



April 12, 2023

Vertex Project #: 20E-01925-001

Supplemental Report: Lea State 946
Section 03, Township 18 South, Range 35 East
County: Lea
Incident Report: nRM2019640815

Prepared For: HPPC, Inc.
209, 306 West Wall
Midland, Texas 79701

New Mexico Oil Conservation Division - District 1 - Hobbs

1625 North French Drive
Hobbs, New Mexico 88240

HPPC, Inc. (HPPC) retained Vertex Resource Services Inc. (Vertex) to conduct additional remediation and delineation after the denial of the request for closure and deferral by New Mexico Oil and Conservation District (NMOCD) incident ID nRM2019640815, Lea State 946 (Lea State). This report is supplemental to the above referenced report and assessed areas of concern, and additional to the remediation that has already been completed. Communication between Vertex and NMOCD for the resolution to an agreement for closure and deferral is included in Attachment 1.

Additional Characterization and Deferral Request

NMOCD requested additional horizontal sampling around and within the containment area for characterization of the area to be deferred. Initial samples had not been verified by laboratory analysis; to rectify this issue, new sample points were established, and samples were collected to the deepest vertical depth allowable until refusal. Samples were collected within the containment to determine the concentration levels in the deferral request area, and horizontal delineation points were collected and submitted for laboratory analysis to confirm levels were below strictest criteria. Sample locations are presented on Figure 1 (Attachment 2).

Remedial Actions Taken

Additional remediation efforts began on February 9, 2023, and were completed on March 1, 2023. Vertex personnel supervised the excavation of impacted soils, and field screening was completed on two sample points. Screening consisted of analysis using Dextsil Petroflag, EPA SW-846 Method 9074 (extractable hydrocarbons), and Titration (chlorides). Field screening results were used to identify areas requiring additional remediation from areas below effluent limitations for closure criteria. Soils were removed to a depth of 3 feet below ground surface (bgs). Field screening results are included in Table 1 (Attachment 3). An aerial view and site schematic of excavation and sampling is provided on Figure 2 (Attachment 2).

Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. The samples were collected for laboratory analysis following NMOCD soil sampling procedures. Notification

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HPPC, Inc.
Lea State 946, nRM2019640815

2023 Spill Assessment and Closure
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of the collection of confirmatory samples was submitted to NMOCD on February 6, 2023, and is included in Attachment 4.

Samples were submitted to Hall Environmental Analysis Laboratory under chain-of-custody protocols and analyzed for benzene, toluene, ethylbenzene and xylene (EPA Method 8021B), total petroleum hydrocarbons (gas range organics, diesel range organics, motor oil range organics – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory analysis results are presented in Table 1 (Attachment 3).

Base sample BS23-19 exceeded strictest criteria for closure and was recollected. A second notification that confirmatory sampling was being conducted was provided to NMOCD on February 24, 2023, and is included in Attachment 4. Additional remediation occurred and additional samples were collected and submitted for laboratory analysis. All confirmatory samples collected were below effluent limitations for closure criteria for the site. Daily field reports, including site photographs obtained during characterization and remediation activities, are included in Attachment 5. Laboratory data reports and chain of custody documentation are included in Attachment 6.

Closure Request

The spill area was fully delineated, remediated and backfilled with clean local topsoil. Confirmatory sampling notification emails are included in Attachment 4. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the New Mexico Administrative Code (NMAC; New Mexico Oil Conservation Division, 2018) Closure Criteria for Soils Impacted by a Release locations “51-100 feet to groundwater”. Based on these findings, HPPC, Inc. requests that this spill be closed.

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 575.361.9880 or mpeppin@vertex.ca.



Monica Peppin, A.S.
PROJECT MANAGER, REPORTING

April 17, 2023

Date

Attachments

- Attachment 1. NMOCD Correspondence
- Attachment 2. Figures
- Attachment 3. Table
- Attachment 4. Notification of Confirmatory Sampling to NMOCD
- Attachment 5. Daily Field Reports with Photographs
- Attachment 6. Laboratory Data Reports and Chain of Custody Forms

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April 2023

References

Google Inc. (2022). *Google Earth Pro* (Version 7.3.4) [Software]. Retrieved from <http://www.google.com/earth>

New Mexico Oil Conservation Division. (2018). *New Mexico Administrative Code – Natural Resources and Wildlife Oil and Gas Releases*. Santa Fe, New Mexico.

HPPC, Inc.
Lea State 946, nRM2019640815

2023 Spill Assessment and Closure
April 2023

Limitations

This report has been prepared for the sole benefit of HPPC, Inc. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and HPPC, Inc. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

ATTACHMENT 1



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Lea State 946 Denial nRM2019640815

8 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Mon, Feb 6, 2023 at 8:31 AM

To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>, "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@state.nm.us>

Cc: mmoffitt@vertex.ca, rajan.prasad@hppcinc.com

Jennifer,

In response to the below email for the denial I would like to discuss the plan of execution to resolve the matter.

We are going to excavate out the area where BS22-19 and BS22-20 are located down to the depth to reach 600 chloride/100 TPH, obtain step out samples with laboratory analysis to the east, south and west (north samples were fully delineated with samples BH21-18, BH21-19, BH21-21). We will resubmit the closure report with this additional data.

If you have any additional requests or suggestions please let me know.

To whom it may concern (c/o Rajan Prasad for HPPC, INC.),

The OCD has rejected the submitted *Application for administrative approval of a release notification and corrective action* (C-141), for incident ID (n#) nRM2019640815, for the following reasons:

- **Closure Report and Deferral Request Denied.** On pad, conf sidewall samples (WS22-01 thru WS22-04) should be delineated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release, regardless of depth to groundwater. Off pad, confirmation bottom samples (BS22-19 and BS22-20) at 0.5' exceed reclamation criteria (were greater than 600 mg/kg chloride). Please note, OCD does not evaluate field screening data, only laboratory data. You have not provided sufficient laboratory data to define an area on pad by the tank for deferral consideration and approval. Specifying exactly which sample points you are asking for a deferral on and the reason the contaminants cannot be removed are required. Only sample locations that have been fully delineated and that are right adjacent to equipment and require a major deconstruction will be available for a deferral. Please resubmit a revised report addressing these delinquencies and a deferral request to the OCD portal by 3/3/23.

Monica Peppin, A.S.

Project Manager

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

P 575.725.5001 Ext. 711**C 575.361.9880****F**www.vertex.ca

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Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Mon, Feb 6, 2023 at 2:57 PM

Hello Monica

Let me know when you want to discuss this denial further. Your plan outlined below makes sense for the off pad samples. Let me know what questions you have for the on pad deficiencies and deferral requirements.

Thanks,

Jennifer Nobui

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Monday, February 6, 2023 8:31 AM
To: Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
Cc: mmoffitt@vertex.ca; rajan.prasad@hppcinc.com
Subject: [EXTERNAL] Lea State 946 Denial nRM2019640815

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

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>

Tue, Feb 7, 2023 at 10:56 AM

The on pad samples I am going to step out and show where the horizontal delineation cleans up at. From the previous delineation, it would require the removal of all the equipment in the tank containment, the reason the we met 51-100 DTGW criteria and requested the deferral of the portion under the tank. Does this not work?

MP

[Quoted text hidden]

Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Feb 7, 2023 at 11:41 AM

Yes this makes sense. For the deferral, please make sure you identify the area of deferral on the map and you have sample locations as close as you can get to the tanks so we know what the concentrations are that are being deferred (vertically and horizontally). OCD will only review laboratory analyzed samples. Let me know if you have any additional questions.

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>

Tue, Feb 7, 2023 at 11:45 AM

Perfect. I will add in an additional schematic for this along with an additional table for these portions.

Thank you!

[Quoted text hidden]

Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Tue, Feb 7, 2023 at 12:02 PM

Monica,

Make sure to include all these emails in the report as an attachment.

[Quoted text hidden]

Dhugal Hanton <vertexresourcegroupusa@gmail.com>
To: "Nobui, Jennifer, EMNRD" <Jennifer.Nobui@emnrd.nm.gov>

Wed, Feb 8, 2023 at 7:38 AM

Yes ma'am.

Do you want the entire report to be resubmitted? Or would a supplemental report that I can condense for the additional work completed?

[Quoted text hidden]

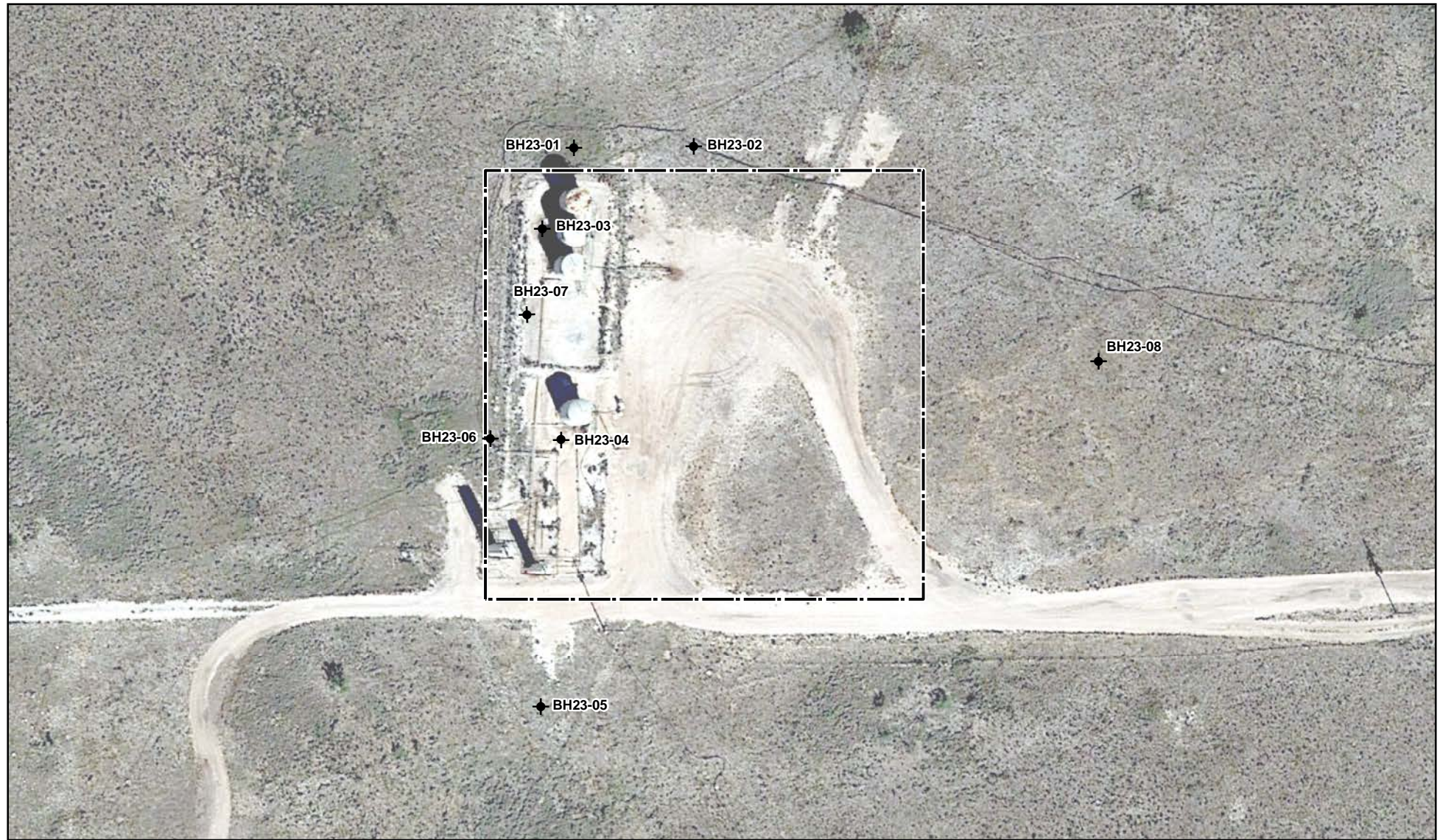
Nobui, Jennifer, EMNRD <Jennifer.Nobui@emnrd.nm.gov>
To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Wed, Feb 8, 2023 at 8:20 AM

Either way, but make sure the revised report includes all the data and figures are comprehensive of all the work.

[Quoted text hidden]

ATTACHMENT 2



◆ Borehole □ Lease Boundary



0 25 50 Feet
Map Center:
Lat/Long: 32.778536, -103.436458

NAD 1983 UTM Zone 13N
Date: Feb 28/23



Horizontal Delineation Lea State 946 Tank Overflow

FIGURE:

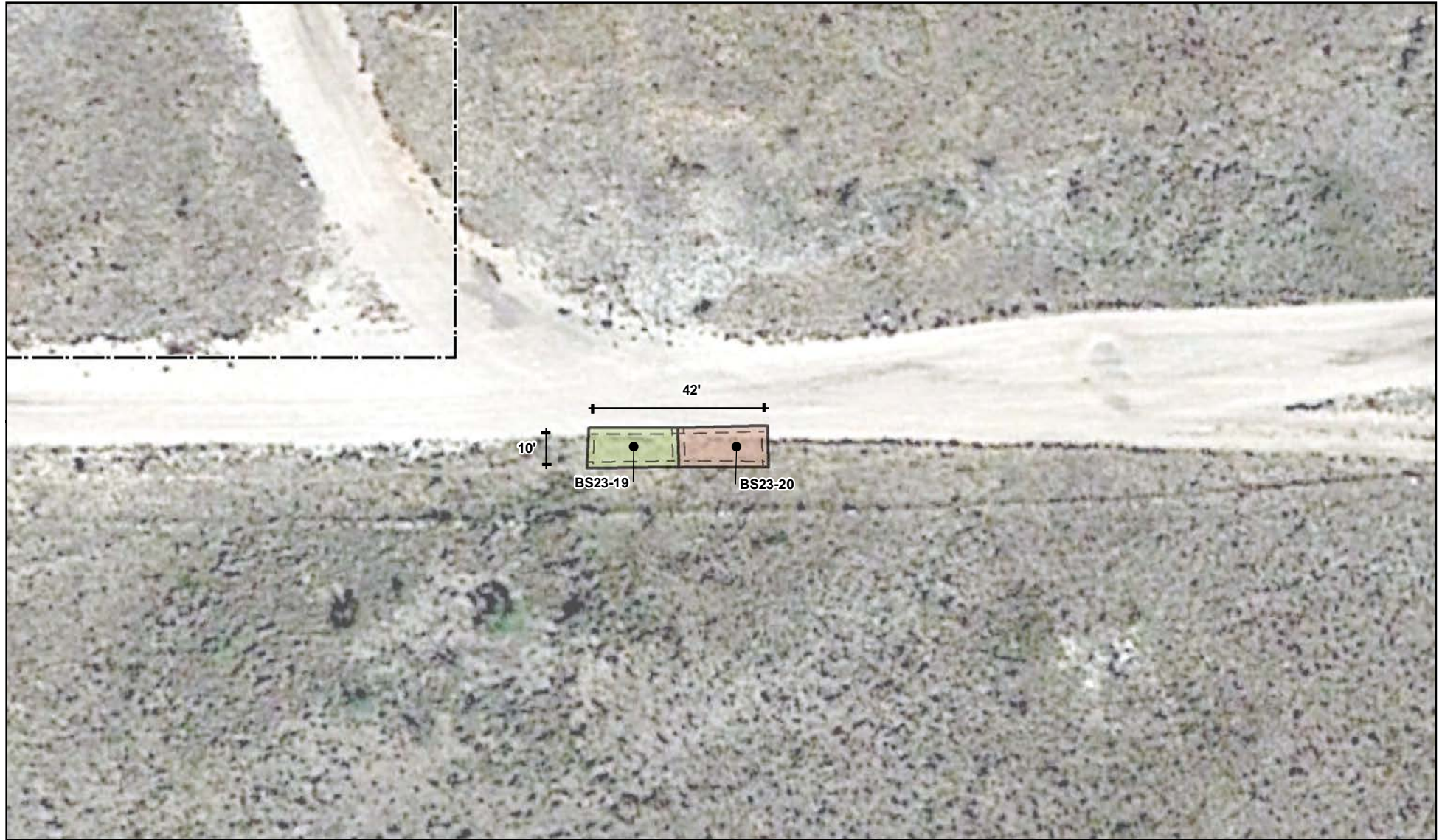
1




HPPC Inc.

Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for inaccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background image from Bing 2022. Data surveyed by Vertex Professional Services Ltd., 2023.

VERSATILITY. EXPERTISE.



● Base Sample (Excavated)
 2' Excavation Area (~200 sq.ft.)
 3.5' Excavation Area (~197 sq.ft.)
 Lease Boundary



0 5 10 20 30 Feet
 Map Center:
 Lat/Long: 32.778201, -103.435874

NAD 1983 UTM Zone 13N
 Date: Mar 09/23



Additional Excavation Lea State 946 Tank Overflow

FIGURE:

2

HPPC Inc.

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Note: Background image from Bing 2022. Data surveyed by Vertex Professional Services Ltd., 2023.

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ATTACHMENT 3

Client Name: HPPC, Inc.
 Site Name: Lea State 946
 NMOCD Tracking #: nRM2019640815
 Project #: 21E-03964
 Lab Reports: 2302526, 2302647

Table 1. Additional Characterization/Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs

Table 1. Additional Characterization/Confirmatory Sample Field Screen and Laboratory Results - Depth to Groundwater 51-100 feet bgs													
Sample Description			Field Screening			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Volatile		Extractable					Inorganic
						Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS23-19	2'	2/9/2023	-	373	404	ND	ND	ND	57	130	57	187	70
	3'	2/9/2023	-	405	544	ND	ND	ND	36	88	36	124	180
	3.5'	3/1/2023	-			ND	ND	ND	18	ND	18	18	75
BS23-20	2'	2/9/2023	-	256	287	ND	ND	ND	19	54	19	73	95
BH23-01	0'	2/11/2023	-	106	266	ND	ND	ND	ND	ND	ND	ND	ND
	2'	2/11/2023	-	41	246	ND	ND	ND	ND	ND	ND	ND	ND
BH23-02	0'	2/11/2023	-	120	564	ND	ND	ND	ND	ND	ND	ND	270
BH23-03	0'	2/11/2023	-	1,687	1,141	ND	ND	ND	1600	1900	1600	3500	980
	2'	2/11/2023	-	1,432	329	ND	ND	48	560	280	608	888	130
BH23-04	0'	2/11/2023	-	392	5,929	ND	ND	ND	220	230	220	450	4900
BH23-05	0'	2/11/2023	-	87	170	ND	ND	ND	ND	ND	ND	ND	ND
BH23-06	0'	2/11/2023	-	77	186	ND	ND	ND	11	ND	11	11	ND
BH23-07	0'	2/11/2023	-	1,070	3,204	ND	ND	ND	64	210	64	274	1600
BH23-08	0'	2/11/2023	-	55	408	ND	ND	ND	25	100	25	125	ND

"ND" Not Detected at the Reporting Limit

"-" indicates not analyzed/assessed

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria

ATTACHMENT 4



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Lea State 946 Confirmatory Sampling nRM2019640815

3 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Mon, Feb 6, 2023 at 8:36 AM

To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, spills@slo.state.nm.us

Cc: mpeppin@vertex.ca, rajan.prasad@hppcinc.com

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Lea 946 State for the following release:

NRM2019640815 DOR: June 30, 2020

This work will be completed on behalf of HPPC, Inc.

On Thursday and Friday, September 9th and 10th, 2023, at approximately 9:00 a.m., Monica Peppin of Vertex will be onsite to conduct additional confirmation sampling for the above release.

She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,
Monica

Monica Peppin, A.S.

Project Manager

Vertex Resource Services Inc.

3101 Boyd Drive,

Carlsbad, NM 88220

P 575.725.5001 Ext. 711**C 575.361.9880****F**www.vertex.ca

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Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>

Mon, Feb 6, 2023 at 11:11 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>, "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>, "spills@slo.state.nm.us" <spills@slo.state.nm.us>

Cc: "mpeppin@vertex.ca" <mpeppin@vertex.ca>, "rajan.prasad@hppcinc.com" <rajan.prasad@hppcinc.com>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Monica,

Thank you for the notification. Did you mean you will be sampling February 9th and 10th? Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: Monday, February 6, 2023 8:36 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; spills@slo.state.nm.us
Cc: mpeppin@vertex.ca; rajan.prasad@hppcinc.com
Subject: [EXTERNAL] Lea State 946 Confirmatory Sampling nRM2019640815

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Monica Peppin <mpeppin@vertex.ca> Mon, Feb 6, 2023 at 11:13 AM
To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>
Cc: Dhugal Hanton <vertexresourcegroupusa@gmail.com>, "spills@slo.state.nm.us" <spills@slo.state.nm.us>, "rajan.prasad@hppcinc.com" <rajan.prasad@hppcinc.com>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Yes I did. I apologize

Sent from my iPhone

On Feb 6, 2023, at 11:12 AM, Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> wrote:

Monica,

Thank you for the notification. Did you mean you will be sampling February 9th and 10th? Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Jocelyn

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

1220 South St. Francis Drive | Santa Fe, NM 87505

(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov

[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



[Quoted text hidden]



image001.jpg
5K

Monica Peppin

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>
Sent: February 24, 2023 7:18 AM
To: Enviro, OCD, EMNRD; spills@slo.state.nm.us
Cc: rajan.prasad@hppcinc.com; Monica Peppin
Subject: Lea State 946 Confirmation Sampling nRM2019640815

All,

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at Lea 946 State for the following release:

NRM2019640815 DOR: June 30, 2020

This work will be completed on behalf of HPPC, Inc.

On Wednesday, March 1st, 2023, at approximately 9:00 a.m., Monica Peppin of Vertex will be onsite to conduct additional confirmation sampling for the above release.

She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact me. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,
Monica

Monica Peppin, A.S.
Project Manager

Vertex Resource Services Inc.
3101 Boyd Drive,
Carlsbad, NM 88220

P 575.725.5001 Ext. 711
C 575.361.9880
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ATTACHMENT 5



Daily Site Visit Report

Client:	HPPC, Inc.	Inspection Date:	
Site Location Name:	Lea 946 State (Tank Overflow)	Report Run Date:	3/8/2023 6:37 PM
Client Contact Name:	Rajan Prasad	API #:	
Client Contact Phone #:	432-557-5067		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site

Departed Site

Field Notes

14:15 Arrived on site, filled out JSA, had safety meeting

14:15 Discussed the project with Monica

14:15 Discussed project with excavation crew

14:15 Excavated down to 2' depth and gathered samples 19 and 20. Samples were tested for chlorides and hydrocarbons. Samples were clean for chlorides and high in hydrocarbons. Results are in the attached soil sample pdf

14:15 Instructed crew to pothole down to 4' for additional sampling, but they hit refusal at 3'. Samples 19 and 20 were gathered at 3'. Samples tested clean for chlorides and high for hydrocarbons. See attached soil sample pdf.

14:16 Jarred samples to send to lab

14:16 Filled out field report and gathered site photos

Next Steps & Recommendations

1 Continue with sampling and field screening

Daily Site Visit Report



Site Photos

Viewing Direction: North



Placard

Viewing Direction: South



Sample area

Viewing Direction: West



Sample area

Viewing Direction: North



Sample area

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Zachery Englebert

Signature:


Signature



Daily Site Visit Report

Client:	HPPC, Inc.	Inspection Date:	
Site Location Name:	Lea 946 State (Tank Overflow)	Report Run Date:	2/11/2023 11:00 PM
Client Contact Name:	Rajan Prasad	API #:	
Client Contact Phone #:	432-557-5067		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site

Departed Site

Field Notes

10:14 Arrived on site, filled out safety paperwork

10:16 Reviewed sample locations in Arc Collector

12:20 Gathered borehole samples 1 through 8. Ground is extremely hard and rocky.

12:20 Updated points on collector

14:49 Tested samples for chlorides and hydrocarbons. See soil sample report for results

14:49 Filled out daily field report and gathered site photos

14:49 Jarred samples to send to lab

Next Steps & Recommendations

1 Await results from lab

Daily Site Visit Report



Site Photos

Viewing Direction: North



Placard

Viewing Direction: Southwest



Sample area

Viewing Direction: Southeast



Sample area

Viewing Direction: East



Sample area



Daily Site Visit Report

Viewing Direction: Northeast



Sample area

Viewing Direction: West



Sample area

Daily Site Visit Report



Daily Site Visit Signature

Inspector: Zachery Englebert

Signature:


Signature



Daily Site Visit Report

Client:	HPPC, Inc.	Inspection Date:	3/1/2023
Site Location Name:	Lea 946 State (Tank Overflow)	Report Run Date:	3/8/2023 6:44 PM
Client Contact Name:	Rajan Prasad	API #:	
Client Contact Phone #:	432-557-5067		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times

Arrived at Site	3/1/2023 8:24 AM
Departed Site	3/1/2023 9:33 AM

Field Notes

- 8:24** Arrived on site and filled out safety paperwork.
- 8:25** Conducted site overview and tailgate safety meeting with 4 Elements crew.
- 9:23** Backfill of excavation was completed after BS23-19 recollected once achieving a final depth of 3.5'

Next Steps & Recommendations

1

Daily Site Visit Report



Site Photos

Viewing Direction: East



Equipment unloading.

Viewing Direction: East



Backfill site.

Viewing Direction: South



Backfill site.

Viewing Direction: Southwest



Backfill site.



Daily Site Visit Report

Viewing Direction: West



Backfill site.

Viewing Direction: Northwest



Backfill site.

Viewing Direction: North



Backfill site.

Viewing Direction: Northeast



Backfill site.

Daily Site Visit Report



Daily Site Visit Signature

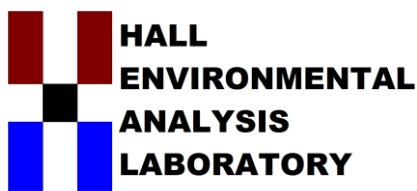
Inspector: Hunter Klein

Signature:

A handwritten signature in black ink, appearing to read 'Hunter Klein', written over a horizontal line.

Signature

ATTACHMENT 6



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

February 22, 2023

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX:

RE: Lea State 946 Tank Overflow

OrderNo.: 2302526

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 4 sample(s) on 2/11/2023 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 white background.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302526

Date Reported: 2/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-19 2'

Project: Lea State 946 Tank Overflow

Collection Date: 2/9/2023 11:00:00 AM

Lab ID: 2302526-001

Matrix: SOIL

Received Date: 2/11/2023 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	57	9.4		mg/Kg	1	2/15/2023 11:11:05 AM
Motor Oil Range Organics (MRO)	130	47		mg/Kg	1	2/15/2023 11:11:05 AM
Surr: DNOP	80.7	69-147		%Rec	1	2/15/2023 11:11:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/14/2023 10:30:35 PM
Surr: BFB	104	37.7-212		%Rec	1	2/14/2023 10:30:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/14/2023 10:30:35 PM
Toluene	ND	0.049		mg/Kg	1	2/14/2023 10:30:35 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/14/2023 10:30:35 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/14/2023 10:30:35 PM
Surr: 4-Bromofluorobenzene	96.5	70-130		%Rec	1	2/14/2023 10:30:35 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	70	60		mg/Kg	20	2/14/2023 10:50:19 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 2302526

Date Reported: 2/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-19 3'

Project: Lea State 946 Tank Overflow

Collection Date: 2/9/2023 1:00:00 PM

Lab ID: 2302526-002

Matrix: SOIL

Received Date: 2/11/2023 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	36	8.7		mg/Kg	1	2/17/2023 3:32:52 PM
Motor Oil Range Organics (MRO)	88	44		mg/Kg	1	2/17/2023 3:32:52 PM
Surr: DNOP	94.5	69-147		%Rec	1	2/17/2023 3:32:52 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/20/2023 11:32:10 AM
Surr: BFB	103	37.7-212		%Rec	1	2/20/2023 11:32:10 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/20/2023 11:32:10 AM
Toluene	ND	0.048		mg/Kg	1	2/20/2023 11:32:10 AM
Ethylbenzene	ND	0.048		mg/Kg	1	2/20/2023 11:32:10 AM
Xylenes, Total	ND	0.097		mg/Kg	1	2/20/2023 11:32:10 AM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	2/20/2023 11:32:10 AM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	180	60		mg/Kg	20	2/20/2023 1:29:44 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.		

Page 2 of 10

Analytical Report

Lab Order 2302526

Date Reported: 2/22/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BES23-20 2'

Project: Lea State 946 Tank Overflow

Collection Date: 2/9/2023 11:15:00 AM

Lab ID: 2302526-003

Matrix: SOIL

Received Date: 2/11/2023 10:10:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	19	9.9		mg/Kg	1	2/15/2023 2:56:27 PM
Motor Oil Range Organics (MRO)	54	50		mg/Kg	1	2/15/2023 2:56:27 PM
Surr: DNOP	91.0	69-147		%Rec	1	2/15/2023 2:56:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/14/2023 11:41:31 PM
Surr: BFB	103	37.7-212		%Rec	1	2/14/2023 11:41:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/14/2023 11:41:31 PM
Toluene	ND	0.048		mg/Kg	1	2/14/2023 11:41:31 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/14/2023 11:41:31 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/14/2023 11:41:31 PM
Surr: 4-Bromofluorobenzene	95.1	70-130		%Rec	1	2/14/2023 11:41:31 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	95	60		mg/Kg	20	2/14/2023 11:52:02 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#: 2302526

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea State 946 Tank Overflow

Sample ID: MB-73184	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73184		RunNo: 94587							
Prep Date: 2/14/2023	Analysis Date: 2/14/2023		SeqNo: 3420401		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73184	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73184		RunNo: 94587							
Prep Date: 2/14/2023	Analysis Date: 2/14/2023		SeqNo: 3420402		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.7	90	110			

Sample ID: MB-73267	SampType: mblk		TestCode: EPA Method 300.0: Anions							
Client ID: PBS	Batch ID: 73267		RunNo: 94745							
Prep Date: 2/20/2023	Analysis Date: 2/20/2023		SeqNo: 3424635		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73267	SampType: lcs		TestCode: EPA Method 300.0: Anions							
Client ID: LCSS	Batch ID: 73267		RunNo: 94745							
Prep Date: 2/20/2023	Analysis Date: 2/20/2023		SeqNo: 3424636		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 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#: 2302526

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea State 946 Tank Overflow

Sample ID: LCS-73159	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73159		RunNo: 94595							
Prep Date: 2/13/2023	Analysis Date: 2/14/2023		SeqNo: 3420306		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.9	61.9	130			
Surr: DNOP	3.6		5.000		72.0	69	147			

Sample ID: MB-73159	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73159		RunNo: 94595							
Prep Date: 2/13/2023	Analysis Date: 2/14/2023		SeqNo: 3420311		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	7.4		10.00		73.9	69	147			

Sample ID: 2302526-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BES23-19 2'	Batch ID: 73159		RunNo: 94620							
Prep Date: 2/13/2023	Analysis Date: 2/15/2023		SeqNo: 3420604		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.3	46.73	56.60	-8.50	54.2	135			S
Surr: DNOP	4.2		4.673		88.9	69	147			

Sample ID: 2302526-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BES23-19 2'	Batch ID: 73159		RunNo: 94620							
Prep Date: 2/13/2023	Analysis Date: 2/15/2023		SeqNo: 3420605		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	66	9.2	46.08	56.60	21.4	54.2	135	23.2	29.2	S
Surr: DNOP	4.4		4.608		95.7	69	147	0	0	

Sample ID: LCS-73232	SampType: LCS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 73232		RunNo: 94691							
Prep Date: 2/17/2023	Analysis Date: 2/17/2023		SeqNo: 3423170		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	87.0	61.9	130			
Surr: DNOP	4.5		5.000		90.8	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#: 2302526
22-Feb-23

Client: Vertex Resources Services, Inc.
Project: Lea State 946 Tank Overflow

Sample ID: MB-73232	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73232	RunNo: 94691								
Prep Date: 2/17/2023	Analysis Date: 2/17/2023	SeqNo: 3423171		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	8.5		10.00		85.3	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#: 2302526

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea State 946 Tank Overflow

Sample ID: 2302526-001ams		SampType: MS		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BES23-19 2'		Batch ID: 73147		RunNo: 94586						
Prep Date: 2/13/2023		Analysis Date: 2/14/2023		SeqNo: 3419995		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.9	24.34	0	94.5	70	130			
Surr: BFB	1900		973.7		197	37.7	212			

Sample ID: 2302526-001amsd		SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BES23-19 2'		Batch ID: 73147		RunNo: 94586						
Prep Date: 2/13/2023		Analysis Date: 2/14/2023		SeqNo: 3419996		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.41	0	102	70	130	7.75	20	
Surr: BFB	2000		976.6		207	37.7	212	0	0	

Sample ID: Ics-73147		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS		Batch ID: 73147		RunNo: 94586						
Prep Date: 2/13/2023		Analysis Date: 2/14/2023		SeqNo: 3420015		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24	5.0	25.00	0	95.7	72.3	137			
Surr: BFB	2000		1000		195	37.7	212			

Sample ID: mb-73147		SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS		Batch ID: 73147		RunNo: 94586							
Prep Date: 2/13/2023		Analysis Date: 2/14/2023		SeqNo: 3420016		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		105	37.7	212			

Sample ID: Ics-73238		SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS		Batch ID: 73238		RunNo: 94713						
Prep Date: 2/17/2023		Analysis Date: 2/20/2023		SeqNo: 3423969		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	82.1	72.3	137			
Surr: BFB	1800		1000		183	37.7	212			

Sample ID: mb-73238	SampType: MBLK	TestCode: EPA Method 8015D: Gasoline Range								
Client ID: PBS	Batch ID: 73238	RunNo: 94713								
Prep Date: 2/17/2023	Analysis Date: 2/20/2023	SeqNo: 3423996 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

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

WO#: 2302526

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea State 946 Tank Overflow

Sample ID: mb-73238	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73238		RunNo: 94713							
Prep Date: 2/17/2023	Analysis Date: 2/20/2023		SeqNo: 3423996		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		101	37.7	212			

Sample ID: 2302526-002ams	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES23-19 3'	Batch ID: 73238		RunNo: 94713							
Prep Date: 2/17/2023	Analysis Date: 2/20/2023		SeqNo: 3424002		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	24.18	0	92.7	70	130			
Surr: BFB	1900		967.1		192	37.7	212			

Sample ID: 2302526-002amsd	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BES23-19 3'	Batch ID: 73238		RunNo: 94713							
Prep Date: 2/17/2023	Analysis Date: 2/20/2023		SeqNo: 3424006		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	24.15	0	93.3	70	130	0.548	20	
Surr: BFB	1900		966.2		198	37.7	212	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

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

WO#: 2302526

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea State 946 Tank Overflow

Sample ID: LCS-73147	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73147		RunNo: 94586							
Prep Date: 2/13/2023	Analysis Date: 2/14/2023		SeqNo: 3420022		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	83.9	80	120			
Toluene	0.89	0.050	1.000	0	89.3	80	120			
Ethylbenzene	0.90	0.050	1.000	0	89.6	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.4	80	120			
Surr: 4-Bromofluorobenzene	0.99		1.000		99.0	70	130			

Sample ID: mb-73147	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73147		RunNo: 94586							
Prep Date: 2/13/2023	Analysis Date: 2/14/2023		SeqNo: 3420023		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	0.98		1.000		97.5	70	130			

Sample ID: 2302526-003ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BES23-20 2'	Batch ID: 73147		RunNo: 94586							
Prep Date: 2/13/2023	Analysis Date: 2/15/2023		SeqNo: 3420035		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.024	0.9681	0	82.6	68.8	120			
Toluene	0.86	0.048	0.9681	0.01744	87.4	73.6	124			
Ethylbenzene	0.87	0.048	0.9681	0	89.8	72.7	129			
Xylenes, Total	2.6	0.097	2.904	0.02829	89.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.96		0.9681		99.4	70	130			

Sample ID: 2302526-003amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BES23-20 2'	Batch ID: 73147		RunNo: 94586							
Prep Date: 2/13/2023	Analysis Date: 2/15/2023		SeqNo: 3420036		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.82	0.024	0.9662	0	85.4	68.8	120	3.09	20	
Toluene	0.90	0.048	0.9662	0.01744	91.6	73.6	124	4.44	20	
Ethylbenzene	0.91	0.048	0.9662	0	94.1	72.7	129	4.51	20	
Xylenes, Total	2.7	0.097	2.899	0.02829	92.7	75.7	126	3.83	20	
Surr: 4-Bromofluorobenzene	0.94		0.9662		97.0	70	130	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

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

WO#: 2302526

22-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea State 946 Tank Overflow

Sample ID: LCS-73238	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: 73238			RunNo: 94713						
Prep Date: 2/17/2023	Analysis Date: 2/20/2023			SeqNo: 3423971		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.025	1.000	0	88.2	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.91	0.050	1.000	0	91.3	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.2	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	70	130			

Sample ID: mb-73238	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: 73238			RunNo: 94713						
Prep Date: 2/17/2023	Analysis Date: 2/20/2023			SeqNo: 3423999		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	0.98		1.000		98.4	70	130			

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: Vertex Resources
Services, Inc.

Work Order Number: 2302526

RcptNo: 1

Received By: Tracy Casarrubias 2/11/2023 10:10:00 AM

Completed By: Tracy Casarrubias 2/11/2023 10:29:18 AM

Reviewed By: *JA 2/13/23*

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° 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: *TMC 2/11/23*

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Yes	Morty		

Chain-of-Custody Record

Client: ~~Vertex~~

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

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

Turn-Around Time: 48 HR

☐ Standard ☒ Rush

Project Name:

Lea State 946 Tank
Overflow

Project #:

21E-03964

Project Manager:

Monica Peppin

Sampler: ZE

On Ice: ☒ Yes ☐ No

of Coolers: 1

Cooler Temp (Including CF): 4.3 - 0.2 = 4.1 (°C)

Container Type and #

Preservative Type

HEAL No.

2302526

001

002

003

004

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Received by:

Via:

Date

Time

2/9/23 5:04

2/10/23 9:00

2/10/23 9:15

2/11/23 10:10

Relinquished by:

Zach Englebert

Relinquished by:

Monica Peppin

Relinquished by:

Monica Peppin

Relinquished by:

Monica Peppin

Monica Peppin

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Analysis Request

Total Coliform (Present/Absent)

8270 (Semi-VOA)

8260 (VOA)

Cd, F, Br, NO₃, NO₂, PO₄, SO₄

RCRA 8 Metals

PAHs by 8310 or 8270SIMS

EDB (Method 504.1)

8081 Pesticides/8082 PCBs

TPH/8015D(GRO / DRO / MRO)

BTEX / MTBE / TMBs (8021)

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Remarks:

CC: M Peppin

Please call

when samples

ready for

Hold samples

HPCC

HPCC

HPCC

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.

Released to Imaging: 5/19/2023 9:30:59 AM



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

March 10, 2023

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Lea 946 State

OrderNo.: 2303179

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/3/2023 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 2303179

Date Reported: 3/10/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-19 3.5'

Project: Lea 946 State

Collection Date: 3/1/2023 9:05:00 AM

Lab ID: 2303179-001

Matrix: SOIL

Received Date: 3/3/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	18	8.9		mg/Kg	1	3/6/2023 11:11:21 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	3/6/2023 11:11:21 PM
Surr: DNOP	99.1	69-147		%Rec	1	3/6/2023 11:11:21 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/6/2023 7:18:00 PM
Surr: BFB	95.8	37.7-212		%Rec	1	3/6/2023 7:18:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	3/6/2023 7:18:00 PM
Toluene	ND	0.047		mg/Kg	1	3/6/2023 7:18:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	3/6/2023 7:18:00 PM
Xylenes, Total	ND	0.094		mg/Kg	1	3/6/2023 7:18:00 PM
Surr: 4-Bromofluorobenzene	97.1	70-130		%Rec	1	3/6/2023 7:18:00 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	75	61		mg/Kg	20	3/6/2023 6:44:58 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.		

Page 1 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2303179

10-Mar-23

Client: Vertex Resources Services, Inc.
Project: Lea 946 State

Sample ID: MB-73533		SampType: mblk			TestCode: EPA Method 300.0: Anions					
Client ID: PBS		Batch ID: 73533			RunNo: 95055					
Prep Date: 3/6/2023		Analysis Date: 3/6/2023			SeqNo: 3437444		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: LCS-73533		SampType: lcs			TestCode: EPA Method 300.0: Anions					
Client ID: LCSS		Batch ID: 73533			RunNo: 95055					
Prep Date: 3/6/2023		Analysis Date: 3/6/2023			SeqNo: 3437445		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	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

Page 2 of 6

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

WO#: 2303179

10-Mar-23

Client: Vertex Resources Services, Inc.**Project:** Lea 946 State

Sample ID: 2303169-001AMS	SampType: MS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 73501	RunNo: 95068								
Prep Date: 3/3/2023	Analysis Date: 3/6/2023	SeqNo: 3438034 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	9.3	46.43	0	86.3	54.2	135			
Surr: DNOP	3.9		4.643		84.7	69	147			

Sample ID: 2303169-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BatchQC	Batch ID: 73501	RunNo: 95068								
Prep Date: 3/3/2023	Analysis Date: 3/6/2023	SeqNo: 3438035 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.8	48.88	0	86.0	54.2	135	4.74	29.2	
Surr: DNOP	4.0		4.888		81.8	69	147	0	0	

Sample ID: LCS-73501	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73501	RunNo: 95068								
Prep Date: 3/3/2023	Analysis Date: 3/6/2023	SeqNo: 3438072 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40	10	50.00	0	80.8	61.9	130			
Surr: DNOP	4.4		5.000		88.1	69	147			

Sample ID: MB-73501	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73501	RunNo: 95068								
Prep Date: 3/3/2023	Analysis Date: 3/6/2023	SeqNo: 3438075 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	9.0		10.00		89.5	69	147			

Sample ID: LCS-73532	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: LCSS	Batch ID: 73532	RunNo: 95077								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3438281 Units: %Rec								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.4		5.000		87.7	69	147			

Sample ID: MB-73532	SampType: MBLK	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 73532	RunNo: 95077								
Prep Date: 3/6/2023	Analysis Date: 3/7/2023	SeqNo: 3438285 Units: %Rec								
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#: 2303179

10-Mar-23

Client: Vertex Resources Services, Inc.**Project:** Lea 946 State

Sample ID: MB-73532	SampType: MBLK		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 73532		RunNo: 95077							
Prep Date: 3/6/2023	Analysis Date: 3/7/2023		SeqNo: 3438285		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.9		10.00		89.2	69	147			

Sample ID: 2303209-001AMS	SampType: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BatchQC	Batch ID: 73532		RunNo: 95077							
Prep Date: 3/6/2023	Analysis Date: 3/7/2023		SeqNo: 3438649		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	2.8		4.378		63.2	69	147			S

Sample ID: 2303209-001AMSD	SampType: MSD		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BatchQC	Batch ID: 73532		RunNo: 95077							
Prep Date: 3/6/2023	Analysis Date: 3/7/2023		SeqNo: 3438650		Units: %Rec					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.0		4.873		62.4	69	147	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 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#: 2303179

10-Mar-23

Client: Vertex Resources Services, Inc.**Project:** Lea 946 State

Sample ID: Ics-73497	SampType: LCS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: LCSS	Batch ID: 73497		RunNo: 95057							
Prep Date: 3/3/2023	Analysis Date: 3/6/2023		SeqNo: 3437771		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	90.0	70	130			
Surr: BFB	2000		1000		197	37.7	212			

Sample ID: MB-73497	SampType: MBLK		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: PBS	Batch ID: 73497		RunNo: 95057							
Prep Date: 3/3/2023	Analysis Date: 3/6/2023		SeqNo: 3437780		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	930		1000		93.0	37.7	212			

Sample ID: 2303169-001AMS	SampType: MS		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BatchQC	Batch ID: 73497		RunNo: 95057							
Prep Date: 3/3/2023	Analysis Date: 3/6/2023		SeqNo: 3437829		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.8	23.95	0	97.0	70	130			
Surr: BFB	1900		957.9		198	37.7	212			

Sample ID: 2303169-001AMSD	SampType: MSD		TestCode: EPA Method 8015D: Gasoline Range							
Client ID: BatchQC	Batch ID: 73497		RunNo: 95057							
Prep Date: 3/3/2023	Analysis Date: 3/6/2023		SeqNo: 3437830		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	4.8	23.97	0	92.4	70	130	4.85	20	
Surr: BFB	1900		958.8		202	37.7	212	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

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

WO#: 2303179

10-Mar-23

Client: Vertex Resources Services, Inc.**Project:** Lea 946 State

Sample ID: LCS-73497	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73497		RunNo: 95057							
Prep Date: 3/3/2023	Analysis Date: 3/6/2023		SeqNo: 3437776		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.025	1.000	0	82.8	80	120			
Toluene	0.83	0.050	1.000	0	82.7	80	120			
Ethylbenzene	0.81	0.050	1.000	0	81.4	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.2	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: MB-73497	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73497		RunNo: 95057							
Prep Date: 3/3/2023	Analysis Date: 3/6/2023		SeqNo: 3437779		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	0.91		1.000		90.8	70	130			

Sample ID: 2303175-001AMS	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BatchQC	Batch ID: 73497		RunNo: 95057							
Prep Date: 3/3/2023	Analysis Date: 3/6/2023		SeqNo: 3437831		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9542	0	92.7	68.8	120			
Toluene	0.90	0.048	0.9542	0	93.9	73.6	124			
Ethylbenzene	0.90	0.048	0.9542	0	93.9	72.7	129			
Xylenes, Total	2.7	0.095	2.863	0	93.0	75.7	126			
Surr: 4-Bromofluorobenzene	0.88		0.9542		92.4	70	130			

Sample ID: 2303175-001AMSD	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BatchQC	Batch ID: 73497		RunNo: 95057							
Prep Date: 3/3/2023	Analysis Date: 3/6/2023		SeqNo: 3437832		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9560	0	95.0	68.8	120	2.59	20	
Toluene	0.93	0.048	0.9560	0	96.8	73.6	124	3.23	20	
Ethylbenzene	0.93	0.048	0.9560	0	96.8	72.7	129	3.14	20	
Xylenes, Total	2.7	0.096	2.868	0	95.7	75.7	126	3.10	20	
Surr: 4-Bromofluorobenzene	0.89		0.9560		92.7	70	130	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 6 of 6



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: Vertex Resources
Services, Inc.

Work Order Number: 2303179

RcptNo: 1

Received By: Tracy Casarrubias 3/3/2023 7:30:00 AM

Completed By: Sean Livingston 3/3/2023 8:41:36 AM

Reviewed By: *JA* 3-3-23

San Lopez

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° 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: *KPC* 3-3-23

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	5.6	Good	Not Present	Morty		



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

February 20, 2023

Monica Peppin

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: Lea St 946 Tank Overflow

OrderNo.: 2302647

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 10 sample(s) on 2/15/2023 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 horizontal line.

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report

Lab Order 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 0'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 10:00:00 AM

Lab ID: 2302647-001

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	2/16/2023 3:00:24 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/16/2023 3:00:24 PM
Surr: DNOP	95.5	69-147		%Rec	1	2/16/2023 3:00:24 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2023 11:25:04 AM
Surr: BFB	101	37.7-212		%Rec	1	2/16/2023 11:25:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/16/2023 11:25:04 AM
Toluene	ND	0.049		mg/Kg	1	2/16/2023 11:25:04 AM
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2023 11:25:04 AM
Xylenes, Total	ND	0.098		mg/Kg	1	2/16/2023 11:25:04 AM
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	2/16/2023 11:25:04 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/17/2023 11:54:03 AM

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 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-01 2'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 10:30:00 AM

Lab ID: 2302647-002

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	2/16/2023 3:11:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/16/2023 3:11:15 PM
Surr: DNOP	116	69-147		%Rec	1	2/16/2023 3:11:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/16/2023 12:35:35 PM
Surr: BFB	104	37.7-212		%Rec	1	2/16/2023 12:35:35 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/16/2023 12:35:35 PM
Toluene	ND	0.050		mg/Kg	1	2/16/2023 12:35:35 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/16/2023 12:35:35 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/16/2023 12:35:35 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/16/2023 12:35:35 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/17/2023 12:06:29 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 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-02 0'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 10:45:00 AM

Lab ID: 2302647-003

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/16/2023 3:22:04 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/16/2023 3:22:04 PM
Surr: DNOP	92.3	69-147		%Rec	1	2/16/2023 3:22:04 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2023 1:46:08 PM
Surr: BFB	102	37.7-212		%Rec	1	2/16/2023 1:46:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/16/2023 1:46:08 PM
Toluene	ND	0.049		mg/Kg	1	2/16/2023 1:46:08 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2023 1:46:08 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/16/2023 1:46:08 PM
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	2/16/2023 1:46:08 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	270	60		mg/Kg	20	2/17/2023 12:18:55 PM

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

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	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 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 0'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 11:00:00 AM

Lab ID: 2302647-004

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	1600	180		mg/Kg	20	2/16/2023 1:34:36 PM
Motor Oil Range Organics (MRO)	1900	920		mg/Kg	20	2/16/2023 1:34:36 PM
Surr: DNOP	0	69-147	S	%Rec	20	2/16/2023 1:34:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2023 2:09:39 PM
Surr: BFB	99.2	37.7-212		%Rec	1	2/16/2023 2:09:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/16/2023 2:09:39 PM
Toluene	ND	0.049		mg/Kg	1	2/16/2023 2:09:39 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2023 2:09:39 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/16/2023 2:09:39 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	2/16/2023 2:09:39 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	980	61		mg/Kg	20	2/17/2023 12:56:14 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.		

Analytical Report

Lab Order 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-03 2'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 11:30:00 AM

Lab ID: 2302647-005

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	560	9.1		mg/Kg	1	2/17/2023 12:03:28 PM
Motor Oil Range Organics (MRO)	280	46		mg/Kg	1	2/17/2023 12:03:28 PM
Surr: DNOP	102	69-147		%Rec	1	2/17/2023 12:03:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	48	25		mg/Kg	5	2/16/2023 7:15:46 PM
Surr: BFB	142	37.7-212		%Rec	5	2/16/2023 7:15:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.12		mg/Kg	5	2/16/2023 7:15:46 PM
Toluene	ND	0.25		mg/Kg	5	2/16/2023 7:15:46 PM
Ethylbenzene	ND	0.25		mg/Kg	5	2/16/2023 7:15:46 PM
Xylenes, Total	ND	0.50		mg/Kg	5	2/16/2023 7:15:46 PM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	5	2/16/2023 7:15:46 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	130	60		mg/Kg	20	2/17/2023 1:08:41 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.		

Analytical Report

Lab Order 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-04 0'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 12:00:00 PM

Lab ID: 2302647-006

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	220	9.5		mg/Kg	1	2/17/2023 1:51:35 PM
Motor Oil Range Organics (MRO)	230	47		mg/Kg	1	2/17/2023 1:51:35 PM
Surr: DNOP	86.1	69-147		%Rec	1	2/17/2023 1:51:35 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	24		mg/Kg	5	2/16/2023 3:19:59 PM
Surr: BFB	107	37.7-212		%Rec	5	2/16/2023 3:19:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.12		mg/Kg	5	2/16/2023 3:19:59 PM
Toluene	ND	0.24		mg/Kg	5	2/16/2023 3:19:59 PM
Ethylbenzene	ND	0.24		mg/Kg	5	2/16/2023 3:19:59 PM
Xylenes, Total	ND	0.49		mg/Kg	5	2/16/2023 3:19:59 PM
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	5	2/16/2023 3:19:59 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	4900	150		mg/Kg	50	2/19/2023 11:03:38 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.		

Analytical Report

Lab Order 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-05 0'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 12:15:00 PM

Lab ID: 2302647-007

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/16/2023 3:32:48 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/16/2023 3:32:48 PM
Surr: DNOP	92.2	69-147		%Rec	1	2/16/2023 3:32:48 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/16/2023 3:43:21 PM
Surr: BFB	105	37.7-212		%Rec	1	2/16/2023 3:43:21 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/16/2023 3:43:21 PM
Toluene	ND	0.047		mg/Kg	1	2/16/2023 3:43:21 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/16/2023 3:43:21 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/16/2023 3:43:21 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	2/16/2023 3:43:21 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/17/2023 1:33:34 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.		

Analytical Report

Lab Order 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-06 0'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 12:30:00 PM

Lab ID: 2302647-008

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	11	9.4		mg/Kg	1	2/16/2023 3:43:31 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	2/16/2023 3:43:31 PM
Surr: DNOP	95.1	69-147		%Rec	1	2/16/2023 3:43:31 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	2/16/2023 4:07:03 PM
Surr: BFB	102	37.7-212		%Rec	1	2/16/2023 4:07:03 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/16/2023 4:07:03 PM
Toluene	ND	0.047		mg/Kg	1	2/16/2023 4:07:03 PM
Ethylbenzene	ND	0.047		mg/Kg	1	2/16/2023 4:07:03 PM
Xylenes, Total	ND	0.094		mg/Kg	1	2/16/2023 4:07:03 PM
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	2/16/2023 4:07:03 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/17/2023 1:45:59 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.		

Analytical Report

Lab Order 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-07 0'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 12:45:00 PM

Lab ID: 2302647-009

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	64	9.7		mg/Kg	1	2/17/2023 12:56:23 PM
Motor Oil Range Organics (MRO)	210	49		mg/Kg	1	2/17/2023 12:56:23 PM
Surr: DNOP	79.1	69-147		%Rec	1	2/17/2023 12:56:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2023 4:30:43 PM
Surr: BFB	98.3	37.7-212		%Rec	1	2/16/2023 4:30:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.025		mg/Kg	1	2/16/2023 4:30:43 PM
Toluene	ND	0.049		mg/Kg	1	2/16/2023 4:30:43 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2023 4:30:43 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/16/2023 4:30:43 PM
Surr: 4-Bromofluorobenzene	95.8	70-130		%Rec	1	2/16/2023 4:30:43 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	1600	60		mg/Kg	20	2/17/2023 1:58:26 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.		

Analytical Report

Lab Order 2302647

Date Reported: 2/20/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-08 0'

Project: Lea St 946 Tank Overflow

Collection Date: 2/11/2023 1:00:00 PM

Lab ID: 2302647-010

Matrix: SOIL

Received Date: 2/15/2023 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: DGH
Diesel Range Organics (DRO)	25	9.8		mg/Kg	1	2/17/2023 12:24:36 PM
Motor Oil Range Organics (MRO)	100	49		mg/Kg	1	2/17/2023 12:24:36 PM
Surr: DNOP	107	69-147		%Rec	1	2/17/2023 12:24:36 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/16/2023 4:54:19 PM
Surr: BFB	102	37.7-212		%Rec	1	2/16/2023 4:54:19 PM
EPA METHOD 8021B: VOLATILES						Analyst: JJP
Benzene	ND	0.024		mg/Kg	1	2/16/2023 4:54:19 PM
Toluene	ND	0.049		mg/Kg	1	2/16/2023 4:54:19 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/16/2023 4:54:19 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/16/2023 4:54:19 PM
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	2/16/2023 4:54:19 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	2/17/2023 2:10:52 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.		

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2302647

20-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea St 946 Tank Overflow

Sample ID: MB-73239	SampType: MBLK	TestCode: EPA Method 300.0: Anions
Client ID: PBS	Batch ID: 73239	RunNo: 94696
Prep Date: 2/17/2023	Analysis Date: 2/17/2023	SeqNo: 3423573 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	ND	1.5

Sample ID: LCS-73239	SampType: LCS	TestCode: EPA Method 300.0: Anions
Client ID: LCSS	Batch ID: 73239	RunNo: 94696
Prep Date: 2/17/2023	Analysis Date: 2/17/2023	SeqNo: 3423574 Units: mg/Kg
Analyte	Result	PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Chloride	14	1.5 15.00 0 96.6 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

Page 11 of 14

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

WO#: 2302647

20-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea St 946 Tank Overflow

Sample ID: LCS-73213	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73213			RunNo: 94650						
Prep Date: 2/16/2023	Analysis Date: 2/16/2023			SeqNo: 3421849		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	88.5	61.9	130			
Surr: DNOP	4.2		5.000		84.2	69	147			

Sample ID: MB-73213	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73213			RunNo: 94650						
Prep Date: 2/16/2023	Analysis Date: 2/16/2023			SeqNo: 3421852		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	8.0		10.00		79.6	69	147			

Sample ID: LCS-73232	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 73232			RunNo: 94691						
Prep Date: 2/17/2023	Analysis Date: 2/17/2023			SeqNo: 3423170		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.5		5.000		90.8	69	147			

Sample ID: MB-73232	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 73232			RunNo: 94691						
Prep Date: 2/17/2023	Analysis Date: 2/17/2023			SeqNo: 3423171		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	8.5		10.00		85.3	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#: 2302647

20-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea St 946 Tank Overflow

Sample ID: lcs-73206	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 73206				RunNo: 94649					
Prep Date: 2/15/2023	Analysis Date: 2/16/2023				SeqNo: 3421834		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	72.3	137			
Surr: BFB	2000		1000		202	37.7	212			

Sample ID: mb-73206	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 73206				RunNo: 94649					
Prep Date: 2/15/2023	Analysis Date: 2/16/2023				SeqNo: 3421835		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		103	37.7	212			

Sample ID: 2302647-001ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH23-01 0'	Batch ID: 73206				RunNo: 94649					
Prep Date: 2/15/2023	Analysis Date: 2/16/2023				SeqNo: 3421837		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.9	24.44	0	82.6	70	130			
Surr: BFB	1800		977.5		184	37.7	212			

Sample ID: 2302647-001amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH23-01 0'	Batch ID: 73206				RunNo: 94649					
Prep Date: 2/15/2023	Analysis Date: 2/16/2023				SeqNo: 3421842		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	19	4.9	24.46	0	78.3	70	130	5.22	20	
Surr: BFB	1700		978.5		172	37.7	212	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

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

WO#: 2302647

20-Feb-23

Client: Vertex Resources Services, Inc.**Project:** Lea St 946 Tank Overflow

Sample ID: LCS-73206	SampType: LCS		TestCode: EPA Method 8021B: Volatiles							
Client ID: LCSS	Batch ID: 73206		RunNo: 94649							
Prep Date: 2/15/2023	Analysis Date: 2/16/2023		SeqNo: 3421839		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.7	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.8	80	120			
Xylenes, Total	2.9	0.10	3.000	0	98.0	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

Sample ID: mb-73206	SampType: MBLK		TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch ID: 73206		RunNo: 94649							
Prep Date: 2/15/2023	Analysis Date: 2/16/2023		SeqNo: 3421841		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		101	70	130			

Sample ID: 2302647-002ams	SampType: MS		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-01 2'	Batch ID: 73206		RunNo: 94649							
Prep Date: 2/15/2023	Analysis Date: 2/16/2023		SeqNo: 3421936		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9940	0	103	68.8	120			
Toluene	1.1	0.050	0.9940	0.01960	106	73.6	124			
Ethylbenzene	1.1	0.050	0.9940	0	109	72.7	129			
Xylenes, Total	3.3	0.099	2.982	0.02846	108	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9940		101	70	130			

Sample ID: 2302647-002amsd	SampType: MSD		TestCode: EPA Method 8021B: Volatiles							
Client ID: BH23-01 2'	Batch ID: 73206		RunNo: 94649							
Prep Date: 2/15/2023	Analysis Date: 2/16/2023		SeqNo: 3421937		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9960	0	100	68.8	120	2.87	20	
Toluene	1.0	0.050	0.9960	0.01960	103	73.6	124	2.72	20	
Ethylbenzene	1.0	0.050	0.9960	0	105	72.7	129	3.61	20	
Xylenes, Total	3.1	0.10	2.988	0.02846	104	75.7	126	3.57	20	
Surr: 4-Bromofluorobenzene	1.0		0.9960		105	70	130	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.

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E Above Quantitation Range/Estimated Value
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Limit



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: Vertex Resources
Services, Inc.

Work Order Number: 2302647

RcptNo: 1

Received By: Tracy Casarrubias 2/15/2023 7:30:00 AM

Completed By: Tracy Casarrubias 2/15/2023 8:01:15 AM

Reviewed By: *SC 2/15/23*

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: *JA 2/15/23*

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	5.7	Good	Yes	Morty		

Chain-of-Custody Record

Client: Vortex

Mailing Address:

Phone #:

email or Fax#:

QA/QC Package:

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

Date	Time	Matrix	Sample Name
2-11-23	10:00	soil	BH23-01 0'
	10:30		BH23-01 2'
	10:45		BH23-02 0'
	11:00		BH23-03 0'
	11:20		BH23-03 2'
	12:00		BH23-04 0'
	12:15		BH23-05 0'
	12:30		BH23-06 0'
	12:45		BH23-07 0'
✓	1:00	✓	BH23-08 0'

Date: 2/14/23 Time: 9:15Relinquished by: Zach EnglebertDate: 2/14/23 Time: 9:00Relinquished by: Monica PeppinTurn-Around Time: 218 HR☐ Standard ☒ Rush

Project Name:

Lea St 946 Tank Overflow

Project #:

21E-03964

Project Manager:

Monica PeppinSampler: ZEOn Ice: ☒ Yes ☐ No# of Coolers: 1Cooler Temp (including CFI): 5.8-0.1-5.3 (°C)

Container Type and #

jar #1

Preservative Type

ice

HEAL No.

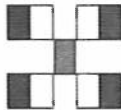
2302643001002003004005006007008009010Received by: Monica Peppin Date: 2/14/23 Time: 9:15Received by: Via: chain Date: 2/10/23 Time: 7:30

Remarks:

cc: M. PeppinHPPC

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 noted on the analytical report.

Released to Imaging: 5/19/2023 9:30:59 AM

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)

Incident ID	nRM2019640815
District RP	
Facility ID	
Application ID	

Remediation Plan

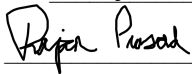
Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☒ Extents of contamination must be fully delineated.
- ☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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

Printed Name: Rajan Prasad Title: Vice President
Signature:  Date: 5/2/2023
email: rajan.prasad@hppcinc.com Telephone: 432-557-5067

OCD Only

Received by: Michael Buchanan Date: 05/19/2023

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☒ Deferral Approved

Signature: Michael Buchanan Date: 05/19/2023

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

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

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

CONDITIONS

Action 209259

CONDITIONS

Operator: HPPC, INC. 306 W Wall 209 Midland, TX 79701	OGRID: 371698
	Action Number: 209259
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
michael.buchanan	Deferral has been approved. HPPC Inc's deferral request to complete final remediation during any future major construction/alteration or final plugging and abandonment, whichever occurs first. HPPC Inc, does not believe deferment will result in imminent risk to human health, the environment, or groundwater. The Deferral Request and C-141 will be accepted for record and marked accordingly. The release will remain open in OCD database files and reflect an open environmental issue.	5/19/2023