

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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141

Revised August 8, 2011

OCT 11 2017

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1728628311

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company 6137 Contact Matt Nettles, Production Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210 Telephone No. 575-513-5767
Facility Name Ross Ranch 10 Fed 1 Facility Type Salt Water Disposal

Surface Owner Federal Mineral Owner Federal API No 30-015-29605

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	10	26S	31E	1980'	FNL	660'	FEL	Eddy

Latitude: 32.0593872

Longitude: -103.7596054

NATURE OF RELEASE

Type of Release Oil	Volume of Release .5bbls	Volume Recovered 0bbls
Source of Release Two Phase Separator	Date and Hour of Occurrence September 27, 2017 @ 9:30 AM	Date and Hour of Discovery September 27, 2017 @ 9:30 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Shelly Tucker, BLM Mike Bratcher, OCD	
By Whom? Ray Carter, Asst. Production Foreman	Date and Hour Shelly Tucker, BLM September 27, 2017 @ 12:20 PM Mike Bratcher, OCD September 27, 2017 @ 12:25 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

Dump valve was stuck causing the test two phase separator to swamp out releasing a mist from the vent tank line. Production was switched from the test equipment to the production equipment to stop the release.

Describe Area Affected and Cleanup Action Taken.*

Approximately 1/2bbl oil was released in an approximate 35'x20' area on the Southeast corner of pad and into the pasture. Obbls were recovered. An environmental contractor will be contacted to assist with the delineation and remediation of the affected area.

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

Signature: Sheila Fisher

Please refer to the New Mexico Oil
Conservation Division Website for
updated form(s) at:
[http://www.emnrd.state.nm.us/
OCD/forms.html](http://www.emnrd.state.nm.us/OCD/forms.html)
Thank you

OIL CONSERVATION DIVISION

Signed By Mike Bratcher

Printed Name: Sheila Fisher

Reviewed by Environmental Specialist:

Title: Field Admin Support

Approval Date: 10/12/17Expiration Date: N/AE-mail Address: Sheila.fisher@dm.com

Conditions of Approval:

Attached ☐

Date: 9/28/17

Phone: 575.748.1829See AttachedARP-4434

* Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 10/11/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RD-4434 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 11/11/2017 If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Fisher, Sheila <Sheila.Fisher@dvn.com>
Sent: Wednesday, October 11, 2017 3:56 PM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; Shelly Tucker (stucker@blm.gov)
Cc: Shoemaker, Mike; Fulks, Brett; Nettles, Matt; Carter, Ray; West, Christopher
Subject: Ross Ranch 10 Fed 1_5bbl oil_9.27.17
Attachments: Ross Ranch 10 Fed 1_5bbl oil_Initial C-141_9.27.17.doc; Ross Ranch 10 Fed 1_5bbl oil_GIS Image_9.27.17.pdf

Good Afternoon,

Attached please find the Initial C-141 and GIS Image for the 5bbls oil released at the Ross Ranch 10 Fed 1 on 9.27.17.

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

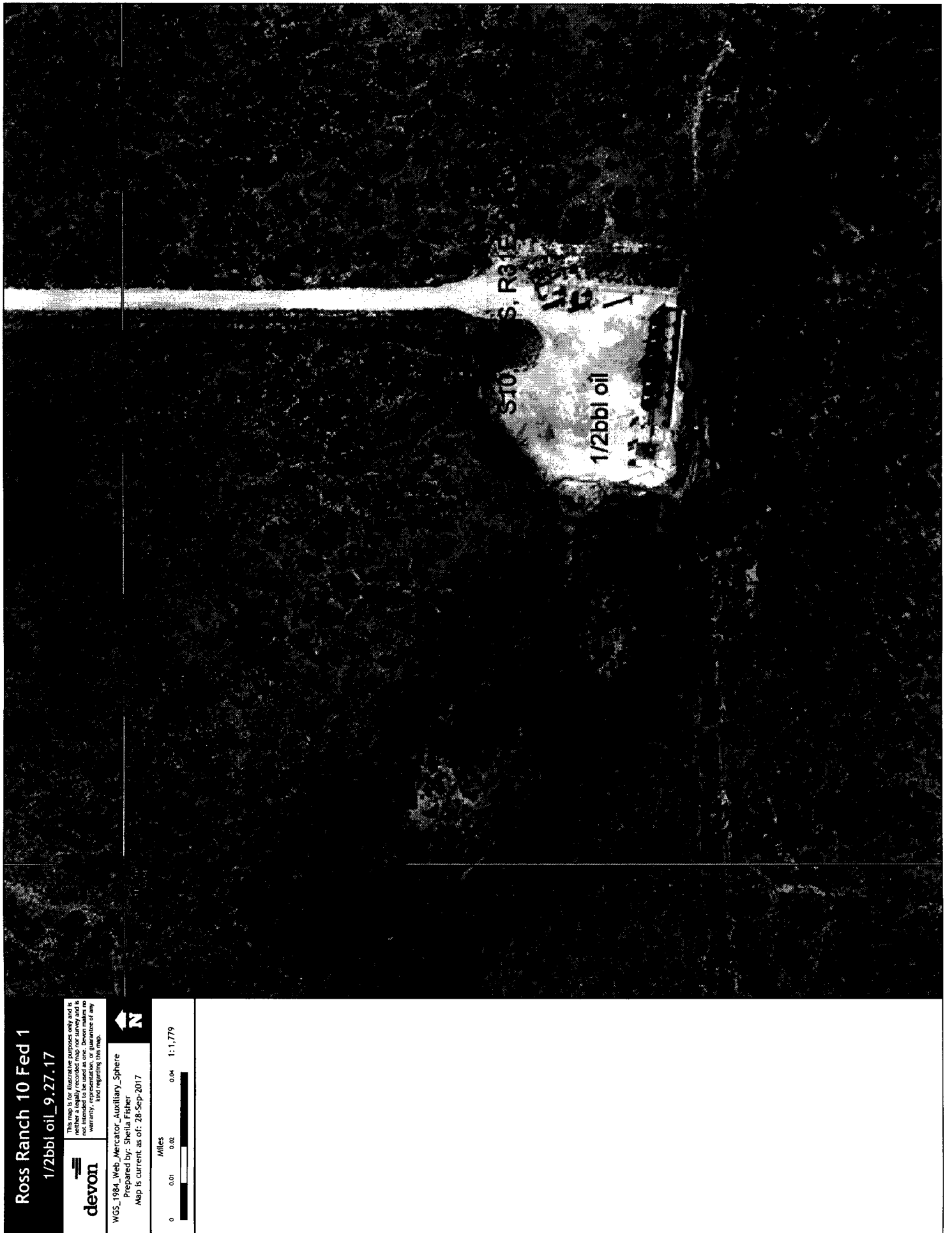
Thank you,

Sheila Fisher
Field Admin Support
Production
B-Schedule

Devon Energy Corporation
PO Box 250
Artesia, NM 88211
575 748 1829 Direct



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.



**Devon Energy
Ross Ranch 10 Fed #001**

**Closure Report
Section 10, T26S, R31E
Lea County, New Mexico**

Incident ID: nAB1728628311 (2RP-4434)

**June 18, 2020
Amended June 11, 2024**



**Prepared for:
Devon Energy
P.O. Box 250
Artesia, NM 88211**

**By:
Safety & Environmental Solutions, Inc.
703 East Clinton
Hobbs, New Mexico 88240
(575) 397-0510**

Company Contacts

Representative	Company	Telephone	E-mail
Dale Woodall	Devon Energy	575-748-1838	Dale.Woodall@dvn.com
Bob Allen	SESI	575-397-0510	ballen@sesi-nm.com

Background

Safety and Environmental Solutions, Inc., hereinafter referred to as (SESI) was engaged by Devon Energy to perform site remediation on the Ross Ranch 10 Fed #001. A C-141 notification was filed with the NMOCD regarding an incident that occurred on September 27, 2017. This incident occurred as a result of a .5 bbls (non-reportable minor incident) due to a stuck dump valve causing the test two phase separator to swamp out, releasing a mist from the vent tank line. Devon personnel took proactive measures, minimizing impact to the pasture area by switching from the test equipment to the production equipment to stop the release.

Surface and Ground Water

According to research of The New Mexico Office of the State Engineer there were no records for Township 26S, Range 31E, and Section 10, however the records indicate depth to groundwater to be an average of 317' bgs. for this area. The nearest POD for this site is C 02090 with a depth to water of 335' bgs.

On April 17, 2023, a temporary well with the identifier POD 1 (TW-1)/OSE File Number C-4700 was drilled 55 feet below the surface of the ground. No groundwater was discovered. The POD is located approximately 0.35 miles northwest of the Ross Ranch 10 Fed #001.

Characterization

This has been remediated in accordance the NMOCD published guidelines (July 24, 2018). Furthermore, all pasture impact was remediated in accordance with Spill Rule 19.15.29 NMAC, and BLM guidelines. The site ranking and soil screening levels as presented in the table below:

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
≤ 50 feet	Chloride***	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
51 feet-100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	10,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg
>100 feet	Chloride***	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg

Table I Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within the horizontal boundary of the release to ground water less than 10,000 mg/l TDS	Constituent	Method*	Limit**
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

*Or other test methods approved by the division.

**Numerical limits or natural background level, whichever is greater.

***This applies to releases of produced water or other fluids, which may contain chloride.

[19.15.29.12 NMAC - N, 8/14/2018]

The soil classification for this area is of the Simona-Pajarito association: Sandy, deep soils and soils that are shallow to caliche, from wind-worked deposits.

Work Performed

Incident ID: nAB1728628311 (Remediation Permit Number 2RP-4434)

On June 07, 2019 SESI personnel, together with Mr. Norman Favor from Devon Energy, were on location to assess spill event (2RP-4434). Spill Event for RP4434 is located on the East side of the location. There were no visual identifiers apparent in the area where the 0.50 bbl of mist occurred. A total of three (3) auger holes were advanced and soil samples were retrieved from the spill area on the southeast side pasture area.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated in the table below:

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc. (2RP-4434) 6/11/2019								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
AH-1 Surface	590	ND	0.15	0.64	7	110	28000	14000
AH-1 @ 1ft	160	ND	ND	ND	ND	ND	350	230
AH-2 Surface	1300	ND	ND	ND	ND	ND	6200	3300
AH-2 @ 1ft	160	ND	ND	ND	ND	ND	480	290
AH-3 Surface	250	ND	ND	ND	ND	ND	450	210
AH-3 @ 1ft	150	ND	ND	ND	ND	ND	380	240

Sample results indicated that all samples except AH-1 Surface were below the target chloride levels. All samples were above the THP target levels.

On April 8, 2020, SESI personnel returned to the site and performed sampling affected pasture area east of the battery. Six (6) soil samples were taken from the surface at a depth of 1 ft bgs.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results from confirmation sampling are tabulated in the table below:

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc. 4/8/2020								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
SA9 @ Surface	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SA9 @ 1'	ND	ND	ND	ND	ND	N/A	46	80
SA10 @ Surface	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SA10 @ 1'	ND	ND	ND	ND	ND	N/A	N/A	N/A
SA11 @ Surface	ND	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SA11 @ 1'	ND	ND	ND	ND	ND	N/A	N/A	N/A

Sample results indicated that all samples were below both Chloride and TPH target levels.

On August 21, 2023 SESI arrived onsite to collect confirmations sample of the area at intervals ranging from 0-2 ft. bgs.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated in the table below:

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc.(2RP-4434) 08/21/2023								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
CS1-Surface	120	ND	0.084	ND	ND	ND	22	ND
CS1-1'	670	ND	ND	ND	ND	ND	ND	ND
CS1-2'	760	ND	ND	ND	ND	ND	ND	ND
CS2-Surface	ND	0.030	0.073	ND	ND	ND	12	ND
CS2-1'	ND	ND	ND	ND	ND	ND	ND	ND
CS2-2'	110	ND	ND	ND	ND	ND	ND	ND
CS3-Surface	160	0.024	0.050	ND	ND	ND	ND	ND
CS3-1'	340	ND	ND	ND	ND	ND	23	ND
CS3-2'	420	ND	ND	ND	ND	ND	ND	ND

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc.(2RP-4434) 08/21/2023								
CS4-Surface	ND	0.041	0.12	ND	ND	ND	17	ND
CS4-1'	280	ND	ND	ND	ND	ND	ND	ND
CS4-2'	240	ND	ND	ND	ND	ND	ND	ND
CS5-Surface	ND	0.028	0.063	ND	ND	ND	40	69
CS5-1'	ND	ND	ND	ND	ND	ND	ND	ND
CS5-2'	ND	ND	ND	ND	ND	ND	ND	ND

Sample results indicated that all samples were below Chloride and TPH target levels, except CS-1 at 1' and 2', and CS-5 Surface. Please note that CS-5 Surface sample was excavated to 1' and 2' and at that depth samples were below TPH target levels. CS-1 was resampled in the below table on 10/10/23 CS-4 (Comp S 4 at 6') and exceeded Table 1 standards. More Excavation was performed and on 11/27/2023 SP-14 (SP-14 at 13') and results indicated that Chloride at this depth was below the Table 1 standard level.

On October 10, 2023, SESI arrived onsite to collect confirmation sample of the area at intervals ranging from 3-6 ft. bgs. Confirmation sampling notification was sent to the OCD via email on October 05, 2023 at 4:30 PM, that stated confirmation sampling would be performed on October 09, 2023 at 11:00 AM. No OCD representative arrived at location, and at 1:45 PM confirmation sampling was performed. Excavation of the area was performed at 3-6 ft bgs, and confirmation samples were collected.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated in the table below:

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc.(2RP-4434) 10/10/2023								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
Comp S 4 at 6'	1000	ND	ND	ND	ND	ND	ND	ND
Comp S 5 at 1'	ND	ND	ND	ND	ND	ND	13	ND
SP6 (Comp S 4 NW)	ND	ND	ND	ND	ND	ND	ND	ND
SP7 (Comp S 4 EW)	180	ND	ND	ND	ND	ND	ND	ND
SP8 (Comp S 4 SW)	ND	ND	ND	ND	ND	ND	16	ND
SP9 (Comp S 4 WW)	220	ND	ND	ND	ND	ND	ND	ND
SP10 (Comp S 5 NW)	ND	ND	ND	ND	ND	ND	24	53
SP11 (Comp S 5 EW)	ND	ND	ND	ND	ND	ND	13	56
SP12 (Comp S 5 SW)	ND	ND	ND	ND	ND	ND	20	56
SP13 (Comp S 5 WW)	ND	ND	ND	ND	ND	ND	200	350

Sample results indicated that Comp S 4 at 6' still exceeded Chloride target levels (Comp S 4 at 6' was taken the same area as (CS-1 on 08/21/2023), More Excavation was performed and on 11/27/2023 SP-14 (SP-14 at 13') and results

indicated that Chloride at this depth was below the Table 1 standard level. SP-13 from the West Wall results exceed TPH table 1 standard, on 11/27/2023

On November 27, 2023, SESI arrived onsite to collect confirmation sample of the area at intervals ranging from 1-13ft. bgs. Confirmation sampling notification was sent to the OCD via email on November 21, 2023 at 6:41 AM, that stated confirmation sampling would be performed on November 27, 2023 at 09:00 AM. No OCD representative arrived at location, and at 09:10 AM confirmation sampling was performed. Excavation of the area was performed to a depth of 13 ft bgs, and confirmation samples were collected.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated in the table below:

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc.(2RP-4434) 11/27/2023								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
Comp S 7 at 1'	ND	ND	ND	ND	ND	ND	ND	ND
Sp-14 @ 13'	390	ND	ND	ND	ND	ND	ND	ND

Sample results indicated that all samples were below both TPH and Chloride target levels. Comp S 7 was taken in the same area as (SP-13 WW on 10/10/2023), and SP-14 @ 13' was taken in the same area as (Comp S at 6' on 10/10/2023).

On December 08, 2023, SESI arrived onsite to collect confirmation sample of the area at intervals of 8 ft. bgs. Confirmation sampling notification was sent to the OCD via email on December 05, 2023 at 3:09 PM, that stated confirmation sampling would be performed on December 08, 2023 at 11:00 AM. No OCD representative arrived at location, and at 12:00 PM confirmation sampling was performed.

All soil samples were properly packaged, preserved, and transported to Hall Laboratories via Chain of Custody for analyses of Chloride (CI Method 300.0), Diesel Organics (DRO Method 8015 M/D), Gasoline Range (GRO Method 8015D), Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX Method 8021B). The results are tabulated in the table below:

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc.(2RP-4434) 12/08/2023								
Sample ID	Chloride (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)
CS 1 at 8'	130	ND	ND	ND	ND	ND	ND	ND
CS WW	120	ND	ND	ND	ND	ND	ND	ND
CS SW	150	ND	ND	ND	ND	ND	ND	ND

Devon Energy								
Ross Ranch 10 Fed 1 SWD								
Soil Sample Results: Hall Environmental Analysis Laboratory, Inc.(2RP-4434) 12/08/2023								
CS NW	150	ND	ND	ND	ND	ND	ND	ND
CS EW	150	ND	ND	ND	ND	ND	ND	ND

Sample results indicated that all samples were below Chloride and TPH target levels.

Conclusion

Remedial actions at this site have all been performed in accordance with all New Mexico Oil Conservation Division (NMOCD) requirements. On behalf of Devon Energy, SESI respectfully requests closure of release nAB1728628311. Approximately 40 cubic yards of contaminated soil was transported to OWL Disposal from this release.

As a result, we respectfully submit this closure report for your consideration and approval.

Supplemental Documentation

Document 1: Vicinity Map
Document 2: OSE Information
Document 3: NMOCD Oil and Gas Map
Document 4: BLM Cave Karst Map
Document 5: FEMA Floodplain Map
Document 6: Photographs of compromised areas and repairs
Document 7: Lab Analysis
Document 8: C-141 initial, final



Devon Ross Ranch
Site Remediation

Survey
Google Earth

mAB1728628311 - 2RP-4434

Google Earth

Copyright © 2004 Airbus





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(NAD83 UTM in meters)

(In feet)

POD Number	Code	Sub-basin	County	Q 6	Q 4	Q 16	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
C 01777	C	ED					08	26S	31E	613245	3547409*	325	300	25
C 02090	C	ED		4	4	01	26S	31E	620329	3548533*		350	335	15
C 02248	CUB	ED		1	2	3	08	26S	31E	612942	3547316*	300	292	8
C 02249	CUB	ED		1	2	3	08	26S	31E	612942	3547316*	300	292	8
C 03554 POD1	CUB	ED		2	1	4	01	26S	31E	620547	3549148	630	300	330
C 03639 POD1	CUB	ED		3	4	2	01	26S	31E	620168	3549279	700	365	335
C 04256 POD1	C	ED		4	4	2	01	26S	31E	620384	3549257	666	340	326

Average Depth to Water: **317 feet**

Minimum Depth: **292 feet**

Maximum Depth: **365 feet**

Record Count: 7

PLSS Search:

Township: 26S **Range:** 31E

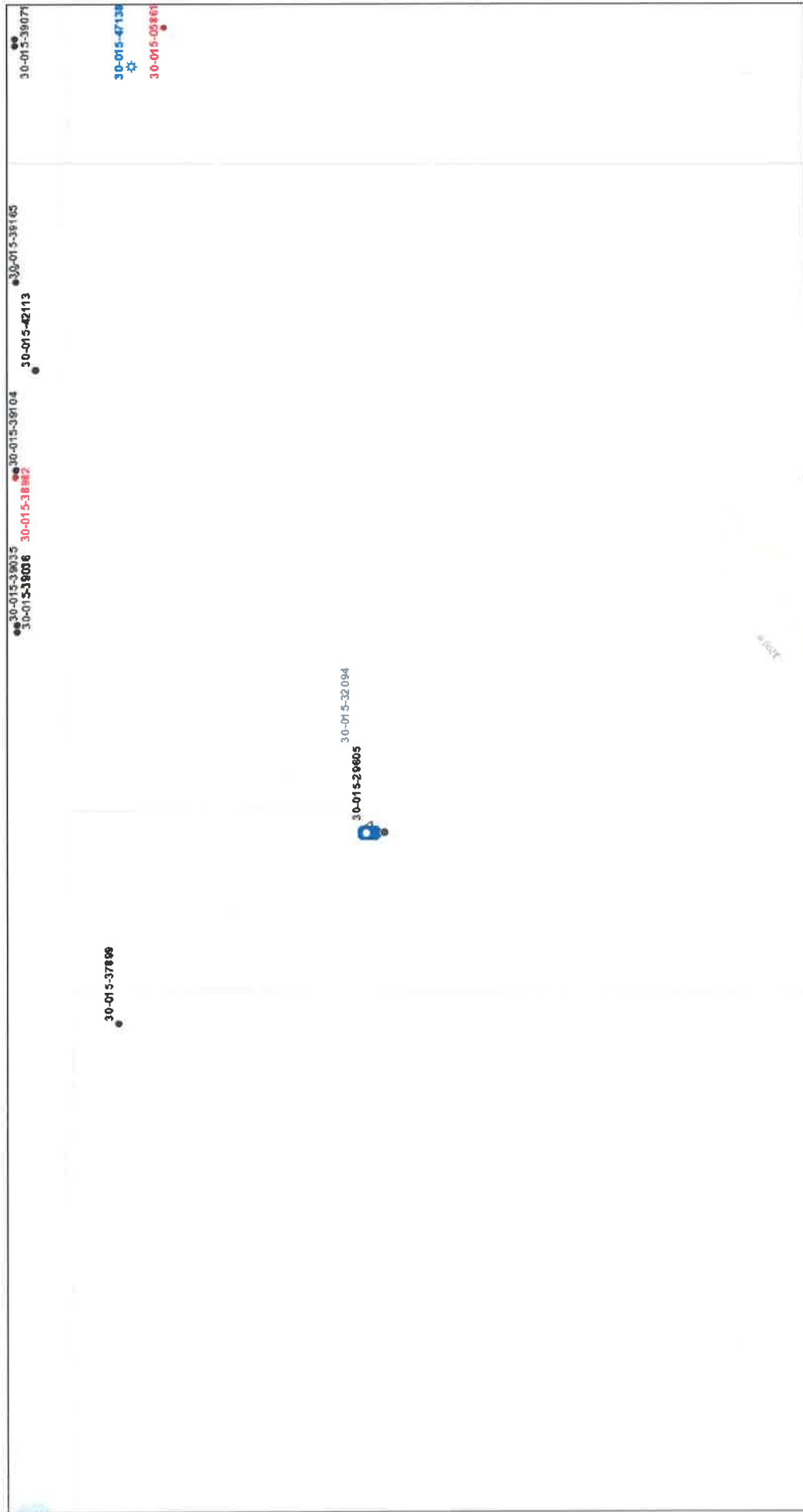
*UTM location was derived from PLSS - see Help

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.

6/7/19 8:31 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Devon, Ross Ranch 10 Fed 1 SWD



5/18/2021, 9:39:09 AM

Wells - Large Scale

↑ undefined

● Miscellaneous

✱ CO2, Active

✱ CO2, Cancelled

✱ CO2, New

✱ CO2, Plugged

CO2, Temporarily Abandoned

Gas, Active

Gas, Cancelled

Gas, New

Gas, Plugged

Gas, Temporarily Abandoned

Injection, Active

Injection, Cancelled

Injection, New

Injection, Plugged

Injection, Temporarily Abandoned

Oil, Active

Oil, Cancelled

Oil, New

Oil, Plugged

Oil, Temporarily Abandoned

Salt Water Injection, Active

Salt Water Injection, Cancelled

Salt Water Injection, New

Salt Water Injection, Plugged

Salt Water Injection, Temporarily Abandoned

Water, Active

Water, Cancelled

Water, New

Water, Plugged

Water, Temporarily Abandoned

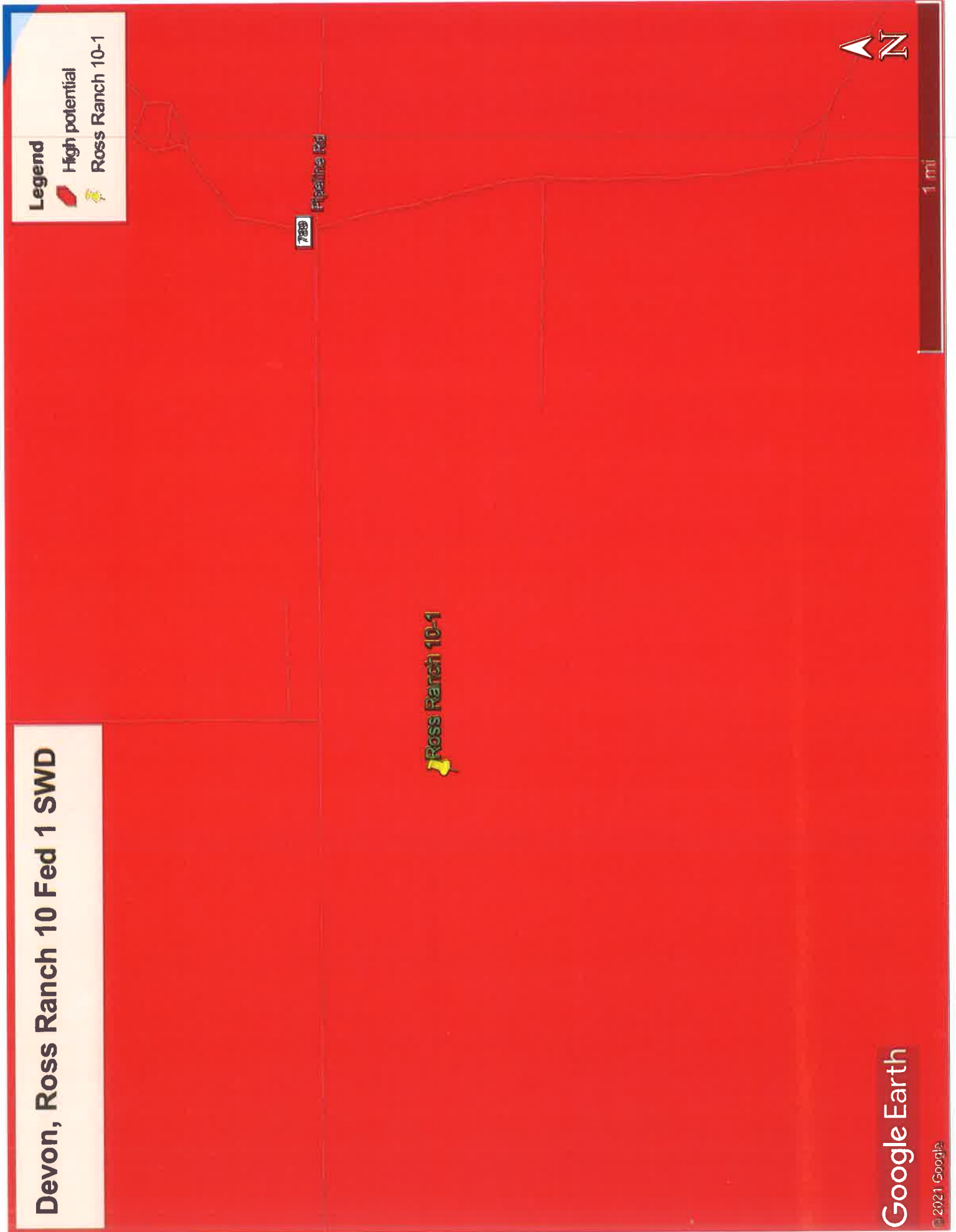
OCD District Offices

0 0.07 0.15 0.3 0.6 km

0 0.15 0.3 0.6 mi

Bureau of Land Management, Texas Parks & Wildlife, Esri, HERE, Garmin, INCREMENT P, Intermap, USGS, METANASA, EPA, USDA, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department, OCD

New Mexico Oil Conservation Division
NM OCD Oil and Gas Map. <http://nm-emnd.maps.arcgis.com/apps/webappviewer/index.html?id=4d0172306164de29d2b918f35ca75>



National Flood Hazard Layer FIRMette



103°45'54"W 32°3'48"N

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

- Without Base Flood Elevation (BFE)
Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD

- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee, See Notes, Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS

- NO SCREEN
- Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone D

GENERAL STRUCTURES

- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES

- Cross Sections with 1% Annual Chance Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS

- Digital Data Available
- No Digital Data Available
- Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/18/2021 at 11:41 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



0 250 500 1,000 1,500 2,000 Feet 1:6,000

Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020

Devon – Ross Ranch 10 Fed #001

Property Photos

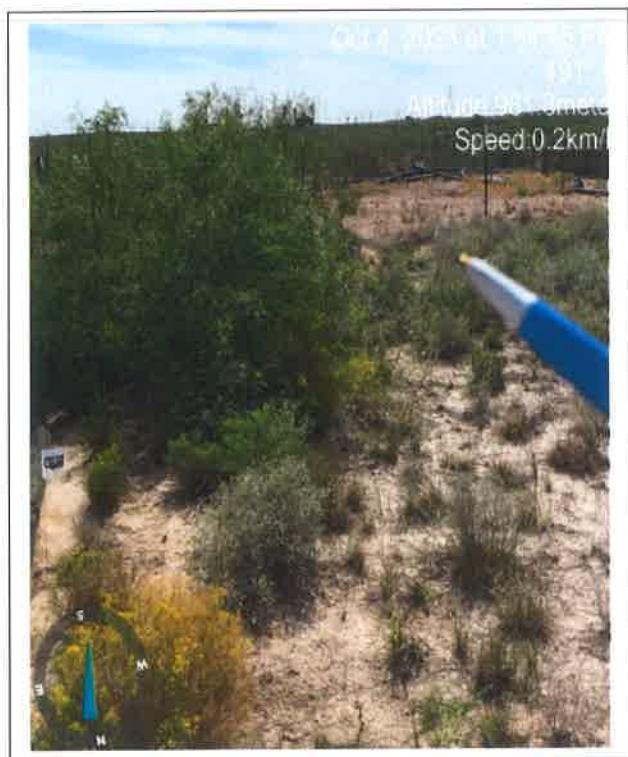


Photo 1 – Area of South Excavation

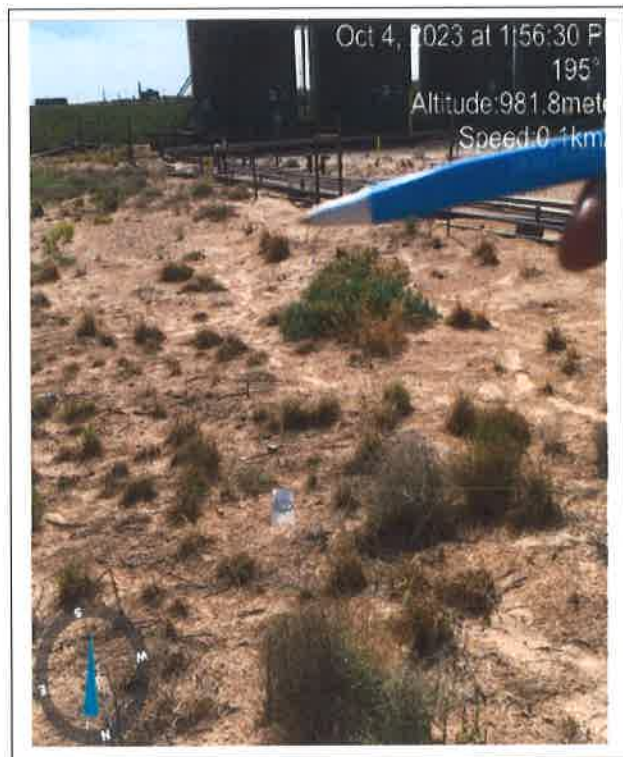


Photo 2 – Area of North Excavation

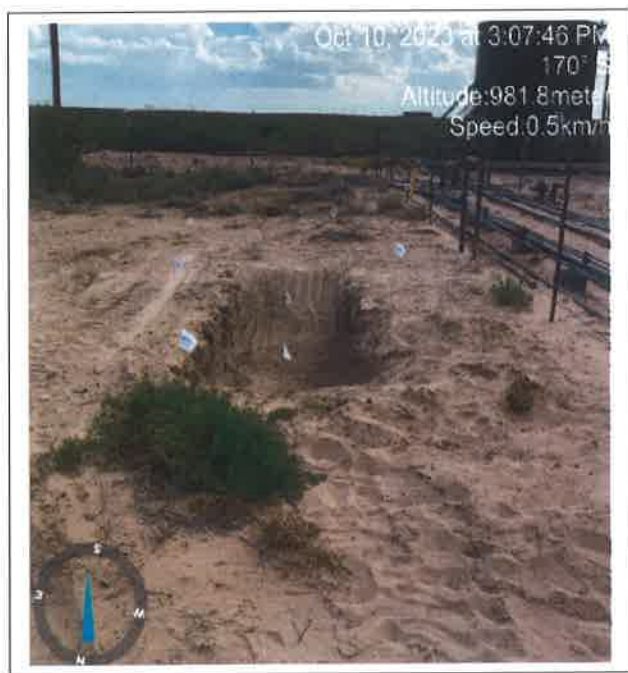


Photo 3 – Area of North Excavation

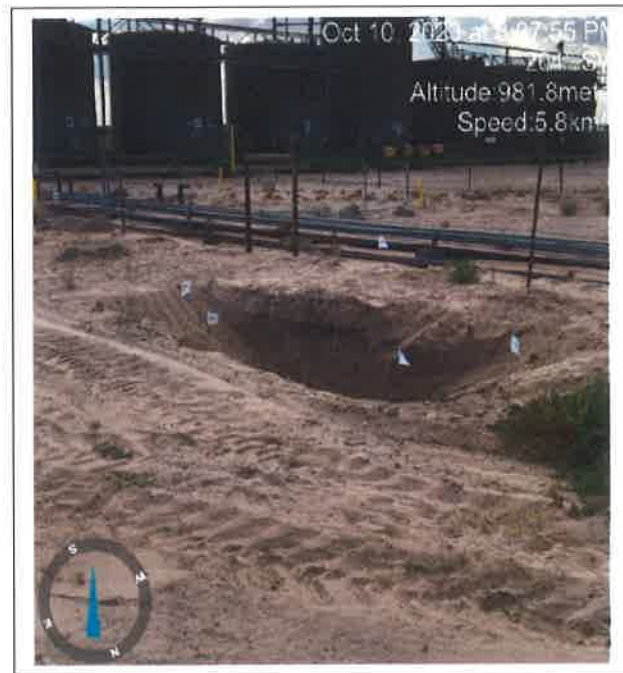


Photo 4 – Area of North Excavation

Devon – Ross Ranch 10 Fed #001

Property Photos

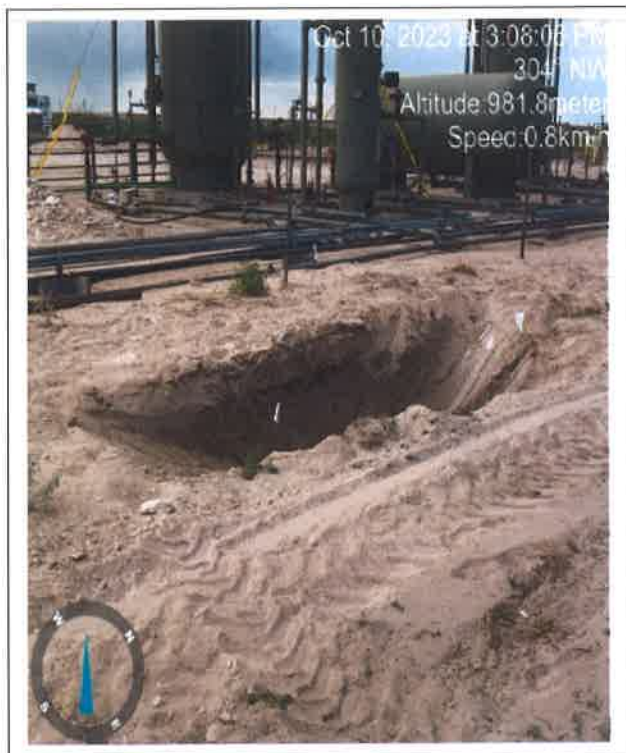


Photo 5 – Area of North Excavation

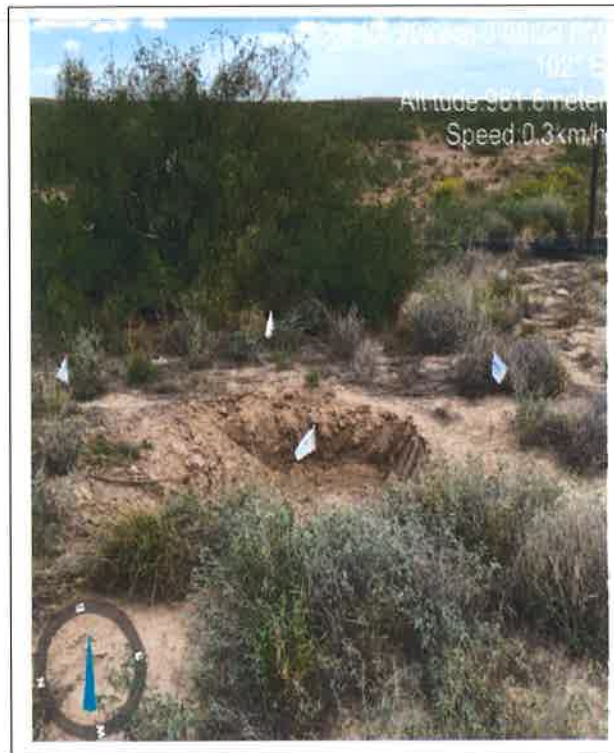


Photo 6 – Area of South Excavation



Photo 7 – Area of South Excavation



Photo 8 – Area of South Excavation

Devon – Ross Ranch 10 Fed #001

Property Photos

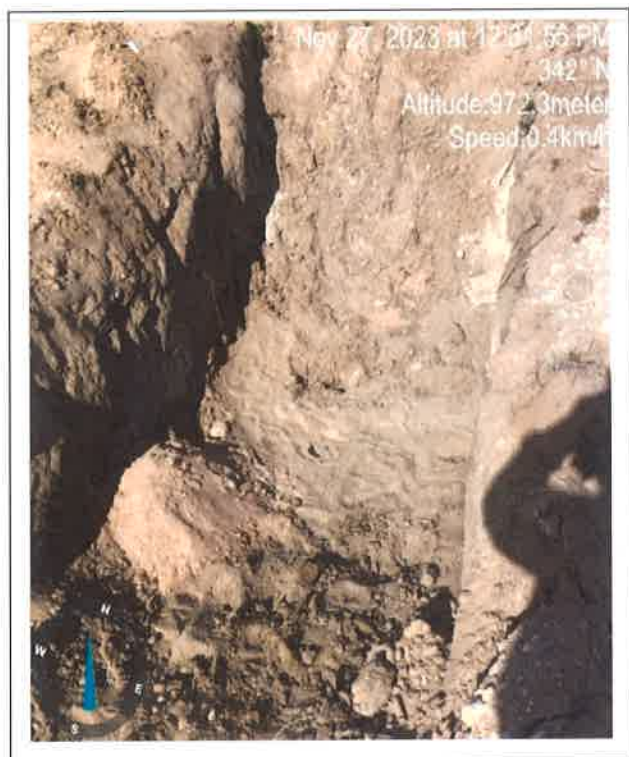


Photo 9 – Area of North Excavation



Photo 10 – Area of North Excavation

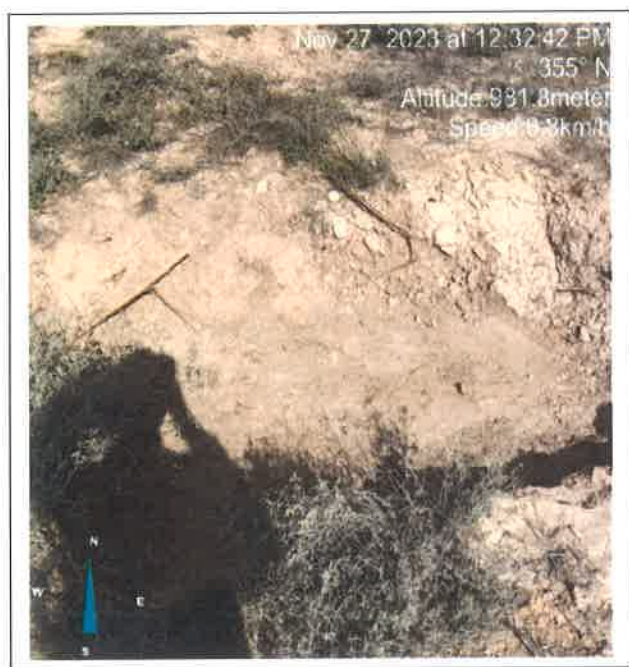


Photo 11 – Area of South Excavation

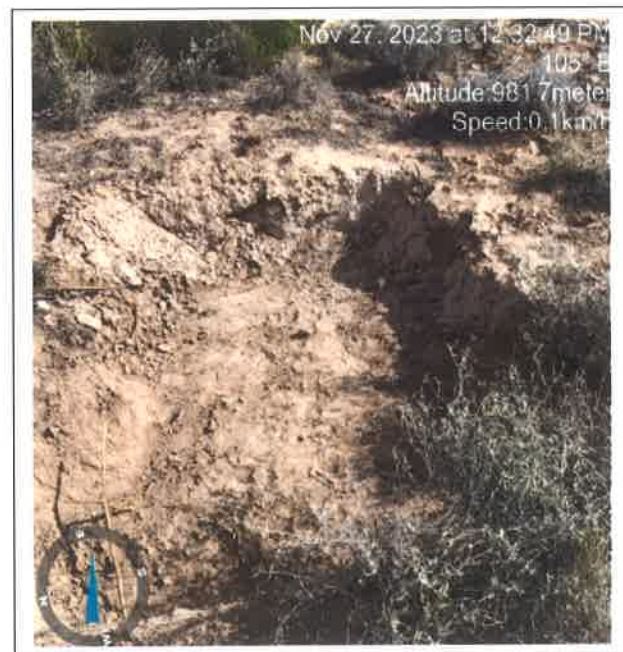


Photo 12 – Area of South Excavation

Devon – Ross Ranch 10 Fed #001

Property Photos

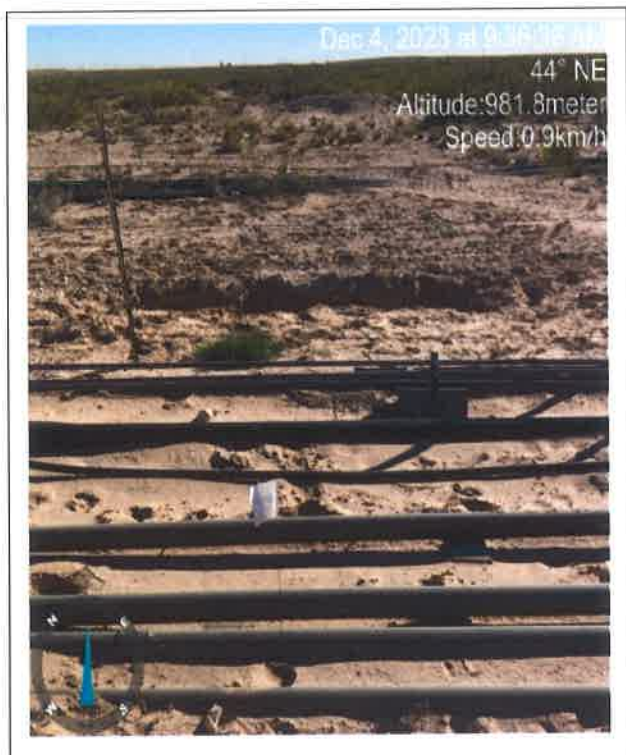


Photo 13 – Area of North Excavation

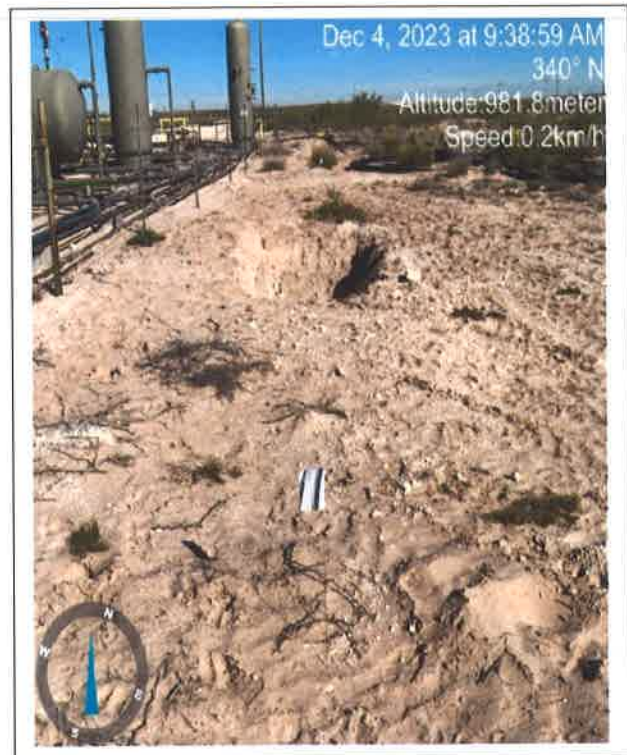


Photo 14 – Area of North Excavation



Photo 15 – Area of North Excavation

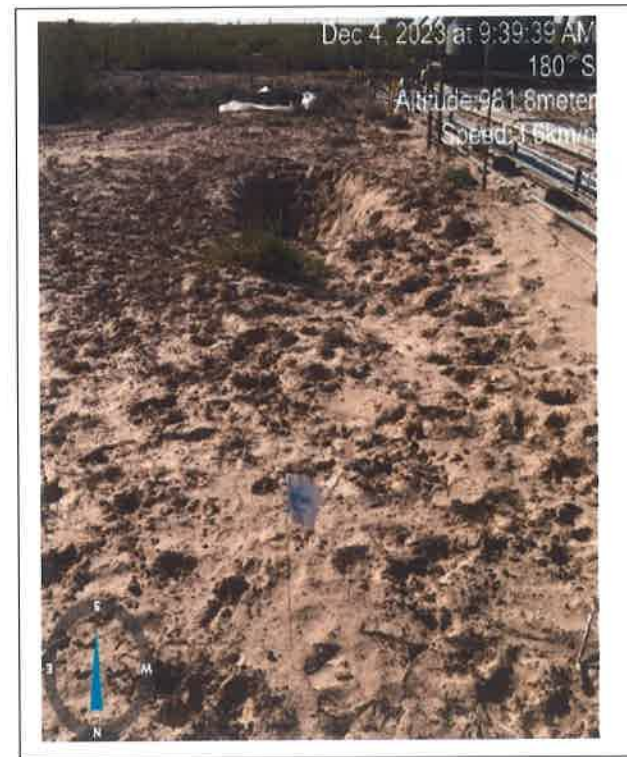


Photo 16 – Area of North Excavation



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 19, 2019

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Devon Ross Ranch 10 Fed 1 2RP 4434

OrderNo.: 1906576

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 6 sample(s) on 6/11/2019 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read 'Andy Freeman'.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1906576

Date Reported: 6/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-1 Surface

Project: Devon Ross Ranch 10 Fed 1 2RP 4434

Collection Date: 6/7/2019 4:30:00 PM

Lab ID: 1906576-001

Matrix: SOIL

Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	590	60		mg/Kg	20	6/17/2019 8:17:51 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	28000	990		mg/Kg	100	6/17/2019 9:06:49 PM	45543
Motor Oil Range Organics (MRO)	14000	5000		mg/Kg	100	6/17/2019 9:06:49 PM	45543
Surr: DNOP	0	70-130	S	%Rec	100	6/17/2019 9:06:49 PM	45543
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	110	5.0		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Surr: BFB	938	73.8-119	S	%Rec	1	6/13/2019 11:08:13 AM	45528
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Toluene	0.15	0.050		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Ethylbenzene	0.64	0.050		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Xylenes, Total	7.0	0.099		mg/Kg	1	6/13/2019 11:08:13 AM	45528
Surr: 4-Bromofluorobenzene	161	80-120	S	%Rec	1	6/13/2019 11:08:13 AM	45528

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 11

Analytical Report

Lab Order 1906576

Date Reported: 6/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-1 1ft

Project: Devon Ross Ranch 10 Fed 1 2RP 4434

Collection Date: 6/7/2019 4:35:00 PM

Lab ID: 1906576-002

Matrix: SOIL

Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	160	60		mg/Kg	20	6/17/2019 8:55:04 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	350	9.4		mg/Kg	1	6/17/2019 9:29:07 PM	45543
Motor Oil Range Organics (MRO)	230	47		mg/Kg	1	6/17/2019 9:29:07 PM	45543
Surr: DNOP	167	70-130	S	%Rec	1	6/17/2019 9:29:07 PM	45543
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Surr: BFB	119	73.8-119		%Rec	1	6/13/2019 2:36:12 PM	45528
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Toluene	ND	0.049		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 2:36:12 PM	45528
Surr: 4-Bromofluorobenzene	112	80-120		%Rec	1	6/13/2019 2:36:12 PM	45528

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 2 of 11

Analytical Report

Lab Order 1906576

Date Reported: 6/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-2 Surface

Project: Devon Ross Ranch 10 Fed 1 2RP 4434

Collection Date: 6/7/2019 4:40:00 PM

Lab ID: 1906576-003

Matrix: SOIL

Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	1300	60		mg/Kg	20	6/17/2019 9:07:29 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	6200	93		mg/Kg	10	6/17/2019 10:13:26 PM	45543
Motor Oil Range Organics (MRO)	3300	470		mg/Kg	10	6/17/2019 10:13:26 PM	45543
Surr: DNOP	0	70-130	S	%Rec	10	6/17/2019 10:13:26 PM	45543
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Surr: BFB	131	73.8-119	S	%Rec	1	6/13/2019 2:59:28 PM	45528
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Toluene	ND	0.050		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Ethylbenzene	ND	0.050		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Xylenes, Total	ND	0.10		mg/Kg	1	6/13/2019 2:59:28 PM	45528
Surr: 4-Bromofluorobenzene	116	80-120		%Rec	1	6/13/2019 2:59:28 PM	45528

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 1906576

Date Reported: 6/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-2 1ft

Project: Devon Ross Ranch 10 Fed 1 2RP 4434

Collection Date: 6/7/2019 4:45:00 PM

Lab ID: 1906576-004

Matrix: SOIL

Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	160	60		mg/Kg	20	6/17/2019 9:19:54 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	480	9.6		mg/Kg	1	6/17/2019 1:00:13 PM	45572
Motor Oil Range Organics (MRO)	290	48		mg/Kg	1	6/17/2019 1:00:13 PM	45572
Surr: DNOP	198	70-130	S	%Rec	1	6/17/2019 1:00:13 PM	45572
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Surr: BFB	119	73.8-119		%Rec	1	6/13/2019 3:46:08 PM	45528
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Toluene	ND	0.049		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Xylenes, Total	ND	0.097		mg/Kg	1	6/13/2019 3:46:08 PM	45528
Surr: 4-Bromofluorobenzene	113	80-120		%Rec	1	6/13/2019 3:46:08 PM	45528

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 1906576

Date Reported: 6/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-3 Surface

Project: Devon Ross Ranch 10 Fed 1 2RP 4434

Collection Date: 6/7/2019 4:50:00 PM

Lab ID: 1906576-005

Matrix: SOIL

Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	250	60		mg/Kg	20	6/17/2019 9:32:18 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	450	9.6		mg/Kg	1	6/17/2019 1:44:22 PM	45572
Motor Oil Range Organics (MRO)	210	48		mg/Kg	1	6/17/2019 1:44:22 PM	45572
Surr: DNOP	138	70-130	S	%Rec	1	6/17/2019 1:44:22 PM	45572
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Surr: BFB	114	73.8-119		%Rec	1	6/13/2019 4:09:25 PM	45528
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Toluene	ND	0.049		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Ethylbenzene	ND	0.049		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Xylenes, Total	ND	0.099		mg/Kg	1	6/13/2019 4:09:25 PM	45528
Surr: 4-Bromofluorobenzene	109	80-120		%Rec	1	6/13/2019 4:09:25 PM	45528

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
 E Value above quantitation range
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Analytical Report

Lab Order 1906576

Date Reported: 6/19/2019

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: AH-3 1ft

Project: Devon Ross Ranch 10 Fed 1 2RP 4434

Collection Date: 6/7/2019 5:00:00 PM

Lab ID: 1906576-006

Matrix: SOIL

Received Date: 6/11/2019 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: smb
Chloride	150	60		mg/Kg	20	6/17/2019 9:44:42 PM	45633
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: BRM
Diesel Range Organics (DRO)	380	9.9		mg/Kg	1	6/17/2019 10:57:53 PM	45572
Motor Oil Range Organics (MRO)	240	49		mg/Kg	1	6/17/2019 10:57:53 PM	45572
Surr: DNOP	166	70-130	S	%Rec	1	6/17/2019 10:57:53 PM	45572
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/13/2019 5:19:21 PM	45528
Surr: BFB	117	73.8-119		%Rec	1	6/13/2019 5:19:21 PM	45528
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/14/2019 6:50:57 PM	45528
Toluene	ND	0.050		mg/Kg	1	6/14/2019 6:50:57 PM	45528
Ethylbenzene	ND	0.050		mg/Kg	1	6/14/2019 6:50:57 PM	45528
Xylenes, Total	ND	0.10		mg/Kg	1	6/14/2019 6:50:57 PM	45528
Surr: 4-Bromofluorobenzene	95.3	80-120		%Rec	1	6/14/2019 6:50:57 PM	45528

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 6 of 11

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1906576

19-Jun-19

Client: Safety & Environmental Solutions**Project:** Devon Ross Ranch 10 Fed 1 2RP 4434

Sample ID: MB-45633		SampType: mblk		TestCode: EPA Method 300.0: Anlons						
Client ID: PBS		Batch ID: 45633		RunNo: 60701						
Prep Date: 6/17/2019		Analysis Date: 6/17/2019		SeqNo: 2054652			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1906576

19-Jun-19

Client: Safety & Environmental Solutions
Project: Devon Ross Ranch 10 Fed 1 2RP 4434

Sample ID: LCS-45543	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 45543	RunNo: 60622								
Prep Date: 6/12/2019	Analysis Date: 6/13/2019	SeqNo: 2052482 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	10	50.00	0	98.2	63.9	124			
Surr: DNOP	4.8		5.000		95.4	70	130			

Sample ID: MB-45543	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 45543	RunNo: 60622								
Prep Date: 6/12/2019	Analysis Date: 6/13/2019	SeqNo: 2052483 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	11		10.00		113	70	130			

Sample ID: MB-45572	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 45572	RunNo: 60667								
Prep Date: 6/13/2019	Analysis Date: 6/14/2019	SeqNo: 2052663 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	70	130			

Sample ID: LCS-45594	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 45594	RunNo: 60697								
Prep Date: 6/14/2019	Analysis Date: 6/17/2019	SeqNo: 2054871 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.8		5.000		75.9	70	130			

Sample ID: MB-45594	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 45594	RunNo: 60697								
Prep Date: 6/14/2019	Analysis Date: 6/17/2019	SeqNo: 2054872 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.2		10.00		81.9	70	130			

Sample ID: LCS-45572	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 45572	RunNo: 60697								
Prep Date: 6/13/2019	Analysis Date: 6/17/2019	SeqNo: 2054878 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1906576

19-Jun-19

Client: Safety & Environmental Solutions**Project:** Devon Ross Ranch 10 Fed 1 2RP 4434

Sample ID: LCS-45572	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 45572		RunNo: 60697							
Prep Date: 6/13/2019	Analysis Date: 6/17/2019		SeqNo: 2054878		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51	10	50.00	0	102	63.9	124			
Surr: DNOP	5.0		5.000		99.3	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of range due to dilution or matrix		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1906576

19-Jun-19

Client: Safety & Environmental Solutions**Project:** Devon Ross Ranch 10 Fed 1 2RP 4434

Sample ID: MB-45528	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 45528	RunNo: 60624								
Prep Date: 6/12/2019	Analysis Date: 6/13/2019	SeqNo: 2051781 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	73.8	119			

Sample ID: LCS-45528	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: LCSS	Batch ID: 45528	RunNo: 60624								
Prep Date: 6/12/2019	Analysis Date: 6/13/2019	SeqNo: 2051782 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	90.2	80.1	123			
Surr: BFB	1200		1000		121	73.8	119			S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 1906576

19-Jun-19

Client: Safety & Environmental Solutions**Project:** Devon Ross Ranch 10 Fed 1 2RP 4434

Sample ID: MB-45528	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 45528	RunNo: 60624								
Prep Date: 6/12/2019	Analysis Date: 6/13/2019	SeqNo: 2051816 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	80	120			

Sample ID: LCS-45528	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 45528	RunNo: 60624								
Prep Date: 6/12/2019	Analysis Date: 6/13/2019	SeqNo: 2051817 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	104	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	100	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		109	80	120			

Sample ID: 1906576-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: AH-1 Surface	Batch ID: 45528	RunNo: 60624								
Prep Date: 6/12/2019	Analysis Date: 6/13/2019	SeqNo: 2051820 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9881	0	103	63.9	127			
Toluene	1.2	0.049	0.9881	0.1487	111	69.9	131			
Ethylbenzene	1.8	0.049	0.9881	0.6369	113	71	132			
Xylenes, Total	9.7	0.099	2.964	7.014	92.2	71.8	131			
Surr: 4-Bromofluorobenzene	1.6		0.9881		166	80	120			S

Sample ID: 1906576-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: AH-1 Surface	Batch ID: 45528	RunNo: 60624								
Prep Date: 6/12/2019	Analysis Date: 6/13/2019	SeqNo: 2051821 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.4	63.9	127	4.48	20	
Toluene	1.3	0.050	1.000	0.1487	113	69.9	131	3.18	20	
Ethylbenzene	1.8	0.050	1.000	0.6369	117	71	132	3.11	20	
Xylenes, Total	10	0.10	3.000	7.014	102	71.8	131	3.39	20	
Surr: 4-Bromofluorobenzene	1.6		1.000		165	80	120	0	0	S

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: **Safety Env Solutions**Work Order Number: **1906576**

RcptNo: 1

Received By: **Isalah Ortiz**

6/11/2019 9:05:00 AM

Completed By: **Leah Baca**

6/12/2019 8:20:57 AM

Reviewed By: **YG 6/12/19***I-0x**Leah Baca*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **DAD 6/12/19**

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.9	Good	Yes			



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

June 04, 2020

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX (575) 393-4388

RE: Ross Ranch

OrderNo.: 2004552

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 22 sample(s) on 4/11/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued April 17, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Analytical Report
Lab Order 2004552
Date Reported: 6/4/2020

CLIENT: Safety & Environmental Solutions Client Sample ID: SA9 Surface
Project: Ross Ranch Collection Date: 4/8/2020 2:10:00 PM
Lab ID: 2004552-009 Matrix: SOIL Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/15/2020 8:13:19 PM	51819

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2004552

Date Reported: 6/4/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SA10 Surface

Project: Ross Ranch

Collection Date: 4/8/2020 2:40:00 PM

Lab ID: 2004552-010

Matrix: SOIL

Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	60		mg/Kg	20	4/15/2020 8:25:43 PM	51819

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Analytical Report

Lab Order 2004552

Date Reported: 6/4/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SA11 Surface

Project: Ross Ranch

Collection Date: 4/8/2020 3:10:00 PM

Lab ID: 2004552-011

Matrix: SOIL

Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: CAS
Chloride	ND	61		mg/Kg	20	4/15/2020 8:38:07 PM	51819

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report

Lab Order 2004552

Date Reported: 6/4/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SA9 1Ft

Project: Ross Ranch

Collection Date: 4/8/2020 2:20:00 PM

Lab ID: 2004552-020

Matrix: SOIL

Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/15/2020 8:13:07 PM	51836
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 2:43:23 AM	51747
Surr: BFB	97.4	70-130		%Rec	1	4/15/2020 2:43:23 AM	51747
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	46	9.6		mg/Kg	1	4/14/2020 4:18:18 PM	51754
Motor Oil Range Organics (MRO)	80	48		mg/Kg	1	4/14/2020 4:18:18 PM	51754
Surr: DNOP	93.7	55.1-146		%Rec	1	4/14/2020 4:18:18 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	4/15/2020 2:43:23 AM	51747
Toluene	ND	0.050		mg/Kg	1	4/15/2020 2:43:23 AM	51747
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 2:43:23 AM	51747
Xylenes, Total	ND	0.099		mg/Kg	1	4/15/2020 2:43:23 AM	51747
Surr: 1,2-Dichloroethane-d4	96.3	70-130		%Rec	1	4/15/2020 2:43:23 AM	51747
Surr: 4-Bromofluorobenzene	94.6	70-130		%Rec	1	4/15/2020 2:43:23 AM	51747
Surr: Dibromofluoromethane	99.9	70-130		%Rec	1	4/15/2020 2:43:23 AM	51747
Surr: Toluene-d8	93.5	70-130		%Rec	1	4/15/2020 2:43:23 AM	51747

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of range due to dilution or matrix

B	Analyte detected in the associated Method Blank
E	Value above quantitation range
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

Page 4 of 12

Analytical Report

Lab Order 2004552

Date Reported: 6/4/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SA10 1Ft

Project: Ross Ranch

Collection Date: 4/8/2020 2:50:00 PM

Lab ID: 2004552-021

Matrix: SOIL

Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/15/2020 8:25:31 PM	51836
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 3:11:42 AM	51747
Surr: BFB	99.0	70-130		%Rec	1	4/15/2020 3:11:42 AM	51747
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	4/14/2020 5:30:01 PM	51754
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	4/14/2020 5:30:01 PM	51754
Surr: DNOP	103	55.1-146		%Rec	1	4/14/2020 5:30:01 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	4/15/2020 3:11:42 AM	51747
Toluene	ND	0.050		mg/Kg	1	4/15/2020 3:11:42 AM	51747
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 3:11:42 AM	51747
Xylenes, Total	ND	0.10		mg/Kg	1	4/15/2020 3:11:42 AM	51747
Surr: 1,2-Dichloroethane-d4	96.1	70-130		%Rec	1	4/15/2020 3:11:42 AM	51747
Surr: 4-Bromofluorobenzene	93.9	70-130		%Rec	1	4/15/2020 3:11:42 AM	51747
Surr: Dibromofluoromethane	97.6	70-130		%Rec	1	4/15/2020 3:11:42 AM	51747
Surr: Toluene-d8	94.0	70-130		%Rec	1	4/15/2020 3:11:42 AM	51747

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 2004552

Date Reported: 6/4/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SA11 1Ft

Project: Ross Ranch

Collection Date: 4/8/2020 3:20:00 PM

Lab ID: 2004552-022

Matrix: SOIL

Received Date: 4/11/2020 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	4/15/2020 8:37:56 PM	51836
EPA METHOD 8015D MOD: GASOLINE RANGE							Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	4/15/2020 3:40:05 AM	51747
Surr: BFB	100	70-130		%Rec	1	4/15/2020 3:40:05 AM	51747
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	4/14/2020 5:53:56 PM	51754
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	4/14/2020 5:53:56 PM	51754
Surr: DNOP	110	55.1-146		%Rec	1	4/14/2020 5:53:56 PM	51754
EPA METHOD 8260B: VOLATILES SHORT LIST							Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	4/15/2020 3:40:05 AM	51747
Toluene	ND	0.050		mg/Kg	1	4/15/2020 3:40:05 AM	51747
Ethylbenzene	ND	0.050		mg/Kg	1	4/15/2020 3:40:05 AM	51747
Xylenes, Total	ND	0.10		mg/Kg	1	4/15/2020 3:40:05 AM	51747
Surr: 1,2-Dichloroethane-d4	94.2	70-130		%Rec	1	4/15/2020 3:40:05 AM	51747
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	4/15/2020 3:40:05 AM	51747
Surr: Dibromofluoromethane	99.6	70-130		%Rec	1	4/15/2020 3:40:05 AM	51747
Surr: Toluene-d8	93.5	70-130		%Rec	1	4/15/2020 3:40:05 AM	51747

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004552

04-Jun-20

Client: Safety & Environmental Solutions

Project: Ross Ranch

Sample ID: MB-51836	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51836	RunNo: 68136								
Prep Date: 4/15/2020	Analysis Date: 4/15/2020	SeqNo: 2356639 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51836	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51836	RunNo: 68136								
Prep Date: 4/15/2020	Analysis Date: 4/15/2020	SeqNo: 2356640 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.0	90	110			

Sample ID: MB-51819	SampType: mblk	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 51819	RunNo: 68146								
Prep Date: 4/15/2020	Analysis Date: 4/15/2020	SeqNo: 2356712 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-51819	SampType: lcs	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 51819	RunNo: 68146								
Prep Date: 4/15/2020	Analysis Date: 4/15/2020	SeqNo: 2356713 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 7 of 12

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004552

04-Jun-20

Client: Safety & Environmental Solutions**Project:** Ross Ranch

Sample ID: LCS-51753	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 51753		RunNo: 68138							
Prep Date: 4/13/2020	Analysis Date: 4/15/2020		SeqNo: 2355495		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	50	10	50.00	0	99.1	70	130			
Surr: DNOP	4.3		5.000		85.9	55.1	146			

Sample ID: MB-51753	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 51753		RunNo: 68138							
Prep Date: 4/13/2020	Analysis Date: 4/15/2020		SeqNo: 2355496		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.6		10.00		76.1	55.1	146			

Sample ID: MB-51754	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 51754		RunNo: 68099							
Prep Date: 4/13/2020	Analysis Date: 4/14/2020		SeqNo: 2355633		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	6.9		10.00		68.7	55.1	146			

Sample ID: LCS-51754	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 51754		RunNo: 68099							
Prep Date: 4/13/2020	Analysis Date: 4/14/2020		SeqNo: 2355634		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.4	70	130			
Surr: DNOP	4.4		5.000		88.3	55.1	146			

Sample ID: 2004552-020AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: SA9 1Ft	Batch ID: 51754		RunNo: 68099							
Prep Date: 4/13/2020	Analysis Date: 4/14/2020		SeqNo: 2355636		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	89	9.5	47.66	45.96	90.1	47.4	136			
Surr: DNOP	4.9		4.766		102	55.1	146			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 12

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004552

04-Jun-20

Client: Safety & Environmental Solutions**Project:** Ross Ranch

Sample ID: 2004552-020AMSD		SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: SA9 1Ft		Batch ID: 51754		RunNo: 68099						
Prep Date: 4/13/2020		Analysis Date: 4/14/2020		SeqNo: 2355637		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	91	9.2	46.13	45.96	97.5	47.4	136	2.27	43.4	
Surr: DNOP	4.3		4.613		93.7	55.1	146	0	0	

Qualifiers:

- | | | | |
|-----|---|----|---|
| • | Value exceeds Maximum Contaminant Level | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Value above quantitation range |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of range due to dilution or matrix | | |

Page 9 of 12

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004552

04-Jun-20

Client: Safety & Environmental Solutions**Project:** Ross Ranch

Sample ID: 2004552-012ams		SampType: MS		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: SA1 1Ft		Batch ID: 51747		RunNo: 68126						
Prep Date: 4/12/2020		Analysis Date: 4/14/2020		SeqNo: 2355174		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	0.9862	0	87.1	70	130			
Toluene	0.96	0.049	0.9862	0	97.0	70	130			
Ethylbenzene	0.96	0.049	0.9862	0	97.2	70	130			
Xylenes, Total	2.9	0.099	2.959	0	99.1	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.4931		91.7	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.4931		93.8	70	130			
Surr: Dibromofluoromethane	0.49		0.4931		100	70	130			
Surr: Toluene-d8	0.45		0.4931		91.7	70	130			

Sample ID: 2004552-012amsd		SampType: MSD		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: SA1 1Ft		Batch ID: 51747		RunNo: 68126						
Prep Date: 4/12/2020		Analysis Date: 4/14/2020		SeqNo: 2355175		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	0.9930	0	83.9	70	130	3.00	20	
Toluene	0.94	0.050	0.9930	0	94.6	70	130	1.82	20	
Ethylbenzene	0.97	0.050	0.9930	0	97.6	70	130	1.06	0	
Xylenes, Total	2.9	0.099	2.979	0	97.5	70	130	0.944	0	
Surr: 1,2-Dichloroethane-d4	0.47		0.4965		94.4	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.4965		96.2	70	130	0	0	
Surr: Dibromofluoromethane	0.51		0.4965		102	70	130	0	0	
Surr: Toluene-d8	0.47		0.4965		95.2	70	130	0	0	

Sample ID: lcs-51747		SampType: LCS		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: LCSS		Batch ID: 51747		RunNo: 68126						
Prep Date: 4/12/2020		Analysis Date: 4/14/2020		SeqNo: 2355186		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	1.000	0	89.1	70	130			
Toluene	1.0	0.050	1.000	0	101	70	130			
Ethylbenzene	1.0	0.050	1.000	0	102	70	130			
Xylenes, Total	3.1	0.10	3.000	0	103	70	130			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.2	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.8	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		101	70	130			
Surr: Toluene-d8	0.48		0.5000		96.5	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004552

04-Jun-20

Client: Safety & Environmental Solutions**Project:** Ross Ranch

Sample ID: mb-51747	SampType: MBLK	TestCode: EPA Method 8260B: Volatiles Short List								
Client ID: PBS	Batch ID: 51747	RunNo: 68126								
Prep Date: 4/12/2020	Analysis Date: 4/14/2020	SeqNo: 2355187			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.47		0.5000		94.9	70	130			
Surr: 4-Bromofluorobenzene	0.47		0.5000		93.7	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		100	70	130			
Surr: Toluene-d8	0.48		0.5000		95.7	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 11 of 12

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2004552

04-Jun-20

Client: Safety & Environmental Solutions**Project:** Ross Ranch

Sample ID: 2004552-013ams	SampType: MS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA2 1Ft	Batch ID: 51747	RunNo: 68126								
Prep Date: 4/12/2020	Analysis Date: 4/14/2020	SeqNo: 2355208 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.73	0	81.2	70	130			
Surr: BFB	480		494.6		97.9	70	130			

Sample ID: 2004552-013amsd	SampType: MSD	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: SA2 1Ft	Batch ID: 51747	RunNo: 68126								
Prep Date: 4/12/2020	Analysis Date: 4/14/2020	SeqNo: 2355209 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.73	0	82.4	70	130	1.52	20	
Surr: BFB	480		494.6		97.2	70	130	0	0	

Sample ID: lcs-51747	SampType: LCS	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: LCSS	Batch ID: 51747	RunNo: 68126								
Prep Date: 4/12/2020	Analysis Date: 4/14/2020	SeqNo: 2355219 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	5.0	25.00	0	85.9	70	130			
Surr: BFB	490		500.0		98.5	70	130			

Sample ID: mb-51747	SampType: MBLK	TestCode: EPA Method 8015D Mod: Gasoline Range								
Client ID: PBS	Batch ID: 51747	RunNo: 68126								
Prep Date: 4/12/2020	Analysis Date: 4/14/2020	SeqNo: 2355220 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	490		500.0		97.6	70	130			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety Env Solutions

Work Order Number: 2004552

RcptNo: 1

Received By: Erin Melendrez 4/11/2020 10:00:00 AM

Completed By: Erin Melendrez 4/11/2020 11:09:27 AM

Reviewed By: *df**UAG**UAG*

Chain of Custody

1. Is Chain of Custody sufficiently complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels? Yes ☒ No ☐
(Note discrepancies on chain of custody)
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met? Yes ☒ No ☐
(If no, notify customer for authorization.)

of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____

Checked by: *ENM 4/11/20*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:	<input type="text"/>	Date:	<input type="text"/>
By Whom:	<input type="text"/>	Via:	<input type="checkbox"/> eMail <input type="checkbox"/> Phone <input type="checkbox"/> Fax <input type="checkbox"/> In Person
Regarding:	<input type="text"/>		
Client Instructions:	<input type="text"/>		

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	0.6	Good				
2	3.3	Good				

Chain-of-Custody Record

Client: Safety & Environmental SolutionsMailing Address: 703 ClintonPhone #: 575 397 0510

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)Turn-Around Time: 5 day Turn☒ Standard ☐ RushProject Name: Ross RanchProject #: DEV-19-008

Project Manager:

Bob Allen

Sampler:

On Ice: ☒ Yes ☐ No# of Coolers: 12Cooler Temp (including CF): 0.9-0.30CF=0.6(C)

Container Type and #

Preservative Type

HEAL No.

2004552

1-4oz Jar Ice

-017

-013

-014

-015

-016

-017

-018

-019

-020

-021

-022

14oz Jar ICE

Date: 4-8-20Time: 1100Matrix: SESSample Name: SA1

1 FT

SA2

1 FT

SA3

1 FT

SA4

1 FT

SA5

1 FT

SA6

1 FT

SA7

1 FT

SA8

1 FT

SA9

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SA10

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SA155

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Chain-of-Custody Record

Client: Safety & Environmental SolutionsMailing Address: 703 ClintonPhone #: 575 397 0510

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)

Turn-Around Time:

5 day Turn☒ Standard ☐ RushProject Name: DEV-19-008
Ross RanchProject #: DEV-19-008Project Manager: Bob Allen

Sampler:

On Ice: ☒ Yes ☐ No# of Coolers: 12Cooler Temp (including CP): 0.9 = 0.3 (CF) = 0.6 (C)

Container Type and #

Preservative Type

HEALING No

2004552

-001

-002

-003

-004

-005

-006

-007

-008

-009

-010

-011

Date

Time

Matrix

Sample Name

SA1 Surface

SA2 Surface

SA3 Surface

SA4 Surface

SA5 Surface

SA6 Surface

SA7 Surface

SA8 Surface

SA9 Surface

SA10 Surface

SA11 Surface

SA12 Surface

SA13 Surface

SA14 Surface

SA15 Surface

SA16 Surface

SA17 Surface

SA18 Surface

SA19 Surface

SA20 Surface

SA21 Surface

SA22 Surface

SA23 Surface

SA24 Surface

Analysis Request

BTX / MTBE / TMBs (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCBs

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

Chlorides

**HALL ENVIRONMENTAL
ANALYSIS LABORATORY**

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Remarks:

Bill Directly To Devon

Received by: Roberto Markoe Jr Date: 4/9/20 Time: 1630Received by: Chad Date: 4/11/20 Time: 1000

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

September 08, 2023

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: DEV 19 008

OrderNo.: 2308D13

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 15 sample(s) on 8/24/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a light blue horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS1-Surface

Project: DEV 19 008

Collection Date: 8/21/2023 2:00:00 PM

Lab ID: 2308D13-001

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	120	60		mg/Kg	20	8/30/2023 1:07:53 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	22	10		mg/Kg	1	8/31/2023 1:56:38 PM	77177
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2023 1:56:38 PM	77177
Surr: DNOP	119	69-147		%Rec	1	8/31/2023 1:56:38 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2023 9:14:37 AM	77172
Surr: BFB	91.7	15-244		%Rec	1	9/2/2023 9:14:37 AM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	9/2/2023 9:14:37 AM	77172
Toluene	0.084	0.048		mg/Kg	1	9/2/2023 9:14:37 AM	77172
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2023 9:14:37 AM	77172
Xylenes, Total	ND	0.096		mg/Kg	1	9/2/2023 9:14:37 AM	77172
Surr: 4-Bromofluorobenzene	104	39.1-146		%Rec	1	9/2/2023 9:14:37 AM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS1-1'

Project: DEV 19 008

Collection Date: 8/21/2023 2:00:00 PM

Lab ID: 2308D13-002

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	670	60		mg/Kg	20	8/30/2023 1:20:18 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/31/2023 2:07:33 PM	77177
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2023 2:07:33 PM	77177
Surr: DNOP	104	69-147		%Rec	1	8/31/2023 2:07:33 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2023 9:38:16 AM	77172
Surr: BFB	93.0	15-244		%Rec	1	9/2/2023 9:38:16 AM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	9/2/2023 9:38:16 AM	77172
Toluene	ND	0.048		mg/Kg	1	9/2/2023 9:38:16 AM	77172
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2023 9:38:16 AM	77172
Xylenes, Total	ND	0.095		mg/Kg	1	9/2/2023 9:38:16 AM	77172
Surr: 4-Bromofluorobenzene	106	39.1-146		%Rec	1	9/2/2023 9:38:16 AM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS1-2'

Project: DEV 19 008

Collection Date: 8/21/2023 2:00:00 PM

Lab ID: 2308D13-003

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	760	60		mg/Kg	20	8/30/2023 1:32:42 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/31/2023 2:18:31 PM	77177
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/31/2023 2:18:31 PM	77177
Surr: DNOP	104	69-147		%Rec	1	8/31/2023 2:18:31 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/2/2023 10:01:54 AM	77172
Surr: BFB	94.2	15-244		%Rec	1	9/2/2023 10:01:54 AM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	9/2/2023 10:01:54 AM	77172
Toluene	ND	0.050		mg/Kg	1	9/2/2023 10:01:54 AM	77172
Ethylbenzene	ND	0.050		mg/Kg	1	9/2/2023 10:01:54 AM	77172
Xylenes, Total	ND	0.099		mg/Kg	1	9/2/2023 10:01:54 AM	77172
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	9/2/2023 10:01:54 AM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS2-Surface

Project: DEV 19 008

Collection Date: 8/21/2023 2:15:00 PM

Lab ID: 2308D13-004

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/30/2023 1:45:07 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	12	9.4		mg/Kg	1	8/31/2023 2:29:24 PM	77177
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/31/2023 2:29:24 PM	77177
Surr: DNOP	132	69-147		%Rec	1	8/31/2023 2:29:24 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2023 10:48:38 AM	77172
Surr: BFB	94.0	15-244		%Rec	1	9/2/2023 10:48:38 AM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	0.030	0.024		mg/Kg	1	9/2/2023 10:48:38 AM	77172
Toluene	0.073	0.048		mg/Kg	1	9/2/2023 10:48:38 AM	77172
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2023 10:48:38 AM	77172
Xylenes, Total	ND	0.096		mg/Kg	1	9/2/2023 10:48:38 AM	77172
Surr: 4-Bromofluorobenzene	109	39.1-146		%Rec	1	9/2/2023 10:48:38 AM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS2-1'

Project: DEV 19 008

Collection Date: 8/21/2023 2:15:00 PM

Lab ID: 2308D13-005

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/30/2023 7:20:14 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/31/2023 2:40:19 PM	77177
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2023 2:40:19 PM	77177
Surr: DNOP	86.7	69-147		%Rec	1	8/31/2023 2:40:19 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2023 11:12:00 AM	77172
Surr: BFB	91.9	15-244		%Rec	1	9/2/2023 11:12:00 AM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	9/2/2023 11:12:00 AM	77172
Toluene	ND	0.048		mg/Kg	1	9/2/2023 11:12:00 AM	77172
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2023 11:12:00 AM	77172
Xylenes, Total	ND	0.096		mg/Kg	1	9/2/2023 11:12:00 AM	77172
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	9/2/2023 11:12:00 AM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level,	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS2-2'

Project: DEV 19 008

Collection Date: 8/21/2023 2:15:00 PM

Lab ID: 2308D13-006

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	110	59		mg/Kg	20	8/30/2023 2:34:52 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/31/2023 2:51:13 PM	77177
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2023 2:51:13 PM	77177
Surr: DNOP	108	69-147		%Rec	1	8/31/2023 2:51:13 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/2/2023 11:35:25 AM	77172
Surr: BFB	93.5	15-244		%Rec	1	9/2/2023 11:35:25 AM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	9/2/2023 11:35:25 AM	77172
Toluene	ND	0.047		mg/Kg	1	9/2/2023 11:35:25 AM	77172
Ethylbenzene	ND	0.047		mg/Kg	1	9/2/2023 11:35:25 AM	77172
Xylenes, Total	ND	0.095		mg/Kg	1	9/2/2023 11:35:25 AM	77172
Surr: 4-Bromofluorobenzene	108	39.1-146		%Rec	1	9/2/2023 11:35:25 AM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS3-Surface

Project: DEV 19 008

Collection Date: 8/21/2023 2:30:00 PM

Lab ID: 2308D13-007

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	160	60		mg/Kg	20	8/30/2023 2:47:16 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	8/31/2023 3:02:06 PM	77177
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2023 3:02:06 PM	77177
Surr: DNOP	94.0	69-147		%Rec	1	8/31/2023 3:02:06 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	9/2/2023 11:58:51 AM	77172
Surr: BFB	96.0	15-244		%Rec	1	9/2/2023 11:58:51 AM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	0.024	0.023		mg/Kg	1	9/2/2023 11:58:51 AM	77172
Toluene	0.050	0.046		mg/Kg	1	9/2/2023 11:58:51 AM	77172
Ethylbenzene	ND	0.046		mg/Kg	1	9/2/2023 11:58:51 AM	77172
Xylenes, Total	ND	0.093		mg/Kg	1	9/2/2023 11:58:51 AM	77172
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	9/2/2023 11:58:51 AM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS3-1'

Project: DEV 19 008

Collection Date: 8/21/2023 2:30:00 PM

Lab ID: 2308D13-008

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	340	60		mg/Kg	20	8/30/2023 2:59:40 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	23	9.9		mg/Kg	1	8/31/2023 3:12:58 PM	77177
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/31/2023 3:12:58 PM	77177
Surr: DNOP	82.6	69-147		%Rec	1	8/31/2023 3:12:58 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2023 12:22:19 PM	77172
Surr: BFB	93.7	15-244		%Rec	1	9/2/2023 12:22:19 PM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	9/2/2023 12:22:19 PM	77172
Toluene	ND	0.049		mg/Kg	1	9/2/2023 12:22:19 PM	77172
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2023 12:22:19 PM	77172
Xylenes, Total	ND	0.098		mg/Kg	1	9/2/2023 12:22:19 PM	77172
Surr: 4-Bromofluorobenzene	106	39.1-146		%Rec	1	9/2/2023 12:22:19 PM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS3-2'

Project: DEV 19 008

Collection Date: 8/21/2023 2:30:00 PM

Lab ID: 2308D13-009

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	420	60		mg/Kg	20	8/30/2023 3:12:04 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	8/31/2023 3:23:48 PM	77177
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	8/31/2023 3:23:48 PM	77177
Surr: DNOP	134	69-147		%Rec	1	8/31/2023 3:23:48 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2023 12:45:51 PM	77172
Surr: BFB	96.7	15-244		%Rec	1	9/2/2023 12:45:51 PM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	9/2/2023 12:45:51 PM	77172
Toluene	ND	0.049		mg/Kg	1	9/2/2023 12:45:51 PM	77172
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2023 12:45:51 PM	77172
Xylenes, Total	ND	0.097		mg/Kg	1	9/2/2023 12:45:51 PM	77172
Surr: 4-Bromofluorobenzene	110	39.1-146		%Rec	1	9/2/2023 12:45:51 PM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
 E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS4-Surface

Project: DEV 19 008

Collection Date: 8/21/2023 2:45:00 PM

Lab ID: 2308D13-010

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/30/2023 3:24:29 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	17	9.7		mg/Kg	1	8/31/2023 3:34:40 PM	77177
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2023 3:34:40 PM	77177
Surr: DNOP	118	69-147		%Rec	1	8/31/2023 3:34:40 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2023 1:09:24 PM	77172
Surr: BFB	92.7	15-244		%Rec	1	9/2/2023 1:09:24 PM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	0.041	0.024		mg/Kg	1	9/2/2023 1:09:24 PM	77172
Toluene	0.12	0.048		mg/Kg	1	9/2/2023 1:09:24 PM	77172
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2023 1:09:24 PM	77172
Xylenes, Total	ND	0.096		mg/Kg	1	9/2/2023 1:09:24 PM	77172
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	9/2/2023 1:09:24 PM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS4-1'

Project: DEV 19 008

Collection Date: 8/21/2023 2:45:00 PM

Lab ID: 2308D13-011

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	280	60		mg/Kg	20	8/30/2023 3:36:53 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/31/2023 12:20:59 PM	77177
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	8/31/2023 12:20:59 PM	77177
Surr: DNOP	103	69-147		%Rec	1	8/31/2023 12:20:59 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/2/2023 1:32:56 PM	77172
Surr: BFB	95.2	15-244		%Rec	1	9/2/2023 1:32:56 PM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	9/2/2023 1:32:56 PM	77172
Toluene	ND	0.047		mg/Kg	1	9/2/2023 1:32:56 PM	77172
Ethylbenzene	ND	0.047		mg/Kg	1	9/2/2023 1:32:56 PM	77172
Xylenes, Total	ND	0.094		mg/Kg	1	9/2/2023 1:32:56 PM	77172
Surr: 4-Bromofluorobenzene	107	39.1-146		%Rec	1	9/2/2023 1:32:56 PM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS4-2'

Project: DEV 19 008

Collection Date: 8/21/2023 2:45:00 PM

Lab ID: 2308D13-012

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	240	59		mg/Kg	20	8/30/2023 3:49:17 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	7.6		mg/Kg	1	8/31/2023 12:45:26 PM	77177
Motor Oil Range Organics (MRO)	ND	38		mg/Kg	1	8/31/2023 12:45:26 PM	77177
Surr: DNOP	99.4	69-147		%Rec	1	8/31/2023 12:45:26 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/2/2023 1:56:28 PM	77172
Surr: BFB	93.4	15-244		%Rec	1	9/2/2023 1:56:28 PM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	9/2/2023 1:56:28 PM	77172
Toluene	ND	0.047		mg/Kg	1	9/2/2023 1:56:28 PM	77172
Ethylbenzene	ND	0.047		mg/Kg	1	9/2/2023 1:56:28 PM	77172
Xylenes, Total	ND	0.094		mg/Kg	1	9/2/2023 1:56:28 PM	77172
Surr: 4-Bromofluorobenzene	105	39.1-146		%Rec	1	9/2/2023 1:56:28 PM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS5-Surface

Project: DEV 19 008

Collection Date: 8/21/2023 3:00:00 PM

Lab ID: 2308D13-013

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	59		mg/Kg	20	8/30/2023 4:51:19 PM	77188
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	40	9.5		mg/Kg	1	8/31/2023 1:09:51 PM	77177
Motor Oil Range Organics (MRO)	69	47		mg/Kg	1	8/31/2023 1:09:51 PM	77177
Surr: DNOP	103	69-147		%Rec	1	8/31/2023 1:09:51 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	9/2/2023 2:20:03 PM	77172
Surr: BFB	96.7	15-244		%Rec	1	9/2/2023 2:20:03 PM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	0.028	0.024		mg/Kg	1	9/2/2023 2:20:03 PM	77172
Toluene	0.063	0.047		mg/Kg	1	9/2/2023 2:20:03 PM	77172
Ethylbenzene	ND	0.047		mg/Kg	1	9/2/2023 2:20:03 PM	77172
Xylenes, Total	ND	0.095		mg/Kg	1	9/2/2023 2:20:03 PM	77172
Surr: 4-Bromofluorobenzene	110	39.1-146		%Rec	1	9/2/2023 2:20:03 PM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
 E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS5-1'

Project: DEV 19 008

Collection Date: 8/21/2023 3:00:00 PM

Lab ID: 2308D13-014

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/30/2023 5:03:44 PM	77199
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	8/31/2023 1:34:22 PM	77177
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	8/31/2023 1:34:22 PM	77177
Surr: DNOP	134	69-147		%Rec	1	8/31/2023 1:34:22 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/2/2023 3:07:09 PM	77172
Surr: BFB	98.0	15-244		%Rec	1	9/2/2023 3:07:09 PM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	9/2/2023 3:07:09 PM	77172
Toluene	ND	0.049		mg/Kg	1	9/2/2023 3:07:09 PM	77172
Ethylbenzene	ND	0.049		mg/Kg	1	9/2/2023 3:07:09 PM	77172
Xylenes, Total	ND	0.099		mg/Kg	1	9/2/2023 3:07:09 PM	77172
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	9/2/2023 3:07:09 PM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 2308D13

Date Reported: 9/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: CS5-2'

Project: DEV 19 008

Collection Date: 8/21/2023 3:00:00 PM

Lab ID: 2308D13-015

Matrix: SOIL

Received Date: 8/24/2023 7:25:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	8/30/2023 5:40:57 PM	77199
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	8/31/2023 1:58:58 PM	77177
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	8/31/2023 1:58:58 PM	77177
Surr: DNOP	115	69-147		%Rec	1	8/31/2023 1:58:58 PM	77177
EPA METHOD 8015D: GASOLINE RANGE							Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	9/2/2023 3:30:42 PM	77172
Surr: BFB	99.0	15-244		%Rec	1	9/2/2023 3:30:42 PM	77172
EPA METHOD 8021B: VOLATILES							Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	9/2/2023 3:30:42 PM	77172
Toluene	ND	0.048		mg/Kg	1	9/2/2023 3:30:42 PM	77172
Ethylbenzene	ND	0.048		mg/Kg	1	9/2/2023 3:30:42 PM	77172
Xylenes, Total	ND	0.095		mg/Kg	1	9/2/2023 3:30:42 PM	77172
Surr: 4-Bromofluorobenzene	111	39.1-146		%Rec	1	9/2/2023 3:30:42 PM	77172

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308D13

08-Sep-23

Client: Safety & Environmental Solutions**Project:** DEV 19 008

Sample ID: MB-77188	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 77188	RunNo: 99351								
Prep Date: 8/30/2023	Analysis Date: 8/30/2023	SeqNo: 3626391	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77188	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 77188	RunNo: 99351								
Prep Date: 8/30/2023	Analysis Date: 8/30/2023	SeqNo: 3626392	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	96.5	90	110			

Sample ID: MB-77199	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 77199	RunNo: 99351								
Prep Date: 8/30/2023	Analysis Date: 8/30/2023	SeqNo: 3626420	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-77199	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 77199	RunNo: 99351								
Prep Date: 8/30/2023	Analysis Date: 8/30/2023	SeqNo: 3626421	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.0	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2308D13

08-Sep-23

Client: Safety & Environmental Solutions

Project: DEV 19 008

Sample ID: LCS-77177	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 77177	RunNo: 99380								
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: 3627016 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	61.9	130			
Surr: DNOP	5.7		5.000		114	69	147			

Sample ID: MB-77177	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 77177	RunNo: 99380								
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: 3627018 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		116	69	147			

Sample ID: 2308D13-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: CS1-Surface	Batch ID: 77177	RunNo: 99395								
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: 3627858 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	62	9.9	49.31	22.44	79.8	54.2	135			
Surr: DNOP	5.4		4.931		109	69	147			

Sample ID: 2308D13-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: CS1-Surface	Batch ID: 77177	RunNo: 99395								
Prep Date: 8/29/2023	Analysis Date: 8/31/2023	SeqNo: 3627859 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	9.9	49.31	22.44	72.8	54.2	135	5.76	29.2	
Surr: DNOP	5.3		4.931		107	69	147	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2308D13

08-Sep-23

Client: Safety & Environmental Solutions**Project:** DEV 19 008

Sample ID: lcs-77172	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 77172		RunNo: 99411							
Prep Date: 8/29/2023	Analysis Date: 9/2/2023		SeqNo: 3628857		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.5	70	130			
Surr: BFB	1900		1000		191	15	244			

Sample ID: lcs-77218	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 77218		RunNo: 99411							
Prep Date: 8/30/2023	Analysis Date: 9/2/2023		SeqNo: 3628858		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	2000		1000		203	15	244			

Sample ID: mb-77172	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 77172		RunNo: 99411							
Prep Date: 8/29/2023	Analysis Date: 9/2/2023		SeqNo: 3628859		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	940		1000		93.5	15	244			

Sample ID: mb-77218	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 77218		RunNo: 99411							
Prep Date: 8/30/2023	Analysis Date: 9/2/2023		SeqNo: 3628860		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	970		1000		97.1	15	244			

Sample ID: 2308d13-001ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: CS1-Surface	Batch ID: 77172		RunNo: 99411							
Prep Date: 8/29/2023	Analysis Date: 9/2/2023		SeqNo: 3628862		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.99	0	91.1	70	130			
Surr: BFB	2000		959.7		204	15	244			

Sample ID: 2308d13-001amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: CS1-Surface	Batch ID: 77172		RunNo: 99411							
Prep Date: 8/29/2023	Analysis Date: 9/2/2023		SeqNo: 3628863		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.92	0	90.6	70	130	0.860	20	
Surr: BFB	2000		956.9		207	15	244	0	0	

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 18 of 20

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2308D13

08-Sep-23

Client: Safety & Environmental Solutions**Project:** DEV 19 008

Sample ID: 2308d13-002ams	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: CS1-1'	Batch ID: 77172	RunNo: 99411								
Prep Date: 8/29/2023	Analysis Date: 9/2/2023	SeqNo: 3628918			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9524	0	100	70	130			
Toluene	0.97	0.048	0.9524	0	102	70	130			
Ethylbenzene	0.98	0.048	0.9524	0	103	70	130			
Xylenes, Total	3.0	0.095	2.857	0.01754	104	70	130			
Surr: 4-Bromofluorobenzene	1.0		0.9524		109	39.1	146			

Sample ID: 2308d13-002amsd	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: CS1-1'	Batch ID: 77172	RunNo: 99411								
Prep Date: 8/29/2023	Analysis Date: 9/2/2023	SeqNo: 3628919			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9533	0	100	70	130	0.00454	20	
Toluene	0.97	0.048	0.9533	0	101	70	130	0.701	20	
Ethylbenzene	0.98	0.048	0.9533	0	103	70	130	0.455	20	
Xylenes, Total	3.0	0.095	2.860	0.01754	103	70	130	0.0680	20	
Surr: 4-Bromofluorobenzene	1.0		0.9533		109	39.1	146	0	0	

Sample ID: LCS-77172	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 77172	RunNo: 99411								
Prep Date: 8/29/2023	Analysis Date: 9/2/2023	SeqNo: 3628971			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	91.1	70	130			
Toluene	0.92	0.050	1.000	0	91.6	70	130			
Ethylbenzene	0.92	0.050	1.000	0	91.5	70	130			
Xylenes, Total	2.8	0.10	3.000	0	92.4	70	130			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	39.1	146			

Sample ID: LCS-77218	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 77218	RunNo: 99411								
Prep Date: 8/30/2023	Analysis Date: 9/2/2023	SeqNo: 3628972			Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		106	39.1	146			

Sample ID: mb-77172	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 77172	RunNo: 99411								
Prep Date: 8/29/2023	Analysis Date: 9/2/2023	SeqNo: 3628973			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**WO#: **2308D13****08-Sep-23****Client:** Safety & Environmental Solutions**Project:** DEV 19 008

Sample ID: mb-77172	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 77172	RunNo: 99411								
Prep Date: 8/29/2023	Analysis Date: 9/2/2023	SeqNo: 3628973 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		105	39.1	146			

Sample ID: mb-77218	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 77218	RunNo: 99411								
Prep Date: 8/30/2023	Analysis Date: 9/2/2023	SeqNo: 3628974 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	1.1		1.000		109	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2308D13

RcptNo: 1

Received By: Tracy Casarrubias 8/24/2023 7:25:00 AM

Completed By: Tracy Casarrubias 8/24/2023 9:41:11 AM

Reviewed By: JW 8/24/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4''$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved bottles checked for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: SCM 8/24/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.3	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Safety & Environmental Solutions

Inc.

Mailing Address: 703 E ClintonHolbrook NM 88840Phone #: 575-397-0510email or Fax#: ballen@sesi-nm.com

QA/QC Package:

☒ Standard☐ Level 4 (Full Validation)

Accreditation:

☐ AZ Compliance☐ NELAC☐ Other☐ EDD (Type)

Sampler:

On Ice:

☒ Yes☐ No# of Coolers: 1Cooler Temp (including CP): 5.3-0-5.3 (°C)

Container

Type and #

Preservative

Type

HEAL No.

2308D1340oz Jar 1ICE01340oz Jar 1ICE01440oz Jar 1ICE015

Date

Time

Matrix

Sample Name

8/21/2315:00SCS5-Surface8/21/2315:00SCS5-1'8/21/2315:00SCS5-a'8/21/23



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

October 24, 2023

Bob Allen
Safety & Environmental Solutions
PO Box 1613
Hobbs, NM 88241
TEL: (575) 397-0510
FAX: (575) 393-4388

RE: Ross Ranch 10 Fed 1

OrderNo.: 2310584

Dear Bob Allen:

Hall Environmental Analysis Laboratory received 10 sample(s) on 10/12/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Comp S 4@6'

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 1:45:00 PM

Lab ID: 2310584-001

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	1000	60		mg/Kg	20	10/18/2023 4:35:47 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	10/13/2023 5:00:20 PM	78148
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	10/13/2023 5:00:20 PM	78148
Surr: DNOP	98.9	69-147		%Rec	1	10/13/2023 5:00:20 PM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2023 3:47:00 PM	78126
Surr: BFB	100	15-244		%Rec	1	10/16/2023 3:47:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 3:47:00 PM	78126
Toluene	ND	0.048		mg/Kg	1	10/16/2023 3:47:00 PM	78126
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2023 3:47:00 PM	78126
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2023 3:47:00 PM	78126
Surr: 4-Bromofluorobenzene	91.4	39.1-146		%Rec	1	10/16/2023 3:47:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Comp S 5@1'

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 2:15:00 PM

Lab ID: 2310584-002

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 4:48:11 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	13	9.6		mg/Kg	1	10/13/2023 5:10:59 PM	78148
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/13/2023 5:10:59 PM	78148
Surr: DNOP	92.7	69-147		%Rec	1	10/13/2023 5:10:59 PM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	10/16/2023 4:09:00 PM	78126
Surr: BFB	103	15-244		%Rec	1	10/16/2023 4:09:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 4:09:00 PM	78126
Toluene	ND	0.049		mg/Kg	1	10/16/2023 4:09:00 PM	78126
Ethylbenzene	ND	0.049		mg/Kg	1	10/16/2023 4:09:00 PM	78126
Xylenes, Total	ND	0.098		mg/Kg	1	10/16/2023 4:09:00 PM	78126
Surr: 4-Bromofluorobenzene	87.9	39.1-146		%Rec	1	10/16/2023 4:09:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP6

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 12:50:00 PM

Lab ID: 2310584-003

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 5:00:36 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	10/13/2023 5:32:14 PM	78148
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	10/13/2023 5:32:14 PM	78148
Surr: DNOP	98.9	69-147		%Rec	1	10/13/2023 5:32:14 PM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2023 4:31:00 PM	78126
Surr: BFB	99.4	15-244		%Rec	1	10/16/2023 4:31:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 4:31:00 PM	78126
Toluene	ND	0.048		mg/Kg	1	10/16/2023 4:31:00 PM	78126
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2023 4:31:00 PM	78126
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2023 4:31:00 PM	78126
Surr: 4-Bromofluorobenzene	87.9	39.1-146		%Rec	1	10/16/2023 4:31:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP7

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 1:11:00 PM

Lab ID: 2310584-004

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	180	60		mg/Kg	20	10/18/2023 5:13:01 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	10/13/2023 5:42:53 PM	78148
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	10/13/2023 5:42:53 PM	78148
Surr: DNOP	104	69-147		%Rec	1	10/13/2023 5:42:53 PM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/16/2023 4:52:00 PM	78126
Surr: BFB	95.8	15-244		%Rec	1	10/16/2023 4:52:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 4:52:00 PM	78126
Toluene	ND	0.047		mg/Kg	1	10/16/2023 4:52:00 PM	78126
Ethylbenzene	ND	0.047		mg/Kg	1	10/16/2023 4:52:00 PM	78126
Xylenes, Total	ND	0.094		mg/Kg	1	10/16/2023 4:52:00 PM	78126
Surr: 4-Bromofluorobenzene	86.2	39.1-146		%Rec	1	10/16/2023 4:52:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated		

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP8

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 1:19:00 PM

Lab ID: 2310584-005

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 6:15:03 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	16	9.7		mg/Kg	1	10/16/2023 11:18:56 AM	78148
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/16/2023 11:18:56 AM	78148
Surr: DNOP	110	69-147		%Rec	1	10/16/2023 11:18:56 AM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2023 5:35:00 PM	78126
Surr: BFB	99.9	15-244		%Rec	1	10/16/2023 5:35:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 5:35:00 PM	78126
Toluene	ND	0.048		mg/Kg	1	10/16/2023 5:35:00 PM	78126
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2023 5:35:00 PM	78126
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2023 5:35:00 PM	78126
Surr: 4-Bromofluorobenzene	86.2	39.1-146		%Rec	1	10/16/2023 5:35:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP9

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 1:39:00 PM

Lab ID: 2310584-006

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	220	60		mg/Kg	20	10/18/2023 6:27:27 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	10/13/2023 6:04:18 PM	78148
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	10/13/2023 6:04:18 PM	78148
Surr: DNOP	107	69-147		%Rec	1	10/13/2023 6:04:18 PM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/16/2023 5:57:00 PM	78126
Surr: BFB	100	15-244		%Rec	1	10/16/2023 5:57:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 5:57:00 PM	78126
Toluene	ND	0.047		mg/Kg	1	10/16/2023 5:57:00 PM	78126
Ethylbenzene	ND	0.047		mg/Kg	1	10/16/2023 5:57:00 PM	78126
Xylenes, Total	ND	0.095		mg/Kg	1	10/16/2023 5:57:00 PM	78126
Surr: 4-Bromofluorobenzene	85.2	39.1-146		%Rec	1	10/16/2023 5:57:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP10

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 2:30:00 PM

Lab ID: 2310584-007

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 6:39:52 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	24	9.6		mg/Kg	1	10/16/2023 11:08:23 AM	78148
Motor Oil Range Organics (MRO)	53	48		mg/Kg	1	10/16/2023 11:08:23 AM	78148
Surr: DNOP	110	69-147		%Rec	1	10/16/2023 11:08:23 AM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2023 6:19:00 PM	78126
Surr: BFB	122	15-244		%Rec	1	10/16/2023 6:19:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 6:19:00 PM	78126
Toluene	ND	0.048		mg/Kg	1	10/16/2023 6:19:00 PM	78126
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2023 6:19:00 PM	78126
Xylenes, Total	ND	0.096		mg/Kg	1	10/16/2023 6:19:00 PM	78126
Surr: 4-Bromofluorobenzene	95.9	39.1-146		%Rec	1	10/16/2023 6:19:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP11

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 2:30:00 PM

Lab ID: 2310584-008

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 6:52:16 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	13	9.2		mg/Kg	1	10/16/2023 12:22:27 PM	78148
Motor Oil Range Organics (MRO)	56	46		mg/Kg	1	10/16/2023 12:22:27 PM	78148
Surr: DNOP	110	69-147		%Rec	1	10/16/2023 12:22:27 PM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	10/16/2023 6:40:00 PM	78126
Surr: BFB	103	15-244		%Rec	1	10/16/2023 6:40:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.023		mg/Kg	1	10/16/2023 6:40:00 PM	78126
Toluene	ND	0.046		mg/Kg	1	10/16/2023 6:40:00 PM	78126
Ethylbenzene	ND	0.046		mg/Kg	1	10/16/2023 6:40:00 PM	78126
Xylenes, Total	ND	0.092		mg/Kg	1	10/16/2023 6:40:00 PM	78126
Surr: 4-Bromofluorobenzene	87.9	39.1-146		%Rec	1	10/16/2023 6:40:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP12

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 2:30:00 PM

Lab ID: 2310584-009

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 7:04:40 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	20	9.9		mg/Kg	1	10/16/2023 11:50:39 AM	78148
Motor Oil Range Organics (MRO)	56	50		mg/Kg	1	10/16/2023 11:50:39 AM	78148
Surr: DNOP	105	69-147		%Rec	1	10/16/2023 11:50:39 AM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	10/16/2023 7:02:00 PM	78126
Surr: BFB	113	15-244		%Rec	1	10/16/2023 7:02:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 7:02:00 PM	78126
Toluene	ND	0.048		mg/Kg	1	10/16/2023 7:02:00 PM	78126
Ethylbenzene	ND	0.048		mg/Kg	1	10/16/2023 7:02:00 PM	78126
Xylenes, Total	ND	0.097		mg/Kg	1	10/16/2023 7:02:00 PM	78126
Surr: 4-Bromofluorobenzene	93.3	39.1-146		%Rec	1	10/16/2023 7:02:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2310584

Date Reported: 10/24/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP13

Project: Ross Ranch 10 Fed 1

Collection Date: 10/10/2023 2:30:00 PM

Lab ID: 2310584-010

Matrix: SOIL

Received Date: 10/12/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: JMT
Chloride	ND	60		mg/Kg	20	10/18/2023 7:17:05 PM	78204
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: DGH
Diesel Range Organics (DRO)	200	9.8		mg/Kg	1	10/16/2023 12:01:17 PM	78148
Motor Oil Range Organics (MRO)	350	49		mg/Kg	1	10/16/2023 12:01:17 PM	78148
Surr: DNOP	111	69-147		%Rec	1	10/16/2023 12:01:17 PM	78148
EPA METHOD 8015D: GASOLINE RANGE							Analyst: KMN
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	10/16/2023 7:24:00 PM	78126
Surr: BFB	110	15-244		%Rec	1	10/16/2023 7:24:00 PM	78126
EPA METHOD 8021B: VOLATILES							Analyst: KMN
Benzene	ND	0.024		mg/Kg	1	10/16/2023 7:24:00 PM	78126
Toluene	ND	0.047		mg/Kg	1	10/16/2023 7:24:00 PM	78126
Ethylbenzene	ND	0.047		mg/Kg	1	10/16/2023 7:24:00 PM	78126
Xylenes, Total	ND	0.095		mg/Kg	1	10/16/2023 7:24:00 PM	78126
Surr: 4-Bromofluorobenzene	103	39.1-146		%Rec	1	10/16/2023 7:24:00 PM	78126

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310584

24-Oct-23

Client: Safety & Environmental Solutions

Project: Ross Ranch 10 Fed 1

Sample ID: MB-78204	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 78204	RunNo: 100553								
Prep Date: 10/17/2023	Analysis Date: 10/17/2023	SeqNo: 3685461 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2310584

24-Oct-23

Client: Safety & Environmental Solutions

Project: Ross Ranch 10 Fed 1

Sample ID: LCS-78148	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 78148			RunNo: 100445						
Prep Date: 10/13/2023	Analysis Date: 10/13/2023			SeqNo: 3681185		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	10	50.00	0	87.4	61.9	130			
Surr: DNOP	3.8		5.000		76.5	69	147			

Sample ID: MB-78148	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 78148			RunNo: 100445						
Prep Date: 10/13/2023	Analysis Date: 10/13/2023			SeqNo: 3681186		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.4		10.00		83.9	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2310584

24-Oct-23

Client: Safety & Environmental Solutions**Project:** Ross Ranch 10 Fed 1

Sample ID: lcs-78126	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 78126		RunNo: 100497							
Prep Date: 10/12/2023	Analysis Date: 10/16/2023		SeqNo: 3683197		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	100	70	130			
Surr: BFB	2200		1000		218	15	244			

Sample ID: mb-78126	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 78126		RunNo: 100497							
Prep Date: 10/12/2023	Analysis Date: 10/16/2023		SeqNo: 3683213		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2310584

24-Oct-23

Client: Safety & Environmental Solutions**Project:** Ross Ranch 10 Fed 1

Sample ID: lcs-78126	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 78126	RunNo: 100497								
Prep Date: 10/12/2023	Analysis Date: 10/16/2023	SeqNo: 3683164	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.025	1.000	0	86.5	70	130			
Toluene	0.87	0.050	1.000	0	87.0	70	130			
Ethylbenzene	0.90	0.050	1.000	0	89.7	70	130			
Xylenes, Total	2.7	0.10	3.000	0	89.2	70	130			
Surr: 4-Bromofluorobenzene	0.91		1.000		90.6	39.1	146			

Sample ID: mb-78126	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 78126	RunNo: 100497								
Prep Date: 10/12/2023	Analysis Date: 10/16/2023	SeqNo: 3683165	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.92		1.000		91.5	39.1	146			

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental Solutions

Work Order Number: 2310584

RcptNo: 1

Received By: Tracy Casarrubias 10/12/2023 7:30:00 AM

Completed By: Cheyenne Cason 10/12/2023 7:37:11 AM

Reviewed By: *JH 10-12-23*

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: *JH 10/12/23*

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified:

Date:

By Whom:

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding:

Client Instructions:

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.0	Good	Not Present	Yogi		



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

December 08, 2023

Bob Allen

Safety & Environmental Solutions

PO Box 1613

Hobbs, NM 88241

TEL: (575) 397-0510

FAX: (575) 393-4388

RE: Ross Ranch 10 Fed 1 NAB 1728628311

OrderNo.: 2311D10

Dear Bob Allen:

Eurofins Environment Testing South Central, LLC received 2 sample(s) on 11/29/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", written over a light blue horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2311D10

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: Comp 57@1ft

Project: Ross Ranch 10 Fed 1 NAB 1728628311

Collection Date: 11/27/2023 9:10:00 AM

Lab ID: 2311D10-001

Matrix: SOIL

Received Date: 11/29/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	ND	61		mg/Kg	20	12/4/2023 3:15:07 PM	79116
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/1/2023 11:14:25 PM	79080
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/1/2023 11:14:25 PM	79080
Surr: DNOP	79.4	69-147		%Rec	1	12/1/2023 11:14:25 PM	79080
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	11/30/2023 8:39:00 PM	79043
Surr: BFB	99.6	15-244		%Rec	1	11/30/2023 8:39:00 PM	79043
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/30/2023 8:39:00 PM	79043
Toluene	ND	0.047		mg/Kg	1	11/30/2023 8:39:00 PM	79043
Ethylbenzene	ND	0.047		mg/Kg	1	11/30/2023 8:39:00 PM	79043
Xylenes, Total	ND	0.094		mg/Kg	1	11/30/2023 8:39:00 PM	79043
Surr: 4-Bromofluorobenzene	93.1	39.1-146		%Rec	1	11/30/2023 8:39:00 PM	79043

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

•	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

Analytical Report

Lab Order 2311D10

Date Reported: 12/8/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Safety & Environmental Solutions

Client Sample ID: SP-14@13ft

Project: Ross Ranch 10 Fed 1 NAB 1728628311

Collection Date: 11/27/2023 12:08:00 PM

Lab ID: 2311D10-002

Matrix: SOIL

Received Date: 11/29/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: RBC
Chloride	390	61		mg/Kg	20	12/4/2023 3:27:31 PM	79116
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: PRD
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	12/1/2023 11:24:48 PM	79080
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/1/2023 11:24:48 PM	79080
Surr: DNOP	70.3	69-147		%Rec	1	12/1/2023 11:24:48 PM	79080
EPA METHOD 8015D: GASOLINE RANGE							Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	11/30/2023 9:01:00 PM	79043
Surr: BFB	98.7	15-244		%Rec	1	11/30/2023 9:01:00 PM	79043
EPA METHOD 8021B: VOLATILES							Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	11/30/2023 9:01:00 PM	79043
Toluene	ND	0.048		mg/Kg	1	11/30/2023 9:01:00 PM	79043
Ethylbenzene	ND	0.048		mg/Kg	1	11/30/2023 9:01:00 PM	79043
Xylenes, Total	ND	0.096		mg/Kg	1	11/30/2023 9:01:00 PM	79043
Surr: 4-Bromofluorobenzene	92.6	39.1-146		%Rec	1	11/30/2023 9:01:00 PM	79043

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D10

08-Dec-23

Client: Safety & Environmental Solutions**Project:** Ross Ranch 10 Fed 1 NAB 1728628311

Sample ID: MB-79116		SampType: MBLK		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 79116		RunNo: 101587						
Prep Date: 12/4/2023		Analysis Date: 12/4/2023		SeqNo: 3741043			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79116		SampType: LCS		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 79116		RunNo: 101587						
Prep Date: 12/4/2023		Analysis Date: 12/4/2023		SeqNo: 3741044		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.2	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2311D10

08-Dec-23

Client: Safety & Environmental Solutions**Project:** Ross Ranch 10 Fed 1 NAB 1728628311

Sample ID: LCS-79080	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 79080		RunNo: 101534							
Prep Date: 11/30/2023	Analysis Date: 12/1/2023		SeqNo: 3738774		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10	50.00	0	89.4	61.9	130			
Surr: DNOP	4.5		5.000		89.2	69	147			

Sample ID: MB-79080	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 79080		RunNo: 101534							
Prep Date: 11/30/2023	Analysis Date: 12/1/2023		SeqNo: 3738775		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	8.1		10.00		80.8	69	147			

Qualifiers:

•	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quantitative Limit	RL	Reporting Limit
S	% Recovery outside of standard limits. If undiluted results may be estimated.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2311D10

08-Dec-23

Client: Safety & Environmental Solutions
Project: Ross Ranch 10 Fed 1 NAB 1728628311

Sample ID: ics-79043	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 79043		RunNo: 101531							
Prep Date: 11/29/2023	Analysis Date: 11/30/2023		SeqNo: 3738122		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.1	70	130			
Surr: BFB	2200		1000		220	15	244			

Sample ID: mb-79043	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 79043		RunNo: 101531							
Prep Date: 11/29/2023	Analysis Date: 11/30/2023		SeqNo: 3738123		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		100	15	244			

Qualifiers:

- | | | | |
|-----|---|----|---|
| • | Value exceeds Maximum Contaminant Level | B | Analyte detected in the associated Method Blank |
| D | Sample Diluted Due to Matrix | E | Above Quantitation Range/Estimated Value |
| H | Holding times for preparation or analysis exceeded | J | Analyte detected below quantitation limits |
| ND | Not Detected at the Reporting Limit | P | Sample pH Not In Range |
| PQL | Practical Quantitative Limit | RL | Reporting Limit |
| S | % Recovery outside of standard limits. If undiluted results may be estimated. | | |

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2311D10

08-Dec-23

Client: Safety & Environmental Solutions**Project:** Ross Ranch 10 Fed 1 NAB 1728628311

Sample ID: lcs-79043	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79043		RunNo: 101531							
Prep Date: 11/29/2023	Analysis Date: 11/30/2023		SeqNo: 3738149		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	94.1	70	130			
Toluene	0.95	0.050	1.000	0	94.7	70	130			
Ethylbenzene	0.97	0.050	1.000	0	96.6	70	130			
Xylenes, Total	2.9	0.10	3.000	0	96.8	70	130			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.0	39.1	146			

Sample ID: mb-79043	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79043		RunNo: 101531							
Prep Date: 11/29/2023	Analysis Date: 11/30/2023		SeqNo: 3738150		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	39.1	146			

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit



Environmental Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Safety & Environmental

Work Order Number: 2311D10

RcptNo: 1

Received By: Tracy Casarrubias 11/29/2023 7:30:00 AM

Completed By: Tracy Casarrubias 11/29/2023 7:45:56 AM

Reviewed By: *ju 11/29/23*Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: *1*
(<2 or >12 unless noted)
Adjusted? *scm*
Checked by: *scm* 11/29/23

Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.4	Good	Yes	Yogi		

Chain-of-Custody Record

Client: Safely & EnvironmentallyMailing Address: PO Box 1613 Hobbs NMPhone #: (575) 397-0510email or Fax#: allen@sesi-nm.comQA/QC Package: ☒ Standard ☐ Level 4 (Full Validation)Accreditation: ☐ Az Compliance☐ NELAC ☐ Other☐ EDD (Type)Date: 11/27 Time: 0910 Matrix: Soil Sample Name: Comp 57 @ 1 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ftDate: 11/27 Time: 1208 Matrix: Soil Sample Name: SP-14 @ 13 ft

Turn-Around Time:

☒ Standard ☒ Rush 5 DayProject Name: Ross Ranch 10 Fed 1Project #: NAB1728628311Project #: DGV-19-008Project Manager: Bob AllenSampler: Hadden HilleOn Ice: ☒ Yes ☐ No yes# of Coolers: 1Cooler Temp (including CF): 24-0 = 24 (°C)

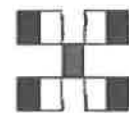
Container Type and #

Preservative Type

HEAL No.

19/25 Ice 001

19/25 Ice 002



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMB's (8021)

TPH:8015D(GRO / DRO / MRO)

8081 Pesticides/8082 PCB's

EDB (Method 504.1)

PAHs by 8310 or 8270SIMS

RCRA 8 Metals

Cl, F, Br, NO₃, NO₂, PO₄, SO₄

8260 (VOA)

8270 (Semi-VOA)

Total Coliform (Present/Absent)

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Received by: William Date: 11/26/22 Time: 1300Received by: Via courier Date: 11/26/22 Time: 7:30Received by: Via courier Date: 11/26/22 Time: 7:30Received by: Via courier Date: 11/26/22 Time: 7:30Received by: Via courier Date: 11/26/22 Time: 7:30Received by: Via courier Date: 11/26/22 Time: 7:30Received by: Via courier Date: 11/26/22 Time: 7:30Received by: Via courier Date: 11/26/22 Time: 7:30Received by: Via courier Date: 11/26/22 Time: 7:30Relinquished by: Bill Direct DeVanRelinquished by: Bill Direct DeVanRelinquished by: Bill Direct DeVanRelinquished by: Bill Direct DeVanRelinquished by: Bill Direct DeVanRelinquished by: Bill Direct DeVanRelinquished by: Bill Direct DeVanRelinquished by: Bill Direct DeVanRelinquished by: Bill Direct DeVan

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Environment Testing

Eurofins Environment Testing South
Central, LLC
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

January 02, 2024

Bob Allen

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Ross Ranch MAB1728628311 2RP 4434

OrderNo.: 2312749

Dear Bob Allen:

Eurofins Environment Testing South Central, LLC received 5 sample(s) on 12/13/2023 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please do not hesitate to contact Eurofins Albuquerque for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2312749

Date Reported: 1/2/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: CS 18'

Project: Ross Ranch MAB1728628311 2RP 4434

Collection Date: 12/8/2023 12:00:00 PM

Lab ID: 2312749-001

Matrix: SOIL

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	12/19/2023 3:13:52 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/19/2023 3:13:52 PM
Surr: DNOP	84.2	69-147		%Rec	1	12/19/2023 3:13:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/20/2023 2:36:00 AM
Surr: BFB	98.9	15-244		%Rec	1	12/20/2023 2:36:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/20/2023 2:36:00 AM
Toluene	ND	0.046		mg/Kg	1	12/20/2023 2:36:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/20/2023 2:36:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	12/20/2023 2:36:00 AM
Surr: 4-Bromofluorobenzene	96.6	39.1-146		%Rec	1	12/20/2023 2:36:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	130	60		mg/Kg	20	12/19/2023 4:45:30 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.
	D	Sample Diluted Due to Matrix
	H	Holding times for preparation or analysis exceeded
	ND	Not Detected at the Reporting Limit
	PQL	Practical Quantitative Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.

B	Analyte detected in the associated Method Blank
E	Above Quantitation Range/Estimated Value
J	Analyte detected below quantitation limits
P	Sample pH Not In Range
RL	Reporting Limit

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Analytical Report

Lab Order 2312749

Date Reported: 1/2/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: CS WW

Project: Ross Ranch MAB1728628311 2RP 4434

Collection Date: 12/8/2023 12:15:00 PM

Lab ID: 2312749-002

Matrix: SOIL

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/19/2023 3:38:18 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/19/2023 3:38:18 PM
Surr: DNOP	82.2	69-147		%Rec	1	12/19/2023 3:38:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/20/2023 2:58:00 AM
Surr: BFB	100	15-244		%Rec	1	12/20/2023 2:58:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/20/2023 2:58:00 AM
Toluene	ND	0.050		mg/Kg	1	12/20/2023 2:58:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/20/2023 2:58:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/20/2023 2:58:00 AM
Surr: 4-Bromofluorobenzene	97.4	39.1-146		%Rec	1	12/20/2023 2:58:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	120	60		mg/Kg	20	12/19/2023 4:57:55 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
 D Sample Diluted Due to Matrix
 H Holding times for preparation or analysis exceeded
 ND Not Detected at the Reporting Limit
 PQL Practical Quantitative Limit
 S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
 E Above Quantitation Range/Estimated Value
 J Analyte detected below quantitation limits
 P Sample pH Not In Range
 RL Reporting Limit

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Analytical Report

Lab Order 2312749

Date Reported: 1/2/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: CS SW

Project: Ross Ranch MAB1728628311 2RP 4434

Collection Date: 12/8/2023 12:20:00 PM

Lab ID: 2312749-003

Matrix: SOIL

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/19/2023 4:02:50 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/19/2023 4:02:50 PM
Surr: DNOP	84.3	69-147		%Rec	1	12/19/2023 4:02:50 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/20/2023 3:20:00 AM
Surr: BFB	97.6	15-244		%Rec	1	12/20/2023 3:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/20/2023 3:20:00 AM
Toluene	ND	0.049		mg/Kg	1	12/20/2023 3:20:00 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/20/2023 3:20:00 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/20/2023 3:20:00 AM
Surr: 4-Bromofluorobenzene	96.7	39.1-146		%Rec	1	12/20/2023 3:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	150	60		mg/Kg	20	12/19/2023 6:24:47 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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Analytical Report

Lab Order 2312749

Date Reported: 1/2/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: CS NW

Project: Ross Ranch MAB1728628311 2RP 4434

Collection Date: 12/8/2023 12:30:00 PM

Lab ID: 2312749-004

Matrix: SOIL

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/19/2023 4:27:15 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/19/2023 4:27:15 PM
Surr: DNOP	84.1	69-147		%Rec	1	12/19/2023 4:27:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/20/2023 3:41:00 AM
Surr: BFB	95.8	15-244		%Rec	1	12/20/2023 3:41:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.024		mg/Kg	1	12/20/2023 3:41:00 AM
Toluene	ND	0.048		mg/Kg	1	12/20/2023 3:41:00 AM
Ethylbenzene	ND	0.048		mg/Kg	1	12/20/2023 3:41:00 AM
Xylenes, Total	ND	0.095		mg/Kg	1	12/20/2023 3:41:00 AM
Surr: 4-Bromofluorobenzene	96.0	39.1-146		%Rec	1	12/20/2023 3:41:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	150	60		mg/Kg	20	12/19/2023 6:37:12 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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Analytical Report

Lab Order 2312749

Date Reported: 1/2/2024

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: CS EW

Project: Ross Ranch MAB1728628311 2RP 4434

Collection Date: 12/8/2023 12:45:00 PM

Lab ID: 2312749-005

Matrix: SOIL

Received Date: 12/13/2023 7:50:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: PRD
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/19/2023 5:16:12 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/19/2023 5:16:12 PM
Surr: DNOP	85.3	69-147		%Rec	1	12/19/2023 5:16:12 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	12/20/2023 4:25:00 AM
Surr: BFB	101	15-244		%Rec	1	12/20/2023 4:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.023		mg/Kg	1	12/20/2023 4:25:00 AM
Toluene	ND	0.046		mg/Kg	1	12/20/2023 4:25:00 AM
Ethylbenzene	ND	0.046		mg/Kg	1	12/20/2023 4:25:00 AM
Xylenes, Total	ND	0.092		mg/Kg	1	12/20/2023 4:25:00 AM
Surr: 4-Bromofluorobenzene	96.1	39.1-146		%Rec	1	12/20/2023 4:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: KCB
Chloride	150	60		mg/Kg	20	12/19/2023 6:49:37 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Above Quantitation Range/Estimated Value
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of standard limits. If undiluted results may be estimated.		

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312749

02-Jan-24

Client: Devon Energy**Project:** Ross Ranch MAB1728628311 2RP 4434

Sample ID: MB-79502		SampType: mblk		TestCode: EPA Method 300.0: Anions						
Client ID: PBS		Batch ID: 79502		RunNo: 101966						
Prep Date: 12/19/2023		Analysis Date: 12/19/2023		SeqNo: 3762264		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-79502		SampType: lcs		TestCode: EPA Method 300.0: Anions						
Client ID: LCSS		Batch ID: 79502		RunNo: 101966						
Prep Date: 12/19/2023		Analysis Date: 12/19/2023		SeqNo: 3762265		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	91.4	90	110			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312749

02-Jan-24

Client: Devon Energy**Project:** Ross Ranch MAB1728628311 2RP 4434

Sample ID: MB-79490	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 79490	RunNo: 101944								
Prep Date: 12/19/2023	Analysis Date: 12/19/2023	SeqNo: 3760434			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)

ND

10

Motor Oil Range Organics (MRO)

ND

50

Surr: DNOP

7.9

10.00

78.7

69

147

Sample ID: LCS-79490	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 79490	RunNo: 101944								
Prep Date: 12/19/2023	Analysis Date: 12/19/2023	SeqNo: 3760435			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Diesel Range Organics (DRO)

45

10

50.00

0

89.0

61.9

130

Surr: DNOP

4.3

5.000

86.9

69

147

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

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QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312749

02-Jan-24

Client: Devon Energy**Project:** Ross Ranch MAB1728628311 2RP 4434

Sample ID: lcs-79469	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 79469		RunNo: 101963							
Prep Date: 12/18/2023	Analysis Date: 12/19/2023		SeqNo: 3762038		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	70	130			
Surr: BFB	2200		1000		223	15	244			

Sample ID: mb-79469	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 79469		RunNo: 101963							
Prep Date: 12/18/2023	Analysis Date: 12/19/2023		SeqNo: 3762039		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	990		1000		99.0	15	244			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 8 of 9

QC SUMMARY REPORT**Hall Environmental Analysis Laboratory, Inc.**

WO#: 2312749

02-Jan-24

Client: Devon Energy**Project:** Ross Ranch MAB1728628311 2RP 4434

Sample ID: lcs-79469	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 79469		RunNo: 101963							
Prep Date: 12/18/2023	Analysis Date: 12/19/2023		SeqNo: 3762093		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.2	70	130			
Toluene	1.0	0.050	1.000	0	100	70	130			
Ethylbenzene	1.0	0.050	1.000	0	103	70	130			
Xylenes, Total	3.1	0.10	3.000	0	103	70	130			
Surr: 4-Bromofluorobenzene	0.99		1.000		98.6	39.1	146			

Sample ID: mb-79469	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 79469		RunNo: 101963							
Prep Date: 12/18/2023	Analysis Date: 12/19/2023		SeqNo: 3762094		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		96.6	39.1	146			

Qualifiers:

* Value exceeds Maximum Contaminant Level
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
PQL Practical Quantitative Limit
S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank
E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit

Page 9 of 9



Environment TestIn

Eurofins Environment Testing South
Central, LLC4901 Hawkins NE
Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Devon Energy

Work Order Number: 2312749

RcptNo: 1

Received By: Tracy Casarrubias

12/13/2023 7:50:00 AM

Completed By: Tracy Casarrubias

12/13/2023 10:16:48 AM

Reviewed By:

w 12/13/23

Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace $<1/4"$ for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐

of preserved
bottles checked
for pH:

(*2 or >12 unless noted)

Adjusted? _____

Checked by: w 12/13/23Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.5	Good	Yes	Yogi		

Chain-of-Custody Record

Client: DEVON ENERGY

Mailing Address: P.O. Box 250
Artesia, NM 88211
 Phone #: 505: (575) 397-0511
 email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)
 Accreditation: ☐ Az Compliance
☐ NELAC ☐ Other
☐ EDD (Type)

Turn-Around Time:

☒ Standard ☒ Rush 5 Day
 Project Name: R055 Ranch
in AB1728628311 (2RP-4434)

Project #:

DEV-19-008

Project Manager:

Bob Allen, Safety &
Environmental Solutions

Sampler: R. Martinez

On Ice: ☒ Yes ☐ No 40g

of Coolers: 1Cooler Temp (including off): 5.4 ± 0.1 = 5.5 (°C)

Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.
12/8	1200	Soil	5'18"	19/453	Coal	2312749
1	1045	1	CS WW	1	1	001
1	1220	1	CS 5W	1	1	002
1	1230	1	CS NW	1	1	003
12/8	1345	Soil	CS EW	19/455	Coal	004
						005

Date	Time	Relinquished by:	Received by:	Via:	Date	Time
12/11	1000	<u>[Signature]</u>	<u>Boyer Hand</u>		12/11	1000
12/11	1035	<u>W. Boyer</u>			12/11	1000

12/17/24 Necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

BTEX / MTBE / TMBs (8021)	TPH: 8015D (GRO / DRO / MRO)	8081 Pesticides / 8082 PCB's	EDB (Method 504.1)	PAHs by 8310 or 8270SIMS	RCRA 8 Metals	Cl, F, Br, NO ₃ , NO ₂ , PO ₄ , SO ₄	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)
X	X								X Chlorides
1	1								1
1	1								
1	1								
X	X								X

Remarks: Bill Direct Devon
email ballen@devon-nm.com
Rm with Tim 890 Sesim - nm.com
Boyer 890 Sesim - nm.com

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Oil Conservation Division
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QUESTIONS

Action 353871

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	353871
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAB1728628311
Incident Name	NAB1728628311 ROSS RANCH 10 FEDERAL #001 @ 30-015-29605
Incident Type	Oil Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-29605] ROSS RANCH 10 FEDERAL #001

Location of Release Source	
Please answer all the questions in this group.	
Site Name	ROSS RANCH 10 FEDERAL #001
Date Release Discovered	09/27/2017
Surface Owner	Federal

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

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

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QUESTIONS, Page 2

Action 353871

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	353871
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	More info needed to determine if this will be treated as a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Unavailable.
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

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

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmv.com Date: 06/13/2024
--	--

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QUESTIONS, Page 3

Action 353871

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 353871
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS**Site Characterization**

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Greater than 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Greater than 5 (mi.)
Any other fresh water well or spring	Greater than 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Greater than 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No

Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)

Chloride (EPA 300.0 or SM4500 Cl B)	1300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	42110
GRO+DRO (EPA SW-846 Method 8015M)	28110
BTEX (EPA SW-846 Method 8021B or 8260B)	7.8
Benzene (EPA SW-846 Method 8021B or 8260B)	0

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

On what estimated date will the remediation commence	10/10/2023
On what date will (or did) the final sampling or liner inspection occur	12/08/2023
On what date will (or was) the remediation complete(d)	12/04/2023
What is the estimated surface area (in square feet) that will be reclaimed	700
What is the estimated volume (in cubic yards) that will be reclaimed	40
What is the estimated surface area (in square feet) that will be remediated	700
What is the estimated volume (in cubic yards) that will be remediated	40

These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.

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

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QUESTIONS, Page 4

Action 353871

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 353871
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)	
<i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [FEEM0112340644]
OR which OCD approved well (API) will be used for off-site disposal	Not answered.
OR is the off-site disposal site, to be used, out-of-state	Not answered.
OR is the off-site disposal site, to be used, an NMED facility	Not answered.
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.
(In Situ) Soil Vapor Extraction	Not answered.
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.
OTHER (Non-listed remedial process)	Not answered.
<i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/13/2024
<i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>	

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QUESTIONS, Page 5

Action 353871

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 353871
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 353871

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID:	6137
	Action Number:	353871
	Action Type:	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	352101
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	06/19/2024
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	5000

Remediation Closure Request

Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	700
What was the total volume (cubic yards) remediated	40
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	700
What was the total volume (in cubic yards) reclaimed	40
Summarize any additional remediation activities not included by answers (above)	see this and previously submitted reports

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 (in .pdf format) 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.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

I hereby agree and sign off to the above statement	Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dmn.com Date: 06/13/2024
--	--

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QUESTIONS, Page 7

Action 353871

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 353871
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report	
Only answer the questions in this group if all reclamation steps have been completed.	
Requesting a reclamation approval with this submission	No

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CONDITIONS

Action 353871

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 353871
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	6/20/2024
amaxwell	A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.	6/20/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	6/20/2024