Marienfeld Street, Suite 400 Company Name: Ensolum, LLC FOR LAB USE ONLY Lab I.D. ABy. REAL g out of or related to the SS MOTA Sample I.D. (575) 393-2326 FAX (575) 393-2476 and any other cause Observed Temp Date: Time: Time: Date: † Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com What Fax #: Project Owner: 0 Depth State: TX (feet) ages, includ tver shall be de 22 6.0. :+ Received By: Received By: (G)RAB OR (C)OMP 120012 Zip: 79701 # CONTAINERS Cool Intact GROUNDWATER Sample Condition WASTEWATER made in writing and i SOIL MATRIX 5 OIL ns, loss of use, or loss of profits SLUDGE OTHER Phone #: 432-312-2203 State: TX Fax #: City: Midland Attn: Kevin Jones Address: 104 S Pecos St Company: BTA Oil P.O. #: ed by Cardinal within 30 days after completion of the ap ACID/BASE PRESERV CHECKED BY: any of the above ICE / COOL (laitials) OTHER BILL TO Zip: 79701 2-20-23 DATE ed by client, its subsidiaries, SAMPLING baid by the client for the Thermometer ID #113 Turnaround Time: REMARKS: All Results are emailed. Please provide Email address: Verbal Result: JEWID naren Benzolum 300 TIME Factor -0.5°C PH T Yes BTEX X minist Standard Rush × E No hlorides Our Add'I Phone #: 20 ANALYSIS REQUEST Bacteria (only) Sample Condition Cool Intact Observed Temp. Vet Yes Nc No Corrected Temp. uguistid Corrected Temp. °C Observed Temp. °C I D Change 8

Received by OCD: 9/28/2023 2:02:28 PM





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/qa/lab_accred_certif.html.

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

Method EPA 552.2	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. Keine

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: HARR oject Number: 03C2 oject Manager: HADL 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.

Cardinal Laboratories

*=Accredited Analyte

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project: HARROUN RANCH #005 Reported: Project Number: 03C2012034 09-Jun-23 16:51 Project Manager: HADLIE GREEN Fax To:								51	
				511 1.0' 730-01 (Se	oil)					
Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	l Laborat	tories					
Inorganic Compounds										
Chloride	128		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds by	y EPA Method 8	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	
Petroleum Hydrocarbons by G	C 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	
Surrogate: 1-Chlorooctadecane			102 %	49.1	-148	3053014	MS	30-May-23	8015B	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

ENSOLUM, LLC 705 W WADLEY AVE. MIDLAND TX, 79705	Project:HARROUN RANCH #005Reported:Project Number:03C201203409-Jun-23 16:51Project Manager:HADLIE GREENFax To:Fax To:									51
				11A 2.0' 730-02 (Se						
Analyte	Result		porting Limit	Units	Dilution	Batch	Analyst	Analyzed	Method	Notes
			Cardina	al Laborat	ories					
<u>Inorganic Compounds</u> Chloride	224		16.0	mg/kg	4	3053010	AC	31-May-23	4500-Cl-B	
Volatile Organic Compounds	s by EPA Method 802	1								
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 (Pl	D)		106 %	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			115 %	48.2	-134	3053014	MS	30-May-23	8015B	
Surrogate: 1-Chlorooctadecane			116 %	49.1	-148	3053014	MS	30-May-23	8015B	

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HA705 W WADLEY AVE.Project Number:030MIDLAND TX, 79705Project Manager:HAFax To:Fax To:	
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Inorganic Compounds - Quality Control

Cardinal Laboratories										
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%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 &	z 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

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



ENSOLUM, LLCProject:HARROUN RANCH #005705 W WADLEY AVE.Project Number:03C2012034MIDLAND TX, 79705Project Manager:HADLIE GREENFax To:	Reported: 09-Jun-23 16:51
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Volatile Organic Compounds by EPA Method 8021 - Quality Control

Cardinal	Labo	ratories

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 3053012 - Volatiles										
Blank (3053012-BLK1)				Prenared &	Analyzed:	30-May-2	3			
Benzene	ND	0.050	mg/kg	T Tepareu o	e Anaryzeu.	50-1v1ay-2	5			
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-2	3			
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-2	3			
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			

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager


ENSOLUM, LLCProject:HARROUN RANCH #005Reported:705 W WADLEY AVE.Project Number:03C201203409-Jun-23 16:51MIDLAND TX, 79705Project Manager:HADLIE GREEN Fax To:Fax To:

Petroleum Hydrocarbons by GC FID - Quality Control

Cardinal Laboratories

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 3053014 - General Prep - Organics										
Blank (3053014-BLK1)				Prepared &	Analyzed:	30-May-2	3			
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 &	z Analyzed:	30-May-2	3			
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			

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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 SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

CARDINAL

Received	by	OCD:	9/28/2	023 2.	:02:28	8 PM		
Г	Sar	De	Rel	Re	analy servic affilial	PLES		

Relinquished By: Relinquished By: Relinquished By: Relinquished By: Relinquished By: Sampler - UPS - Bus - Other:	Project Managet: Hadi'r Green Address: 601 N, Har: En Add City: Midlaud Phone #: 472-557-8895 E Project Name: Harvour Paro Project Name: Advin: 37.2 8407 -10 Sampler Name: Rifer Van Rafe Sampler Name: Rifer Van Rafe FOR UB USE ONLY FOR UB	101 East Marland (575) 393-2326
Time: Date: Corrected Temp. %CU QL Corrected Temp. %CU QL + Cardinal cannot accept verbal changes. I	State: TX Zip: 7970 Fax #: Project Owner: CA #005 I.O.I. C (G)RAB OR (C)OMP. Z.O.I. C (G)RAB OR (C)OMP. Z.O.I. C (G)RAB OR (C)OMP. Z.O.I. C (G)RAB OR (C)OMP. I.I. C (G)RAB OR (C)OMP. Z.O.I. C (G)RAB OR (C)OMP. I.I. C (G)RAB OR (C)OMP. I.I. C (G)RAB OR (C)OMP. Z.O.I. C (G)RAB OR (C)OMP. I.I. C (G	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476
Interceptions, loss of use, or loss of profile incurred by cleart, its subditativies, here such claim is based upon any of the above stated events or otherweiters and the Boxers or otherweiters and the Boxers or otherweiters and the Condition CHECKED BY: Intract Intract Pyes Committees and the Boxers of the Condition CHECKED BY: Intract Internet I	P.O. #: Company: PTA 0. (Attn: KRV: J6w2 S Address: ICH S. PRUS St City: M. Ala., f State: TX Zip: 79701 Phone #: 432-312-2203 Fax #: SOIL OTHER: ACID/BASE: OTHER: 26 TIME DATE TIME Solil ICE / COOL Subdet of the smouth paid by the elled to the	RILL TO
	XX BTEX XX Chlorides	ANALYSIS BEOLIEST



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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	106	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/31/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	'kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/31/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	105 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	05/31/2023	ND	432	108	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	78.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	107 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	94.5	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	79.7	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.6	% 49.1-14	8						

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Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.2	% 49.1-14	8						

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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	98.9	% 49.1-14	8						

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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.9	% 49.1-14	8						

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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.7	% 49.1-14	8						

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705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.5	% 49.1-14	8						

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

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received:	05/30/2023	Sampling Date:	05/26/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	106 9	% 49.1-14	8						

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Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.8	% 49.1-14	8						

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	416	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	93.3	% 49.1-14	8						

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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	55.6	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.3	% 49.1-14	8						

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	99.3	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

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

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.7	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 48 1.0' (H232731-22)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	88.0	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 49 1.0' (H232731-23)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	05/31/2023	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	70.1	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 50 1.0' (H232731-24)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	111 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 51 1.0' (H232731-25)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	109	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 52 1.0' (H232731-26)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.4	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 53 1.0' (H232731-27)

BTEX 8021B	mg/	′kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	528	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	114 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	05/30/2023	Sampling Date:	05/30/2023
Reported:	06/02/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 54 1.0' (H232731-28)

BTEX 8021B	mg/	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	05/31/2023	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	113 9	% 49.1-14	8						

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Celey D. Keene, Lab Director/Quality Manager



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

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

inot Ma-	mpany		1
	Name:		
	mpany Name: Ensolum, LLC	101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476	ARDINAL aboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ICompany Namo	Enables 115																		
Project Manager II - III - C										BILL TO	5		1						101104
r i vject manager: Hadile Green	: Hadile Green						σ	P.O. #:					ſ	1	1	1	13	MALION A	REQUEST
Address: 601 N	Address: 601 N Marienfeld Street, Suite 400	Suite 400					0	omp	any:	Company: BTA Oil	-			_					
City: Midland		State: TX	Zip:	Zip: 79701			A	ttn:	Cevir	Attn: Kevin Jones	'								
Phone #: 432-557-8895	7-8895	Fax #:					A	ddros	ee. 1	Address: 104 S Perce St		-							
Project #: 03C2012034	12034	Project Owner:	en				0		City: Midland	1010	0000	Ē	_						
Project Name: Ha	Project Name: Harroun Ranch #005						2	afo.	TV IV				_		_				
Project Location	Project Location: 32.28407,-104.00095)95					p ;	Dhono #.	-	cip:	210.2020		_		_				
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FOR LAB USE ONLY	eter van Fatten		1				Fa	Fax #:					_						
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DI LI DI	4	Date: 5-30-23	Received By:	ved By	By:	AT VIOLITI O	Daten e	upon an	ly of the	above state	d reasons	Verbal Result:	ult:	1 Yes	No No	A	d'I P	Add'l Phone #-	
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Sampler - UPS - Bus	Bus - Other: C.	Corrected Temp. °C	÷			Act Yes No		\sim	(Initials)	ls)	Ther	Thermometer ID #113)	Rush			Cool Intact	Cool Intact Observed Temp. °C
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101 East Marland, Hobbs, NM 88240

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Phone #: 432-557-8895 Project Manager: Hadlie Green Company Name: Ensolum, LLC Sampler Name: Peter Van Patten Project Location: 32.28407,-104.00095 Project Name: Harroun Ranch #005 Project #: 03C2012034 City: Midland Address: 601 N Marienfeld Street, Relinquished By: 123213 Relinquished Delivered By: (Circle One) FOR LAB USE DALY Lab I.D. LASE NOT rice, in no event shall Cardinal be liable lyses. All claims 20 5 F NOU DOD including those for neglige ω, FSHO FSHO F542 F539 FS38 545 5527 F543 1 454 F537 (575) 393-2326 FAX (575) 393-2476 Sample I.D. ą Suite 400 Observed Temp Fax #: Project Owner: State: Date: Time: . Date Time: 5-30-2 Depth (feet) **MULAN** \bigcirc damages X Joer by C shall be Zip: O O (G)RAB OR (C)OMP n 00 Received By: 79701 # CONTAINERS GROUNDWATER business WASTEWATER made in writing and received by Cardinal MATRIX 5 < 5 5 SOIL ple Condition 5 5 1 ¢ OIL such claim is based upon any of the above states SLUDGE orm, loss of use, or loss of profits P.O. #: OTHER City: Midland Phone #: 432-312-2203 State: TX Company: BTA Oil Fax #: Address: 104 S Pecos St Attn: Kevin Jones ACID/BASE PRESERV, CHECKED BY: 5 < < ICE / COOL 5 5 < C 5 5 ¢ BILL TO OTHER Zip: 79701 within 30 days after 5-26-23 5-3023 DATE SAMPLING by client, its subsidiarie 1310 1340 915 900 558 850 548 1350 134 5 1335 REMARKS All Results are emailed. Please provide Email address: Verbal Result: completion of the applicable Turnaround Time: hqueenee engolum. Com TIME FUNP PH \prec K × 4 К X x × × × T K EX Yes BT X × × Standard Chlorides X Y X × X X E No ANALYSIS Add'l Phone #: 3.4: Cool Intact Bacteria (only) Sample Condition REQUEST . Observed Temp. °C ;

+ Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com Sampler - UPS - Bus - Other:

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Cool Intact

Yes

(Initials)

ometer ID #113 ven Factor -0.5*C

Corrected Temp, °C

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Page 143 of 166

n.com	Cardinal cannot accept verbal changes. Please email changes to celey keene@cardinallabsnm.com	.keene(es to celey	nail chang	. Please er	changes	verbal	t accept	canno	† Cardinal			
Bacteria (only) S Cool Intact	Standard	Time: D #113 wr -0.5°C	Turnaround Time: Thermometer ID #1 Correction Factor -0		Initials)	Yes	Cool Intact	1-1-	4,5 1,5	ected Temp. "	her:	8	Sampler - UPS
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		┝	W the client for the	the amount paid t	shall be limited to	ontract or tort,	her based in o	arising whoth	vr any claim	rs exclusive remedy t	PLEASE NOTE: Liability and Damages. Cardinal's liability and clien analyses. All claims including those for negligence and you observe	PLEASE NOTE: Liability and Dama analyses. All claims including those	PLEASE NOT analyses. All c
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	5		SAMPLING	SAM	PRESERV.	RIX	MATRIX	_	2			FOR LAB USE ONLY	FOR LAB
					Fax #:	Fa					Sampler Name: Peter Van Patten	er Name: Pe	Sampl
	_		~~	2-312-2203	Phone #: 432-312-2203	P					Project Location: 32.28407,-104.00095	t Location: 3	Projec
			-	Zip: 79701	State: TX	S					Project Name: Harroun Ranch #005	t Name: Han	Projec
				ď	City: Midland	C			ner:	Project Owner:	034	Project #: 03C2012034	Projec
			St	4 S Pecos	Address: 104 S Pecos St	A				Fax #:	3895	Phone #: 432-557-8895	Phone
				Jones	Attn: Kevin Jones	A		Zip: 79701	Z	State: TX		City: Midland	City: N
				3TA Oil	Company: BTA Oil	0				ite 400	Address: 601 N Marienfeld Street, Suite 400	ss: 601 N Ma	Addre
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ANALYSIS REQUEST			-	BILL TO	B						Jadlio Coon	nt Managor I	Proiec
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USTODY AND ANALYSIS REQUEST		₽ F	CHAIN-OF-C					U.	D	atories	abora		P
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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/ga/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Whe Singh

Mike Snyder For Celey D. Keene Lab Director/Quality Manager



Analytical Results For:

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

Received:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/27/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: SS 10 1.0 (H233251-01)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	06/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	74.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/27/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 28A 1.25 (H233251-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	06/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	83.7	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



03C2012034

BTA 32.28407,-104.00095

Sample Received By:

06/21/2023

Cool & Intact

Shalyn Rodriguez

Soil

Analytical Results For:

	ENSOLUM, LLC		
	HADLIE GREEN		
	705 W WADLEY AVE.		
	MIDLAND TX, 79705		
	Fax To:		
06/23/2023		Sampling Date:	
06/27/2023		Sampling Type:	
HARROUN RANC	H #005	Sampling Condition:	

Sample ID: FS 40A 1.25 (H233251-03)

Received:

Reported:

Project Name:

Project Number:

Project Location:

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	92.4	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

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

Received:	06/23/2023	Sampling Date:	06/21/2023
Reported:	06/27/2023	Sampling Type:	Soil
Project Name:	HARROUN RANCH #005	Sampling Condition:	Cool & Intact
Project Number:	03C2012034	Sample Received By:	Shalyn Rodriguez
Project Location:	BTA 32.28407,-104.00095		

Sample ID: FS 41A 1.25 (H233251-04)

BTEX 8021B	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/23/2023	ND	400	100	400	7.69	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<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	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.8	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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

Mite Sugar

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

	(575) 393-2326 FAX (575) 393-2476	AX (575) 393-2	176				
Company Name: Ensolum, LLC	Ensolum, LLC			BILL TO		ANALYSIS KEWUESI	
Project Manager: Hadlie Green	Hadlie Green			P.O. #:			
Address: 601 N N	Address: 601 N Marienfeld Street, Suite 400	lite 400		Company: BTA Oil			
City: Midland		State: TX	Zip: 79701	Attn: Kelton Beaird			
Phone #: 432-557-8895	-8895	Fax #:		Address: 104 S Pecos St			
Project #: 03C2012034	12034	Project Owner:	a	City: Midland			
Project Name: Ha	Project Name: Harroun Ranch #005			State: TX Zip: 79701			
Project Location:	Project Location: 32.28407,-104.00095	5		Phone #: 432-312-2203			
Sampler Name: Peter Van Patten	eter Van Patten			1			
FOR LAB USE ONLY			IP. MATRIX	PRESERV. SAMPLING			
Lab I.D.	Sample I.D.	Depth (feet)	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER : ACID/BASE: ICE / COOL OTHER :	Chloride TPH	BTEX	
100000	0155	1.0	- <	6-21-23	< <		
0	FSZ8A	1.25	0 - ~	<	< <		
CN	F540A	1.25		<	< •		
4	FSHIA	52.1	CIV	<	1 2 1 5 HL		
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PLEASE NOTE: Liability an analyses. All claims includin service. In no event shall Ca	PLEASE NOTE: Labitly and Damages. Cardinal's lability and c analyses. All claims including those for negligence and any offer service. In no event shall Cardinal be liable for incidental or cont	client's exclusive remedy for her cause whatsoever shall nsequental damages, includ	any claim arising whether based in contra e deemed walved unless made in writing a ng without limitation, business interruptions	shall by wed by C luse, or	the client for the mpleton of the applicable (, its subsidiaries, as on otherwise		
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† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

Page 7 of 7



APPENDIX E

NMOCD Notifications

Released to Imaging: 3/18/2024 11:08:38 AM

From:	Enviro, OCD, EMNRD
То:	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.

JΗ

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) <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 Batery / 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.

JΗ

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# (<i>if applicable</i>) Nearest well: Harroun Ranch #5 API #30-015-46976

Unit Letter	Section	Township	Range	County
Р	20	235	29E	Eddy

Surface Owner:	State	🔀 Federal	Tribal	Private (Name:)
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Nature and Volume of Release

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

Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
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?	Yes No
Condensate	Volume Released (bbls)	Volume Recovered (bbls)
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Dalassa		

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.)

Received by OCD: 9/28/	2023 2:02:28 PM State of New Mexico		Page 1159eo	f 166
Form C-141		Incident ID	nAPP2200455573	
Page 2	Oil Conservation Division	District RP		

Incident ID	nAPP2200455573
District RP	
Facility ID	
Application ID	

10 m	
Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	Release exceeded volume of 25 barrels.
Yes 🗌 No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Via filing NOR docum	ent 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

 \boxtimes 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:	
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 ENTER - Width of Spill ENTER - Saturation Depth of Spill

ENTER - Porosity Factor

173	feet
173	feet
4	inches



0.01 99.99 0.0001

0 BBL

BBL

Oil Cut - Well Test / Vessel Throughput or Contents
Oil
Water
Calculated Oil Cut

Volume Recovered in Truck / Containment ENTER - Recovered Oil

ENTER - Recovered Water

Calculated Values

Release of Oil in Soil - Unrecovered Release of Water in Soil - Unrecovered Unrecovered Total Release

calculate	d	
	0 E	BBL
C S	53 E	BBL
	53 E	BBL

900

Calculated Values				
Total Release of Oil				
Total Release of Water				

Total Release

calculated	-
0	BBL
953	BBL
953	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 Porosity 5.615 ft³ / BBL

Х

Oil Cut (or Water Cut)

Harroun Ranch #5

NAPP2200455573



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Released to Imaging: 3/18/2024 11:08:384AM

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

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	74204
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By		Condition Date
rmarcus	None	1/24/2022

Action 74204

.

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Received by OCD: 9/28/2023 2:02:28 PM Form C-141 State of New Mexico

Page 3

Oil Conservation Division

	Page 163 of 16
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?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	🗌 Yes 🛛 No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	🗌 Yes 🛛 No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	🗌 Yes 🛛 No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	🗌 Yes 🛛 No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	🗌 Yes 🛛 No
Are the lateral extents of the release within 300 feet of a wetland?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying a subsurface mine?	🗌 Yes 🛛 No
Are the lateral extents of the release overlying an unstable area such as karst geology?	🗌 Yes 🛛 No
Are the lateral extents of the release within a 100-year floodplain?	🗌 Yes 🛛 No
Did the release impact areas not on an exploration, development, production, or storage site?	🗌 Yes 🔀 No

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

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

- Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- Field data
- Data table of soil contaminant concentration data
- \boxtimes Depth to water determination
- Determination of water sources and significant watercourses within ¹/₂-mile of the lateral extents of the release
- \boxtimes 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.

Received by OCD: 9/28/20	23 2:02:28 PM State of New Mexico			Page 164 of 160
			Incident ID	nAPP2200455573
Page 4	Oil Conservation Divisi	on	District RP	
			Facility ID	
			Application ID	
regulations all operators are public health or the environm failed to adequately investig addition, OCD acceptance of and/or regulations.	rmation given above is true and complete to required to report and/or file certain release ment. The acceptance of a C-141 report by ate and remediate contamination that pose a f a C-141 report does not relieve the operate on Beaird	e notifications and perform of the OCD does not relieve th a threat to groundwater, surf or of responsibility for comp Title: _Environment	corrective actions for rele ne operator of liability sh face water, human health	eases which may endanger ould their operations have or the environment. In deral, state, or local laws
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OCD Only Received by:		Date:		

Page 6

Oil Conservation Division

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 a	items must be included in the closure report.
\square A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the Co- Printed Name:Kelton_Beaird	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in
Signature:	Date:09/28/2023
email:KBeaird@btaoil.com	Telephone:432-312-2203
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible for 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

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

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

CONDITIONS

Operator:	OGRID:
BTA OIL PRODUCERS, LLC	260297
104 S Pecos	Action Number:
Midland, TX 79701	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 locatives results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the back 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 the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to estable site, whichever is greater; and a revegetation plan.		3/18/2024

CONDITIONS

Action 270258