

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural
Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	APP2116533180
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party TapRock Operating LLC.	OGRID 37243
Contact Name Christian Combs	Contact Telephone (720) 360-4028
Contact email ccombs@taprk.com	Incident # (assigned by OCD) APP2116533180
Contact mailing address 523 Park Point Dr #200	Golden, CO, 80401

Location of Release Source

Latitude **32°15'55.65" N** Longitude **103°58'18.23" W**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Cypress 34B CTB	Site Type Tank Battery
Date Release Discovered 6/12/20	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	34	23S	29E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 44	Volume Recovered (bbls) 0
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Produced water poly line failed due to excessive heat resulting in a release.

<p>Was this a major release as defined by 19.15.29.7(A) NMAC?</p> <p><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>If YES, for what reason(s) does the responsible party consider this a major release?</p>
<p>If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?</p> <p>Notification was made via NMOCD online tool on 6/14/21</p>	

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

Released to Imaging: 12/17/2021 1:31:51 PM

Incident ID	APP2116533180
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	<u><50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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


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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	APP2116533180
District RP	
Facility ID	
Application ID	

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

Printed Name: Christian Combs Title: EHSR Manager
Signature:  Date: 11/16/2021
email: ccombs@taprk.com Telephone: (720) 360-4028

OCD Only

Received by: _____ Date: _____

Incident ID	APP2116533180
District RP	
Facility ID	
Application ID	


Closure

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

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

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

Printed Name: Christian Combs Title: EHSR Manager
Signature:  Date: 11/16/2021
email: ccombs@taprk.com Telephone: (720) 360-4028

OCD Only

Received by: Chad Hensley Date: 12/17/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by:  Date: 12/17/2021
Printed Name: Chad Hensley Title: Environmental Specialist Advanced



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

Soil Assessment and Remediation Work Plan:

Cypress 34B CTB
Incident # APP2116533180

Prepared For:

Tap Rock Resources, LLC.
Golden, CO

Prepared By:

CDH Consulting
Thornton, CO



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

Subject: Soil Assessment and Remediation Workplan
Cypress 34B CTB
Incident # APP2116533180

To Whom it May Concern,

Tap Rock Resources LLC (Tap Rock) has contracted CDH Consulting LLC (CDH) to perform appropriate remediation services at the Cypress 34B CTB (Site). The results of our soil assessment and proposed remediation activities are described in the following pages. As a result of the site remediation activities, Tap Rock is requesting Closure and no further action on Incident Number APP2116533180.

SITE INFORMATION

The release at the Site is located approximately 7 miles east of Loving, New Mexico (NM), in Unit B, Section 34, Township 23S, Range 29E, Eddy County, NM.

On June 10, 2021, a flowline failed, resulting in the release of 44 barrels (bbls) of produced water west of the Site and north along the right of way. The location of the release is shown on Figure 1. Upon discovery, the line was shut in and the area was secured. No fluids were recovered from the site.

Tap Rock immediately reported the release via the NMOCDC online tool on June 14, 2021, then submitted a form C-141 on June 28, 2021 and was assigned Incident Number APP2116533180.

GROUNDWATER AND SITE RANKING

There are no significant watercourses or other sensitive areas within 0.5 miles of the release as defined by 19.15.29.12.C.(4).

Based on the closest groundwater well to the Site, USGS groundwater well 321615104014601 23S.29E.30.331322, located approximately 3 miles west of the Site, depth to groundwater is 35 feet below ground surface (bgs). This well was most recently measured in November 1954. There are four other relevant groundwater wells in the area within 4 miles of the site, the most recently measured well, USGS well 321545104015401 23S.28E.36.244322, was measured in January 2003 and was determined to have a depth to water of 33 feet bgs.

As outlined in Table 1 of 19.15.29.12 NMAC, the applicable Closer Criteria for the Site is as follows;

- 10 mg/kg Benzene
- 50 mg/kg Total BTEX (Benzene, Toluene, Ethylbenzene, Total Xylenes)
- 100 mg/kg TPH
- 600 mg/kg Chlorides



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

SITE INVESTIGATION AND EXCAVATION

From June 16, 2021 through June 24, 2021 CDH employees oversaw remediation activities at the Site. Approximately 3,020 cubic yards of impacted soil were excavated and transported to R360 Environmental Solutions, a licensed disposal facility. The field excavation crew visually inspected the impacted area to determine the extent of the release. Environmental staff arrived on site to collect confirmation samples demonstrating that any impacted soil has been removed. Field analysis utilizing a photoionization detector (PID) indicated that the impacted soils were removed. Field PID analysis is included as Table 1. Photos of the site during sampling are included as Attachment 1.

A total of 116 samples were collected in the impacted area, as shown on Figure 1, and analyzed for chlorides, total petroleum hydrocarbons (TPH) including gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube organics (MRO), benzene, toluene, ethylbenzene, total xylenes (BTX). Laboratory analytical results are summarized in Table 2 and laboratory data is included as Attachment 2. Sample results were compared to 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water less than 50 feet. Initially, base samples BS21-02 7', BS21-03 7', and BS21-06 7' and wall samples WS21-13 0'-4' exceeded the Closure Criteria. CDH employees returned to site on June 21 and June 23, 2021 to further excavate these areas until BS21-02 8', BS21-03 8', and BS21-06 8' and wall samples WS21-13 0'-4' were compliant with Closure Criteria. At the completion of excavation activities, no samples were above Table I standards.

CONCLUSION AND PROPOSED REMEDIAL ACTIONS

The final excavation extent was approximately 22,590 square feet and CDH removed approximately 3,020 cubic yards of impacted soil. All 50 base samples and 62 wall samples were compliant with the Closure Criteria for the Site. The location will be backfilled with clean soil and reclaimed with an appropriate seed mix during the next growing season.



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

ATTACHMENT 1

Daily Site Visit Report



Site Photos

Viewing Direction: North



Final excavation

Viewing Direction: North



Final excavation

Viewing Direction: North



WS38-62 taken here

Viewing Direction: West



Final excavation



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

ATTACHMENT 2

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-27 4'

Project: Cypress B

Collection Date: 6/22/2021 9:00:00 AM

Lab ID: 2106C58-001

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/24/2021 8:30:04 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2021 8:30:04 AM
Surr: DNOP	103	70-130		%Rec	1	6/24/2021 8:30:04 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 9:28:30 AM
Surr: BFB	96.9	70-130		%Rec	1	6/24/2021 9:28:30 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 9:28:30 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 9:28:30 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 9:28:30 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 9:28:30 AM
Surr: 4-Bromofluorobenzene	99.3	70-130		%Rec	1	6/24/2021 9:28:30 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	280	61		mg/Kg	20	6/24/2021 11:46:56 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-28 4'

Project: Cypress B

Collection Date: 6/22/2021 9:10:00 AM

Lab ID: 2106C58-002

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/24/2021 9:07:11 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2021 9:07:11 AM
Surr: DNOP	98.2	70-130		%Rec	1	6/24/2021 9:07:11 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 9:52:09 AM
Surr: BFB	97.2	70-130		%Rec	1	6/24/2021 9:52:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 9:52:09 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 9:52:09 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 9:52:09 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 9:52:09 AM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	6/24/2021 9:52:09 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	82	61		mg/Kg	20	6/24/2021 11:59:20 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-29 4'

Project: Cypress B

Collection Date: 6/22/2021 9:20:00 AM

Lab ID: 2106C58-003

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/24/2021 9:19:39 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2021 9:19:39 AM
Surr: DNOP	90.5	70-130		%Rec	1	6/24/2021 9:19:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 10:15:44 AM
Surr: BFB	96.7	70-130		%Rec	1	6/24/2021 10:15:44 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 10:15:44 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 10:15:44 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 10:15:44 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 10:15:44 AM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	6/24/2021 10:15:44 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	150	60		mg/Kg	20	6/24/2021 12:11:45 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-30 4'

Project: Cypress B

Collection Date: 6/22/2021 9:30:00 AM

Lab ID: 2106C58-004

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/24/2021 9:32:19 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2021 9:32:19 AM
Surr: DNOP	84.3	70-130		%Rec	1	6/24/2021 9:32:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 10:39:19 AM
Surr: BFB	97.5	70-130		%Rec	1	6/24/2021 10:39:19 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 10:39:19 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 10:39:19 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 10:39:19 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 10:39:19 AM
Surr: 4-Bromofluorobenzene	98.3	70-130		%Rec	1	6/24/2021 10:39:19 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	91	60		mg/Kg	20	6/24/2021 12:24:10 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-31 4'

Project: Cypress B

Collection Date: 6/22/2021 9:40:00 AM

Lab ID: 2106C58-005

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	6/24/2021 9:44:52 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2021 9:44:52 AM
Surr: DNOP	83.1	70-130		%Rec	1	6/24/2021 9:44:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 11:02:52 AM
Surr: BFB	102	70-130		%Rec	1	6/24/2021 11:02:52 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 11:02:52 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 11:02:52 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 11:02:52 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 11:02:52 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/24/2021 11:02:52 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	150	59		mg/Kg	20	6/24/2021 12:36:34 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-32 6'

Project: Cypress B

Collection Date: 6/22/2021 9:50:00 AM

Lab ID: 2106C58-006

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/24/2021 9:57:20 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2021 9:57:20 AM
Surr: DNOP	89.3	70-130		%Rec	1	6/24/2021 9:57:20 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 11:26:23 AM
Surr: BFB	98.7	70-130		%Rec	1	6/24/2021 11:26:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 11:26:23 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 11:26:23 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 11:26:23 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 11:26:23 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/24/2021 11:26:23 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/24/2021 12:48:58 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-33 6'

Project: Cypress B

Collection Date: 6/22/2021 10:00:00 AM

Lab ID: 2106C58-007

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/24/2021 10:09:52 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2021 10:09:52 AM
Surr: DNOP	80.1	70-130		%Rec	1	6/24/2021 10:09:52 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 11:50:00 AM
Surr: BFB	97.9	70-130		%Rec	1	6/24/2021 11:50:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 11:50:00 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 11:50:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 11:50:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 11:50:00 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/24/2021 11:50:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	61		mg/Kg	20	6/24/2021 1:03:28 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-34 6'

Project: Cypress B

Collection Date: 6/22/2021 10:10:00 AM

Lab ID: 2106C58-008

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/24/2021 10:22:26 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/24/2021 10:22:26 AM
Surr: DNOP	80.3	70-130		%Rec	1	6/24/2021 10:22:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 12:13:39 PM
Surr: BFB	100	70-130		%Rec	1	6/24/2021 12:13:39 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 12:13:39 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 12:13:39 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 12:13:39 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 12:13:39 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/24/2021 12:13:39 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/24/2021 1:15:53 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 8 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-35 6'

Project: Cypress B

Collection Date: 6/22/2021 10:20:00 AM

Lab ID: 2106C58-009

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/24/2021 10:34:56 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/24/2021 10:34:56 AM
Surr: DNOP	80.4	70-130		%Rec	1	6/24/2021 10:34:56 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 12:37:14 PM
Surr: BFB	100	70-130		%Rec	1	6/24/2021 12:37:14 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 12:37:14 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 12:37:14 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 12:37:14 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 12:37:14 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/24/2021 12:37:14 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/24/2021 1:28:18 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 9 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-36 6'

Project: Cypress B

Collection Date: 6/22/2021 10:30:00 AM

Lab ID: 2106C58-010

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/24/2021 10:47:30 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2021 10:47:30 AM
Surr: DNOP	80.0	70-130		%Rec	1	6/24/2021 10:47:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 1:00:54 PM
Surr: BFB	102	70-130		%Rec	1	6/24/2021 1:00:54 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 1:00:54 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 1:00:54 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 1:00:54 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 1:00:54 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/24/2021 1:00:54 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/24/2021 1:40:42 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-37 4'

Project: Cypress B

Collection Date: 6/22/2021 10:40:00 AM

Lab ID: 2106C58-011

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/24/2021 11:00:10 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/24/2021 11:00:10 AM
Surr: DNOP	77.8	70-130		%Rec	1	6/24/2021 11:00:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 1:48:22 PM
Surr: BFB	100	70-130		%Rec	1	6/24/2021 1:48:22 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 1:48:22 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 1:48:22 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 1:48:22 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 1:48:22 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/24/2021 1:48:22 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	210	61		mg/Kg	20	6/24/2021 2:17:55 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 11 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-38 4'

Project: Cypress B

Collection Date: 6/22/2021 10:50:00 AM

Lab ID: 2106C58-012

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/24/2021 11:12:53 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/24/2021 11:12:53 AM
Surr: DNOP	79.9	70-130		%Rec	1	6/24/2021 11:12:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 2:12:08 PM
Surr: BFB	99.3	70-130		%Rec	1	6/24/2021 2:12:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 2:12:08 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 2:12:08 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 2:12:08 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 2:12:08 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/24/2021 2:12:08 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	220	60		mg/Kg	20	6/24/2021 2:30:20 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 12 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-39 5'

Project: Cypress B

Collection Date: 6/22/2021 11:00:00 AM

Lab ID: 2106C58-013

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/24/2021 11:25:36 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2021 11:25:36 AM
Surr: DNOP	79.3	70-130		%Rec	1	6/24/2021 11:25:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 2:35:46 PM
Surr: BFB	101	70-130		%Rec	1	6/24/2021 2:35:46 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 2:35:46 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 2:35:46 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 2:35:46 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 2:35:46 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/24/2021 2:35:46 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/24/2021 2:42:44 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-40 5'

Project: Cypress B

Collection Date: 6/22/2021 11:10:00 AM

Lab ID: 2106C58-014

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/24/2021 11:38:24 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2021 11:38:24 AM
Surr: DNOP	85.2	70-130		%Rec	1	6/24/2021 11:38:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 2:59:26 PM
Surr: BFB	102	70-130		%Rec	1	6/24/2021 2:59:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 2:59:26 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 2:59:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 2:59:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 2:59:26 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/24/2021 2:59:26 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	99	60		mg/Kg	20	6/24/2021 2:55:09 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 14 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-41 5'

Project: Cypress B

Collection Date: 6/22/2021 11:20:00 AM

Lab ID: 2106C58-015

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/24/2021 11:51:09 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/24/2021 11:51:09 AM
Surr: DNOP	81.2	70-130		%Rec	1	6/24/2021 11:51:09 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 3:23:05 PM
Surr: BFB	99.5	70-130		%Rec	1	6/24/2021 3:23:05 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 3:23:05 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 3:23:05 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 3:23:05 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 3:23:05 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/24/2021 3:23:05 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	110	59		mg/Kg	20	6/24/2021 3:07:33 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 15 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-42 5'

Project: Cypress B

Collection Date: 6/22/2021 11:30:00 AM

Lab ID: 2106C58-016

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/24/2021 12:03:53 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/24/2021 12:03:53 PM
Surr: DNOP	78.7	70-130		%Rec	1	6/24/2021 12:03:53 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 3:46:43 PM
Surr: BFB	101	70-130		%Rec	1	6/24/2021 3:46:43 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/24/2021 3:46:43 PM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 3:46:43 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 3:46:43 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 3:46:43 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/24/2021 3:46:43 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	120	60		mg/Kg	20	6/24/2021 3:19:58 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 16 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-43 6'

Project: Cypress B

Collection Date: 6/22/2021 11:40:00 AM

Lab ID: 2106C58-017

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/24/2021 12:16:38 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2021 12:16:38 PM
Surr: DNOP	79.8	70-130		%Rec	1	6/24/2021 12:16:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 10:29:00 AM
Surr: BFB	105	70-130		%Rec	1	6/24/2021 10:29:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/24/2021 10:29:00 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 10:29:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 10:29:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 10:29:00 AM
Surr: 4-Bromofluorobenzene	106	70-130		%Rec	1	6/24/2021 10:29:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/24/2021 3:32:22 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 17 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-44 6'

Project: Cypress B

Collection Date: 6/22/2021 11:50:00 AM

Lab ID: 2106C58-018

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/24/2021 12:29:20 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/24/2021 12:29:20 PM
Surr: DNOP	81.4	70-130		%Rec	1	6/24/2021 12:29:20 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 10:49:00 AM
Surr: BFB	101	70-130		%Rec	1	6/24/2021 10:49:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/24/2021 10:49:00 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 10:49:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 10:49:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 10:49:00 AM
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	6/24/2021 10:49:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	260	60		mg/Kg	20	6/24/2021 3:44:46 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 18 of 0

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-45 6'

Project: Cypress B

Collection Date: 6/22/2021 12:00:00 PM

Lab ID: 2106C58-019

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/24/2021 12:41:49 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/24/2021 12:41:49 PM
Surr: DNOP	82.6	70-130		%Rec	1	6/24/2021 12:41:49 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 11:08:00 AM
Surr: BFB	95.1	70-130		%Rec	1	6/24/2021 11:08:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/24/2021 11:08:00 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 11:08:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 11:08:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 11:08:00 AM
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	6/24/2021 11:08:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	320	60		mg/Kg	20	6/24/2021 3:57:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106C58

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-46 7'

Project: Cypress B

Collection Date: 6/22/2021 12:10:00 PM

Lab ID: 2106C58-020

Matrix: MEOH (SOIL)

Received Date: 6/24/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/24/2021 12:54:19 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/24/2021 12:54:19 PM
Surr: DNOP	83.8	70-130		%Rec	1	6/24/2021 12:54:19 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/24/2021 11:28:00 AM
Surr: BFB	94.4	70-130		%Rec	1	6/24/2021 11:28:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/24/2021 11:28:00 AM
Toluene	ND	0.050		mg/Kg	1	6/24/2021 11:28:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/24/2021 11:28:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/24/2021 11:28:00 AM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	6/24/2021 11:28:00 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	290	59		mg/Kg	20	6/24/2021 4:09:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 20 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-08 7'

Project: Cypress B

Collection Date: 6/17/2021 9:00:00 AM

Lab ID: 2106B17-001

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/22/2021 9:58:42 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2021 9:58:42 AM
Surr: DNOP	80.0	70-130		%Rec	1	6/22/2021 9:58:42 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 9:02:37 AM
Surr: BFB	96.9	70-130		%Rec	1	6/22/2021 9:02:37 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 9:02:37 AM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 9:02:37 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 9:02:37 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 9:02:37 AM
Surr: 4-Bromofluorobenzene	96.7	70-130		%Rec	1	6/22/2021 9:02:37 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	150	60		mg/Kg	20	6/22/2021 9:45:31 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 1 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-09 4'

Project: Cypress B

Collection Date: 6/17/2021 9:10:00 AM

Lab ID: 2106B17-002

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/22/2021 10:10:38 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2021 10:10:38 AM
Surr: DNOP	80.8	70-130		%Rec	1	6/22/2021 10:10:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 9:26:09 AM
Surr: BFB	95.8	70-130		%Rec	1	6/22/2021 9:26:09 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 9:26:09 AM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 9:26:09 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 9:26:09 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 9:26:09 AM
Surr: 4-Bromofluorobenzene	95.9	70-130		%Rec	1	6/22/2021 9:26:09 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	61	60		mg/Kg	20	6/22/2021 9:57:56 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-10 4'

Project: Cypress B

Collection Date: 6/17/2021 9:20:00 AM

Lab ID: 2106B17-003

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/22/2021 10:22:43 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/22/2021 10:22:43 AM
Surr: DNOP	97.0	70-130		%Rec	1	6/22/2021 10:22:43 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 9:49:43 AM
Surr: BFB	97.5	70-130		%Rec	1	6/22/2021 9:49:43 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 9:49:43 AM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 9:49:43 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 9:49:43 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 9:49:43 AM
Surr: 4-Bromofluorobenzene	96.1	70-130		%Rec	1	6/22/2021 9:49:43 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	110	60		mg/Kg	20	6/22/2021 10:10:20 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-11 4'

Project: Cypress B

Collection Date: 6/17/2021 9:30:00 AM

Lab ID: 2106B17-004

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/22/2021 10:34:44 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/22/2021 10:34:44 AM
Surr: DNOP	89.9	70-130		%Rec	1	6/22/2021 10:34:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 10:13:18 AM
Surr: BFB	102	70-130		%Rec	1	6/22/2021 10:13:18 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 10:13:18 AM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 10:13:18 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 10:13:18 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 10:13:18 AM
Surr: 4-Bromofluorobenzene	97.5	70-130		%Rec	1	6/22/2021 10:13:18 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/22/2021 10:22:45 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-12 6'

Project: Cypress B

Collection Date: 6/17/2021 9:40:00 AM

Lab ID: 2106B17-005

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/22/2021 10:46:48 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/22/2021 10:46:48 AM
Surr: DNOP	76.9	70-130		%Rec	1	6/22/2021 10:46:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 10:36:50 AM
Surr: BFB	101	70-130		%Rec	1	6/22/2021 10:36:50 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 10:36:50 AM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 10:36:50 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 10:36:50 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 10:36:50 AM
Surr: 4-Bromofluorobenzene	99.1	70-130		%Rec	1	6/22/2021 10:36:50 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	89	60		mg/Kg	20	6/22/2021 10:35:09 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-08 0-6'

Project: Cypress B

Collection Date: 6/17/2021 9:50:00 AM

Lab ID: 2106B17-006

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/22/2021 10:59:02 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2021 10:59:02 AM
Surr: DNOP	94.0	70-130		%Rec	1	6/22/2021 10:59:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 11:00:22 AM
Surr: BFB	98.6	70-130		%Rec	1	6/22/2021 11:00:22 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 11:00:22 AM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 11:00:22 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 11:00:22 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 11:00:22 AM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	6/22/2021 11:00:22 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/22/2021 11:12:22 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-09 0-6'

Project: Cypress B

Collection Date: 6/17/2021 10:00:00 AM

Lab ID: 2106B17-007

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/22/2021 11:11:02 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2021 11:11:02 AM
Surr: DNOP	75.7	70-130		%Rec	1	6/22/2021 11:11:02 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 11:23:56 AM
Surr: BFB	101	70-130		%Rec	1	6/22/2021 11:23:56 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 11:23:56 AM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 11:23:56 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 11:23:56 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 11:23:56 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/22/2021 11:23:56 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	240	59		mg/Kg	20	6/22/2021 11:24:46 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-10 0-6'

Project: Cypress B

Collection Date: 6/17/2021 10:20:00 AM

Lab ID: 2106B17-008

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/22/2021 11:23:12 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2021 11:23:12 AM
Surr: DNOP	80.1	70-130		%Rec	1	6/22/2021 11:23:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 11:47:32 AM
Surr: BFB	99.2	70-130		%Rec	1	6/22/2021 11:47:32 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 11:47:32 AM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 11:47:32 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 11:47:32 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 11:47:32 AM
Surr: 4-Bromofluorobenzene	98.5	70-130		%Rec	1	6/22/2021 11:47:32 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	190	60		mg/Kg	20	6/22/2021 11:37:10 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 8 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-11 0-4'

Project: Cypress B

Collection Date: 6/17/2021 10:30:00 AM

Lab ID: 2106B17-009

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/22/2021 11:35:21 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/22/2021 11:35:21 AM
Surr: DNOP	82.6	70-130		%Rec	1	6/22/2021 11:35:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 12:11:06 PM
Surr: BFB	101	70-130		%Rec	1	6/22/2021 12:11:06 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 12:11:06 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 12:11:06 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 12:11:06 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 12:11:06 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/22/2021 12:11:06 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	74	60		mg/Kg	20	6/22/2021 11:49:34 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 9 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-12 0-4'

Project: Cypress B

Collection Date: 6/17/2021 10:40:00 AM

Lab ID: 2106B17-010

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/22/2021 11:47:39 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/22/2021 11:47:39 AM
Surr: DNOP	76.3	70-130		%Rec	1	6/22/2021 11:47:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 12:34:36 PM
Surr: BFB	99.2	70-130		%Rec	1	6/22/2021 12:34:36 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 12:34:36 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 12:34:36 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 12:34:36 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 12:34:36 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	6/22/2021 12:34:36 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	92	60		mg/Kg	20	6/22/2021 12:01:59 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 10 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-13 0-4'

Project: Cypress B

Collection Date: 6/17/2021 10:50:00 AM

Lab ID: 2106B17-011

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/22/2021 11:59:48 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2021 11:59:48 AM
Surr: DNOP	76.3	70-130		%Rec	1	6/22/2021 11:59:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 1:21:47 PM
Surr: BFB	102	70-130		%Rec	1	6/22/2021 1:21:47 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 1:21:47 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 1:21:47 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 1:21:47 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 1:21:47 PM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	6/22/2021 1:21:47 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	650	60		mg/Kg	20	6/22/2021 12:14:24 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 11 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-14 0-4'

Project: Cypress B

Collection Date: 6/17/2021 11:00:00 AM

Lab ID: 2106B17-012

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/22/2021 11:35:05 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/22/2021 11:35:05 AM
Surr: DNOP	75.7	70-130		%Rec	1	6/22/2021 11:35:05 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 1:45:26 PM
Surr: BFB	98.4	70-130		%Rec	1	6/22/2021 1:45:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 1:45:26 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 1:45:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 1:45:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 1:45:26 PM
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	6/22/2021 1:45:26 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	190	60		mg/Kg	20	6/22/2021 12:26:48 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 12 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-07 0-6'

Project: Cypress B

Collection Date: 6/18/2021 8:45:00 AM

Lab ID: 2106B17-013

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/22/2021 11:11:24 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/22/2021 11:11:24 AM
Surr: DNOP	81.6	70-130		%Rec	1	6/22/2021 11:11:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 2:09:04 PM
Surr: BFB	99.3	70-130		%Rec	1	6/22/2021 2:09:04 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 2:09:04 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 2:09:04 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 2:09:04 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 2:09:04 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	6/22/2021 2:09:04 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/22/2021 12:39:12 PM

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

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

Page 13 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-15 0-4'

Project: Cypress B

Collection Date: 6/18/2021 9:00:00 AM

Lab ID: 2106B17-014

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/22/2021 10:47:41 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/22/2021 10:47:41 AM
Surr: DNOP	84.3	70-130		%Rec	1	6/22/2021 10:47:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 2:32:48 PM
Surr: BFB	105	70-130		%Rec	1	6/22/2021 2:32:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 2:32:48 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 2:32:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 2:32:48 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 2:32:48 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/22/2021 2:32:48 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/22/2021 12:51:37 PM

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

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

Page 14 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-17 0-6'

Project: Cypress B

Collection Date: 6/18/2021 9:15:00 AM

Lab ID: 2106B17-015

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/22/2021 10:23:59 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2021 10:23:59 AM
Surr: DNOP	89.3	70-130		%Rec	1	6/22/2021 10:23:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 2:56:29 PM
Surr: BFB	103	70-130		%Rec	1	6/22/2021 2:56:29 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 2:56:29 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 2:56:29 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 2:56:29 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 2:56:29 PM
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	6/22/2021 2:56:29 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	280	60		mg/Kg	20	6/22/2021 1:04:01 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 15 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-18 0-6'

Project: Cypress B

Collection Date: 6/18/2021 9:30:00 AM

Lab ID: 2106B17-016

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/22/2021 10:00:19 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/22/2021 10:00:19 AM
Surr: DNOP	89.4	70-130		%Rec	1	6/22/2021 10:00:19 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 3:20:15 PM
Surr: BFB	102	70-130		%Rec	1	6/22/2021 3:20:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 3:20:15 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 3:20:15 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 3:20:15 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 3:20:15 PM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/22/2021 3:20:15 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	67	60		mg/Kg	20	6/22/2021 9:00:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 16 of 0

Analytical Report

Lab Order 2106B17

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-16 0-5'

Project: Cypress B

Collection Date: 6/17/2021 11:10:00 AM

Lab ID: 2106B17-017

Matrix: MEOH (SOIL)

Received Date: 6/22/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/22/2021 9:36:38 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/22/2021 9:36:38 AM
Surr: DNOP	88.7	70-130		%Rec	1	6/22/2021 9:36:38 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/22/2021 3:44:02 PM
Surr: BFB	103	70-130		%Rec	1	6/22/2021 3:44:02 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	6/22/2021 3:44:02 PM
Toluene	ND	0.050		mg/Kg	1	6/22/2021 3:44:02 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/22/2021 3:44:02 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/22/2021 3:44:02 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/22/2021 3:44:02 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	360	60		mg/Kg	20	6/22/2021 9:00:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 17 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-01 7'

Project: Cypress B

Collection Date: 6/16/2021 8:00:00 AM

Lab ID: 2106970-001

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	6/18/2021 9:10:33 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/18/2021 9:10:33 AM
Surr: DNOP	83.4	70-130		%Rec	1	6/18/2021 9:10:33 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 9:52:27 AM
Surr: BFB	107	70-130		%Rec	1	6/18/2021 9:52:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 9:52:27 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 9:52:27 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 9:52:27 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 9:52:27 AM
Surr: 4-Bromofluorobenzene	97.4	70-130		%Rec	1	6/18/2021 9:52:27 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/18/2021 11:03:45 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-02 7'

Project: Cypress B

Collection Date: 6/16/2021 8:10:00 AM

Lab ID: 2106970-002

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	6/18/2021 9:22:57 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	6/18/2021 9:22:57 AM
Surr: DNOP	84.6	70-130		%Rec	1	6/18/2021 9:22:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 10:16:00 AM
Surr: BFB	107	70-130		%Rec	1	6/18/2021 10:16:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 10:16:00 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 10:16:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 10:16:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 10:16:00 AM
Surr: 4-Bromofluorobenzene	98.9	70-130		%Rec	1	6/18/2021 10:16:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	770	60		mg/Kg	20	6/18/2021 11:16:09 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-03 7'

Project: Cypress B

Collection Date: 6/16/2021 8:20:00 AM

Lab ID: 2106970-003

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	6/18/2021 9:35:21 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	6/18/2021 9:35:21 AM
Surr: DNOP	81.0	70-130		%Rec	1	6/18/2021 9:35:21 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 10:39:34 AM
Surr: BFB	108	70-130		%Rec	1	6/18/2021 10:39:34 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 10:39:34 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 10:39:34 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 10:39:34 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 10:39:34 AM
Surr: 4-Bromofluorobenzene	97.7	70-130		%Rec	1	6/18/2021 10:39:34 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	1900	60		mg/Kg	20	6/18/2021 11:28:33 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-04 3'

Project: Cypress B

Collection Date: 6/16/2021 8:30:00 AM

Lab ID: 2106970-004

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/18/2021 9:47:49 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/18/2021 9:47:49 AM
Surr: DNOP	80.4	70-130		%Rec	1	6/18/2021 9:47:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 11:03:05 AM
Surr: BFB	111	70-130		%Rec	1	6/18/2021 11:03:05 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 11:03:05 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 11:03:05 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 11:03:05 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 11:03:05 AM
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/18/2021 11:03:05 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/18/2021 11:40:57 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 4 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-05 6'

Project: Cypress B

Collection Date: 6/16/2021 8:40:00 AM

Lab ID: 2106970-005

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/18/2021 10:00:12 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/18/2021 10:00:12 AM
Surr: DNOP	86.9	70-130		%Rec	1	6/18/2021 10:00:12 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 11:26:41 AM
Surr: BFB	106	70-130		%Rec	1	6/18/2021 11:26:41 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 11:26:41 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 11:26:41 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 11:26:41 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 11:26:41 AM
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	6/18/2021 11:26:41 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	280	60		mg/Kg	20	6/18/2021 12:18:10 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-06 7'

Project: Cypress B

Collection Date: 6/16/2021 8:50:00 AM

Lab ID: 2106970-006

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/18/2021 10:12:40 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/18/2021 10:12:40 AM
Surr: DNOP	86.5	70-130		%Rec	1	6/18/2021 10:12:40 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 11:50:13 AM
Surr: BFB	109	70-130		%Rec	1	6/18/2021 11:50:13 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 11:50:13 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 11:50:13 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 11:50:13 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 11:50:13 AM
Surr: 4-Bromofluorobenzene	99.6	70-130		%Rec	1	6/18/2021 11:50:13 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	710	60		mg/Kg	20	6/18/2021 12:30:34 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-07 6'

Project: Cypress B

Collection Date: 6/16/2021 9:00:00 AM

Lab ID: 2106970-007

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	6/18/2021 10:25:16 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/18/2021 10:25:16 AM
Surr: DNOP	86.0	70-130		%Rec	1	6/18/2021 10:25:16 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 12:13:51 PM
Surr: BFB	107	70-130		%Rec	1	6/18/2021 12:13:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 12:13:51 PM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 12:13:51 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 12:13:51 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 12:13:51 PM
Surr: 4-Bromofluorobenzene	98.2	70-130		%Rec	1	6/18/2021 12:13:51 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/18/2021 12:42:58 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-01 0-7'

Project: Cypress B

Collection Date: 6/16/2021 10:00:00 AM

Lab ID: 2106970-008

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	6/18/2021 10:37:59 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/18/2021 10:37:59 AM
Surr: DNOP	85.2	70-130		%Rec	1	6/18/2021 10:37:59 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 9:45:00 AM
Surr: BFB	102	70-130		%Rec	1	6/18/2021 9:45:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 9:45:00 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 9:45:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 9:45:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 9:45:00 AM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	6/18/2021 9:45:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/18/2021 12:55:22 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 8 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-02 0-7'

Project: Cypress B

Collection Date: 6/16/2021 10:10:00 AM

Lab ID: 2106970-009

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/18/2021 10:50:48 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/18/2021 10:50:48 AM
Surr: DNOP	82.3	70-130		%Rec	1	6/18/2021 10:50:48 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 10:05:00 AM
Surr: BFB	101	70-130		%Rec	1	6/18/2021 10:05:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 10:05:00 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 10:05:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 10:05:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 10:05:00 AM
Surr: 4-Bromofluorobenzene	87.6	70-130		%Rec	1	6/18/2021 10:05:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/18/2021 9:00:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 9 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-03 0-7'

Project: Cypress B

Collection Date: 6/16/2021 10:20:00 AM

Lab ID: 2106970-010

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/18/2021 11:03:44 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/18/2021 11:03:44 AM
Surr: DNOP	85.4	70-130		%Rec	1	6/18/2021 11:03:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 10:25:00 AM
Surr: BFB	102	70-130		%Rec	1	6/18/2021 10:25:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 10:25:00 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 10:25:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 10:25:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 10:25:00 AM
Surr: 4-Bromofluorobenzene	86.7	70-130		%Rec	1	6/18/2021 10:25:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/18/2021 9:00:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 10 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-04 0-7'

Project: Cypress B

Collection Date: 6/16/2021 10:30:00 AM

Lab ID: 2106970-011

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	7.7		mg/Kg	1	6/18/2021 11:16:41 AM
Motor Oil Range Organics (MRO)	ND	38		mg/Kg	1	6/18/2021 11:16:41 AM
Surr: DNOP	88.5	70-130		%Rec	1	6/18/2021 11:16:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 10:44:00 AM
Surr: BFB	100	70-130		%Rec	1	6/18/2021 10:44:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 10:44:00 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 10:44:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 10:44:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 10:44:00 AM
Surr: 4-Bromofluorobenzene	87.4	70-130		%Rec	1	6/18/2021 10:44:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	230	60		mg/Kg	20	6/18/2021 1:30:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 11 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-05 0-7'

Project: Cypress B

Collection Date: 6/16/2021 10:40:00 AM

Lab ID: 2106970-012

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	6/18/2021 11:29:31 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	6/18/2021 11:29:31 AM
Surr: DNOP	84.6	70-130		%Rec	1	6/18/2021 11:29:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 11:04:00 AM
Surr: BFB	101	70-130		%Rec	1	6/18/2021 11:04:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 11:04:00 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 11:04:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 11:04:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 11:04:00 AM
Surr: 4-Bromofluorobenzene	87.1	70-130		%Rec	1	6/18/2021 11:04:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	61		mg/Kg	20	6/18/2021 1:30:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 12 of 0

Analytical Report

Lab Order 2106970

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-06 0-7'

Project: Cypress B

Collection Date: 6/16/2021 10:50:00 AM

Lab ID: 2106970-013

Matrix: MEOH (SOIL)

Received Date: 6/18/2021 7:40:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.4		mg/Kg	1	6/18/2021 11:42:23 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	6/18/2021 11:42:23 AM
Surr: DNOP	86.3	70-130		%Rec	1	6/18/2021 11:42:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/18/2021 11:24:00 AM
Surr: BFB	95.8	70-130		%Rec	1	6/18/2021 11:24:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/18/2021 11:24:00 AM
Toluene	ND	0.050		mg/Kg	1	6/18/2021 11:24:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/18/2021 11:24:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/18/2021 11:24:00 AM
Surr: 4-Bromofluorobenzene	82.8	70-130		%Rec	1	6/18/2021 11:24:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/18/2021 1:30:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 13 of 0



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

June 28, 2021

John Hurt
Vertex Resources Services, Inc.
3101 Boyd Drive
Carlsbad, NM 88220
TEL: (505) 506-0040
FAX:

RE: Cypress B

OrderNo.: 2106B83

Dear John Hurt:

Hall Environmental Analysis Laboratory received 17 sample(s) on 6/23/2021 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 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-02 8'

Project: Cypress B

Collection Date: 6/21/2021 9:00:00 AM

Lab ID: 2106B83-001

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	61	59		mg/Kg	20	6/23/2021 10:40:11 AM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/23/2021 11:47:48 AM	60844
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/23/2021 11:47:48 AM	60844
Surr: DNOP	83.6	70-130		%Rec	1	6/23/2021 11:47:48 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	6/23/2021 9:15:14 AM	G79302
Surr: BFB	98.9	70-130		%Rec	1	6/23/2021 9:15:14 AM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	6/23/2021 9:15:14 AM	B79302
Toluene	ND	0.031		mg/Kg	1	6/23/2021 9:15:14 AM	B79302
Ethylbenzene	ND	0.031		mg/Kg	1	6/23/2021 9:15:14 AM	B79302
Xylenes, Total	ND	0.062		mg/Kg	1	6/23/2021 9:15:14 AM	B79302
Surr: 4-Bromofluorobenzene	97.0	70-130		%Rec	1	6/23/2021 9:15:14 AM	B79302

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

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

Page 1 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-03 8'

Project: Cypress B

Collection Date: 6/21/2021 9:10:00 AM

Lab ID: 2106B83-002

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/23/2021 10:52:36 AM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/23/2021 12:12:08 PM	60844
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/23/2021 12:12:08 PM	60844
Surr: DNOP	82.3	70-130		%Rec	1	6/23/2021 12:12:08 PM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/23/2021 9:38:40 AM	G79302
Surr: BFB	99.3	70-130		%Rec	1	6/23/2021 9:38:40 AM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	6/23/2021 9:38:40 AM	B79302
Toluene	ND	0.034		mg/Kg	1	6/23/2021 9:38:40 AM	B79302
Ethylbenzene	ND	0.034		mg/Kg	1	6/23/2021 9:38:40 AM	B79302
Xylenes, Total	ND	0.067		mg/Kg	1	6/23/2021 9:38:40 AM	B79302
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	6/23/2021 9:38:40 AM	B79302

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

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

Page 2 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-06 8'

Project: Cypress B

Collection Date: 6/21/2021 9:20:00 AM

Lab ID: 2106B83-003

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	240	59		mg/Kg	20	6/23/2021 11:05:01 AM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	8.3		mg/Kg	1	6/23/2021 12:36:29 PM	60844
Motor Oil Range Organics (MRO)	ND	41		mg/Kg	1	6/23/2021 12:36:29 PM	60844
Surr: DNOP	81.3	70-130		%Rec	1	6/23/2021 12:36:29 PM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	6/23/2021 10:02:09 AM	G79302
Surr: BFB	99.5	70-130		%Rec	1	6/23/2021 10:02:09 AM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	6/23/2021 10:02:09 AM	B79302
Toluene	ND	0.042		mg/Kg	1	6/23/2021 10:02:09 AM	B79302
Ethylbenzene	ND	0.042		mg/Kg	1	6/23/2021 10:02:09 AM	B79302
Xylenes, Total	ND	0.084		mg/Kg	1	6/23/2021 10:02:09 AM	B79302
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	6/23/2021 10:02:09 AM	B79302

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

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

Page 3 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-13 7'

Project: Cypress B

Collection Date: 6/21/2021 9:30:00 AM

Lab ID: 2106B83-004

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	280	59		mg/Kg	20	6/23/2021 11:17:25 AM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/23/2021 1:00:44 PM	60844
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/23/2021 1:00:44 PM	60844
Surr: DNOP	75.6	70-130		%Rec	1	6/23/2021 1:00:44 PM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	6/23/2021 10:25:50 AM	G79302
Surr: BFB	98.4	70-130		%Rec	1	6/23/2021 10:25:50 AM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	6/23/2021 10:25:50 AM	B79302
Toluene	ND	0.030		mg/Kg	1	6/23/2021 10:25:50 AM	B79302
Ethylbenzene	ND	0.030		mg/Kg	1	6/23/2021 10:25:50 AM	B79302
Xylenes, Total	ND	0.060		mg/Kg	1	6/23/2021 10:25:50 AM	B79302
Surr: 4-Bromofluorobenzene	96.9	70-130		%Rec	1	6/23/2021 10:25:50 AM	B79302

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

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

Page 4 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-14 8'

Project: Cypress B

Collection Date: 6/21/2021 9:40:00 AM

Lab ID: 2106B83-005

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	160	60		mg/Kg	20	6/23/2021 11:29:49 AM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/23/2021 1:25:12 PM	60844
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/23/2021 1:25:12 PM	60844
Surr: DNOP	78.6	70-130		%Rec	1	6/23/2021 1:25:12 PM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	6/23/2021 10:49:19 AM	G79302
Surr: BFB	101	70-130		%Rec	1	6/23/2021 10:49:19 AM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	6/23/2021 10:49:19 AM	B79302
Toluene	ND	0.031		mg/Kg	1	6/23/2021 10:49:19 AM	B79302
Ethylbenzene	ND	0.031		mg/Kg	1	6/23/2021 10:49:19 AM	B79302
Xylenes, Total	ND	0.061		mg/Kg	1	6/23/2021 10:49:19 AM	B79302
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	6/23/2021 10:49:19 AM	B79302

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

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

Page 5 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-15 7'

Project: Cypress B

Collection Date: 6/21/2021 9:50:00 AM

Lab ID: 2106B83-006

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	220	61		mg/Kg	20	6/23/2021 11:42:14 AM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: JME
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/23/2021 1:49:31 PM	60844
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/23/2021 1:49:31 PM	60844
Surr: DNOP	82.1	70-130		%Rec	1	6/23/2021 1:49:31 PM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	6/23/2021 11:12:47 AM	G79302
Surr: BFB	100	70-130		%Rec	1	6/23/2021 11:12:47 AM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	6/23/2021 11:12:47 AM	B79302
Toluene	ND	0.041		mg/Kg	1	6/23/2021 11:12:47 AM	B79302
Ethylbenzene	ND	0.041		mg/Kg	1	6/23/2021 11:12:47 AM	B79302
Xylenes, Total	ND	0.082		mg/Kg	1	6/23/2021 11:12:47 AM	B79302
Surr: 4-Bromofluorobenzene	99.2	70-130		%Rec	1	6/23/2021 11:12:47 AM	B79302

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

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

Page 6 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-16 6'

Project: Cypress B

Collection Date: 6/21/2021 10:00:00 AM

Lab ID: 2106B83-007

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	170	60		mg/Kg	20	6/23/2021 11:54:38 AM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	12	8.7		mg/Kg	1	6/23/2021 10:39:27 AM	60844
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	6/23/2021 10:39:27 AM	60844
Surr: DNOP	89.2	70-130		%Rec	1	6/23/2021 10:39:27 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.9		mg/Kg	1	6/23/2021 11:36:18 AM	G79302
Surr: BFB	102	70-130		%Rec	1	6/23/2021 11:36:18 AM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.019		mg/Kg	1	6/23/2021 11:36:18 AM	B79302
Toluene	ND	0.039		mg/Kg	1	6/23/2021 11:36:18 AM	B79302
Ethylbenzene	ND	0.039		mg/Kg	1	6/23/2021 11:36:18 AM	B79302
Xylenes, Total	ND	0.078		mg/Kg	1	6/23/2021 11:36:18 AM	B79302
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/23/2021 11:36:18 AM	B79302

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

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

Page 7 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-17 6'

Project: Cypress B

Collection Date: 6/21/2021 10:10:00 AM

Lab ID: 2106B83-008

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	200	60		mg/Kg	20	6/23/2021 12:07:03 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	25	9.1		mg/Kg	1	6/23/2021 11:03:30 AM	60844
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/23/2021 11:03:30 AM	60844
Surr: DNOP	84.3	70-130		%Rec	1	6/23/2021 11:03:30 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	6/23/2021 11:59:52 AM	G79302
Surr: BFB	103	70-130		%Rec	1	6/23/2021 11:59:52 AM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	6/23/2021 11:59:52 AM	B79302
Toluene	ND	0.032		mg/Kg	1	6/23/2021 11:59:52 AM	B79302
Ethylbenzene	ND	0.032		mg/Kg	1	6/23/2021 11:59:52 AM	B79302
Xylenes, Total	ND	0.065		mg/Kg	1	6/23/2021 11:59:52 AM	B79302
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	6/23/2021 11:59:52 AM	B79302

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

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

Page 8 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-18 6'

Project: Cypress B

Collection Date: 6/21/2021 10:20:00 AM

Lab ID: 2106B83-009

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	160	60		mg/Kg	20	6/23/2021 12:44:17 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	15	9.4		mg/Kg	1	6/23/2021 11:27:22 AM	60844
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/23/2021 11:27:22 AM	60844
Surr: DNOP	89.8	70-130		%Rec	1	6/23/2021 11:27:22 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	6/23/2021 12:23:23 PM	G79302
Surr: BFB	101	70-130		%Rec	1	6/23/2021 12:23:23 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.015		mg/Kg	1	6/23/2021 12:23:23 PM	B79302
Toluene	ND	0.031		mg/Kg	1	6/23/2021 12:23:23 PM	B79302
Ethylbenzene	ND	0.031		mg/Kg	1	6/23/2021 12:23:23 PM	B79302
Xylenes, Total	ND	0.062		mg/Kg	1	6/23/2021 12:23:23 PM	B79302
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	6/23/2021 12:23:23 PM	B79302

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

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

Page 9 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-19 6'

Project: Cypress B

Collection Date: 6/21/2021 10:30:00 AM

Lab ID: 2106B83-010

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	270	60		mg/Kg	20	6/23/2021 12:56:42 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/23/2021 11:51:11 AM	60844
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/23/2021 11:51:11 AM	60844
Surr: DNOP	81.2	70-130		%Rec	1	6/23/2021 11:51:11 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/23/2021 12:46:51 PM	G79302
Surr: BFB	101	70-130		%Rec	1	6/23/2021 12:46:51 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	6/23/2021 12:46:51 PM	B79302
Toluene	ND	0.035		mg/Kg	1	6/23/2021 12:46:51 PM	B79302
Ethylbenzene	ND	0.035		mg/Kg	1	6/23/2021 12:46:51 PM	B79302
Xylenes, Total	ND	0.070		mg/Kg	1	6/23/2021 12:46:51 PM	B79302
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	6/23/2021 12:46:51 PM	B79302

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

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

Page 10 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-20 6'

Project: Cypress B

Collection Date: 6/21/2021 10:40:00 AM

Lab ID: 2106B83-011

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	180	60		mg/Kg	20	6/23/2021 1:09:07 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/23/2021 12:15:04 PM	60844
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/23/2021 12:15:04 PM	60844
Surr: DNOP	86.0	70-130		%Rec	1	6/23/2021 12:15:04 PM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	6/23/2021 1:34:00 PM	G79302
Surr: BFB	101	70-130		%Rec	1	6/23/2021 1:34:00 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	6/23/2021 1:34:00 PM	B79302
Toluene	ND	0.037		mg/Kg	1	6/23/2021 1:34:00 PM	B79302
Ethylbenzene	ND	0.037		mg/Kg	1	6/23/2021 1:34:00 PM	B79302
Xylenes, Total	ND	0.074		mg/Kg	1	6/23/2021 1:34:00 PM	B79302
Surr: 4-Bromofluorobenzene	99.9	70-130		%Rec	1	6/23/2021 1:34:00 PM	B79302

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

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

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-21 6'

Project: Cypress B

Collection Date: 6/21/2021 10:50:00 AM

Lab ID: 2106B83-012

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	160	60		mg/Kg	20	6/23/2021 1:21:32 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/23/2021 12:38:58 PM	60844
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/23/2021 12:38:58 PM	60844
Surr: DNOP	83.6	70-130		%Rec	1	6/23/2021 12:38:58 PM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	6/23/2021 1:57:46 PM	G79302
Surr: BFB	100	70-130		%Rec	1	6/23/2021 1:57:46 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.016		mg/Kg	1	6/23/2021 1:57:46 PM	B79302
Toluene	ND	0.031		mg/Kg	1	6/23/2021 1:57:46 PM	B79302
Ethylbenzene	ND	0.031		mg/Kg	1	6/23/2021 1:57:46 PM	B79302
Xylenes, Total	ND	0.063		mg/Kg	1	6/23/2021 1:57:46 PM	B79302
Surr: 4-Bromofluorobenzene	98.8	70-130		%Rec	1	6/23/2021 1:57:46 PM	B79302

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

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

Page 12 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-22 6'

Project: Cypress B

Collection Date: 6/21/2021 11:00:00 AM

Lab ID: 2106B83-013

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	250	60		mg/Kg	20	6/23/2021 1:33:56 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/23/2021 1:02:56 PM	60844
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/23/2021 1:02:56 PM	60844
Surr: DNOP	87.8	70-130		%Rec	1	6/23/2021 1:02:56 PM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.5		mg/Kg	1	6/23/2021 2:21:28 PM	G79302
Surr: BFB	100	70-130		%Rec	1	6/23/2021 2:21:28 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	6/23/2021 2:21:28 PM	B79302
Toluene	ND	0.035		mg/Kg	1	6/23/2021 2:21:28 PM	B79302
Ethylbenzene	ND	0.035		mg/Kg	1	6/23/2021 2:21:28 PM	B79302
Xylenes, Total	ND	0.069		mg/Kg	1	6/23/2021 2:21:28 PM	B79302
Surr: 4-Bromofluorobenzene	97.9	70-130		%Rec	1	6/23/2021 2:21:28 PM	B79302

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

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

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-23 6'

Project: Cypress B

Collection Date: 6/21/2021 11:10:00 AM

Lab ID: 2106B83-014

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	150	60		mg/Kg	20	6/23/2021 1:46:21 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/25/2021 10:05:52 AM	60844
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/25/2021 10:05:52 AM	60844
Surr: DNOP	74.0	70-130		%Rec	1	6/25/2021 10:05:52 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/23/2021 2:45:13 PM	G79302
Surr: BFB	103	70-130		%Rec	1	6/23/2021 2:45:13 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	6/23/2021 2:45:13 PM	B79302
Toluene	ND	0.036		mg/Kg	1	6/23/2021 2:45:13 PM	B79302
Ethylbenzene	ND	0.036		mg/Kg	1	6/23/2021 2:45:13 PM	B79302
Xylenes, Total	ND	0.072		mg/Kg	1	6/23/2021 2:45:13 PM	B79302
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/23/2021 2:45:13 PM	B79302

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

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

Page 14 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-24 6'

Project: Cypress B

Collection Date: 6/21/2021 11:20:00 AM

Lab ID: 2106B83-015

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	400	60		mg/Kg	20	6/23/2021 1:58:45 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/25/2021 10:18:07 AM	60844
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/25/2021 10:18:07 AM	60844
Surr: DNOP	81.5	70-130		%Rec	1	6/25/2021 10:18:07 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	6/23/2021 3:08:58 PM	G79302
Surr: BFB	104	70-130		%Rec	1	6/23/2021 3:08:58 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.017		mg/Kg	1	6/23/2021 3:08:58 PM	B79302
Toluene	ND	0.034		mg/Kg	1	6/23/2021 3:08:58 PM	B79302
Ethylbenzene	ND	0.034		mg/Kg	1	6/23/2021 3:08:58 PM	B79302
Xylenes, Total	ND	0.068		mg/Kg	1	6/23/2021 3:08:58 PM	B79302
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/23/2021 3:08:58 PM	B79302

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

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

Page 15 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-25 6'

Project: Cypress B

Collection Date: 6/21/2021 11:30:00 AM

Lab ID: 2106B83-016

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	160	60		mg/Kg	20	6/23/2021 2:11:09 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/25/2021 9:48:30 AM	60844
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 9:48:30 AM	60844
Surr: DNOP	90.9	70-130		%Rec	1	6/25/2021 9:48:30 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	3.6		mg/Kg	1	6/23/2021 3:32:48 PM	G79302
Surr: BFB	105	70-130		%Rec	1	6/23/2021 3:32:48 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.018		mg/Kg	1	6/23/2021 3:32:48 PM	B79302
Toluene	ND	0.036		mg/Kg	1	6/23/2021 3:32:48 PM	B79302
Ethylbenzene	ND	0.036		mg/Kg	1	6/23/2021 3:32:48 PM	B79302
Xylenes, Total	ND	0.073		mg/Kg	1	6/23/2021 3:32:48 PM	B79302
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/23/2021 3:32:48 PM	B79302

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

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

Page 16 of 23

Analytical Report

Lab Order 2106B83

Date Reported: 6/28/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-26 6'

Project: Cypress B

Collection Date: 6/21/2021 11:40:00 AM

Lab ID: 2106B83-017

Matrix: MEOH (SOIL)

Received Date: 6/23/2021 7:30:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS							Analyst: MRA
Chloride	570	60		mg/Kg	20	6/23/2021 2:23:33 PM	60847
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: SB
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/25/2021 9:36:13 AM	60844
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/25/2021 9:36:13 AM	60844
Surr: DNOP	95.2	70-130		%Rec	1	6/25/2021 9:36:13 AM	60844
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.3		mg/Kg	1	6/23/2021 3:56:40 PM	G79302
Surr: BFB	106	70-130		%Rec	1	6/23/2021 3:56:40 PM	G79302
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.021		mg/Kg	1	6/23/2021 3:56:40 PM	B79302
Toluene	ND	0.043		mg/Kg	1	6/23/2021 3:56:40 PM	B79302
Ethylbenzene	ND	0.043		mg/Kg	1	6/23/2021 3:56:40 PM	B79302
Xylenes, Total	ND	0.086		mg/Kg	1	6/23/2021 3:56:40 PM	B79302
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/23/2021 3:56:40 PM	B79302

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

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

Page 17 of 23

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

WO#: 2106B83

28-Jun-21

Client: Vertex Resources Services, Inc.**Project:** Cypress B

Sample ID: mb-60847	SampType: MBLK	TestCode: EPA Method 300.0: Anions								
Client ID: PBS	Batch ID: 60847	RunNo: 79293								
Prep Date: 6/23/2021	Analysis Date: 6/23/2021	SeqNo: 2785506	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: lcs-60847	SampType: LCS	TestCode: EPA Method 300.0: Anions								
Client ID: LCSS	Batch ID: 60847	RunNo: 79293								
Prep Date: 6/23/2021	Analysis Date: 6/23/2021	SeqNo: 2785507	Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.9	90	110			

Qualifiers:

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

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

Page 18 of 23

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

WO#: 2106B83

28-Jun-21

Client: Vertex Resources Services, Inc.**Project:** Cypress B

Sample ID: MB-60764	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60764			RunNo: 79239						
Prep Date: 6/21/2021	Analysis Date: 6/22/2021			SeqNo: 2783029			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	9.2		10.00		91.7	70	130			

Sample ID: LCS-60764	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60764			RunNo: 79239						
Prep Date: 6/21/2021	Analysis Date: 6/22/2021			SeqNo: 2783030			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	4.9		5.000		97.5	70	130			

Sample ID: MB-60789	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60789			RunNo: 79260						
Prep Date: 6/21/2021	Analysis Date: 6/22/2021			SeqNo: 2783603			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	12		10.00		116	70	130			

Sample ID: MB-60790	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60790			RunNo: 79260						
Prep Date: 6/21/2021	Analysis Date: 6/22/2021			SeqNo: 2783604			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		109	70	130			

Sample ID: LCS-60789	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60789			RunNo: 79260						
Prep Date: 6/21/2021	Analysis Date: 6/22/2021			SeqNo: 2783605			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		111	70	130			

Sample ID: LCS-60790	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60790			RunNo: 79260						
Prep Date: 6/21/2021	Analysis Date: 6/22/2021			SeqNo: 2783606			Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.3		5.000		105	70	130			

Qualifiers:

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

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

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

WO#: 2106B83

28-Jun-21

Client: Vertex Resources Services, Inc.**Project:** Cypress B

Sample ID: MB-60765	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60765			RunNo: 79239						
Prep Date: 6/21/2021	Analysis Date: 6/23/2021			SeqNo: 2784807		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3		10.00		73.0	70	130			

Sample ID: LCS-60765	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60765			RunNo: 79239						
Prep Date: 6/21/2021	Analysis Date: 6/23/2021			SeqNo: 2784808		Units: %Rec				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7		5.000		74.2	70	130			

Sample ID: MB-60844	SampType: MBLK			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: PBS	Batch ID: 60844			RunNo: 79260						
Prep Date: 6/23/2021	Analysis Date: 6/23/2021			SeqNo: 2784852		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	8.6		10.00		86.5	70	130			

Sample ID: LCS-60844	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: LCSS	Batch ID: 60844			RunNo: 79260						
Prep Date: 6/23/2021	Analysis Date: 6/23/2021			SeqNo: 2784854		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	91.2	68.9	141			
Surr: DNOP	3.9		5.000		77.8	70	130			

Sample ID: 2106B83-001AMS	SampType: MS			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BS21-02 8'	Batch ID: 60844			RunNo: 79260						
Prep Date: 6/23/2021	Analysis Date: 6/23/2021			SeqNo: 2785739		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	9.5	47.53	0	93.8	15	184			
Surr: DNOP	3.6		4.753		76.1	70	130			

Sample ID: 2106B83-001AMSD	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics						
Client ID: BS21-02 8'	Batch ID: 60844			RunNo: 79260						
Prep Date: 6/23/2021	Analysis Date: 6/23/2021			SeqNo: 2785741		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	44	9.5	47.57	0	91.5	15	184	2.44	23.9	

Qualifiers:

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

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

Page 20 of 23

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2106B83

28-Jun-21

Client: Vertex Resources Services, Inc.**Project:** Cypress B

Sample ID: 2106B83-001AMSD	SampType: MSD	TestCode: EPA Method 8015M/D: Diesel Range Organics								
Client ID: BS21-02 8'	Batch ID: 60844	RunNo: 79260								
Prep Date: 6/23/2021	Analysis Date: 6/23/2021	SeqNo: 2785741 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.5		4.757		73.5	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 range due to dilution or matrix

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

Page 21 of 23

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

WO#: 2106B83

28-Jun-21

Client: Vertex Resources Services, Inc.**Project:** Cypress B

Sample ID: mb	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: G79302				RunNo: 79302					
Prep Date:	Analysis Date: 6/23/2021				SeqNo: 2785365		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	70	130			

Sample ID: 2.5ug gro lcs	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: G79302				RunNo: 79302					
Prep Date:	Analysis Date: 6/23/2021				SeqNo: 2785366		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	5.0	25.00	0	110	78.6	131			
Surr: BFB	1100		1000		114	70	130			

Sample ID: 2106b83-001ams	SampType: MS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BS21-02 8'	Batch ID: G79302				RunNo: 79302					
Prep Date:	Analysis Date: 6/23/2021				SeqNo: 2785370		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.1	15.61	0	103	61.3	114			
Surr: BFB	760		624.2		121	70	130			

Sample ID: 2106b83-001amsd	SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BS21-02 8'	Batch ID: G79302				RunNo: 79302					
Prep Date:	Analysis Date: 6/23/2021				SeqNo: 2785371		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.1	15.61	0	102	61.3	114	1.02	20	
Surr: BFB	750		624.2		120	70	130	0	0	

Sample ID: mb-60748	SampType: MBLK				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: PBS	Batch ID: 60748				RunNo: 79302					
Prep Date: 6/19/2021	Analysis Date: 6/24/2021				SeqNo: 2785382		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		99.5	70	130			

Sample ID: lcs-60748	SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range					
Client ID: LCSS	Batch ID: 60748				RunNo: 79302					
Prep Date: 6/19/2021	Analysis Date: 6/24/2021				SeqNo: 2785383		Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1100		1000		110	70	130			

Qualifiers:

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

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

Page 22 of 23

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

WO#: 2106B83

28-Jun-21

Client: Vertex Resources Services, Inc.**Project:** Cypress B

Sample ID: mb	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch ID: B79302			RunNo: 79302						
Prep Date:	Analysis Date: 6/23/2021			SeqNo: 2785398		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		100	70	130			

Sample ID: 100ng btex lcs	SampType: LCS			TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batch ID: B79302			RunNo: 79302						
Prep Date:	Analysis Date: 6/23/2021			SeqNo: 2785399		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	1.000	0	100	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.0	0.10	3.000	0	101	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		100	70	130			

Sample ID: 2106b83-002ams	SampType: MS			TestCode: EPA Method 8021B: Volatiles						
Client ID: BS21-03 8'	Batch ID: B79302			RunNo: 79302						
Prep Date:	Analysis Date: 6/23/2021			SeqNo: 2785403		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.67	0.017	0.6748	0	99.8	80	120			
Toluene	0.68	0.034	0.6748	0	100	80	120			
Ethylbenzene	0.66	0.034	0.6748	0	98.5	80	120			
Xylenes, Total	2.0	0.067	2.024	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	0.70		0.6748		104	70	130			

Sample ID: 2106b83-002amsd	SampType: MSD			TestCode: EPA Method 8021B: Volatiles						
Client ID: BS21-03 8'	Batch ID: B79302			RunNo: 79302						
Prep Date:	Analysis Date: 6/23/2021			SeqNo: 2785404		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.65	0.017	0.6748	0	96.7	80	120	3.09	20	
Toluene	0.66	0.034	0.6748	0	98.2	80	120	2.18	20	
Ethylbenzene	0.66	0.034	0.6748	0	97.3	80	120	1.25	20	
Xylenes, Total	2.0	0.067	2.024	0	97.8	80	120	1.32	20	
Surr: 4-Bromofluorobenzene	0.72		0.6748		106	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 range due to dilution or matrix

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



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

Sample Log-In Check List

Client Name: **Vertex Resources
Services, Inc.**

Work Order Number: **2106B83**

RcptNo: 1

Received By: **Juan Rojas**

6/23/2021 7:30:00 AM

Juan Rojas

Completed By: **Cheyenne Cason**

6/23/2021 7:48:28 AM

Cheyenne Cason

Reviewed By:

JO

6-23-21

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: *JO/T.C.*

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	1.7	Good				
2	3.9	Good				

Chain-of-Custody Record

Client:

Vertex

Mailing Address:

On File

Phone #:

email or Fax#:

QA/QC Package:

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

Turn-Around Time:

Overnight

☐ Standard☒ Rush

Project Name:

Cypress B

Project #:

21E-02401

Project Manager:

John Hunt

Sampler: CD

On Ice: ☒ Yes ☐ No

of Coolers: 2

Cooler Temp (including CF): 1.8 = 0.1 = 1.7 (°C)

Container Type and #

Preservative Type

HEAL No.

21061385

4.0-0.1 = 3.9

001

002

003

004

005

006

007

008

009

010

011

012

013

014

015

016

017

018

019

020

021

022

023

024

025

026

027

028

029

030

031

032

033

034

035

036

037

038

039

040

041

042

043

044

045

046

047

048

049

050

051

052

053

054

055

056

057

058

059

060

061

062

063

064

065

066

067

068

069

070

071

072

073

074

075

076

077

078

079

080

081

082

083

084

085

086

087

088

089

090

091

092

093

094

095

096

097

098

099

100

101

102

103

104

105

106

107

108

109

110

111

112

113

114

115

116

117

118

119

120

121

122

123

124

125

126

127

128

129

130

131

132

133

134

135

136

137

138

139

140

141

142

143

144

145

146

147

148

149

150

151

152

153

154

155

156

157

158

159

160

161

162

163

164

165

166

167

168

169

170

171

172

173

174

175

176

177

178

179

180

181

182

183

184

185

186

187

188

189

190

191

192

193

194

195

196

197

198

199

200

201

202

203

204

205

206

207

208

209

210

211

212

213

214

215

216

217

218

219

220

221

222

223

224

225

226

227

228

229

230

231

232

233

234

235

236

237

238

239

240

241

242

243

244

245

246

247

248

249

250

251

252

253

254

255

256

257

258

259

260

261

262

263

264

265

266

267

268

269

270

271

272

273

274

275

276

277

278

279

280

281

282

283

284

285

286

287

288

289

290

291

292

293

294

295

296

297

298

299

300

301

302

303

304

305

306

307

308

309

310

311

312

313

314

315

316

317

318

319

320

321

322

323

Client:

Mailing Address:

Project #:

21E-02401

email or Fax#:

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other

□ EDD (Type)

- Standard

Project Name:

Rush Smedley

Project Manager:

John Hunt

Sampler: \mathcal{CD}

On Ice: ☒ Yes

No

Cooler Temp (including CF): 1.8-0.1 = 1.7 (°C)

Container Type and #	Preservative Type	HEAL No.
		21061383

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, NO ₃ , NO ₂ , PO ₄ , SO ₄
8260 (VOA)
8270 (Semi-VOA)
Total Coliform (Present/Absent)

Analysis Request

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenviromental.com

4901 Hawkins NE - Albuquerque, NM 87109

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

Date:	Time:	Relinquished by:
-------	-------	------------------

Received by:	Via:
--------------	------

Date _____

Remarks:

CC: Chance Dixon, John Hunt

Date:	Time:	Belinaarischad by:
-------	-------	--------------------

Described by: _____
Yr: _____

11/11/11

10

CDH Consulting

22	1900
----	------

William J.



10.

6/23/21 7:30

If necessary, samples submitted to Hair 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.

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-13 0-4'

Project: Cypress B

Collection Date: 6/23/2021 8:00:00 AM

Lab ID: 2106D54-001

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/25/2021 10:55:10 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 10:55:10 AM
Surr: DNOP	86.3	70-130		%Rec	1	6/25/2021 10:55:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 10:54:36 AM
Surr: BFB	101	70-130		%Rec	1	6/25/2021 10:54:36 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 10:54:36 AM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 10:54:36 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 10:54:36 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 10:54:36 AM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/25/2021 10:54:36 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	61		mg/Kg	20	6/25/2021 11:43:02 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-47 8'

Project: Cypress B

Collection Date: 6/23/2021 8:10:00 AM

Lab ID: 2106D54-002

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/25/2021 11:07:39 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 11:07:39 AM
Surr: DNOP	85.3	70-130		%Rec	1	6/25/2021 11:07:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 11:18:04 AM
Surr: BFB	102	70-130		%Rec	1	6/25/2021 11:18:04 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 11:18:04 AM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 11:18:04 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 11:18:04 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 11:18:04 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/25/2021 11:18:04 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	62	60		mg/Kg	20	6/25/2021 11:58:14 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-48 8'

Project: Cypress B

Collection Date: 6/23/2021 8:20:00 AM

Lab ID: 2106D54-003

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	6/25/2021 11:20:17 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/25/2021 11:20:17 AM
Surr: DNOP	87.1	70-130		%Rec	1	6/25/2021 11:20:17 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 11:41:42 AM
Surr: BFB	101	70-130		%Rec	1	6/25/2021 11:41:42 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 11:41:42 AM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 11:41:42 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 11:41:42 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 11:41:42 AM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/25/2021 11:41:42 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	64	60		mg/Kg	20	6/25/2021 12:10:39 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 3 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-49 8'

Project: Cypress B

Collection Date: 6/23/2021 8:30:00 AM

Lab ID: 2106D54-004

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/25/2021 11:32:49 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/25/2021 11:32:49 AM
Surr: DNOP	86.4	70-130		%Rec	1	6/25/2021 11:32:49 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 12:05:15 PM
Surr: BFB	99.5	70-130		%Rec	1	6/25/2021 12:05:15 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 12:05:15 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 12:05:15 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 12:05:15 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 12:05:15 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/25/2021 12:05:15 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 12:23:03 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS21-50 8'

Project: Cypress B

Collection Date: 6/23/2021 8:40:00 AM

Lab ID: 2106D54-005

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/25/2021 11:45:24 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/25/2021 11:45:24 AM
Surr: DNOP	90.0	70-130		%Rec	1	6/25/2021 11:45:24 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 12:28:48 PM
Surr: BFB	98.4	70-130		%Rec	1	6/25/2021 12:28:48 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 12:28:48 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 12:28:48 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 12:28:48 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 12:28:48 PM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	6/25/2021 12:28:48 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	180	60		mg/Kg	20	6/25/2021 12:35:27 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 5 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-19 0-4'

Project: Cypress B

Collection Date: 6/23/2021 8:50:00 AM

Lab ID: 2106D54-006

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	6/25/2021 11:57:53 AM
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	6/25/2021 11:57:53 AM
Surr: DNOP	84.4	70-130		%Rec	1	6/25/2021 11:57:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 12:52:26 PM
Surr: BFB	101	70-130		%Rec	1	6/25/2021 12:52:26 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 12:52:26 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 12:52:26 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 12:52:26 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 12:52:26 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/25/2021 12:52:26 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	130	60		mg/Kg	20	6/25/2021 12:47:51 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 6 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-20 0-4'

Project: Cypress B

Collection Date: 6/23/2021 9:00:00 AM

Lab ID: 2106D54-007

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	6/25/2021 12:10:28 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/25/2021 12:10:28 PM
Surr: DNOP	89.5	70-130		%Rec	1	6/25/2021 12:10:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 1:15:59 PM
Surr: BFB	102	70-130		%Rec	1	6/25/2021 1:15:59 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 1:15:59 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 1:15:59 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 1:15:59 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 1:15:59 PM
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	6/25/2021 1:15:59 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	100	60		mg/Kg	20	6/25/2021 1:00:16 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-21 0-4'

Project: Cypress B

Collection Date: 6/23/2021 9:10:00 AM

Lab ID: 2106D54-008

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/25/2021 12:22:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/25/2021 12:22:54 PM
Surr: DNOP	90.8	70-130		%Rec	1	6/25/2021 12:22:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 1:39:38 PM
Surr: BFB	103	70-130		%Rec	1	6/25/2021 1:39:38 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 1:39:38 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 1:39:38 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 1:39:38 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 1:39:38 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/25/2021 1:39:38 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 1:12:40 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-22 0-4'

Project: Cypress B

Collection Date: 6/23/2021 9:20:00 AM

Lab ID: 2106D54-009

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/25/2021 12:35:28 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/25/2021 12:35:28 PM
Surr: DNOP	89.4	70-130		%Rec	1	6/25/2021 12:35:28 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 2:03:13 PM
Surr: BFB	102	70-130		%Rec	1	6/25/2021 2:03:13 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 2:03:13 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 2:03:13 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 2:03:13 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 2:03:13 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/25/2021 2:03:13 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 1:49:53 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 9 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-23 0-4'

Project: Cypress B

Collection Date: 6/23/2021 9:30:00 AM

Lab ID: 2106D54-010

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/25/2021 12:48:02 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/25/2021 12:48:02 PM
Surr: DNOP	91.9	70-130		%Rec	1	6/25/2021 12:48:02 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 2:26:49 PM
Surr: BFB	104	70-130		%Rec	1	6/25/2021 2:26:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 2:26:49 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 2:26:49 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 2:26:49 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 2:26:49 PM
Surr: 4-Bromofluorobenzene	103	70-130		%Rec	1	6/25/2021 2:26:49 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 2:02:18 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-24 0-6'

Project: Cypress B

Collection Date: 6/23/2021 9:40:00 AM

Lab ID: 2106D54-011

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/25/2021 1:00:32 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/25/2021 1:00:32 PM
Surr: DNOP	92.1	70-130		%Rec	1	6/25/2021 1:00:32 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 3:14:08 PM
Surr: BFB	100	70-130		%Rec	1	6/25/2021 3:14:08 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 3:14:08 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 3:14:08 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 3:14:08 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 3:14:08 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/25/2021 3:14:08 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	82	61		mg/Kg	20	6/25/2021 2:14:42 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 11 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-25 0-6'

Project: Cypress B

Collection Date: 6/23/2021 9:50:00 AM

Lab ID: 2106D54-012

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/25/2021 1:13:03 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/25/2021 1:13:03 PM
Surr: DNOP	86.9	70-130		%Rec	1	6/25/2021 1:13:03 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 3:37:49 PM
Surr: BFB	99.8	70-130		%Rec	1	6/25/2021 3:37:49 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 3:37:49 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 3:37:49 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 3:37:49 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 3:37:49 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/25/2021 3:37:49 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 2:27:06 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 12 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-26 0-6'

Project: Cypress B

Collection Date: 6/23/2021 10:00:00 AM

Lab ID: 2106D54-013

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/25/2021 1:25:27 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/25/2021 1:25:27 PM
Surr: DNOP	89.4	70-130		%Rec	1	6/25/2021 1:25:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 4:01:31 PM
Surr: BFB	102	70-130		%Rec	1	6/25/2021 4:01:31 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 4:01:31 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 4:01:31 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 4:01:31 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 4:01:31 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/25/2021 4:01:31 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 2:39:31 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-27 0-6'

Project: Cypress B

Collection Date: 6/23/2021 10:10:00 AM

Lab ID: 2106D54-014

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/25/2021 1:37:00 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 1:37:00 PM
Surr: DNOP	86.8	70-130		%Rec	1	6/25/2021 1:37:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 4:07:00 PM
Surr: BFB	93.6	70-130		%Rec	1	6/25/2021 4:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 4:07:00 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 4:07:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 4:07:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 4:07:00 PM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	6/25/2021 4:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	59		mg/Kg	20	6/25/2021 2:51:55 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 14 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-28 0-6'

Project: Cypress B

Collection Date: 6/23/2021 10:20:00 AM

Lab ID: 2106D54-015

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/25/2021 11:00:55 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/25/2021 11:00:55 AM
Surr: DNOP	100	70-130		%Rec	1	6/25/2021 11:00:55 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 2:27:00 PM
Surr: BFB	100	70-130		%Rec	1	6/25/2021 2:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 2:27:00 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 2:27:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 2:27:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 2:27:00 PM
Surr: 4-Bromofluorobenzene	98.1	70-130		%Rec	1	6/25/2021 2:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 3:04:20 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-29 0-6

Project: Cypress B

Collection Date: 6/23/2021 10:30:00 AM

Lab ID: 2106D54-016

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	8.6		mg/Kg	1	6/25/2021 11:24:31 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/25/2021 11:24:31 AM
Surr: DNOP	89.9	70-130		%Rec	1	6/25/2021 11:24:31 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 2:47:00 PM
Surr: BFB	101	70-130		%Rec	1	6/25/2021 2:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 2:47:00 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 2:47:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 2:47:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 2:47:00 PM
Surr: 4-Bromofluorobenzene	97.2	70-130		%Rec	1	6/25/2021 2:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	250	60		mg/Kg	20	6/25/2021 3:16:44 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 16 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-30 0-6'

Project: Cypress B

Collection Date: 6/23/2021 10:40:00 AM

Lab ID: 2106D54-017

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	6/25/2021 11:48:00 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/25/2021 11:48:00 AM
Surr: DNOP	94.3	70-130		%Rec	1	6/25/2021 11:48:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 3:07:00 PM
Surr: BFB	101	70-130		%Rec	1	6/25/2021 3:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 3:07:00 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 3:07:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 3:07:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 3:07:00 PM
Surr: 4-Bromofluorobenzene	96.6	70-130		%Rec	1	6/25/2021 3:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	270	60		mg/Kg	20	6/25/2021 3:29:08 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 17 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-31 0-6'

Project: Cypress B

Collection Date: 6/23/2021 10:50:00 AM

Lab ID: 2106D54-018

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/25/2021 12:12:00 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/25/2021 12:12:00 PM
Surr: DNOP	94.6	70-130		%Rec	1	6/25/2021 12:12:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 3:27:00 PM
Surr: BFB	93.1	70-130		%Rec	1	6/25/2021 3:27:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 3:27:00 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 3:27:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 3:27:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 3:27:00 PM
Surr: 4-Bromofluorobenzene	93.1	70-130		%Rec	1	6/25/2021 3:27:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 3:41:33 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 18 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-32 0-6'

Project: Cypress B

Collection Date: 6/23/2021 11:00:00 AM

Lab ID: 2106D54-019

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/25/2021 12:36:08 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/25/2021 12:36:08 PM
Surr: DNOP	94.5	70-130		%Rec	1	6/25/2021 12:36:08 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 3:47:00 PM
Surr: BFB	87.1	70-130		%Rec	1	6/25/2021 3:47:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	6/25/2021 3:47:00 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 3:47:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 3:47:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 3:47:00 PM
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	6/25/2021 3:47:00 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	230	60		mg/Kg	20	6/25/2021 4:00:00 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-33 0-6'

Project: Cypress B

Collection Date: 6/23/2021 11:10:00 AM

Lab ID: 2106D54-020

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	6/25/2021 1:00:54 PM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	6/25/2021 1:00:54 PM
Surr: DNOP	97.5	70-130		%Rec	1	6/25/2021 1:00:54 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 4:00:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/25/2021 3:44:05 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 3:44:05 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 3:44:05 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 3:44:05 PM
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	6/25/2021 3:44:05 PM
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	6/25/2021 3:44:05 PM
Surr: Dibromofluoromethane	84.7	70-130		%Rec	1	6/25/2021 3:44:05 PM
Surr: Toluene-d8	110	70-130		%Rec	1	6/25/2021 3:44:05 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 3:44:05 PM
Surr: BFB	94.9	70-130		%Rec	1	6/25/2021 3:44:05 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-34 0-6

Project: Cypress B

Collection Date: 6/23/2021 11:20:00 AM

Lab ID: 2106D54-021

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/25/2021 11:09:10 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 11:09:10 AM
Surr: DNOP	83.7	70-130		%Rec	1	6/25/2021 11:09:10 AM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	ND	60		mg/Kg	20	6/25/2021 4:00:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/25/2021 3:15:25 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 3:15:25 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 3:15:25 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 3:15:25 PM
Surr: 1,2-Dichloroethane-d4	113	70-130		%Rec	1	6/25/2021 3:15:25 PM
Surr: 4-Bromofluorobenzene	99.7	70-130		%Rec	1	6/25/2021 3:15:25 PM
Surr: Dibromofluoromethane	86.0	70-130		%Rec	1	6/25/2021 3:15:25 PM
Surr: Toluene-d8	114	70-130		%Rec	1	6/25/2021 3:15:25 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 3:15:25 PM
Surr: BFB	98.5	70-130		%Rec	1	6/25/2021 3:15:25 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 21 of 0

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-35 0-6'

Project: Cypress B

Collection Date: 6/23/2021 11:30:00 AM

Lab ID: 2106D54-022

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/25/2021 12:03:10 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/25/2021 12:03:10 PM
Surr: DNOP	89.1	70-130		%Rec	1	6/25/2021 12:03:10 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	220	60		mg/Kg	20	6/25/2021 4:00:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/25/2021 2:46:42 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 2:46:42 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 2:46:42 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 2:46:42 PM
Surr: 1,2-Dichloroethane-d4	110	70-130		%Rec	1	6/25/2021 2:46:42 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/25/2021 2:46:42 PM
Surr: Dibromofluoromethane	86.7	70-130		%Rec	1	6/25/2021 2:46:42 PM
Surr: Toluene-d8	107	70-130		%Rec	1	6/25/2021 2:46:42 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 2:46:42 PM
Surr: BFB	92.4	70-130		%Rec	1	6/25/2021 2:46:42 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-36 0-6'

Project: Cypress B

Collection Date: 6/23/2021 11:40:00 AM

Lab ID: 2106D54-023

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/25/2021 12:27:27 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/25/2021 12:27:27 PM
Surr: DNOP	85.8	70-130		%Rec	1	6/25/2021 12:27:27 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	240	60		mg/Kg	20	6/25/2021 4:00:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/25/2021 2:18:01 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 2:18:01 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 2:18:01 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 2:18:01 PM
Surr: 1,2-Dichloroethane-d4	101	70-130		%Rec	1	6/25/2021 2:18:01 PM
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	6/25/2021 2:18:01 PM
Surr: Dibromofluoromethane	88.8	70-130		%Rec	1	6/25/2021 2:18:01 PM
Surr: Toluene-d8	109	70-130		%Rec	1	6/25/2021 2:18:01 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 2:18:01 PM
Surr: BFB	97.5	70-130		%Rec	1	6/25/2021 2:18:01 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106D54

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-37 0-6'

Project: Cypress B

Collection Date: 6/23/2021 11:50:00 AM

Lab ID: 2106D54-024

Matrix: MEOH (SOIL)

Received Date: 6/25/2021 7:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: BRM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/25/2021 12:51:47 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/25/2021 12:51:47 PM
Surr: DNOP	90.3	70-130		%Rec	1	6/25/2021 12:51:47 PM
EPA METHOD 300.0: ANIONS						Analyst: MRA
Chloride	230	60		mg/Kg	20	6/25/2021 4:00:00 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JMR
Benzene	ND	0.025		mg/Kg	1	6/25/2021 1:49:18 PM
Toluene	ND	0.050		mg/Kg	1	6/25/2021 1:49:18 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/25/2021 1:49:18 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/25/2021 1:49:18 PM
Surr: 1,2-Dichloroethane-d4	105	70-130		%Rec	1	6/25/2021 1:49:18 PM
Surr: 4-Bromofluorobenzene	98.4	70-130		%Rec	1	6/25/2021 1:49:18 PM
Surr: Dibromofluoromethane	88.2	70-130		%Rec	1	6/25/2021 1:49:18 PM
Surr: Toluene-d8	102	70-130		%Rec	1	6/25/2021 1:49:18 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JMR
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/25/2021 1:49:18 PM
Surr: BFB	87.7	70-130		%Rec	1	6/25/2021 1:49:18 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-38 0-4'

Project: Cypress B

Collection Date: 6/24/2021 8:00:00 AM

Lab ID: 2106E29-001

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	6/26/2021 6:00:26 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/26/2021 6:00:26 PM
Surr: DNOP	92.6	70-130		%Rec	1	6/26/2021 6:00:26 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 1:06:00 PM
Surr: BFB	94.5	70-130		%Rec	1	6/26/2021 1:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 1:06:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 1:06:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 1:06:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 1:06:00 PM
Surr: 4-Bromofluorobenzene	91.9	70-130		%Rec	1	6/26/2021 1:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	130	60		mg/Kg	20	6/27/2021 10:29:58 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-39 0-4'

Project: Cypress B

Collection Date: 6/24/2021 8:10:00 AM

Lab ID: 2106E29-002

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/26/2021 6:24:11 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/26/2021 6:24:11 PM
Surr: DNOP	95.4	70-130		%Rec	1	6/26/2021 6:24:11 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 2:06:00 PM
Surr: BFB	96.3	70-130		%Rec	1	6/26/2021 2:06:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 2:06:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 2:06:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 2:06:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 2:06:00 PM
Surr: 4-Bromofluorobenzene	93.5	70-130		%Rec	1	6/26/2021 2:06:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2021 11:07:12 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-40 0-4'

Project: Cypress B

Collection Date: 6/24/2021 8:20:00 AM

Lab ID: 2106E29-003

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/26/2021 6:47:54 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 6:47:54 PM
Surr: DNOP	93.6	70-130		%Rec	1	6/26/2021 6:47:54 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 3:05:00 PM
Surr: BFB	89.7	70-130		%Rec	1	6/26/2021 3:05:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 3:05:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 3:05:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 3:05:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 3:05:00 PM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	6/26/2021 3:05:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2021 11:44:26 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-41 0-4'

Project: Cypress B

Collection Date: 6/24/2021 8:30:00 AM

Lab ID: 2106E29-004

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/26/2021 7:11:38 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/26/2021 7:11:38 PM
Surr: DNOP	93.8	70-130		%Rec	1	6/26/2021 7:11:38 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 3:25:00 PM
Surr: BFB	92.8	70-130		%Rec	1	6/26/2021 3:25:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 3:25:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 3:25:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 3:25:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 3:25:00 PM
Surr: 4-Bromofluorobenzene	90.1	70-130		%Rec	1	6/26/2021 3:25:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2021 11:56:50 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-42 0-4'

Project: Cypress B

Collection Date: 6/24/2021 8:40:00 AM

Lab ID: 2106E29-005

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 7:35:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 7:35:23 PM
Surr: DNOP	94.8	70-130		%Rec	1	6/26/2021 7:35:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 3:45:00 PM
Surr: BFB	91.6	70-130		%Rec	1	6/26/2021 3:45:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 3:45:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 3:45:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 3:45:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 3:45:00 PM
Surr: 4-Bromofluorobenzene	90.8	70-130		%Rec	1	6/26/2021 3:45:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	210	59		mg/Kg	20	6/27/2021 12:34:03 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-43 0-4'

Project: Cypress B

Collection Date: 6/24/2021 8:50:00 AM

Lab ID: 2106E29-006

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/26/2021 7:59:14 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 7:59:14 PM
Surr: DNOP	95.7	70-130		%Rec	1	6/26/2021 7:59:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 4:04:00 PM
Surr: BFB	92.7	70-130		%Rec	1	6/26/2021 4:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 4:04:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 4:04:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 4:04:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 4:04:00 PM
Surr: 4-Bromofluorobenzene	90.5	70-130		%Rec	1	6/26/2021 4:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	190	60		mg/Kg	20	6/27/2021 12:46:28 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-44 0-4'

Project: Cypress B

Collection Date: 6/24/2021 9:00:00 AM

Lab ID: 2106E29-007

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	6/26/2021 8:22:57 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/26/2021 8:22:57 PM
Surr: DNOP	94.5	70-130		%Rec	1	6/26/2021 8:22:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 4:24:00 PM
Surr: BFB	89.7	70-130		%Rec	1	6/26/2021 4:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 4:24:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 4:24:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 4:24:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 4:24:00 PM
Surr: 4-Bromofluorobenzene	89.3	70-130		%Rec	1	6/26/2021 4:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	69	60		mg/Kg	20	6/27/2021 12:58:52 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 7 of 0

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-45 0-4'

Project: Cypress B

Collection Date: 6/24/2021 9:10:00 AM

Lab ID: 2106E29-008

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	6/26/2021 8:46:41 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/26/2021 8:46:41 PM
Surr: DNOP	94.3	70-130		%Rec	1	6/26/2021 8:46:41 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 4:44:00 PM
Surr: BFB	89.7	70-130		%Rec	1	6/26/2021 4:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 4:44:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 4:44:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 4:44:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 4:44:00 PM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	6/26/2021 4:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	270	60		mg/Kg	20	6/27/2021 1:11:17 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 8 of 0

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-46 0-5'

Project: Cypress B

Collection Date: 6/24/2021 9:20:00 AM

Lab ID: 2106E29-009

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.2		mg/Kg	1	6/26/2021 9:10:27 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	6/26/2021 9:10:27 PM
Surr: DNOP	94.6	70-130		%Rec	1	6/26/2021 9:10:27 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 5:04:00 PM
Surr: BFB	90.5	70-130		%Rec	1	6/26/2021 5:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 5:04:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 5:04:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 5:04:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 5:04:00 PM
Surr: 4-Bromofluorobenzene	90.2	70-130		%Rec	1	6/26/2021 5:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	400	59		mg/Kg	20	6/27/2021 1:23:41 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-47 0-5'

Project: Cypress B

Collection Date: 6/24/2021 9:30:00 AM

Lab ID: 2106E29-010

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	6/26/2021 9:34:09 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	6/26/2021 9:34:09 PM
Surr: DNOP	97.3	70-130		%Rec	1	6/26/2021 9:34:09 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 5:24:00 PM
Surr: BFB	90.4	70-130		%Rec	1	6/26/2021 5:24:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 5:24:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 5:24:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 5:24:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 5:24:00 PM
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	6/26/2021 5:24:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	110	60		mg/Kg	20	6/27/2021 1:36:06 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-48 0-5'

Project: Cypress B

Collection Date: 6/24/2021 9:40:00 AM

Lab ID: 2106E29-011

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/26/2021 9:57:59 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 9:57:59 PM
Surr: DNOP	96.4	70-130		%Rec	1	6/26/2021 9:57:59 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 6:44:00 PM
Surr: BFB	89.5	70-130		%Rec	1	6/26/2021 6:44:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 6:44:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 6:44:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 6:44:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 6:44:00 PM
Surr: 4-Bromofluorobenzene	89.4	70-130		%Rec	1	6/26/2021 6:44:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	260	60		mg/Kg	20	6/27/2021 1:48:30 PM

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

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

Analytical Report

Lab Order 2106E29

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-49 0-5'

Project: Cypress B

Collection Date: 6/24/2021 9:50:00 AM

Lab ID: 2106E29-012

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 10:21:51 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 10:21:51 PM
Surr: DNOP	97.7	70-130		%Rec	1	6/26/2021 10:21:51 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 7:03:00 PM
Surr: BFB	87.8	70-130		%Rec	1	6/26/2021 7:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 7:03:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 7:03:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 7:03:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 7:03:00 PM
Surr: 4-Bromofluorobenzene	87.8	70-130		%Rec	1	6/26/2021 7:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	68	60		mg/Kg	20	6/27/2021 2:00:55 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-50 0-5'

Project: Cypress B

Collection Date: 6/24/2021 10:00:00 AM

Lab ID: 2106E29-013

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 10:45:42 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 10:45:42 PM
Surr: DNOP	92.4	70-130		%Rec	1	6/26/2021 10:45:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 7:23:00 PM
Surr: BFB	90.3	70-130		%Rec	1	6/26/2021 7:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 7:23:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 7:23:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 7:23:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 7:23:00 PM
Surr: 4-Bromofluorobenzene	90.4	70-130		%Rec	1	6/26/2021 7:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	73	61		mg/Kg	20	6/27/2021 2:13:19 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 13 of 0

Analytical Report

Lab Order 2106E29

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-51 0-5'

Project: Cypress B

Collection Date: 6/24/2021 10:10:00 AM

Lab ID: 2106E29-014

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	6/26/2021 11:09:34 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/26/2021 11:09:34 PM
Surr: DNOP	98.0	70-130		%Rec	1	6/26/2021 11:09:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 7:43:00 PM
Surr: BFB	89.9	70-130		%Rec	1	6/26/2021 7:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 7:43:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 7:43:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 7:43:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 7:43:00 PM
Surr: 4-Bromofluorobenzene	88.6	70-130		%Rec	1	6/26/2021 7:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2021 2:25:44 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 14 of 0

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-52 0-5'

Project: Cypress B

Collection Date: 6/24/2021 10:20:00 AM

Lab ID: 2106E29-015

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/26/2021 11:33:23 PM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/26/2021 11:33:23 PM
Surr: DNOP	98.9	70-130		%Rec	1	6/26/2021 11:33:23 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 8:03:00 PM
Surr: BFB	93.0	70-130		%Rec	1	6/26/2021 8:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 8:03:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 8:03:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 8:03:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 8:03:00 PM
Surr: 4-Bromofluorobenzene	93.6	70-130		%Rec	1	6/26/2021 8:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2021 3:02:57 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-53 0-5'

Project: Cypress B

Collection Date: 6/24/2021 10:30:00 AM

Lab ID: 2106E29-016

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/26/2021 11:57:15 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	6/26/2021 11:57:15 PM
Surr: DNOP	98.2	70-130		%Rec	1	6/26/2021 11:57:15 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 8:23:00 PM
Surr: BFB	95.4	70-130		%Rec	1	6/26/2021 8:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 8:23:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 8:23:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 8:23:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 8:23:00 PM
Surr: 4-Bromofluorobenzene	94.5	70-130		%Rec	1	6/26/2021 8:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2021 3:15:21 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 16 of 0

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-54 0-6'

Project: Cypress B

Collection Date: 6/24/2021 10:40:00 AM

Lab ID: 2106E29-017

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/27/2021 1:32:22 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/27/2021 1:32:22 AM
Surr: DNOP	94.5	70-130		%Rec	1	6/27/2021 1:32:22 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 8:43:00 PM
Surr: BFB	92.4	70-130		%Rec	1	6/26/2021 8:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 8:43:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 8:43:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 8:43:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 8:43:00 PM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	6/26/2021 8:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	93	60		mg/Kg	20	6/27/2021 3:27:46 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 17 of 0

Analytical Report

Lab Order 2106E29

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-55 0-6'

Project: Cypress B

Collection Date: 6/24/2021 10:50:00 AM

Lab ID: 2106E29-018

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/27/2021 2:43:41 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/27/2021 2:43:41 AM
Surr: DNOP	93.1	70-130		%Rec	1	6/27/2021 2:43:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 9:03:00 PM
Surr: BFB	89.5	70-130		%Rec	1	6/26/2021 9:03:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 9:03:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 9:03:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 9:03:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 9:03:00 PM
Surr: 4-Bromofluorobenzene	89.7	70-130		%Rec	1	6/26/2021 9:03:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	59		mg/Kg	20	6/27/2021 3:40:11 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-56 0-6'

Project: Cypress B

Collection Date: 6/24/2021 11:00:00 AM

Lab ID: 2106E29-019

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/27/2021 3:07:26 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/27/2021 3:07:26 AM
Surr: DNOP	93.3	70-130		%Rec	1	6/27/2021 3:07:26 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 9:23:00 PM
Surr: BFB	94.5	70-130		%Rec	1	6/26/2021 9:23:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 9:23:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 9:23:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 9:23:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 9:23:00 PM
Surr: 4-Bromofluorobenzene	91.0	70-130		%Rec	1	6/26/2021 9:23:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	66	60		mg/Kg	20	6/27/2021 3:52:37 PM

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

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

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-57 0-6'

Project: Cypress B

Collection Date: 6/24/2021 11:10:00 AM

Lab ID: 2106E29-020

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/27/2021 3:31:10 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2021 3:31:10 AM
Surr: DNOP	93.1	70-130		%Rec	1	6/27/2021 3:31:10 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/26/2021 9:42:00 PM
Surr: BFB	91.0	70-130		%Rec	1	6/26/2021 9:42:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/26/2021 9:42:00 PM
Toluene	ND	0.050		mg/Kg	1	6/26/2021 9:42:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	6/26/2021 9:42:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	6/26/2021 9:42:00 PM
Surr: 4-Bromofluorobenzene	88.5	70-130		%Rec	1	6/26/2021 9:42:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	6/27/2021 4:05:01 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-58 0-6'

Project: Cypress B

Collection Date: 6/24/2021 11:20:00 AM

Lab ID: 2106E29-021

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.4		mg/Kg	1	6/27/2021 3:54:53 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	6/27/2021 3:54:53 AM
Surr: DNOP	93.4	70-130		%Rec	1	6/27/2021 3:54:53 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 12:01:00 AM
Surr: BFB	92.8	70-130		%Rec	1	6/27/2021 12:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/27/2021 12:01:00 AM
Toluene	ND	0.050		mg/Kg	1	6/27/2021 12:01:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 12:01:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/27/2021 12:01:00 AM
Surr: 4-Bromofluorobenzene	91.8	70-130		%Rec	1	6/27/2021 12:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	6/27/2021 10:58:42 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 21 of 0

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-59 0-6'

Project: Cypress B

Collection Date: 6/24/2021 11:30:00 AM

Lab ID: 2106E29-022

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	6/27/2021 4:18:36 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/27/2021 4:18:36 AM
Surr: DNOP	94.7	70-130		%Rec	1	6/27/2021 4:18:36 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 1:01:00 AM
Surr: BFB	91.4	70-130		%Rec	1	6/27/2021 1:01:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/27/2021 1:01:00 AM
Toluene	ND	0.050		mg/Kg	1	6/27/2021 1:01:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 1:01:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/27/2021 1:01:00 AM
Surr: 4-Bromofluorobenzene	92.8	70-130		%Rec	1	6/27/2021 1:01:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	220	60		mg/Kg	20	6/27/2021 11:35:56 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 22 of 0

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-60 0-6'

Project: Cypress B

Collection Date: 6/24/2021 11:40:00 AM

Lab ID: 2106E29-023

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/27/2021 4:42:18 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2021 4:42:18 AM
Surr: DNOP	94.8	70-130		%Rec	1	6/27/2021 4:42:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 2:00:00 AM
Surr: BFB	91.1	70-130		%Rec	1	6/27/2021 2:00:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/27/2021 2:00:00 AM
Toluene	ND	0.050		mg/Kg	1	6/27/2021 2:00:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 2:00:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/27/2021 2:00:00 AM
Surr: 4-Bromofluorobenzene	90.9	70-130		%Rec	1	6/27/2021 2:00:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	66	60		mg/Kg	20	6/27/2021 11:48:20 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-61 0-6'

Project: Cypress B

Collection Date: 6/24/2021 11:50:00 AM

Lab ID: 2106E29-024

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	6/27/2021 5:06:00 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	6/27/2021 5:06:00 AM
Surr: DNOP	95.5	70-130		%Rec	1	6/27/2021 5:06:00 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 2:20:00 AM
Surr: BFB	93.0	70-130		%Rec	1	6/27/2021 2:20:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/27/2021 2:20:00 AM
Toluene	ND	0.050		mg/Kg	1	6/27/2021 2:20:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 2:20:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/27/2021 2:20:00 AM
Surr: 4-Bromofluorobenzene	92.2	70-130		%Rec	1	6/27/2021 2:20:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	190	60		mg/Kg	20	6/27/2021 12:00:44 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	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	L	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 24 of 0

Analytical Report

Lab Order 2106E29

Date Reported:

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS21-62 0-6'

Project: Cypress B

Collection Date: 6/24/2021 12:00:00 PM

Lab ID: 2106E29-025

Matrix: SOIL

Received Date: 6/26/2021 8:30:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: TOM
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	6/27/2021 5:29:41 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	6/27/2021 5:29:41 AM
Surr: DNOP	94.3	70-130		%Rec	1	6/27/2021 5:29:41 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/27/2021 2:40:00 AM
Surr: BFB	93.5	70-130		%Rec	1	6/27/2021 2:40:00 AM
EPA METHOD 8021B: VOLATILES						Analyst: mb
Benzene	ND	0.025		mg/Kg	1	6/27/2021 2:40:00 AM
Toluene	ND	0.050		mg/Kg	1	6/27/2021 2:40:00 AM
Ethylbenzene	ND	0.050		mg/Kg	1	6/27/2021 2:40:00 AM
Xylenes, Total	ND	0.10		mg/Kg	1	6/27/2021 2:40:00 AM
Surr: 4-Bromofluorobenzene	90.6	70-130		%Rec	1	6/27/2021 2:40:00 AM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	200	60		mg/Kg	20	6/27/2021 12:13:09 PM

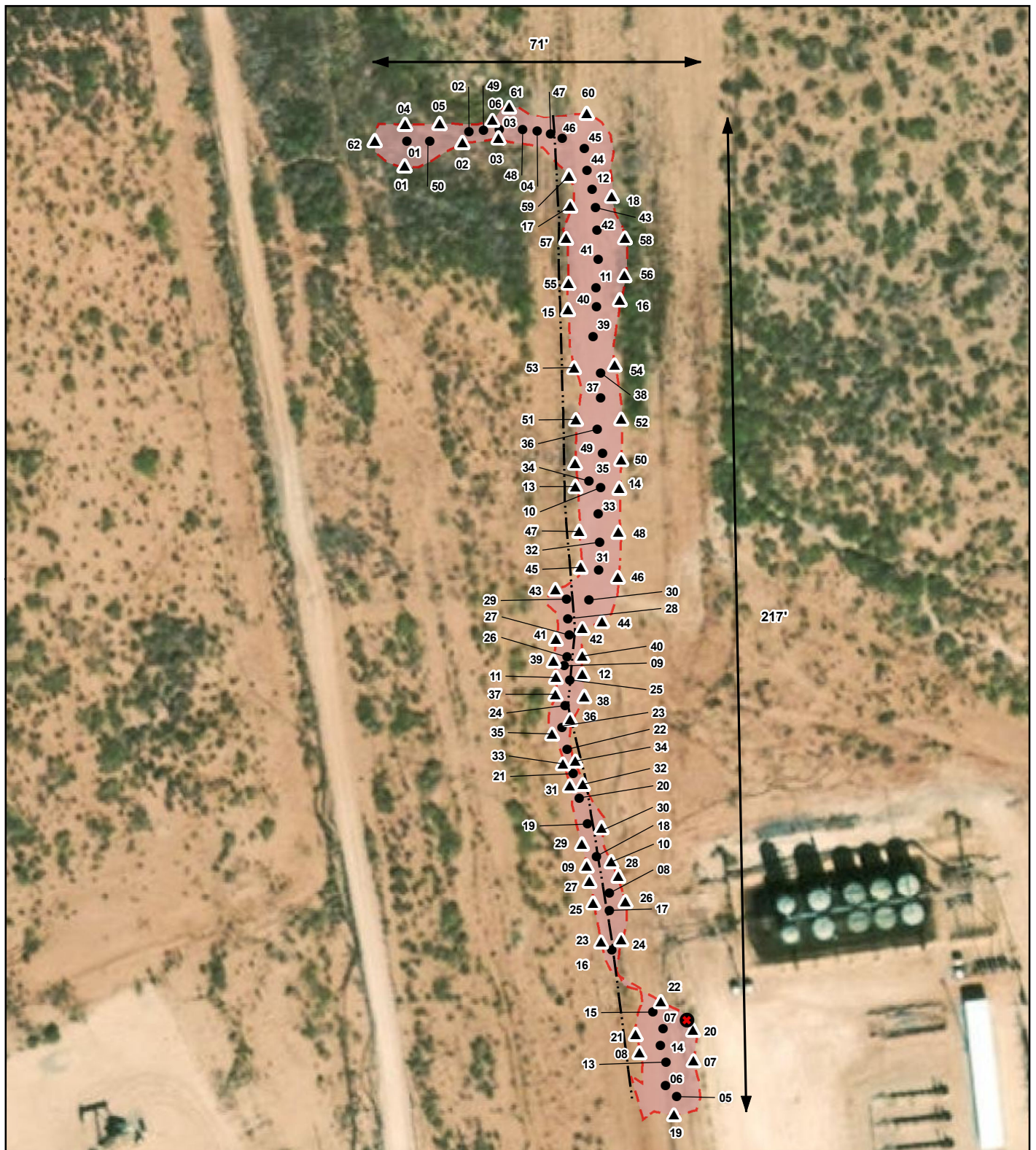
Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

FIGURE 1



- Base Sample (Prefixed by "BS21-")
- Point of Release
- ▲ Wall Sample (Prefixed by "WS21-")
- Underground Pipeline
- Approximate Release Area (~22,589 sq. ft.)



0 15 30 60 ft.

NAD 1983 UTM Zone 13N

Date: Jul 06/21

Map Center:
Lat: 32.259692,
Long: -103.981332



Confirmatory Schematic Cypress B

FIGURE:
2



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 imagery from ESRI, 2020. Feature locations from GPS, Vertex Professional Services Ltd., 2021.

VERSATILITY. EXPERTISE.



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

TABLE 1

ZEUS SWD LINE FIELD NOTES

Sample ID	Date Sampled	Depth (ft. bgs)	PID
S1	9/23/2020	24"	0.2
S2	9/23/2020	24"	0.2
S3	9/23/2020	30"	0.2
S4	9/23/2020	48"	0.2
S5	9/23/2020	56"	0.3
S6	9/23/2020	56"	0.3
S7	9/23/2020	56"	0.2
S8	9/23/2020	24"	0.3
S9	9/23/2020	24"	0.3
S10	9/23/2020	24"	0.4
S11	9/23/2020	24"	0.2
S12	9/23/2020	24"	0.5
S13	9/23/2020	24"	0.2
S14	9/23/2020	24"	0.3
S15	9/23/2020	24"	0.2
S16	9/23/2020	24"	0.2
S17	9/23/2020	24"	0.2
S18	9/23/2020	Side wall 24"	0.5
S19	9/23/2020	Side wall 24"	0.4
S20	9/23/2020	Side wall 24"	0.4
S21	9/23/2020	Side wall 24"	0.5
S22	9/23/2020	Side wall 24"	0.5
S23	9/23/2020	BG 1	0.3
S24	9/23/2020	BG 2	0.3



CDH Consulting, LLC
Thornton, Colorado
720.431.7468
www.CDHConsult.com

TABLE 2

CYPRESS 34B CTB ANALYTICAL TABLE

Sample ID	Date Sampled	Depth (ft. bgs)	Chlorides (mg/kg)	TPH ⁽²⁾	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table I Soil Standard (mg/kg) ⁽¹⁾			600 mg/kg	100 mg/kg	50 mg/kg	10 mg/kg			
Base Samples									
BS21-01 7'	6/16/2021	7	ND	ND	ND	ND	ND	ND	ND
BS21-02 7'	6/16/2021	7	770	ND	ND	ND	ND	ND	ND
BS21-03 7'	6/16/2021	7	1900	ND	ND	ND	ND	ND	ND
BS21-04 7'	6/16/2021	7	ND	ND	ND	ND	ND	ND	ND
BS21-05 6'	6/16/2021	7	280	ND	ND	ND	ND	ND	ND
BS21-06 7'	6/16/2021	7	710	ND	ND	ND	ND	ND	ND
BS21-07 6'	6/16/2021	7	ND	ND	ND	ND	ND	ND	ND
BS21-08 7'	6/17/2021	7	150	ND	ND	ND	ND	ND	ND
BS21-09 4'	6/17/2021	4	61	ND	ND	ND	ND	ND	ND
BS21-10 4'	6/17/2021	4	110	ND	ND	ND	ND	ND	ND
BS21-11 4'	6/17/2021	4	ND	ND	ND	ND	ND	ND	ND
BS21-12 6'	6/17/2021	6	89	ND	ND	ND	ND	ND	ND
BS21-02 8'	6/21/2021	8	61	ND	ND	ND	ND	ND	ND
BS21-03 8'	6/21/2021	8	ND	ND	ND	ND	ND	ND	ND
BS21-06 8'	6/21/2021	8	240	ND	ND	ND	ND	ND	ND
BS21-13 7'	6/21/2021	7	280	ND	ND	ND	ND	ND	ND
BS21-14 8'	6/21/2021	8	160	ND	ND	ND	ND	ND	ND
BS21-15 7'	6/21/2021	7	220	ND	ND	ND	ND	ND	ND
BS21-16 6'	6/21/2021	6	170	12	ND	ND	ND	ND	ND
BS21-17 6'	6/21/2021	6	200	25	ND	ND	ND	ND	ND
BS21-18 6'	6/21/2021	6	160	15	ND	ND	ND	ND	ND
BS21-19 6'	6/21/2021	6	270	ND	ND	ND	ND	ND	ND
BS21-20 6'	6/21/2021	6	180	ND	ND	ND	ND	ND	ND
BS21-21 6'	6/21/2021	6	160	ND	ND	ND	ND	ND	ND
BS21-22 6'	6/21/2021	6	250	ND	ND	ND	ND	ND	ND
BS21-23 6'	6/21/2021	6	150	ND	ND	ND	ND	ND	ND
BS21-24 6'	6/21/2021	6	400	ND	ND	ND	ND	ND	ND
BS21-25 6'	6/21/2021	6	160	ND	ND	ND	ND	ND	ND
BS21-26 6'	6/21/2021	6	570	ND	ND	ND	ND	ND	ND
BS21-27 4'	6/22/2021	4	280	ND	ND	ND	ND	ND	ND
BS21-28 4'	6/22/2021	4	82	ND	ND	ND	ND	ND	ND
BS21-29 4'	6/22/2021	4	150	ND	ND	ND	ND	ND	ND
BS21-30 4'	6/22/2021	4	91	ND	ND	ND	ND	ND	ND
BS21-31 4'	6/22/2021	4	150	ND	ND	ND	ND	ND	ND
BS21-32 6'	6/22/2021	6	ND	ND	ND	ND	ND	ND	ND
BS21-33 6'	6/22/2021	6	ND	ND	ND	ND	ND	ND	ND
BS21-34 6'	6/22/2021	6	ND	ND	ND	ND	ND	ND	ND

CYPRESS 34B CTB ANALYTICAL TABLE

Sample ID	Date Sampled	Depth (ft. bgs)	Chlorides (mg/kg)	TPH ⁽²⁾	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table I Soil Standard (mg/kg) ⁽¹⁾			600 mg/kg	100 mg/kg	50 mg/kg	10 mg/kg			
BS21-35 6'	6/22/2021	6	ND	ND	ND	ND	ND	ND	ND
BS21-36 6'	6/22/2021	6	ND	ND	ND	ND	ND	ND	ND
BS21-37 4'	6/22/2021	4	210	ND	ND	ND	ND	ND	ND
BS21-38 4'	6/22/2021	4	220	ND	ND	ND	ND	ND	ND
BS21-39 5'	6/22/2021	5	ND	ND	ND	ND	ND	ND	ND
BS21-40 5'	6/22/2021	5	99	ND	ND	ND	ND	ND	ND
BS21-41 5'	6/22/2021	5	110	ND	ND	ND	ND	ND	ND
BS21-42 5'	6/22/2021	5	120	ND	ND	ND	ND	ND	ND
BS21-43 6'	6/22/2021	6	ND	ND	ND	ND	ND	ND	ND
BS21-44 6'	6/22/2021	6	260	ND	ND	ND	ND	ND	ND
BS21-45 6'	6/22/2021	6	320	ND	ND	ND	ND	ND	ND
BS21-46 7'	6/22/2021	7	290	ND	ND	ND	ND	ND	ND
BS21-47 8'	6/23/2021	8	62	ND	ND	ND	ND	ND	ND
BS21-48 8'	6/23/2021	8	64	ND	ND	ND	ND	ND	ND
BS21-49 8'	6/23/2021	8	ND	ND	ND	ND	ND	ND	ND
BS21-50 8'	6/23/2021	8	180	ND	ND	ND	ND	ND	ND
Wall Samples									
WS21-01 0-7'	6/16/2021	7	ND	ND	ND	ND	ND	ND	ND
WS21-02 0-7'	6/16/2021	7	ND	ND	ND	ND	ND	ND	ND
WS21-03 0-7'	6/16/2021	7	ND	ND	ND	ND	ND	ND	ND
WS21-04 0-7'	6/16/2021	7	230	ND	ND	ND	ND	ND	ND
WS21-05 0-7'	6/16/2021	7	ND	ND	ND	ND	ND	ND	ND
WS21-06 0-7'	6/16/2021	7	ND	ND	ND	ND	ND	ND	ND
WS21-07 0-6'	6/18/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-08 0-6'	6/17/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-09 0-6'	6/17/2021	6	240	ND	ND	ND	ND	ND	ND
WS21-10 0-6'	6/17/2021	6	190	ND	ND	ND	ND	ND	ND
WS21-11 0-4'	6/17/2021	4	74	ND	ND	ND	ND	ND	ND
WS21-12 0-4'	6/17/2021	4	92	ND	ND	ND	ND	ND	ND
WS21-13 0-4'	6/17/2021	4	650	ND	ND	ND	ND	ND	ND
WS21-13 0-4'	6/23/2021	4	ND	ND	ND	ND	ND	ND	ND
WS21-14 0-4'	6/17/2021	4	190	ND	ND	ND	ND	ND	ND
WS21-15 0-4'	6/18/2021	4	ND	ND	ND	ND	ND	ND	ND
WS21-16 0-5'	6/17/2021	5	360	ND	ND	ND	ND	ND	ND
WS21-17 0-6'	6/18/2021	6	280	ND	ND	ND	ND	ND	ND
WS21-18 0-6'	6/18/2021	6	67	ND	ND	ND	ND	ND	ND
WS21-19 0-4'	6/23/2021	4	130	ND	ND	ND	ND	ND	ND

CYPRESS 34B CTB ANALYTICAL TABLE

Sample ID	Date Sampled	Depth (ft. bgs)	Chlorides (mg/kg)	TPH ⁽²⁾	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table I Soil Standard (mg/kg) ⁽¹⁾			600 mg/kg	100 mg/kg	50 mg/kg	10 mg/kg			
WS21-20 0-4'	6/23/2021	4	100	ND	ND	ND	ND	ND	ND
WS21-21 0-4'	6/23/2021	4	ND	ND	ND	ND	ND	ND	ND
WS21-22 0-4'	6/23/2021	4	ND	ND	ND	ND	ND	ND	ND
WS21-23 0-4'	6/23/2021	4	ND	ND	ND	ND	ND	ND	ND
WS21-24 0-4'	6/23/2021	4	82	ND	ND	ND	ND	ND	ND
WS21-25 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-26 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-27 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-28 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-29 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-30 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-31 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-32 0-6'	6/23/2021	6	230	ND	ND	ND	ND	ND	ND
WS21-33 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-34 0-6'	6/23/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-35 0-6'	6/23/2021	6	220	ND	ND	ND	ND	ND	ND
WS21-36 0-6'	6/23/2021	6	240	ND	ND	ND	ND	ND	ND
WS21-37 0-6'	6/23/2021	6	230	ND	ND	ND	ND	ND	ND
WS21-38 0-4'	6/24/2021	4	130	ND	ND	ND	ND	ND	ND
WS21-39 0-4'	6/24/2021	4	ND	ND	ND	ND	ND	ND	ND
WS21-40 0-4'	6/24/2021	4	ND	ND	ND	ND	ND	ND	ND
WS21-41 0-4'	6/24/2021	4	ND	ND	ND	ND	ND	ND	ND
WS21-42 0-4'	6/24/2021	4	210	ND	ND	ND	ND	ND	ND
WS21-43 0-4'	6/24/2021	4	190	ND	ND	ND	ND	ND	ND
WS21-44 0-4'	6/24/2021	4	69	ND	ND	ND	ND	ND	ND
WS21-45 0-4'	6/24/2021	4	270	ND	ND	ND	ND	ND	ND
WS21-46 0-5'	6/24/2021	5	400	ND	ND	ND	ND	ND	ND
WS21-47 0-5'	6/24/2021	5	110	ND	ND	ND	ND	ND	ND
WS21-48 0-5'	6/24/2021	5	260	ND	ND	ND	ND	ND	ND
WS21-49 0-5'	6/24/2021	5	68	ND	ND	ND	ND	ND	ND
WS21-50 0-5'	6/24/2021	5	73	ND	ND	ND	ND	ND	ND
WS21-51 0-5'	6/24/2021	5	ND	ND	ND	ND	ND	ND	ND
WS21-52 0-5'	6/24/2021	5	ND	ND	ND	ND	ND	ND	ND
WS21-53 0-5'	6/24/2021	5	ND	ND	ND	ND	ND	ND	ND
WS21-54 0-6'	6/24/2021	6	93	ND	ND	ND	ND	ND	ND
WS21-55 0-6'	6/24/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-56 0-6'	6/24/2021	6	66	ND	ND	ND	ND	ND	ND

Sample ID	Date Sampled	Depth (ft. bgs)	Chlorides (mg/kg)	TPH ⁽²⁾	BTEX (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)
NMOCD Table I Soil Standard (mg/kg) ⁽¹⁾			600 mg/kg	100 mg/kg	50 mg/kg	10 mg/kg			
WS21-57 0-6'	6/24/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-58 0-6'	6/24/2021	6	ND	ND	ND	ND	ND	ND	ND
WS21-59 0-6'	6/24/2021	6	220	ND	ND	ND	ND	ND	ND
WS21-60 0-6'	6/24/2021	6	66	ND	ND	ND	ND	ND	ND
WS21-61 0-6'	6/24/2021	6	190	ND	ND	ND	ND	ND	ND
WS21-62 0-6'	6/24/2021	6	200	ND	ND	ND	ND	ND	ND

Notes:

1. Standards for soil are taken from 19.15.29.12(C)(4) NMAC, Table I, Depth to ground water > 50ft

2. TPH - total volatile and extractable hydrocarbons. Value calculated by adding GRO, DRO and MRO concentrations

BOLD = Result above closure criteria

NMOCD = New Mexico Oil Conservation Divison

(<) = Analytical result is less than the indicated laboratory reporting limit

GRO = Total volatile petroleum hydrocarbons - gasoline range organics

DRO = Total volatile petroleum hydrocarbons - diesel range organics

MRO = Total volatile petroleum hydrocarbons - motor oil/lube range organics

BTEX = Total benzene, toluene, ethlybenzene, and total xylenes

mg/kg = Milligrams per kilogram

in. = inch

ft = Feet

bgs = Below ground surface

NA = Constituent not analyzed

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 62151

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 62151
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/17/2021