Volume calculator

There was no volume calculator prepared when the spill occurred.

Incident Numbers: nHMP1410424987 (2RP-2255), nRM2004149681



Release Assessment and Closure

North Pure Gold 8 Federal #006

Unit J, Section 08, Township 23 South, Range 31 East

API: 30-015-27618

County: Eddy

Vertex File Number: 21E-02816-07

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

May 2023

Release Assessment and Closure May 2023

Release Assessment and Closure
North Pure Gold 8 Federal #006
Unit J, Section 08, Township 23 South, Range 31 East
API: 30-015-27618

County: Eddy

Prepared for:

Devon Energy Production Company, LP 6488 Seven Rivers Highway Artesia, New Mexico 88210

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ENVIRONMENTAL SPECIALIST, REPORTING

June 6, 2023

Date

Kent Stallings P.G.

_____ Date

June 12, 2023

Kent Stallings, P.G.
PROJECT MANAGER, REPORT REVIEW

Release Assessment and Closure May 2023

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Release Assessment and Closure May 2023

1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for produced water and crude oil releases that occurred on April 4, 2014, and February 3, 2020, at North Pure Gold 8 Federal #006, API 30-015-27618 (hereafter referred to as the "site"). Devon submitted initial C-141 Release Notifications (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on April 14, 2014, and February 6, 2020. Incident ID numbers nHMP1410424987 (RP# 2RP-2255) and nRM2004149681 were assigned to the respective incidents.

This report provides a description of the release assessment and remediation activities associated with the site. The information presented demonstrates that closure criteria established in Table I of 19.15.29.12 of the *New Mexico Administrative Code* (NMAC; New Mexico Oil Conservation Division, 2018) related to NMOCD has been met and all applicable regulations are being followed. This document is intended to serve as a final report to obtain approval from NMOCD for closure of this release, with the understanding that restoration of portions of the release site in use will be deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

2.0 Incident Description

2.1 nHMP1410424987, 2RP-2255

The first release occurred on April 4, 2014, due to corrosion of a 2-inch nipple off of the pumping tee. The incident was reported on April 14, 2014, and involved the release of approximately 25 barrels (bbl) of produced water and 5 bbl of produced oil on the pad site. Approximately 18 bbl of free fluid was removed during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report (Appendix A). Daily Field Reports (DFRs) with site photographs are included in Appendix C.

2.2 nRM2004149681

The second release occurred on February 3, 2020, due to a perforated flowline on the west edge of the pad. The incident was reported on February 6, 2020, and involved the release of approximately 5 bbl of produced water and 0.5 bbl of produced oil into the pasture immediately west of the pad site. No fluid was recovered during the initial clean-up. Additional details relevant to the release are presented in the C-141 Report (Appendix A). Daily Field Reports with site photographs are included in Appendix C.

3.0 Site Characteristics

The site is located approximately 16.9 miles East of Loving, New Mexico. The legal location for the site is Unit J, Section 08, Township 23 South and Range 31 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management property. Aerial photographs and site schematics are presented on Figures 1 and 3.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil production. The following sections specifically describe the release areas at the site or in proximity to the constructed pad (Figures 1 and 3).

The surface geology at the site primarily Qep – eolian and piedmont deposits from the Holocene to middle Pleistocene

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(New Mexico Bureau of Geology and Mineral Resources, 2023), and the soil at the site is characterized as fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2023). The soil is well to excessively drained with a negligible to low runoff class. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with plains, alluvial fans, and fan piedmonts with elevations ranging between 3,100 and 4,200 feet. The climate is semiarid with average annual precipitation ranging between 10 and 14 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be dropseeds with scattered shinnery oak and soapweed yucca. Grasses with small shrubs dominate the historic plant community (United States Department of Agriculture, Natural Resources Conservation Service, 2023). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way, and access road.

4.0 Closure Criteria Determination

The depth to groundwater was determined by drilling a borehole permitted by the New Mexico Office of the State Engineer (NMOSE) within a 0.5-mile radius of the site. The borehole was advanced to a depth of 59 feet approximately 176 feet east of the wellhead on-site. The borehole was left to recharge as per the requirements on the WR-07 Application for Permit to Drill a Well with No Water Rights, and an interface probe was utilized to determine whether groundwater was present at the conclusion of the 72-hour recharge period. No water was found to be present at that time. The borehole was plugged and abandoned according to the WR-08 permit, Well Plugging Plan of Operations, filed with NMOSE. Documentation related to the exploratory borehole is included in Appendix F.

There is no surface water present at the site. The nearest significant watercourse, as defined in Subsection P of 19.15.17.7 NMAC, is an intermittent stream located approximately 1 mile northeast of the site (United States Fish and Wildlife Service, 2023). At the site, there are no continuously flowing watercourses or significant watercourses, lakebeds, sinkholes, playa lakes or other critical water or community features as outlined in Paragraph (4) of Subsection C of 19.15.29.12 NMAC. Information pertaining to the closure criteria determination summarized in Table 1 and references are included in Appendix B.

Table 1.	Closure Criteria Determination		
	e: North Pure Gold 8 Federal #006		
Spill Coor		X: 32.316912	Y: -103.799585
Site Spec	fic Conditions	Value	Unit
1	Depth to Groundwater	>55	feet
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,365	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	6,989	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	4,843	feet
5	i) Within 500 feet of a spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes, or	4,810	feet
	ii) Within 1000 feet of any fresh water well or spring	4,810	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	6,370	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
10	Within a 100-year Floodplain	>500	year
11	Soil Type	Fi	ne Sand
12	Ecological Classification	De	eep Sand
13	Geology	Eolian and p	piedmont deposits
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	51-100'	<50' 51-100' >100'

Due to the sale of the site and other properties to Harvard Petroleum Company, all unresolved releases associated with divested properties will be remediated sufficiently to meet reclamation criteria. The closure criteria will also adhere to Paragraph (1) of Subsection D of 19.15.29.13 NMAC for reclamation from surface to 4 feet below ground surface (bgs). The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.

Table 2. Closure Criteria for Soils to	Remediation & Reclamat	ion Standards
	Constituent	Limit
0-4 feet bgs (19.15.29.13)	Chloride	600 mg/kg
0-4 feet bgs (15.13.25.13)	TPH (GRO+DRO+MRO)	100 mg/kg
	Chloride	10,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
DTGW 51-100 feet (19.15.29.12)	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

DTGW - depth to groundwater

TPH - total petroleum hydrocarbons, GRO - gas range organics, DRO - diesel range organics, MRO - motor oil range organics

BTEX – benzene, toluene, ethylbenzene, and xylenes

5.0 Remedial Actions Taken

5.1 nHMP1410424987, 2RP-2255

Initial spill inspection and site characterization of the release area near the wellhead (noted as North Pure Gold 8 Federal #006 – East in Figures and Tables) was completed by Vertex between July 27, 2021, and January 5, 2023, including vertical and horizontal delineation. The impacted area northeast, east, south, and southwest of the wellhead (nHMP1410424987) was determined to be approximately 161 feet long and 141 feet wide; the total affected area was determined to be 6,855 square feet. The DFRs associated with the site visits are included in Appendix C. Characterization sample locations and approximate release areas are presented on Figure 1. Characterization field screening and laboratory results are summarized in Table 3.

Remediation efforts for the release near the wellhead began on January 4, 2023, and were finalized on January 10, 2023. Vertex personnel supervised the excavation of impacted soils. Field screening was conducted on the base and side walls of the excavation to guide and extend the excavation as needed to adhere to NMOCD reclamation requirements. Field screening consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and an electroconductivity meter (chloride). Field screening results were used to identify areas requiring further remediation. Soils were removed to depths of 1 to 4 feet bgs. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. Daily Field Reports documenting various phases of the remediation are included in Appendix C.

Notification that confirmatory samples were being collected for incident nHMP1410424987 was provided to the NMOCD on January 10, 2023, and is included in Appendix D. Confirmatory composite samples were collected from the base and walls of the excavation in 200 square foot increments. A total of 61 excavation base samples and 19 excavation

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wall samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Excavation boundaries and confirmation sample locations are presented on Figure 2. Laboratory results are presented in Table 4, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below closure criteria for the site.

5.2 nRM2004149681

Initial spill inspection and site characterization of the release in the pasture immediately west of the wellpad (noted as North Pure Gold 8 Federal #006 – West in Figures and Tables) was completed by Vertex between February 4 and 8, 2020, including partial horizontal delineation. The release area in the pasture off the west edge of the wellpad (nRM2004149681) had components of standing liquid and overspray. The area impacted by standing liquid was determined to be approximately 97 feet long and 58 feet wide; with an affected area of 3,168 square feet. The area impacted by overspray surrounded the standing liquid and was determined to be approximately 138 feet long and 105 feet wide; with an affected area of 6,344 square feet. The total affected area was determined to be 9,512 square feet. The DFRs associated with the site visits are included in Appendix C. Characterization sample locations (notated BH20-) and approximate release areas are presented on Figure 3. Characterization field screening and laboratory results are summarized in Table 5.

Remediation efforts for the pasture release began on February 2, 2021, and were finalized on February 5, 2021. Vertex personnel supervised the excavation of impacted soils. Field screening was conducted on the base and side walls of the excavation to guide and extend the excavation as needed to adhere to NMOCD reclamation requirements. Field screening consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dexsil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons) and an electroconductivity meter (chloride). Field screening results were used to identify areas requiring further remediation. Soils were removed to depths of 2 to 8 feet bgs, with the base of the excavation gradually sloping as needed to follow removed impacted soil at depth. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. On February 5, 2021, once excavation was complete, the overspray area was treated with Micro-Blaze, an in-situ hydrocarbon bioremediation agent. Daily field reports documenting various phases of the remediation are included in Appendix C.

Notification that confirmatory samples were being collected was provided to the NMOCD on February 3, 2021, and is included in Appendix D. On February 5, 2021, eight confirmatory composite samples were collected from the base of the excavation and eight samples were collected from the walls. Five-point composite samples were collected in 200 square-foot increments following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 6, and the laboratory data reports are included in Appendix E. Wall excavation sample WS21-04 exceeded the NMOCD reclamation criterion for total petroleum hydrocarbons (TPH) at 220 ppm. The excavation was initially backfilled on March 24, 2021.

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Additional site characterization of the pasture release was completed by Vertex between December 3, 2022, and February 21, 2023, including vertical delineation to depths below the backfill from the historical excavation. Horizontal delineation was confirmed outside the overspray area and the previously calculated measurements were deemed accurate. The DFRs associated with the site visits are included in Appendix C. Characterization sample locations (notated BH22-) are presented on Figure 3. Characterization field screening and laboratory results are summarized in Table 5.

It was determined that that an insufficient number of confirmation samples were collected from the excavation during the first confirmatory sampling event given the total square footage of excavation base and walls. In addition, wall sample WS21-04 needed to be re-collected to determine if the area would meet NMOCD reclamation criteria. Notifications that additional confirmatory samples were being collected were provided to the NMOCD on January 10 and 23, 2023, and are included in Appendix D. On January 20 and 25, 2023, additional 5-point composite confirmation base and wall samples were collected from the previously backfilled excavation by advancing five boreholes to excavation depth for base samples, collecting discrete samples from the excavation surface (base or wall), and creating a composite from each set of five samples. Composite borehole samples and corresponding sets of five discrete samples were collected over intervals of 200 square feet and were placed to cover the areas not included by the first confirmatory sampling event. This method was used to re-collect a composite confirmation sample from excavation wall WS21-04 and collect four additional excavation wall and 14 additional excavation base samples. Laboratory results for all borehole-derived confirmatory samples collected and analyzed were below closure criteria for the site.

Notification that confirmatory samples were being collected for the overspray area was provided to the NMOCD on February 14, 2023, and is included in Appendix D. On February 20, 2023, 50 confirmation 5-point composite samples were collected from the former overspray area in 200 square foot increments. Laboratory results for overspray area confirmation samples BS23-47 and BS23-52 exceeded NMOCD reclamation criterion for TPH at 670 ppm and 159 ppm, respectively, as presented in Table 6. Notification that additional confirmatory samples were being collected for the overspray area was provided to the NMOCD on May 17, 2023, and confirmatory samples BS23-47 and BS23-52 were re-collected on May 19, 2023.

Since the original confirmatory sampling event, a total of 64 additional base excavation samples and five additional wall excavation samples were collected for laboratory analysis following NMOCD soil sampling procedures. Samples were submitted to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico, under chain-of-custody protocols and analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Confirmatory sample locations are presented on Figure 4. Confirmatory sampling field screening and laboratory results are summarized in Table 6, and the laboratory data reports are included in Appendix E. All final confirmatory samples collected and analyzed were below closure criteria for the site.

6.0 Closure Request

Vertex recommends no additional remediation action to address the releases at North Pure Gold 8 Federal #006. Laboratory analyses of the final confirmatory samples showed constituent of concern concentration levels below NMOCD closure criteria for areas where depth to groundwater is 51-100 feet bgs as shown in Table 2. There are no

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anticipated risks to human, ecological or hydrological receptors associated with the release sites.

The excavations were backfilled with non-waste-containing, uncontaminated, earthen material, sourced locally, and placed to meet the site's existing grade to prevent ponding of water and erosion.

Vertex requests that these incidents (nHMP1410424987, 2RP-2255, and nRM2004149681) be closed as all closure requirements set forth in Subsection E of 19.15.29.12 NMAC have been met. Devon certifies that all information in this report and the attachments is correct, and that they have complied with all applicable closure requirements and conditions specified in Division rules and directives to meet NMOCD requirements to obtain closure on the April 4, 2014, and February 3, 2020, releases at North Pure Gold 8 Federal #006.

The release areas were fully delineated, remediated, and backfilled with local soils by March 7, 2023. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release locations between 51 and 100 feet to groundwater. Based on these findings, Devon requests that this release be closed.

Should you have any questions or concerns, please do not hesitate to contact Lakin Pullman at 701.495.1722 or lpullman@vertex.ca.

Release Assessment and Closure May 2023

7.0 References

- New Mexico Bureau of Geology and Mineral Resources. (2023). *Interactive Geologic Map*. Retrieved from https://maps.nmt.edu/
- New Mexico Office of the State Engineer. (2023). *Point of Diversion Location Report New Mexico Water Rights Reporting System*. Retrieved from http://nmwrrs.ose.state.nm.us/nmwrrs/wellSurfaceDiversion.html
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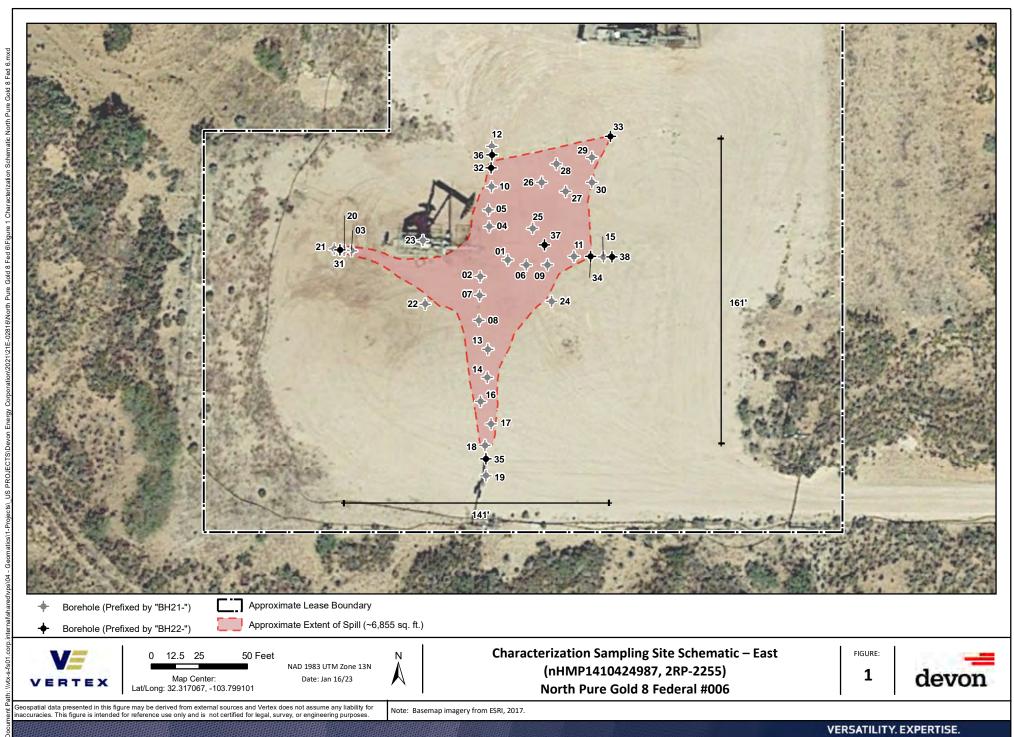
Release Assessment and Closure May 2023

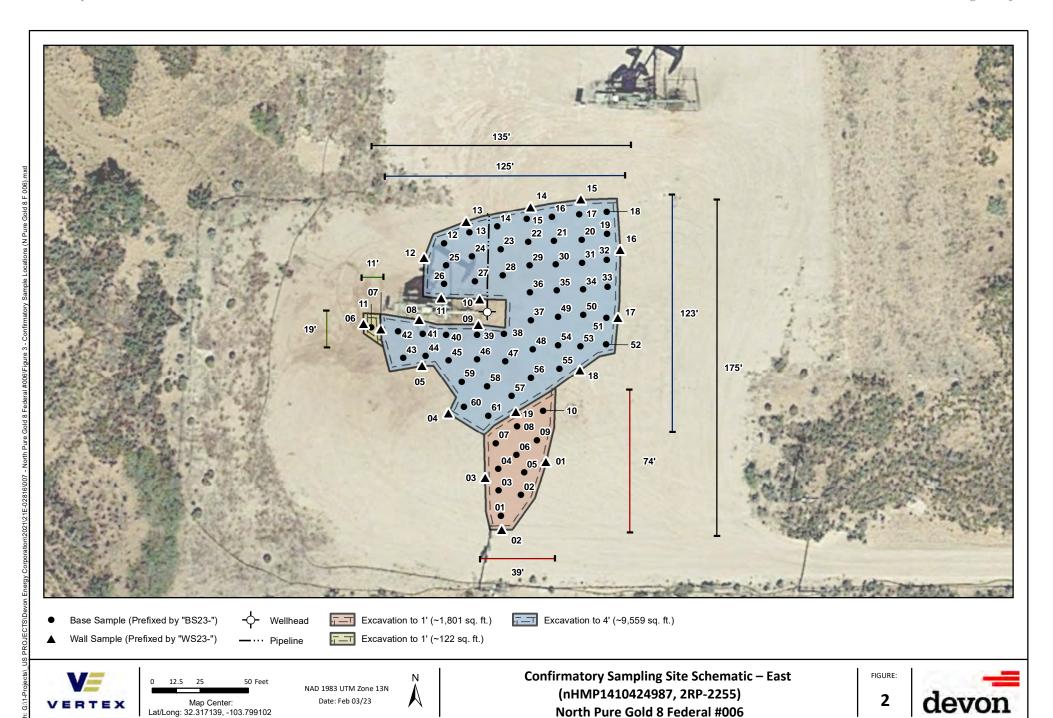
8.0 Limitations

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

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

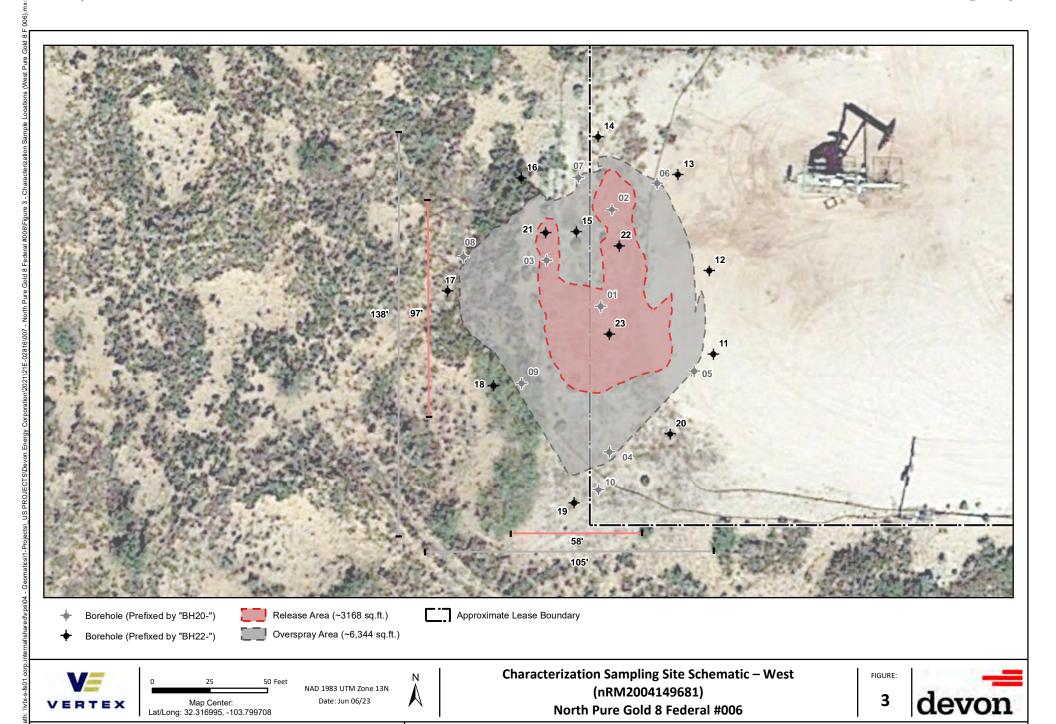
FIGURES





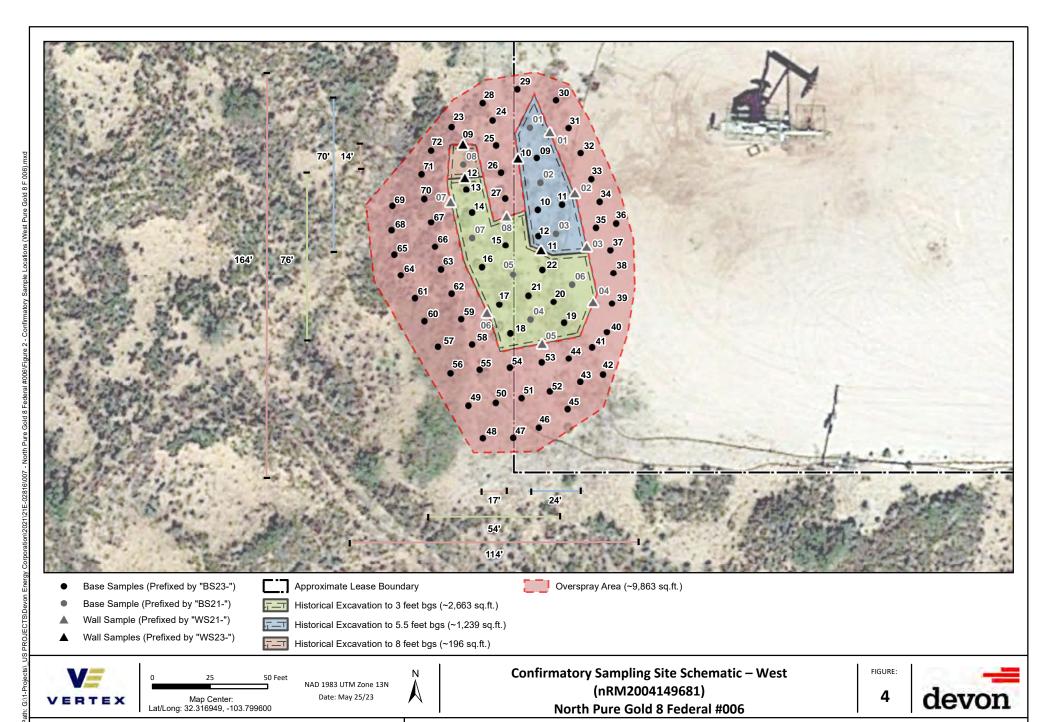
Geospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for naccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes.

Note: Background imagery from Google Earth, 2023. Features from GPS. Vertex Professional Services Ltd., 2023.



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

Note: Image from Google Earth Pro, 2023, georeferenced by Vertex. Site features from GPS, Vertex Professional Services Ltd., 2023.



eospatial data presented in this figure may be derived from external sources and Vertex does not assume any liability for laccuracies. This figure is intended for reference use only and is not certified for legal, survey, or engineering purposes. Note: Image from Google Earth Pro, 2023, georeferenced by Vertex. Site features from GPS, Vertex Professional Services Ltd., 2023.

TABLES

Client Name: Devon Energy Production Company, LP Site Name: North Pure Gold 8 Federal #006 - East

NM OCD Incident Tracking Number: nHMP1410424987, 2RP-2255

Project #: 21E-02816-07

Lab Reports: 2107F55, 2212582, and 2301273

	Table 3	. Characterization	Field Scr	reening a	nd Labora	atory Res	ults - Eas	t - Depth	to Groun	dwater 5	1-100 fee	t	
	Sample Descr	iption	Fi	eld Screeni	ng			Petrole	eum Hydro	carbons			
			s			Vol	atile			Extractable)		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH21-01	0.5	July 28, 2021	0	-	5,070	-	-	-	-	-	-	-	-
BH21-02	0.5	July 28, 2021	1	-	1,091	-	-	-	-	-	-	-	-
BH21-03	0.5	July 28, 2021	0	189	369	-	-	-	-	-	-	-	-
	0.5	July 28, 2021	1	-	3,375	-	-	-	-	-	-	-	-
	1	July 28, 2021	-	-	968	-	-	-	-	-	-	-	-
	1.5	July 28, 2021	-	-	994	-	-	-	-	-	-	-	-
	2	July 28, 2021		-	1,114		-	_	_	_	-		_
BH21-04	2.5	July 28, 2021	-	-	1,281	-	-	-	-	-	-	-	-
	3	July 28, 2021	-	-	1,578	-	-	-	-	-	-	-	-
	4	July 28, 2021	-	-	1,384	-	-	-	-	-	-	-	-
	5	July 28, 2021	-	-	1,968	-	-	-	-	-	-	-	-
	6	July 28, 2021	-	-	3,397	-	-	-	-	-	-	-	-
	0.5	July 28, 2021	_	_	3,090	_	_	_	_	_	_	_	_
	1	July 28, 2021		_	1,098								
BH21-05	2	July 28, 2021	_	_	1,167	_	_	_	_	_	_	-	_
	3	July 28, 2021	_	-	1,456	_	_	_	-	_	_	-	-
	0.5	July 28, 2021	-	-	2,420	ND	ND	ND	40	63	40	103	2,700
BH21-06	1	July 28, 2021	-	58	513	ND	ND	ND	ND	ND	ND	ND	560
BH21-07	0.5	July 28, 2021	-	-	1,309	ND	ND	ND	ND	ND	ND	ND	1,200
	0.5	July 28, 2021	-	-	1,290	ND	ND	ND	ND	ND	ND	ND	1,000
BH21-08	1	July 28, 2021	-	14	318	ND	ND	ND	ND	ND	ND	ND	360
BH21-09	0.5	July 28, 2021	-	-	760	-	-	-	-	-	-	-	-
BH21-10	0.5	July 28, 2021	-	-	2,198	-	-	-	-	-	-	-	-
BH21-11	0.5	July 28, 2021	-	-	806	-	-	-	-	-	-	-	-
BH21-12	0.5	July 28, 2021	-	41	189	ND	ND	ND	ND	ND	ND	ND	140
BH21-13	0.5	July 28, 2021	-	-	694	-	-	-	-	-	-	-	-
BH21-14	0.5	July 28, 2021	-	-	3,287	-	-	-	-	-	-	-	-
BH21-15	0.5	July 28, 2021	-	55	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-16	0.5	July 28, 2021	-	-	922	-	-	-	-	-	-	-	-
BH21-17	0.5	July 28, 2021	-	-	671	-	-	-	-	-	-	-	-
BH21-18	0.5	July 28, 2021	-	-	867	-	-	-	-	-	-	-	-
BH21-19	0.5	July 28, 2021	-	6	ND	ND	ND	ND	ND	ND	ND	ND	77
BH21-20	0.5	July 28, 2021	-	111	ND	-	-	-	-	-	-	-	-
BH21-21	0.5	July 28, 2021	_	40	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-22	0.5	July 28, 2021	-	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-23	0.5	July 28, 2021	_	_	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-24	0.5	July 28, 2021	-	33	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-25	0.5	July 28, 2021	-	1,652	ND	ND	ND	ND	ND	ND	ND	ND	1,700
BH21-26	0.5	July 28, 2021	-	-	2,192	-	-	-	-	-	-	-	-
BH21-27	0.5	July 28, 2021	-	-	2,284	-	-	-	-	-	-	-	-
BH21-28	0.5	July 28, 2021	-	-	2,925	-	-	-	-	-	-	-	-
BH21-29	0.5	July 28, 2021	-	-	3,244	-	-	-	-	-	-	-	-
BH21-30	0.5	July 28, 2021	-	43	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH21-31	0	December 7, 2022	0	-	121	ND	ND	ND	ND	ND	ND	ND	ND
DI 121-31	2	December 7, 2022	0	-	2	ND	ND	ND	ND	ND	ND	ND	ND
	0	December 7, 2022	0	-	2,479	ND	ND	ND	ND	ND	ND	ND	1,200
BH22-32	2	December 7, 2022	0	-	1,324	ND	ND	ND	ND	ND	ND	ND	610
	4	December 7, 2022	0	-	1,711	ND	ND	ND	ND	ND	ND	ND	740
BH22-33	0	December 7, 2022	0	-	342	ND	ND	ND	ND	ND	ND	ND	100
	2	December 7, 2022	0	-	255	ND	ND	ND	ND	ND	ND	ND	85



Client Name: Devon Energy Production Company, LP Site Name: North Pure Gold 8 Federal #006 - East

NM OCD Incident Tracking Number: nHMP1410424987, 2RP-2255

Project #: 21E-02816-07

Lab Reports: 2107F55, 2212582, and 2301273

		3. Characterization				atory Kes	uits - Easi	•			T-TOO 166	et .	_
	Sample Descr	iption	FI	eld Screeni	ng			Petrole	um Hydrod				1
			S			Vol	atile			Extractable	;		Inorganio
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	ВТЕХ (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BH22-34	0	December 7, 2022	0	-	164	ND	ND	ND	16	300	16	316	ND
	2	December 7, 2022	0	-	116	ND	ND	ND	ND	ND	ND	ND	ND
BH22-35	0	December 7, 2022	0	-	181	ND	ND	ND	ND	ND	ND	ND	ND
	2	December 7, 2022	0	-	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-36	0	December 7, 2022	0	-	331	ND	ND	ND	ND	ND	ND	ND	ND
51.22.50	2	December 7, 2022	0	-	77	ND	ND	ND	ND	ND	ND	ND	ND
	0	January 4, 2023	0	-	474	ND	ND	ND	ND	ND	ND	ND	160
	2	January 4, 2023	0	-	656	ND	ND	ND	ND	ND	ND	ND	250
	4	January 4, 2023	0	-	891	ND	ND	ND	ND	ND	ND	ND	390
	6	January 4, 2023	0	-	881	ND	ND	ND	ND	ND	ND	ND	340
BH22-37	8	January 4, 2023	0	-	714	ND	ND	ND	ND	ND	ND	ND	240
DITEE 37	10	January 4, 2023	0	-	633	ND	ND	ND	ND	ND	ND	ND	230
	12	January 4, 2023	0	-	684	ND	ND	ND	ND	ND	ND	ND	230
	14	January 5, 2023	0	-	754	ND	ND	ND	ND	ND	ND	ND	97
	16	January 5, 2023	0	14	616	ND	ND	ND	ND	ND	ND	ND	ND
	18	January 5, 2023	0	18	596	ND	ND	ND	ND	ND	ND	ND	ND
BH22-38	0	January 5, 2023	0	11	532	ND	ND	ND	ND	ND	ND	ND	ND
51122 50	2	January 5, 2023	0	10	523	ND	ND	ND	ND	ND	ND	ND	ND

[&]quot;-" indicates not sampled/analyzed

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



[&]quot;ND" Not Detected at the Reporting Limit

Client Name: Devon Energy Production Company, LP Site Name: North Pure Gold 8 Federal #006 - East

NM OCD Incident Tracking Number: nHMP1410424987, 2RP-2255

Project #: 21E-02816-07

Lab Reports: 2301766, 2301815 and 2301866

	Table	4. Confirmatory Sa	mple Field	d Screen a	nd Labora	tory Resul	ts - East - I	Depth to 0	Groundwa	ter 51-100	feet bgs		
	Sample Descri	iption	Fi	eld Screeni	ng			Petrole	eum Hydro	arbons			
			s			Vol	atile			Extractable	:		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Gompounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	ন্ত্ৰ Gasoline Range Organics স্থ (GRO)	DRO)	স্ত্র Motor Oil Range Organics স্থ (MRO)	(mg/kg)	Total Petroleum	ਤੇ Chloride Concentration ଅଧି
BS23-01	1	January 18, 2023	0	4	393	ND	ND	ND	ND	ND	ND	ND	66
BS23-02	1	January 18, 2023	0	0	551	ND	ND	ND	ND	ND	ND	ND	160
BS23-03	1	January 18, 2023	0	5	477	ND	ND	ND	ND	ND	ND	ND	110
BS23-04	1	January 18, 2023	0	0	336	ND	ND	ND	ND	ND	ND ND	ND ND	ND
BS23-05	1	January 18, 2023	0	0	375	ND	ND	ND	ND	ND	ND	ND	71
BS23-06	1	January 18, 2023	0	1	382	ND	ND	ND	ND ND	ND	ND ND	ND ND	70
BS23-00	1	January 18, 2023	0	0	372	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	81
BS23-07	1	January 18, 2023	0	4	402	ND	ND ND	ND	ND ND	ND	ND ND	ND ND	86
BS23-08	1	January 18, 2023	0	1	402	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	110
BS23-10	1	January 18, 2023	0	8	334	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
BS23-10 BS23-11	1	January 18, 2023	0	7	287								
BS23-11 BS23-12	4	January 19, 2023	0	-	1,392	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND 440
BS23-12 BS23-13	4	January 19, 2023	0										
BS23-13	4	· ·			2,035	ND	ND	ND	ND	ND	ND	ND	860
BS23-14 BS23-15	4	January 19, 2023	0	-	2,068	ND	ND	ND	ND	ND	ND	ND	830
BS23-15 BS23-16	4	January 19, 2023	0	-	1,125	ND	ND	ND	ND	ND	ND	ND	310
	4	January 19, 2023	0	-	943	ND	ND	ND	ND	ND	ND	ND	230
BS23-17 BS23-18	4	January 19, 2023	0	-	630	ND	ND	ND	ND	ND	ND	ND	100
BS23-18 BS23-19	4	January 19, 2023	0	-	1,236	ND	ND	ND	ND	ND	ND	ND	360
BS23-19 BS23-20	4	January 19, 2023	0		847	ND	ND	ND	ND	ND	ND	ND	210
	4	January 19, 2023	0	-	1,626	ND	ND	ND	ND	ND	ND	ND	480
BS23-21	4	January 19, 2023	0	-	1,291	ND	ND	ND	ND	ND	ND	ND	300
BS23-22		January 19, 2023	0	-	1,421	ND	ND	ND	ND	ND	ND	ND	470
BS23-23	4	January 19, 2023	0	-	1,662	ND	ND	ND	ND	ND	ND	ND	530
BS23-24	4	January 19, 2023	0	-	2,189	ND	ND	ND	ND	ND	ND	ND	950
BS23-25	4	January 19, 2023	0	-	1,848	ND	ND	ND	ND	ND	ND	ND	690
BS23-26	4	January 19, 2023	0	-	1,335	ND	ND	ND	ND	ND	ND	ND	380
BS23-27	4	January 19, 2023	0	-	1,512	ND	ND	ND	ND	ND	ND	ND	500
BS23-28	4	January 19, 2023	0	-	2,709	ND	ND	ND	9.8	ND	ND	9.8	1300
BS23-29	4	January 19, 2023	0	-	1,593	ND	ND	ND	ND	ND	ND	ND	470
BS23-30	4	January 19, 2023	0	-	1,506	ND	ND	ND	ND	ND	ND	ND	500
BS23-31	4	January 19, 2023	0	-	1,203	ND	ND	ND	ND	ND	ND	ND	250
BS23-32	4	January 19, 2023	0	-	1,212	ND	ND	ND	ND	ND	ND	ND	290
BS23-33	4	January 19, 2023	0	-	987	ND	ND	ND	ND	ND	ND	ND	200
BS23-34	4	January 19, 2023	0	-	910	ND	ND	ND	ND	ND	ND	ND	170
BS23-35	4	January 19, 2023	0	-	1,108	ND	ND	ND	ND	ND	ND	ND	380
BS23-36	4	January 19, 2023	0	-	1,892	ND	ND	ND	ND	ND	ND	ND	550
BS23-37	4	January 19, 2023	0	-	1,359	ND	ND	ND	ND	ND	ND	ND	460
BS23-38	4	January 19, 2023	0	-	1,394	ND	ND	ND	ND	ND	ND	ND	420
BS23-39	4	January 19, 2023	0	-	1,895	ND	ND	ND	ND	ND	ND	ND	610
BS23-40	4	January 19, 2023	0	-	2,151	ND	ND	ND	ND	ND	ND	ND	860
BS23-41	4	January 20, 2023	0	-	3,417	ND	ND	ND	ND	ND	ND	ND	1500
BS23-42	4	January 20, 2023	0	-	2,810	ND	ND	ND	ND	ND	ND	ND	790
BS23-43	4	January 20, 2023	0	-	2,954	ND	ND	ND	ND	ND	ND	ND	1300
BS23-44	4	January 20, 2023	0	-	2,372	ND	ND	ND	ND	ND	ND	ND	910
BS23-45	4	January 20, 2023	0	-	1,000	ND	ND	ND	ND	ND	ND	ND	350
BS23-46	4	January 20, 2023	0	-	870	ND	ND	ND	ND	ND	ND	ND	140
BS23-47	4	January 20, 2023	0	-	1,106	ND	ND	ND	ND	ND	ND	ND	180
BS23-48	4	January 20, 2023	0	-	834	ND	ND	ND	ND	ND	ND	ND	110
BS23-49	4	January 20, 2023	0	-	1,440	ND	ND	ND	ND	ND	ND	ND	300
BS23-50	4	January 20, 2023	0	-	1,073	ND	ND	ND	ND	ND	ND	ND	180



Client Name: Devon Energy Production Company, LP Site Name: North Pure Gold 8 Federal #006 - East

NM OCD Incident Tracking Number: nHMP1410424987, 2RP-2255

Project #: 21E-02816-07

Lab Reports: 2301766, 2301815 and 2301866

	Table	4. Confirmatory Sa	mple Field	Screen a	nd Labora	tory Resul	ts - East -	Depth to 0	Groundwa	ter 51-100	feet bgs		
	Sample Descr	iption	Fi	eld Screeni	ng			Petrole	um Hydrod	arbons			
			s			Vol	atile			Extractable	:		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (PetroFlag)	(3d Chloride Concentration	Benzene	BTEX (Total)	(GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(mg/kg)	Total Petroleum	ਤੇ ମୁ Chloride Concentration ଅଧି
DC22 F4		1	- '' '										
BS23-51 BS23-52	4	January 20, 2023	0	-	762	ND	ND	ND ND	ND	ND	ND ND	ND	72 ND
BS23-52 BS23-53	4	January 20, 2023		-	600	ND	ND	ND	ND	ND	ND	ND	ND 100
BS23-53 BS23-54	4	January 20, 2023 January 20, 2023	0	-	785	ND ND	ND	ND	ND	ND	ND	ND	100
BS23-54 BS23-55	4	January 20, 2023 January 20, 2023	0	-	977 640	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	210 ND
BS23-56	4	January 20, 2023	0		689								
BS23-50	4	January 20, 2023	0		813	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	66 150
BS23-58	4	January 20, 2023	0	-	952	ND ND	ND	ND ND	ND ND	ND	ND ND	ND	200
BS23-58	4	January 20, 2023	0	-	952	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	190
BS23-60	4	January 20, 2023	0	-	1,122	ND ND	ND	ND ND	ND ND	ND	ND ND	ND	380
BS23-61	4	January 20, 2023	0	-	724	0.023	0.023	ND ND	ND ND	ND	ND ND	ND	110
WS23-01	0-1	January 18, 2023	0	10	379	0.023 ND	0.023 ND	ND	ND	ND	ND ND	ND ND	ND
WS23-02	0-1	January 18, 2023	0	7	217	ND ND	ND ND	ND ND	ND	ND	ND ND	ND ND	ND
WS23-02 WS23-03	0-1	January 18, 2023	0	4	217	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND
WS23-03	0-1	January 18, 2023	0	9	320	ND ND	ND	ND	ND	ND	ND ND	ND ND	ND
WS23-05	0-4	January 18, 2023	0	6	281	ND ND	ND ND	ND	ND	ND	ND ND	ND ND	ND
WS23-06	0-1	January 18, 2023	0	6	314	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND
WS23-07	1-4	January 18, 2023	0	13	210	ND ND	ND ND	ND	ND	ND	ND ND	ND ND	ND
WS23-08	0-4	January 18, 2023	0	9	476	ND	ND	ND	ND	ND	ND	ND	130
WS23-09	0-4	January 18, 2023	0	6	359	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	61
WS23-10	0-4	January 18, 2023	0	14	241	ND ND	ND	ND	ND	ND	ND	ND	ND
WS23-11	0-4	January 18, 2023	0	0	271	ND	ND	ND	ND	ND	ND	ND	ND
WS23-12	0-4	January 18, 2023	0	9	551	ND	ND	ND	ND	ND	ND	ND	160
WS23-13	0-4	January 18, 2023	0	2	305	ND	ND	ND	ND	ND	ND	ND	ND
WS23-14	0-4	January 18, 2023	0	4	369	ND	ND	ND	ND	ND	ND	ND	ND
WS23-15	0-4	January 18, 2023	0	1	578	ND	ND	ND	ND	ND	ND	ND	130
WS23-16	0-4	January 18, 2023	0	2	333	ND	ND	ND	ND	ND	ND	ND	ND
WS23-17	0-4	January 18, 2023	0	3	558	ND	ND	ND	ND	ND	ND	ND	91
WS23-18	0-4	January 18, 2023	0	25	304	ND	ND	ND	ND	ND	ND	ND	ND
WS23-19	1-4	January 18, 2023	0	5	570	ND	ND	ND	ND	ND	ND	ND	130

[&]quot;ND" Not Detected at the Reporting Limit

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[&]quot;-" indicates not analyzed/assessed

Client Name: Devon Energy Production Company, LP Site Name: North Pure Gold 8 Federal #006 - West

NM OCD Tracking #: nRM2004149681

Project #: 21E-02816-07

Lab Reports: 2002522, 2212214, and 2302A00

	Table 5	. Characterization S	ample Fie	ld Screen	and Labor	atory Resi	ults -West	- Depth to	Groundw	ater 51-10	00 feet bgs	;	
	Sample Descr	iption	Fi	eld Screeni	ng			Petrole	um Hydro	carbons			
			s			Vol	atile			Extractable	2		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	GRO) (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum	Chloride Concentration
	0	February 8, 2020	776	(ppiii)	(ррііі)	(IIIg/kg)	(IIIg/Kg)	(IIIg/kg)	(IIIg/Kg)	(IIIg/Kg)	(IIIg/Kg)	(IIIg/Kg)	(IIIg/kg)
	1	February 8, 2020	130	316	5,614		-	-	-	-	-	-	-
BH20-01	2	February 8, 2020	130	228	3,371							-	
	3	February 8, 2020	4	80	429	_	_	_	_	_	_	-	_
	0	February 8, 2020	822	-	-	0.32	44.92	660	50,000	20,000	50,660	70,660	14,000
	1	February 8, 2020	216	535	5,220	-	-	-	-	-	-	-	-
BH20-02	2	February 8, 2020	202	511	1,987	_	_	<u> </u>	_	_	_	_	_
	3	February 8, 2020	21	69	114	_	-	-	-	-	-	-	_
	0	February 8, 2020	700	-	-	0.46	37.46	650	29,000	13,000	29,650	42,650	7,300
	1	February 8, 2020	266	298	2,224	-	-	-	-	-	-	-	- ,500
BH20-03	2	February 8, 2020	47	203	641	_	_		_	_	_		
	3	February 8, 2020	7	72	250	_	-	-	-	-	-		-
	0	February 8, 2020	1	45	215	_	-	-	-	-	-	-	-
BH20-04	1	February 8, 2020	0	38	166	-	-	-	-	-	-	-	-
	0	February 8, 2020	3	51	333	ND	ND	ND	ND	ND	ND	ND	ND
BH20-05	1	February 8, 2020	0	47	198	-	-	-	-	-	-	-	-
	0	February 8, 2020	2	65	472	_	_	_	_	_	_	_	_
BH20-06	1	February 8, 2020	0	45	176	_	-	-	-	-	-	-	-
	0	February 8, 2020	2	69	509	ND	ND	ND	ND	ND	ND	ND	ND
BH20-07	1	February 8, 2020	0	39	314	-	-	-	-	-	-	-	-
B. 100 00	0	February 8, 2020	1	54	219	ND	ND	ND	ND	ND	ND	ND	ND
BH20-08	1	February 8, 2020	0	36	99	-	-	-	-	-	-	-	-
D1120 00	0	February 8, 2020	40	123	-	ND	ND	ND	ND	ND	ND	ND	ND
BH20-09	1	February 8, 2020	31	112	-	-	-	-	-	-	-	-	-
BH20-10	0	February 8, 2020	34	161	-	-	-	-	-	-	-	-	-
BH20-10	3	February 8, 2020	36	97	-	-	-	-	-	-	-	-	-
	0	December 3, 2022	0	28	402	ND	ND	ND	ND	ND	ND	ND	ND
BH22-11	2	December 3, 2022	0	36	707	ND	ND	ND	ND	ND	ND	ND	230
	4	December 3, 2022	0	31	676	ND	ND	ND	ND	ND	ND	ND	240
	0	December 3, 2022	0	25	402	ND	ND	ND	ND	ND	ND	ND	64
BH22-12	2	December 3, 2022	0	17	404	ND	ND	ND	ND	ND	ND	ND	140
	4	December 3, 2022	0	20	406	ND	ND	ND	ND	ND	ND	ND	110
	0	December 3, 2022	0	40	464	ND	ND	ND	ND	ND	ND	ND	ND
BH22-13	2	December 3, 2022	0	21	305	ND	ND	ND	ND	ND	ND	ND	89
	4	December 3, 2022	0	12	421	ND	ND	ND	ND	ND	ND	ND	150
	0	December 3, 2022	0	26	171	ND	ND	ND	ND	ND	ND	ND	ND
BH22-14	2	December 3, 2022	0	13	142	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	11	171	ND	ND	ND	ND	ND	ND	ND	ND
DU22 45	0	December 3, 2022	0	23	265	ND	ND	ND	ND	ND	ND	ND	ND
BH22-15	2	December 3, 2022	0	13	145	ND	ND	ND	ND	ND	ND	ND	ND 70
	4	December 3, 2022	0	51	284	ND	ND	ND	ND	ND	ND	ND	70
DU22 16	0	December 3, 2022	0	25	135	ND	ND	ND	ND	ND	ND	ND	ND
BH22-16	2	December 3, 2022	0	17	128	ND ND	ND	ND	ND	ND ND	ND ND	ND	ND ND
	4	December 3, 2022	0	12	134	ND	ND	ND	ND	ND	ND	ND	ND ND
BH22-17	0	December 3, 2022	0	28	129	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND	ND ND
DUZZ-1/	2	December 3, 2022	0	15 16	111	ND	ND	ND	ND	ND	ND	ND	ND ND
	0	December 3, 2022			116	ND	ND	ND	ND	ND	ND	ND	
BH22-18	2	December 3, 2022	0	47	98 or	ND ND	ND	ND	ND	ND ND	ND ND	ND	ND ND
D1122-10	4	December 3, 2022 December 3, 2022	0	9 19	85 95	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
L	+	December 3, 2022	U	13	33	טאו	טויו	אט	אט	שאו	טאו	ND	טאו



Client Name: Devon Energy Production Company, LP Site Name: North Pure Gold 8 Federal #006 - West

NM OCD Tracking #: nRM2004149681

Project #: 21E-02816-07

Lab Reports: 2002522, 2212214, and 2302A00

	Table 5	. Characterization S	ample Fie	ld Screen	and Labor	atory Resi	ults -West	- Depth to	Groundw	ater 51-10	00 feet bgs	5	
	Sample Descr	iption	Fi	eld Screeni	ng			Petrole	um Hydrod	carbons			
			<u>s</u>			Vol	atile			Extractable	9		Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds	Extractable Organic Compounds (PetroFlag)	(maga) Chloride Concentration	Benzene	Barex (Total)	Basoline Range Organics (GRO)	B Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(mg/kg)	Total Petroleum	공 Chloride Concentration 연
	0	December 3, 2022	0	50	101	ND	ND	ND	ND	ND	ND	ND	ND
BH22-19	2	December 3, 2022	0	17	168	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	23	125	ND	ND	ND	ND	ND	ND	ND	ND
	0	December 3, 2022	0	25	121	ND	ND	ND	ND	ND	ND	ND	ND
BH22-20	2	December 3, 2022	0	31	150	ND	ND	ND	ND	ND	ND	ND	ND
	4	December 3, 2022	0	15	170	ND	ND	ND	ND	ND	ND	ND	ND
BH22-21	8	February 21, 2023	0	42	10	ND	ND	ND	ND	ND	ND	ND	ND
BHZZ-ZI	9	February 21, 2023	0	45	ND	ND	ND	ND	ND	ND	ND	ND	ND
BH22-22	6	February 21, 2023	0	40	129	ND	ND	ND	ND	ND	ND	ND	ND
01122-22	8	February 21, 2023	0	25	92	ND	ND	ND	ND	ND	ND	ND	ND
BH22-23	4	February 21, 2023	0	39	ND	ND	ND	ND	ND	ND	ND	ND	ND
D1122 23	6	February 21, 2023	0	25	ND	ND	ND	ND	ND	ND	ND	ND	ND

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria



[&]quot;-" indicates not analyzed/assessed

Client Name: Devon Energy Production Company, LP Site Name: North Pure Gold 8 Federal #006 - West

NM OCD Tracking #: nRM2004149681

Project #: 21E-02816-07

Lab Reports: 2102438, 2102440, 2102441, 2301867, 2301A35, 2302999, and 2305B55

		6. Confirmatory Sar	•			ory Result	ts - West -	•) feet bgs		
	Sample Descr	iption	Fi	eld Screeni	ng			Petrole	eum Hydrod				
			spuno	(1	ι.	Vol	atile	S		Extractable	2		Inorganio
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (PetroFlag)	Chloride Concentration	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
DC21_01	4.5	Fohruary F 2021	(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS21-01 BS21-02	5.5	February 5, 2021 February 5, 2021	-	16	209	ND ND	ND ND	ND ND	ND 17	ND ND	ND 17	ND 17	67 8 200
BS21-02 BS21-03	4	February 5, 2021	-	-	8,414 4,813	ND ND	ND ND	ND ND	770	460	17 770	1230	8,200 2,300
BS21-03	2	February 5, 2021	-	46		ND ND	ND ND			ND	ND	ND	380
BS21-04 BS21-05	2.5	February 5, 2021	-		297		ND ND	ND ND	ND ND	ND ND			200
BS21-05	3	·	-	11	471	ND ND		ND ND	ND ND		ND	ND	
BS21-06 BS21-07	2.5	February 5, 2021 February 5, 2021	-	14 6	480	ND ND	ND	ND ND	ND ND	ND ND	ND	ND	190
BS21-07 BS21-08	8	February 5, 2021	-	0	339	ND ND	ND ND	ND ND	ND 150	ND 160	ND 150	ND 310	190 800
BS21-08 BS23-09	5	January 20, 2023	0	- 19	1,215 1,085	ND ND	ND ND	ND ND	ND	ND	ND	ND ND	360
BS23-10	4.5	·											
BS23-10	4.5	January 20, 2023 January 20, 2023	0	56 24	635 522	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	200 150
BS23-11	4.5	January 20, 2023	0	13	238	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	95
BS23-12 BS23-13	3	January 20, 2023	0	36	376	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND
BS23-14	3	January 20, 2023	0	6	173	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-15	3	January 20, 2023	0	11	161	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-15	2.5	January 25, 2023	0	4	314	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-17	2.5	January 25, 2023	0	0	290	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-17 BS23-18	2.3	January 25, 2023	0	2	352	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-19	2.5	January 25, 2023	0	4	56	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-20	2.5	January 25, 2023	0	15	83	ND	ND	ND	ND	ND	ND	ND	ND
BS23-21	2.5	January 25, 2023	0	2	51	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-22	3	January 25, 2023	0	1	99	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-22 BS23-23	0	February 20, 2023	0	68	139	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-24	0	February 20, 2023	0	31	248	ND	ND ND	ND	ND	ND ND	ND ND	ND	65
BS23-25	0	February 20, 2023	0	0	242	ND	ND ND	ND	ND	ND ND	ND ND	ND	92
BS23-26	0	February 20, 2023	0	0	ND	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND
BS23-27	0	February 20, 2023	0	0	ND	ND	ND	ND	ND	ND	ND ND	ND	ND
BS23-28	0	February 20, 2023	0	63	155	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-29	0	February 20, 2023	0	13	203	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-30	0	February 20, 2023	0	19	174	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND
BS23-30	0	February 20, 2023	0	19	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND
BS23-31	0	February 20, 2023	0	18	457	ND	ND ND	ND	ND	ND ND	ND ND	ND	300
BS23-33	0	February 20, 2023	0	0	173	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND
BS23-34	0	February 20, 2023	0	0	144	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-35	0	February 20, 2023	0	0	109	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-36	0	February 20, 2023	0	6	142	ND	ND ND	ND	ND	ND ND	ND	ND	ND ND
BS23-37	0	February 20, 2023	0	21	ND	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
BS23-38	0	February 20, 2023	0	31	ND	ND	ND ND	ND	ND	ND ND	ND	ND	ND ND
BS23-39	0	February 20, 2023	0	87	99	ND	ND	ND	11	ND	11	11	ND ND
BS23-40	0	February 20, 2023	0	84	148	ND	ND	ND	ND	ND	ND	ND	ND
BS23-41	0	February 20, 2023	0	1	101	ND	ND	ND	ND	ND	ND	ND	ND
BS23-42	0	February 20, 2023	0	0	96	ND	ND	ND	ND	ND	ND	ND	ND
BS23-43	0	February 20, 2023	0	25	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-44	0	February 20, 2023	0	25	ND	ND	ND ND	ND	ND	ND ND	ND	ND	ND ND
BS23-45	0	February 20, 2023	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND ND
BS23-46	0	February 20, 2023	0	0	ND	ND	ND ND	ND	ND	ND ND	ND ND	ND	ND ND
		February 20, 2023	0	20	304	ND	ND	ND	250	420	250	670	270
BS23-47	0	May 19, 2023	0	20	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-48	0	February 20, 2023	0	21	ND	ND	ND ND	ND	ND	ND ND	ND	ND	ND ND
BS23-49	0	February 20, 2023	0	11	102	ND	ND	ND	ND	ND	ND	ND	ND



BS23-50	0	February 20, 2023	0	19	83	ND	ND	ND	25	74	25	99	ND
BS23-51	0	February 20, 2023	0	0	79	ND	ND	ND	ND	ND	ND	ND	ND
DC22 F2		February 20, 2023	0	0	295	ND	ND	ND	39	120	39	159	220
BS23-52	0	May 19, 2023	0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-53	0	February 20, 2023	0	21	75	ND	ND	ND	ND	ND	ND	ND	ND
BS23-54	0	February 20, 2023	0	0	70	ND	ND	ND	ND	ND	ND	ND	ND
BS23-55	0	February 20, 2023	0	43	24	ND	ND	ND	ND	ND	ND	ND	ND
BS23-56	0	February 20, 2023	0	35	20	ND	ND	ND	ND	ND	ND	ND	ND
BS23-57	0	February 20, 2023	0	23	15	ND	ND	ND	ND	ND	ND	ND	ND
BS23-58	0	February 20, 2023	0	38	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-59	0	February 20, 2023	0	24	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-60	0	February 20, 2023	0	31	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-61	0	February 20, 2023	0	60	25	ND	ND	ND	ND	ND	ND	ND	ND
BS23-62	0	February 20, 2023	0	63	25	ND	ND	ND	ND	ND	ND	ND	ND
BS23-63	0	February 20, 2023	0	76	7	ND	ND	ND	ND	ND	ND	ND	ND
BS23-64	0	February 20, 2023	0	59	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-65	0	February 20, 2023	0	34	23	ND	ND	ND	ND	ND	ND	ND	ND
BS23-66	0	February 20, 2023	0	47	23	ND	ND	ND	ND	ND	ND	ND	ND
BS23-67	0	February 20, 2023	0	75	14	ND	ND	ND	ND	ND	ND	ND	ND
BS23-68	0	February 20, 2023	0	31	5	ND	ND	ND	ND	ND	ND	ND	ND
BS23-69	0	February 20, 2023	0	43	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-70	0	February 20, 2023	0	42	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-71	0	February 20, 2023	0	32	ND	ND	ND	ND	ND	ND	ND	ND	ND
BS23-72	0	February 20, 2023	0	39	ND	ND	ND	ND	ND	ND	ND	ND	ND
WS21-01	0-4.5	February 5, 2021	-	8	53	ND	ND	ND	ND	ND	ND	ND	ND
WS21-02	0-3	February 5, 2021	-	26	139	ND	ND	ND	ND	ND	ND	ND	230
WS21-03	0-3	February 5, 2021	-	27	135	ND	ND	ND	ND	ND	ND	ND	99
WS21-04	0-3	February 5, 2021	-	-	610	ND	ND	ND	110	110	110	220	350
W321 04	0.3	January 20, 2023	0	49	401	ND	ND	ND	ND	ND	ND	ND	99
WS21-05	0-2	February 5, 2021	-	15	76	ND	ND	ND	ND	ND	ND	ND	94
WS21-06	0-2.5	February 5, 2021	-	38	288	ND	ND	ND	ND	ND	ND	ND	200
WS21-07	0-3	February 5, 2021	-	14	178	ND	ND	ND	ND	ND	ND	ND	150
WS21-08	0-3	February 5, 2021	-	28	264	ND	ND	ND	ND	ND	ND	ND	210
WS23-09	0-8	January 20, 2023	0	23	337	ND	ND	ND	ND	ND	ND	ND	100
WS23-10	0-4	January 20, 2023	0	5	73	ND	ND	ND	ND	ND	ND	ND	ND
WS23-11	3-4	January 20, 2023	0	37	392	ND	ND	ND	ND	ND	ND	ND	110
WS23-12	3-8	January 20, 2023	0	10	116	ND	ND	ND	ND	ND	ND	ND	ND

[&]quot;ND" Not Detected at the Reporting Limit

Bold and grey shaded indicates exceedance outside of NMOCD Remediation Closure Criteria Bold and green shaded indicates exceedance outside of NMOCD Reclamation Closure Criteria Bold and blue shaded indicates re-collected sample results inside NMOCD Closure Criteria



[&]quot;-" indicates not analyzed/assessed

APPENDIX A - NMOCD C-141 Reports

Released to Imaging: 3/19/2024 2:01:11 PM

<u>District I</u> 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

Form C-141 Revised August 8, 2011 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

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

		the same of the same of the same of	Rolo	asa Natifia	cation	and Co	rrective A	ction	 			-
nHarpi	11047	U987	MUIC	asc Mollin	catioi	OPERAT			7 Initi	al Report	☐ Ein	ıal Repo
Name of Co			J	6137			niel Suniga	K	3 111161	ar Report	1 II.	iai Repo
		Artesia, NN		<u> </u>			No. 575-390-58	50		_		
Facility Nar						Facility Typ		``				
Surface Ow	ner			Mineral C	Owner	-		Т	API No	30-015-2	7618	····-
						N OF REI	FASE					
Unit Letter J	Section 8	Township 23S	Range 31E	Feet from the 1980	North	South Line	Feet from the 2310	East/We		County Eddy		
	1	- -	<u></u>	Lati	tude: _	Longitu	de:	L				
				NAT	TURE	OF RELI	EASE					
Type of Relea	ase Spill					Volume of				Recovered		
Source of Re	lease Corro	sion of 2inch	nipple off	f pumping tee		5bbls Oil/2	our of Occurrence			/15bbls PW Hour of Disc	overv	
				pumping tee		4/4/14 11:	30AM		/4/14 11			
Was Immedia				No 🗌 Not Ro	equired	Amancio C Jim Amos- Mike Brate	news-Superinten Cruz-EHS (12:30 BLM Cher (OCD))pm) `	30pm)			
By Whom? K			t Foreman	<u> </u>		Date and Hour 4/4/14 3:30pm If YES, Volume Impacting the Watercourse.						
was a waterc	ourse Reac		Yes 🛛	No		IFFES, VO	iume impacting t	_				
If a Watercou	rse was Imp	acted, Descri	be Fully.*						† R	ECEI	VED	1
Describe Caus At the NPG 8					isually n	oticed oil and	d produced wate	er spill	NA	APR 10 OCD AF		
contacted the produced was TCS (backho corrosion who	8-6 the leas assistant f ter. Appro e operator) ere the leak	e operator pi oreman for the ximately 3 ba to assist. Le was at.	ulled up or hat area. arrels of O ease Opera	n location and v The lease opera il were recover ator then called	tor also ed and 1 out for a	called lobo t 5 Produced a crew to rep	d produced waterucking to do rewater were recollace the 2inch ni	covery on vered. As ipples on t	the 5ba sistant I the welli	rrels of Oil a Foreman's a head that wa	and 25 bar Iso called c as the caus	rels of out e of the
regulations all public health of should their op	operators a or the environerations ha ment. In ad	re required to onment. The a ve failed to acd dition, NMOC	report and acceptance dequately in accepta	Vor file certain re of a C-141 report nvestigate and re	elease no rt by the emediate	tifications and NMOCD ma contaminatio	cnowledge and ur d perform correct rked as "Final Re n that pose a thre the operator of re	ive actions port" does at to groun	for rele not relied and water,	ases which neve the opera surface water	nay endang tor of liabi er, human l	er lity nealth
Signature: Ve	ronica	Teel					OIL CONS	ERVA	rion i	DIVISIOI	<u>N</u>	
							·		4		•	
Printed Name:	veronica	l eei			A	pproved by E	invironmental Sp	ecialist: 1	100	1		
Title: Field Ac	imin Suppo	ort			A	pproval Date	4/14/10,	/ Exp	iration D	Pate: <i>NH</i>	<i>t</i>	
E-mail Addres	s: Veronica	.Teel@dvn.c	om		Conditions of Approval: Remediation per OCD Rule & Guidelines, &							
Date: 4/4/1			ne: 575- 74	8-9933	like ap	proval by BFI	M. SUBMIT RFM	FDIATION				
Attach Additi	onal Sheet	s If Necessar	ry			PROPOSAL	NO LATER THAN	<u>/:</u>	<u>.</u>	2RP	775	5

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	NRM2004149681
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party D	evon Energy Produc	ction Company	OGRID ₆₁	137	
Contact Name Amanda T. Davis		Contact Te	elephone 575-74	l8-0176	
Contact email amanda.davis@dvn.com		Incident #	(assigned by OCD)		
	ess 6488 Seven Ri		- '		
		_			
		Location o	of Release So	ource	
atitude 32.316	912		Longitude _	-103.7995	85
		(NAD 83 in decim	nal degrees to 5 decin	nal places)	
Site Name North Pu	re Gold 8 Fed #6		Site Type	 Dil	
Date Release Discove			API# (if app	olicable) 30-015-	
			l .		
Unit Letter Section		Range	Cour	•	
J 8	23S	31E	Edo	dy	
urface Owner: St	ate Federal Ti	ribal Private (Na Nature and I that apply and attach ca	we:Volume of l	Release justification for the	
urface Owner: So	ate Federal Trusterial(s) Released (Select al Volume Release	ribal Private (Na Nature and I that apply and attach ca d (bbls).5	we:Volume of l	Release justification for the Volume Recov	vered (bbls) 0
urface Owner: St	ate Federal Trusterial(s) Released (Select al Volume Release	ribal Private (Na Nature and I that apply and attach ca d (bbls) .5 d (bbls) 5	Volume of I	Release justification for the Volume Recov	vered (bbls) 0
urface Owner: So	ate Federal Trusterial(s) Released (Select al Volume Release Volume Release Is the concentrate	ribal Private (Na Nature and I that apply and attach ca d (bbls) .5 d (bbls) 5 cion of total dissolve	Volume of I	Release justification for the Volume Recov	vered (bbls) 0
urface Owner: So	ate Federal Trusterial(s) Released (Select al Volume Release Volume Release Is the concentrate	Nature and I that apply and attach ca d (bbls) .5 d (bbls) 5 cion of total dissolve water >10,000 mg/l	Volume of I	Release justification for the Volume Recov	vered (bbls) 0
urface Owner: So	ate Federal Trusterial(s) Released (Select al Volume Release Volume Release Is the concentration the produced	Nature and I that apply and attach ca d (bbls) .5 d (bbls) 5 cion of total dissolve water >10,000 mg/l	Volume of I	Release justification for the Volume Recov	vered (bbls) 0 vered (bbls) 0 vered (bbls)
urface Owner: ☐ So M: Crude Oil Produced Water Condensate	ate Federal Trusterial(s) Released (Select al Volume Release Volume Release Is the concentration the produced Volume Release Volume Release Volume Release	Nature and I that apply and attach ca d (bbls) .5 d (bbls) 5 cion of total dissolve water >10,000 mg/l	Volume of I	Release justification for the Volume Recov Volume Recov Volume Recov Volume Recov Volume Recov	vered (bbls) 0 vered (bbls) 0 vered (bbls)
Main and the state of the stat	ate Federal Trusterial(s) Released (Select al Volume Released Volume Released Is the concentration the produced Volume Released Volume Released Volume Released Volume Released Volume/Weight	Nature and I that apply and attach ca d (bbls) .5 d (bbls) 5 cion of total dissolve water >10,000 mg/f d (bbls) d (Mcf) Released (provide u	Volume of I	Release Justification for the Volume Recovery Volume Recovery Volume Recovery Volume Recovery Volume Recovery Volume Recovery	vered (bbls) 0 vered (bbls) 0 vered (bbls) vered (bbls) vered (Mcf)

Received by OCD: 3/8/2024 12:10:44PM State of New Mexico Page 2 Oil Conservation Division

Page 32cof 624	ś
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Incident ID	NRM2004149681
District RP	
Facility ID	
Application ID	

Was this a major	
	If YES, for what reason(s) does the responsible party consider this a major release?
release as defined by 19.15.29.7(A) NMAC?	
15.13.25.7(11) 1444110.	
☐ Yes ☐ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Dagnanga
	Initial Response
The responsible p	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.
■ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
This release was no	ot inside secondary containment.
Per 19 15 29 8 R (4) NM	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation
	IAC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred
has begun, please attach	
has begun, please attach a within a lined containmen I hereby certify that the information of the containment of the containme	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
has begun, please attach a within a lined containment. I hereby certify that the informations all operators are	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger
has begun, please attach a within a lined containment. I hereby certify that the information regulations all operators are public health or the environmentalled to adequately investigation.	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
has begun, please attach a within a lined containment. I hereby certify that the information regulations all operators are public health or the environmatic failed to adequately investigated addition, OCD acceptance of	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred nt area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Trimation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have
has begun, please attach a within a lined containment. I hereby certify that the information regulations all operators are public health or the environmatic failed to adequately investigated addition, OCD acceptance of and/or regulations.	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
has begun, please attach a within a lined containment. I hereby certify that the information regulations all operators are public health or the environmatic failed to adequately investigated addition, OCD acceptance of and/or regulations.	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
has begun, please attach a within a lined containment. I hereby certify that the information regulations all operators are public health or the environmatic failed to adequately investigated addition, OCD acceptance of and/or regulations.	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
has begun, please attach a within a lined containment within a lined containment. I hereby certify that the information regulations all operators are public health or the environment failed to adequately investigated addition, OCD acceptance of and/or regulations. Printed Name: Kendra Kendra	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title: EHS Associate DeHoyos Date: 2/6/2020
has begun, please attach a within a lined containment within a lined containment. I hereby certify that the information regulations all operators are public health or the environment failed to adequately investigated addition, OCD acceptance of and/or regulations. Printed Name: Kendra Kendra	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
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has begun, please attach a within a lined containment within a lined containment of the line of the li	a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation. Transition given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have gate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws Title: EHS Associate DeHoyos Date: 2/6/2020
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Spill Volume(Bbls) Calculator Inputs in blue, Outputs in red			
Co	Contaminated Soil measurement		
Area (squ	are feet)	Depth(inches)	
<u>237</u>	<u>′0</u>	<u>1.075</u>	
Cubic Feet of S	Soil Impacted	<u>212.313</u>	
Barrels of So	il Impacted	<u>37.85</u>	
Soil T	ype	Clay/Sand	
Barrels of Oi 100% Sat	•	<u>5.68</u>	
Saturation	Fluid pre	esent with shovel/backhoe	
Estimated Barrels of Oil Released		5.68	
Free Stand		ing Fluid Only	
Area (square feet)		Depth(inches)	
<u>0</u>		0.000	
Standing fluid		0.000	
Total fluids spilled		<u>5.677</u>	

Instructions

- 1.Input spill area measurements in feet, if less than one foot use converter below.
- 2. Select a soil type from the drop down menu.3. Select a saturation level from the drop down menu.

(For data gathering instructions see appendix tab)

<u>Inches to Feet Converter</u>		
	Inches	Feet
Length	0.15	0.013
Width		0.000
Height		0.000

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Incident ID	nHMP1410424987,
	nRM2004149681
District RP	2RP-2255
Facility ID	30-015-27618
Application ID	

Site Assessment/Characterization

1 nis 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>>55</u> (ft bgs)	
Did this release impact groundwater or surface water?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ No	
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ No	
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ⊠ No	
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No	
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No	
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No	
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ⊠ No	
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No	
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No	
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.		
Characterization Report Checklist: Each of the following items must be included in the report.		

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.

Received by OCD: 3/8/2024 12:10:44 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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	- 180000
Incident ID	nHMP1410424987,
	nRM2004149681
District RP	2RP-2255
Facility ID	30-015-27618
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: <u>Jeff Harvard</u>	Title: President and Manager
Signature:	Date:
email: jharvard@hpcnm.com	Telephone: <u>575-208-7135</u>
OCD O-L-	
OCD Only	
Received by:	Date:

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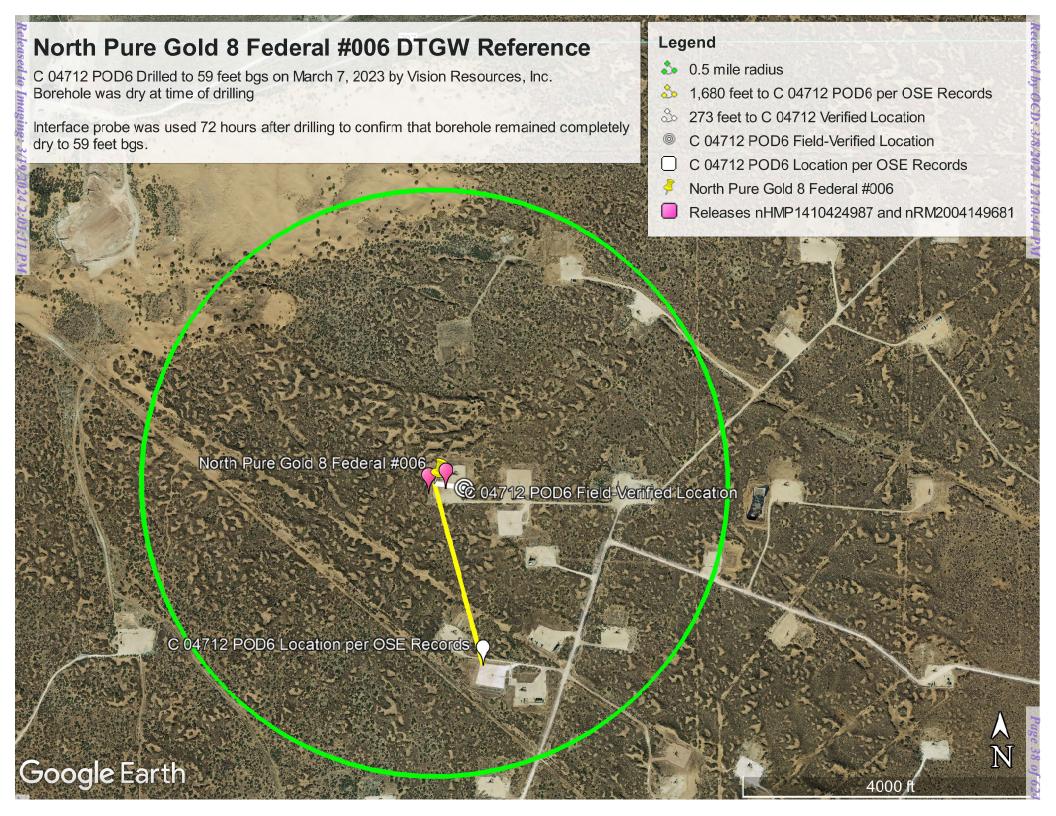
Incident ID	nHMP1410424987,
	nRM2004149681
District RP	2RP-2255
Facility ID	30-015-27618
Application ID	

Closure

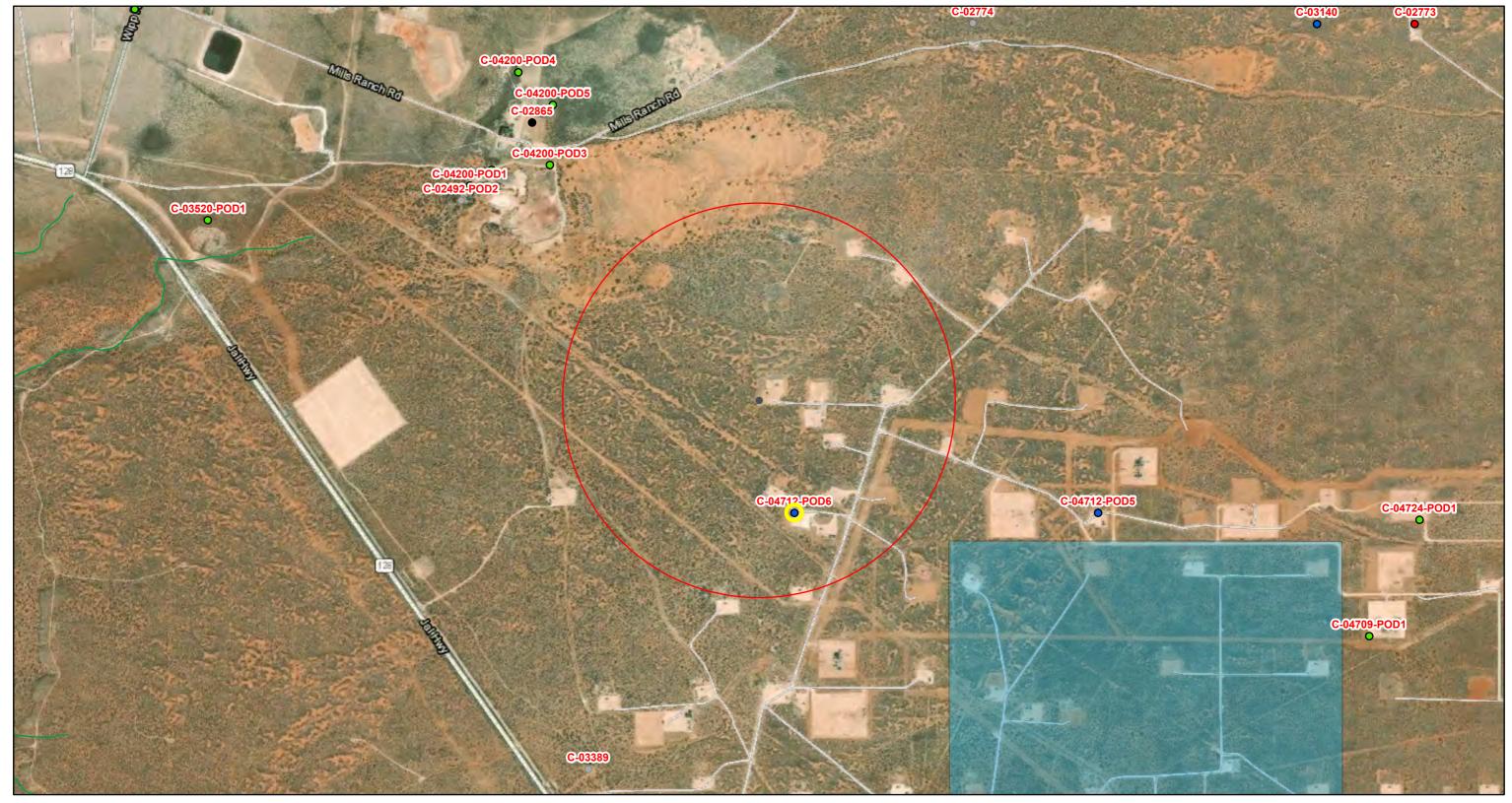
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.		
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		
and regulations all operators are required to report and/or file certa may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of	lations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in OCD when reclamation and re-vegetation are complete. Title: President and Manager	
email: jharvard@hpcnm.com	Telephone: <u>575-208-7135</u>	
	- Telephone.	
OCD Only		
Received by:	Date:	
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.		
Closure Approved by:	Date:	
Printed Name:	Title:	

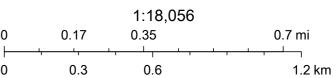
APPENDIX B – Closure Criteria Research Documentation



OSE POD 0.5 mile







Esri, HERE, iPC, U.S. Department of Energy Office of Legacy Management, Esri, HERE, Garmin, iPC, Maxar



Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.) (R=POD has been replaced, O=orphaned, C=the file is

closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

		POD Sub-		Q	Q	Q								,	Water
POD Number	Code	basin	County	64	16	4 S	Sec	Tws	Rng	X	Y	DistanceD	epthWellD	epthWater C	
C 04712 POD6		CUB	ED		3		80	23S	31E	613147	3575740	480	55		
C 04712 POD5		CUB	ED	4	4	3 (09	23S	31E	614393	3575754	1464	55		
<u>C 02492</u>		CUB	ED	4	4	4 (06	23S	31E	612056	3577320*	1465	135	85	50
<u>C 02865</u>		CUB	ED	4	4	4 (06	23S	31E	612056	3577320*	1465	174		
C 02492 POD2		C	ED	3	2	2 (07	23S	31E	611767	3576996	1466	400	125	275
<u>C 02774</u>		CUB	ED	3	1	3 (04	23S	31E	613857	3577745*	1770	1660		
<u>C 02664</u>		CUB	ED	3	3	2 (05	23S	31E	613049	3578138*	1941	4291	354	3937

Average Depth to Water:

188 feet

Minimum Depth:

85 feet

Maximum Depth:

354 feet

Record Count: 7

UTMNAD83 Radius Search (in meters):

Easting (X): 612997 **Northing (Y):** 3576197 **Radius:** 2000

*UTM location was derived from PLSS - see Help

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

5/17/23 11:38 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER



Active & Inactive Points of Diversion

(with Ownership Information)

							(R=POD has been replaced and no longer serves this file,	(quarte	rs are 1=N	VW 2=	NE 3=	SW 4=SE)			
		(acre ft pe	r annum)				C=the file is closed)	(quarte	rs are sma	allest t	o larges	st)	(NAD	83 UTM in meter	s)
	Sub					Well			q q q						
WR File Nbr	basin				POD Number	Tag	Code Grant	Source				-	X	Y	Distance
C 04712	CUB	MON	0 VERTEX RESOURCES	ED	C 04712 POD6	NA			3 3 4	08	23S	31E	613146	3575740	480
<u>C 04200</u>	CUB	EXP	0 JIMMY MILLS GST TRUST	ED	C 04200 POD3	NA			2 2	07	23S	31E	612130	3577147	1286
				ED	C 04200 POD2				2 2	07	23S	31E	611893	3577123	1440
<u>C 04712</u>	CUB	MON	0 VERTEX RESOURCES	ED	C 04712 POD5	NA			4 4 3	09	23S	31E	614392	3575754	1464
<u>C 02492</u>	CUB	COM	105 THE JIMMY MILLS GST TRUST	ED	<u>C 02492</u>			Shallow	4 4 4	06	23S	31E	612056	3577320*	1465
<u>C 02865</u>	CUB	EXP	0 STACY MILLS	ED	<u>C 02865</u>				4 4 4	06	23S	31E	612056	3577320*	1465
<u>C 03668</u>	С	STK	3 J T MILLS 2005 GST TRUST	ED	C 02492 POD2			Shallow	3 2 2	07	23S	31E	611767	3576996	1466
<u>C 04200</u>	CUB	EXP	0 JIMMY MILLS GST TRUST	ED	C 04200 POD5	NA			4 4	06	23S	31E	612138	3577393	1472
				ED	C 04200 POD1				2 2	07	23S	31E	611802	3577058	1472
C 03389	C	STK	3 JIMMY MILLS 2005 GST TRUST	ED	C 03389				1 1 3	17	23S	31E	612316	3574683	1660
<u>C 03394</u>	C	PUB	0 JAMES HAMILTON CONSTRUCTION CO	ED	C 03389				1 1 3	17	23S	31E	612316	3574683	1660
<u>C 04200</u>	CUB	EXP	0 JIMMY MILLS GST TRUST	ED	C 04200 POD4	NA			4 4	06	23S	31E	611996	3577521	1660
<u>C 02774</u>	CUB	MON	0 U.S. DEPT. OF ENERGY - WIPP	ED	<u>C 02774</u>				3 1 3	04	23S	31E	613857	3577745*	1770
C 02664	CUB	MON	0 SANDIA NATIONAL LABORATORIES	ED	C 02664			Shallow	3 3 2	05	23S	31E	613049	3578138*	1941

Record Count: 14

UTMNAD83 Radius Search (in meters):

Easting (X): 612997 **Northing (Y):** 3576197 **Radius:** 2000

Sorted by: Distance

*UTM location was derived from PLSS - see Help

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

5/17/23 11:51 AM ACTIVE & INACTIVE POINTS OF DIVERSION



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

C 04712 POD6 NA

4 08 23S 31E

613147 3575740

Driller License:

1833

Driller Company:

VISION RESOURCES, INC

Driller Name:

JASON MALEY

03/09/2023

Drill Finish Date:

03/09/2023

Plug Date:

03/14/2023

Drill Start Date: Log File Date:

Source:

04/04/2023

PCW Rcv Date:

Estimated Yield:

Pump Type: Casing Size: Pipe Discharge Size: **Depth Well:**

55 feet

Depth Water:

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

5/17/23 11:52 AM

POINT OF DIVERSION SUMMARY



Water Right Summary



WR File Number: C 04712 Subbasin: CUB Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: VERTEX RESOURCES

User: HARVARD PETROLEUM COMPANY LLC

Contact: JUSTIN WARREN

Documents on File

				Sta	atus		From/			
	Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
g <u>et</u>		EXPL	2023-02-21	PMT	APR	C 04712 POD1-6	T	0	0	

(NAD83 LITM in meters)

Current Points of Diversion

		Q (NAD83 CTW III III	cicis)
POD Number C 04712 POD1	Well Tag Sour NA	64Q16Q4Sec Tws Rng X	Y Other Location Desc 70289 SDE
<u>C 04712 POD2</u>	NA	4 4 4 17 23S 32E 623332 357	74331 TOMCAT17
<u>C 04712 POD3</u>	NA	4 1 2 24 23S 31E 619651 357	73877 🌎 TODD24
C 04712 POD4	NA	1 4 3 14 23S 31E 617535 357	74316 🍅 TODD14
<u>C 04712 POD5</u>	NA	4 4 3 09 23S 31E 614393 357	75754 🥟 NPG9
C 04712 POD6	NA	3 3 4 08 23S 31E 613147 353	75740 🦱 NPG8

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5/17/23 12:05 PM WATER RIGHT SUMMARY



Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 02492 POD2

23S 31E

3576996 611767

Driller License: 1509 **Driller Company:** BMS DRILLING COMPANY

Driller Name: ROYBAL, JOE D. (LD)

Drill Start Date: 05/14/2012 **Drill Finish Date:** 05/31/2012 **Plug Date:**

Log File Date:

PCW Rcv Date:

Source: Shallow

Pump Type:

08/27/2013

Pipe Discharge Size:

Estimated Yield: 30 GPM

Casing Size:

6.00

Depth Well: 400 feet

Depth Water:

125 feet

Meter Number:

16563

Meter Make:

MASTERMETER

Meter Serial Number: 53527168

Meter Multiplier:

1.0000

Number of Dials:

Meter Type:

Diversion

Unit of Measure: Usage Multiplier: Gallons **Return Flow Percent:**

Reading Frequency:

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
01/01/2015	2015	39508400	A	RPT	0
04/01/2015	2015	47638000	A	RPT	24.949
04/30/2015	2015	51651000	A	RPT	12.315
05/31/2015	2015	56066600	A	RPT	13.551
07/01/2015	2015	58740300	A	RPT	8.205
08/01/2015	2015	62357200	A	RPT	11.100
08/31/2015	2015	66100700	A	RPT	11.488
10/01/2015	2015	69225500	A	RPT	9.590
12/01/2015	2015	76310300	A	RPT	21.742
01/01/2016	2016	76310300	A	RPT	0
02/01/2016	2016	76310300	A	RPT	0
03/02/2016	2016	78841100	A	RPT	7.767
04/01/2016	2016	80952800	A	RPT	6.481
05/01/2016	2016	82055300	A	RPT	3.383
06/01/2016	2016	85605600	A	RPT	10.895
07/01/2016	2016	88115890	A	RPT	7.704
07/02/2016	2016	22996000	A	RPT	0
08/01/2016	2016	23851600	A	RPT	2.626
10/01/2016	2016	29486000	A	RPT	17.291
11/01/2016	2016	29738900	A	RPT	0.776
12/01/2016	2016	29738900	A	RPT	0
12/31/2016	2016	29738900	Α	RPT	0

2015

112.940

2016 56.923

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

5/10/21 11:50 AM

POINT OF DIVERSION SUMMARY



U.S. Fish and Wildlife Service

National Wetlands Inventory

NPG 8 Fed 6, Intermittent 5365 feet



May 10, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond



Other



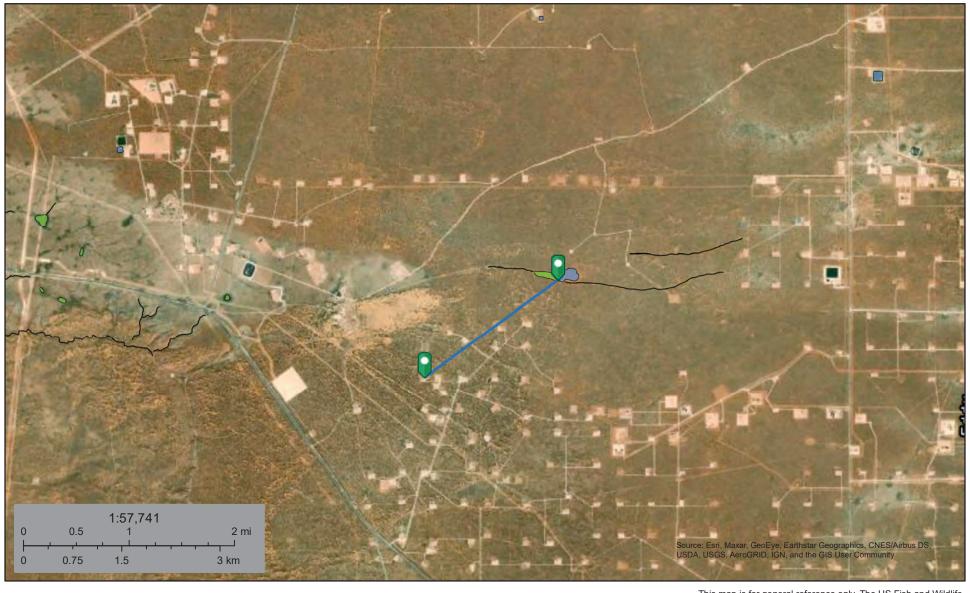
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



U.S. Fish and Wildlife Service

National Wetlands Inventory

NPG 8 Fed 6, Pond 6989 feet



May 10, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond



Other

Riverine



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.





Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag POD Number Q64 Q16 Q4 Sec Tws Rng

4 4 06 23S 31E

X Y

612056 3577320*

7

Driller License: Driller Company:

Driller Name: UNKNOWN

C 02492

Drill Start Date: Drill Finish Date: 12/31/2048 Plug Date:

Log File Date:PCW Rcv Date:Source:ShallowPump Type:Pipe Discharge Size:Estimated Yield:100 GPMCasing Size:6.00Depth Well:135 feetDepth Water:85 feet

Meter Number: 550 Meter Make: MASTER METER

Meter Serial Number:3368776Meter Multiplier:100.0000Number of Dials:6Meter Type:Diversion

Unit of Measure: Gallons Return Flow Percent:

Usage Multiplier: Reading Frequency: Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr Comment	Mtr Amount Online
02/15/1999	1999	122836	A	ms	0
11/17/1999	1999	138743	A	ms	4.882
01/03/2000	1999	154398	A	ms	4.804
04/05/2000	2000	189789	A	RPT	10.861
07/04/2000	2000	228535	A	mb	11.891
10/13/2000	2000	266296	A	RPT	11.588
01/22/2001	2000	295138	A	RPT	8.851
10/10/2001	2001	307651	A	RPT	3.840
10/10/2001	2001	31627	A	RPT	0
01/12/2002	2002	37948	A	tg	1.940
01/10/2003	2002	131852	A	RPT	28.818
04/10/2003	2003	162922	A	ab	9.535
07/09/2003	2003	192583	A	RPT	9.103
07/10/2007	2007	644760	A	RPT	138.768
10/12/2007	2007	676471	A	RPT	9.732
07/07/2008	2008	718642	A	RPT	12.942
08/01/2008	2008	0	A	RPT	0
10/10/2008	2008	25191	A	RPT	7.731
12/31/2008	2008	54476	A	RPT	8.987
07/08/2009	2009	118830	A	RPT	19.750
07/07/2010	2010	246822	A	RPT	39.279
07/27/2010	2010	253644	A	RPT	2.094
07/27/2010	2010	13826	A	RPT	0
10/12/2010	2010	38174	A	RPT	7.472
12/31/2010	2010	60370	A	RPT	6.812

Wifs.ose.state.fi	m.us/nmwrrs/F	ReportDispat	cher	?type=PODG	HTML&name=PodGroundSummaryHTML.jrxml&basin=
01/05/2011	2011	60370	A	RPT	0
04/01/2011	2011	90751	A	RPT	9.324
07/01/2011	2011	123508	A	RPT	10.053
10/02/2011	2011	152261	A	RPT	8.824
01/16/2012	2011	209359	A	RPT	17.523
04/10/2012	2012	273286	A	RPT	19.618
01/10/2013	2012	354860	A	RPT	25.034
01/12/2013	2013	235897	A	RPT	0
04/01/2013	2013	287079	A	RPT	15.707
07/10/2013	2013	320335	A	RPT	10.206
09/30/2013	2013	340673	A	RPT	6.242
12/31/2014	2014	463375	A	RPT	37.656
03/31/2015	2015	482191	A	RPT	5.774
07/01/2015	2015	504065	A	RPT	6.713
10/01/2015	2015	523612	A	RPT	5.999
01/06/2016	2015	541558	A	RPT	5.507
04/01/2016	2016	556397	A	RPT	4.554
06/30/2016	2016	561120	A	RPT	1.449
10/01/2016	2016	593337	A	RPT	9.887
12/31/2016	2016	612355	A	RPT	5.836
**YTD Mete	er Amounts:	Year		Amount	
		1999		9.686	
		2000		43.191	
		2001		3.840	
		2002		30.758	
		2003		18.638	
		2007		148.500	
		2008		29.660	
		2009		19.750	
		2010		55.657	
		2011		45.724	
		2012		44.652	
		2013		32.155	
		2014		37.656	
		2015		23.993	
		2016		21.726	

^{*}UTM location was derived from PLSS - see Help

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5/10/21 11:31 AM

POINT OF DIVERSION SUMMARY



Water Right Summary

WR File Number: C 02492 Subbasin: CUB Cross Reference:

Primary Purpose: COM COMMERCIAL

Primary Status: PMT PERMIT

Total Acres: 0 Subfile: - Header: -

Total Diversion: 105 Cause/Case: -

Owner: THE JIMMY MILLS GST TRUST

Contact: STACY MILLS

Documents on File

	\$	tatus		From/			
Trn # Doc F	File/Act 1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
422943 COWNF	2009-02-02 CHO	F PRC	C 02492	T		0	
305274 COWNF	2004-05-28 CHO	F PRC	C 02492	T	0	0	
211318 SUPPL 20	001-06-20 API	WDR	C 02492 S	T	0	0	
195265 CLW 200	<u>00-11-02</u> API	WDR	C 02492 INTO C-2638	T	0	25	
169733 ADM 199	99-11-18 PM	MTR	C 02492	T	0	105	
208675 DCL 199	<u>6-04-16</u> DCI	PRC	C 02492	T	0	105	

Current Points of Diversion

(NAD83 UTM in meters)

 POD Number
 Well Tag
 Source
 64Q16Q4Sec Tws Rng
 X
 Y
 Other Location Desc

 C 02492
 Shallow 4 4 4 06 23S 31E
 612056 3577320*
 3577320*

An () after northing value indicates UTM location was derived from PLSS - see Help

Place of Use

256 64 Q16 Q4Sec Tws Rng Acres Diversion CU Use Priority Status Other Location Desc 4 06 23S 31E 105 COM DCL

Source

Acres Diversion CU Use Priority Source Description
0 105 COM GW

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5/10/21 11:26 AM

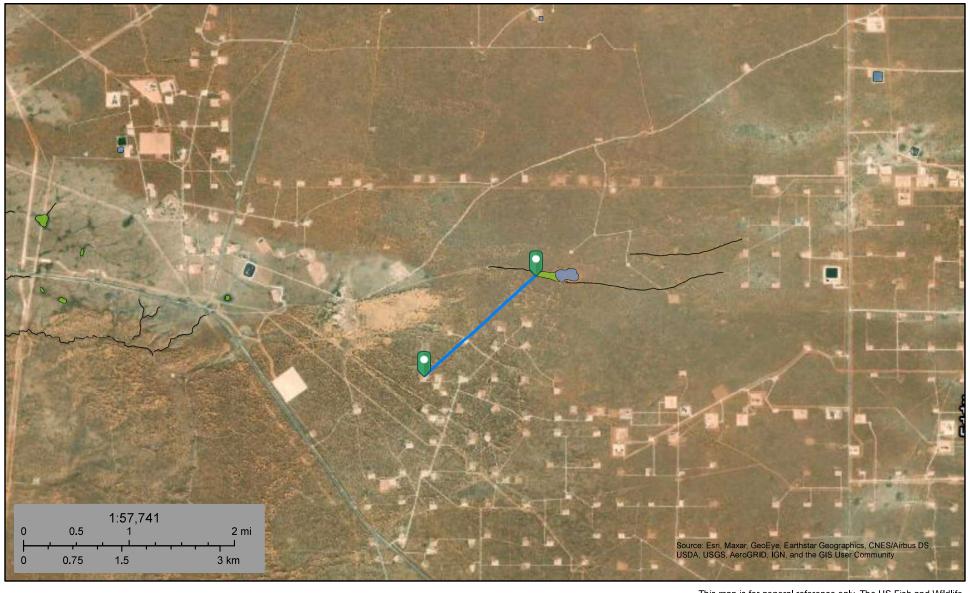
WATER RIGHT SUMMARY

PISH & WILDLIPE SERVICE

U.S. Fish and Wildlife Service

National Wetlands Inventory

NPG 8 Fed 6, Wetland 6370 feet



May 10, 2021

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

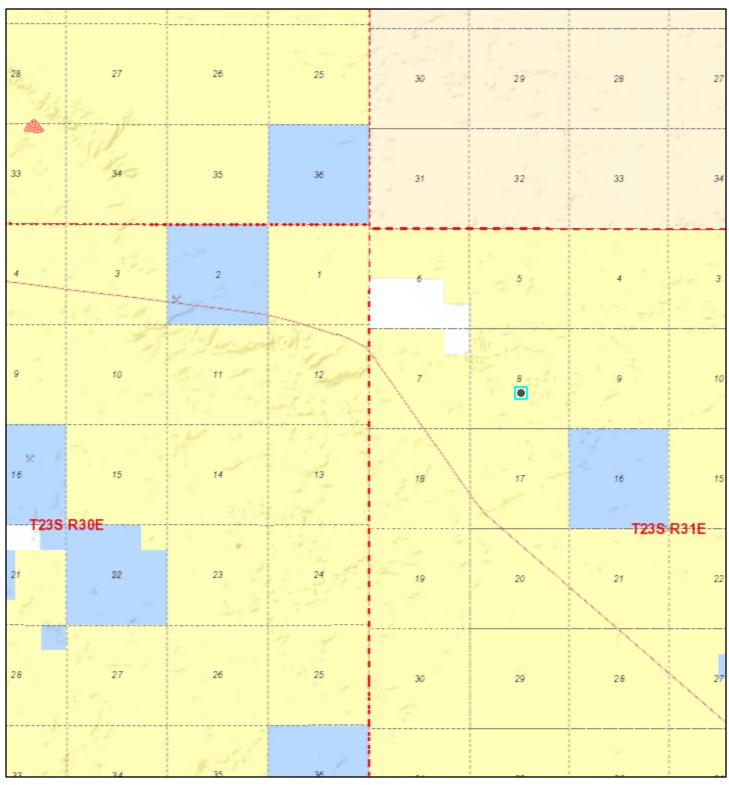


Other



This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Active Mines in New Mexico



2/23/2020, 2:54:43 PM

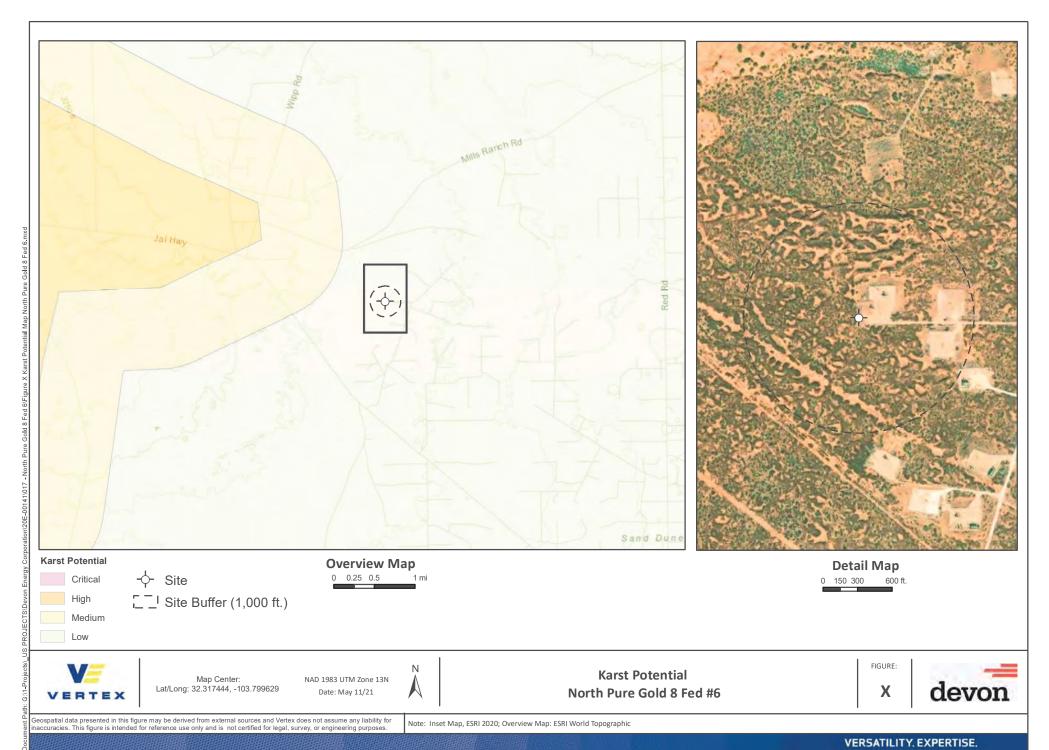
Registered Mines

- Aggregate, Stone etc.
- * Aggregate, Stone etc.

U.S. Bureau of Land Management - New Mexico State Office, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS



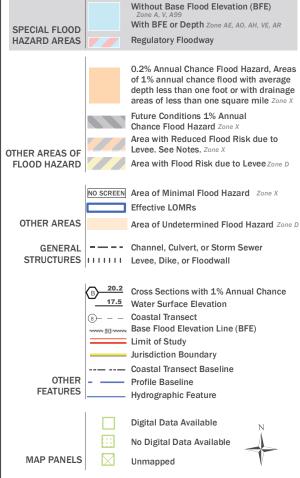
Potash



FEMA

Legend

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

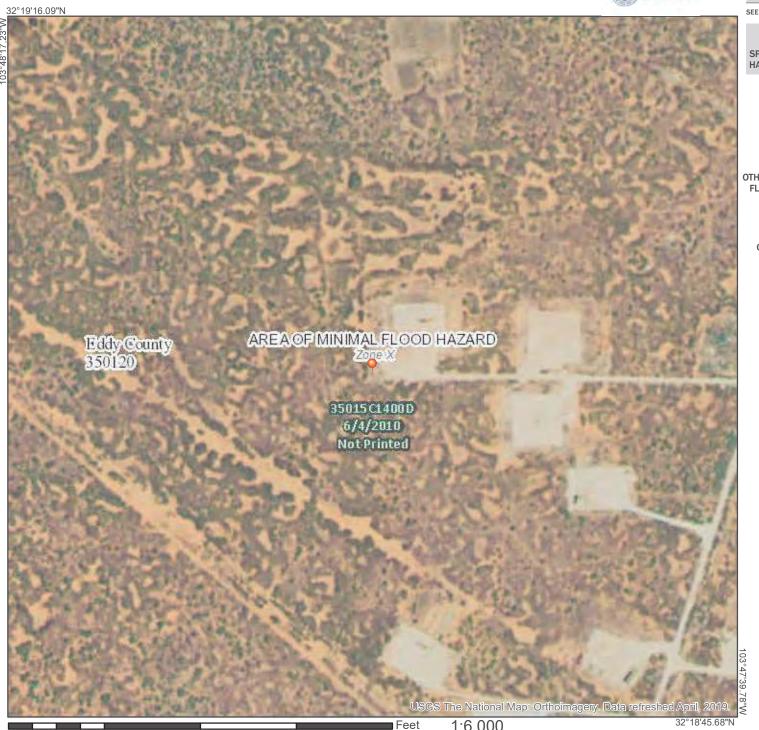


The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

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

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/23/2020 at 5:00:53 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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



2,000



VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2 053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.



MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Unit Polygons

Soil Map Unit Lines

Soil Map Unit Points

Special Point Features

ဖ

Blowout

Borrow Pit

Clay Spot

Closed Depression

Gravel Pit

Gravelly Spot

Landfill Lava Flow

Marsh or swamp

Mine or Quarry

Miscellaneous Water Perennial Water

Rock Outcrop

Saline Spot

Sandy Spot

Severely Eroded Spot

Sinkhole

Sodic Spot

Slide or Slip

å

Spoil Area Stony Spot

Very Stony Spot

Ŷ Wet Spot

Other

Δ

Special Line Features

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

00

Local Roads

Background

Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20.000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 15, Sep 15, 2019

Soil map units are labeled (as space allows) for map scales 1:50.000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Sep 17, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	3.8	100.0%
Totals for Area of Interest		3.8	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Salinity, maximum in profile: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: Deep Sand (R042XC005NM)

Hydric soil rating: No

Description of Berino

Setting

Landform: Fan piedmonts, plains

Landform position (three-dimensional): Riser

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to

high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Very slightly saline to slightly saline (2.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 1.0

Available water storage in profile: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: Loamy Sand (R042XC003NM)

Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent

Hydric soil rating: No

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Ecological site R042XC005NM Deep Sand

Accessed: 05/10/2021

General information

Provisional. A provisional ecological site description has undergone quality control and quality assurance review. It contains a working state and transition model and enough information to identify the ecological site.



Figure 1. Mapped extent

Areas shown in blue indicate the maximum mapped extent of this ecological site. Other ecological sites likely occur within the highlighted areas. It is also possible for this ecological site to occur outside of highlighted areas if detailed soil survey has not been completed or recently updated.

Table 1. Dominant plant species

Tree	Not specified
Shrub	Not specified
Herbaceous	Not specified

Physiographic features

This site occurs on terraces, Piedmonts, dunes fields, or upland plains. Parent material consists of eolian deposits and alluvium derived from sandstone. Slopes range from 0 to 15 percent, usually less than 5 percent. Low, stabilized hummocks or dunes frequently occur. Elevations range from 2,842 to 4,500 feet.

Table 2. Representative physiographic features

Landforms	(1) Dune (2) Parna dune (3) Terrace
Flooding frequency	None
Ponding frequency	None
Elevation	2,842-4,500 ft

Slope	0–15%
Aspect	Aspect is not a significant factor

Climatic features

The average annual precipitation ranges from 8 to 13 inches. Variations of 5 inches, more or less, are common. Over 80 percent of the precipitation falls from April through October. Most of the summer precipitation comes in the form of high intensity – short duration thunderstorms.

Temperatures are characterized by distinct seasonal changes and large annual and diurnal temperature changes. The average annual temperature is 61 degrees with extremes of 25 degrees below zero in the winter to 112 degrees in the summer.

The average frost-free season is 207 to 220 days. The last killing frost is in late March or early April, and the first killing frost is in late October or early November.

Both temperature and moisture favor warm season perennial plant growth. During years of abundant winter and early spring moisture, cool season growth and annual forbs, make up an important component of this site. Strong winds blow from the west from January through June, which accelerates soil drying during a critical period for cool season plant growth.

Climate data was obtained from http://www.wrcc.sage.dri.edu/summary/climsmnm.html web site using 50% probability for freeze-free and frost-free seasons using 28.5 degrees F and 32.5 degrees F respectively.

Table 3. Representative climatic features

Frost-free period (average)	221 days
Freeze-free period (average)	240 days
Precipitation total (average)	13 in

Influencing water features

This site is not influenced from water from wetlands or streams.

Soil features

Soils are deep or very deep. Surface textures are sand loam, fine sand or loamy fine sand, Underlying material textures are loamy fine sand, fine sand, sand or fine sandy loam. Because of the coarse textures and rapid drying of the surface, the soil, if unprotected by plant cover and organic residue, becomes windblown and low hummocks or dunes are formed around shrubs.

Characteristic soils are:

Anthony

Aguena

Kermit

Likes

Pintura

Bluepoint

Table 4. Representative soil features

Surface texture	(1) Sand (2) Fine sand (3) Loamy fine sand
Family particle size	(1) Sandy
Drainage class	Well drained to excessively drained

Permeability class	Moderate to very rapid
Soil depth	60–72 in
Surface fragment cover <=3"	0–5%
Surface fragment cover >3"	0%
Available water capacity (0-40in)	3–5 in
Calcium carbonate equivalent (0-40in)	5–15%
Electrical conductivity (0-40in)	0–4 mmhos/cm
Sodium adsorption ratio (0-40in)	0–2
Soil reaction (1:1 water) (0-40in)	6.6–7.8
Subsurface fragment volume <=3" (Depth not specified)	5–10%
Subsurface fragment volume >3" (Depth not specified)	0%

Ecological dynamics

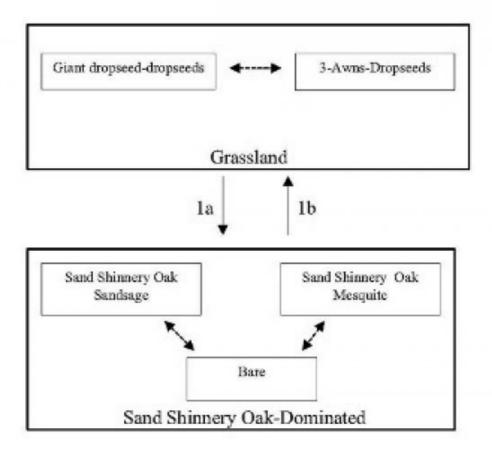
Overview

The Deep Sand site occurs adjacent to and/or intergraded with the Sandhills and Sandy sites (SD-3). The Deep Sand site can be distinguished by slopes less than eight percent (approximately five percent) and textural changes at depths greater than 40 inches. The Deep Sand site has well drained soils with a surface texture of sand or loamy fine sand. The Sandhills site has slopes greater than eight percent and textural depths greater than 60 inches. Conversely, the Sandy site has slopes less than five percent and depths to textural change commonly around 20 inches. The historic plant community of the Deep Sand site is dominated primarily by giant dropseed (*Sporobolus giganteus*) and other dropseeds (*S. flexuosus*, *S. contractus*, *S. cryptandrus*), with scattered shinnery oak (*Quercus havardii*) and soapweed yucca (*Yucca glauca*). Other herbaceous species include threeawns (Aristida spp.), bluestems (*Schizachyrium scoparium* and *Andropogon hallii*), and annual and perennial forbs distributed relative to precipitation occurrences. Bare ground and litter compose a significant proportion of ground cover while grasses are the remainder. Shinnery oak will increase with an associated decrease in dropseed and bluestem abundance possibly due to climatic change, fire suppression, interspecific competition, and excessive grazing. Continued grass cover loss may result in a transition to a shinnery oak dominated state with increases in sand sage (*Artemisia filifolia*) and honey mesquite (*Prosopis glandulosa*). However, brush management may restore the grassland component and reverse the shinnery oak state back toward the historic plant community.

State and transition model

Plant Communities and Transitional Pathways (diagram)

MLRA-42, SD-3, Deep Sand



 a Climate, fire suppression, competition, over grazing

1.b Brush control, Prescribed grazing

Figure 4.

State 1

Historic Climax Plant Community

Community 1.1 Historic Climax Plant Community

State Containing Historic Plant Community

Grassland: The historic plant community is dominated by giant dropseed, other dropseeds, threeawns, and bluestems. Dominant woody plants include shinnery oak and soapweed yucca. Forb abundance and distribution varies and is dependent on annual rainfall. The Deep Sand site typically exists in sandy plains and dunes (Sosebee 1983). Grass dominance stabilizes the potentially erosive sandy soils. Historical fire suppression, however, may have contributed to increased woody plant abundance, which has reduced grass species. Further, drought conditions compounded with excessive grazing likely has driven most grass species out of competition with shrubs which has resulted in a shinnery oak dominated state with sand sage and mesquite (Young et al. 1948).

Diagnosis: Grassland dominated by dropseeds, threeawns, and bluestems. Small shrubs, such as shinnery oak and soapweed yucca, and subshrubs are dispersed throughout the grassland.

Other grasses that could appear on this site would include: flatsedge, almejita signalgrass, big bluestem, Indiangrass, fall witchgrass, hairy grama and red lovegrass

Other shrubs include: fourwing saltbush, mesquite, ephedra and broom snakeweed.

Other forbs include: wooly and scarlet gaura, wooly dalea, phlox heliotrope, scorpionweed, deerstongue, fleabane, nama, hoffmanseggia, lemon beebalm and stickleaf.

Table 5. Annual production by plant type

Plant Type	Low (Lb/Acre)	Representative Value (Lb/Acre)	High (Lb/Acre)
Grass/Grasslike	396	858	1320
Shrub/Vine	108	234	360
Forb	96	208	320
Total	600	1300	2000

Table 6. Ground cover

Tree foliar cover	0%
Shrub/vine/liana foliar cover	0%
Grass/grasslike foliar cover	15-20%
Forb foliar cover	0%
Non-vascular plants	0%
Biological crusts	0%
Litter	35-40%
Surface fragments >0.25" and <=3"	0%
Surface fragments >3"	0%
Bedrock	0%
Water	0%
Bare ground	35-40%

Figure 6. Plant community growth curve (percent production by month). NM2805, HCPC. SD-3 Deep Sand - Warm season plant community.

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

State 2 Shinnery Oak Dominated

Community 2.1 Shinnery Oak Dominated



Shinnery Oak Dominated: This state is dominated by shinnery oak with subdominants of sand sage or mesquite. Bare ground is a significant component in this state as well. shinnery oak is characterized by dense stands in sandy soils; however, as clay percentage increases, shinnery oak decreases. Shinnery oak abundance and distribution increase with disturbances, such as excessive grazing and fire, due to an aggressive rhizome system. As shinnery oak abundance increases, an associated increase of mesquite, sand sage, and soapweed yucca also occurs. Shinnery oak's extensive root system allows the oak to competitively exclude grasses and forbs. Sand sage, however, stabilizes light sandy soils from wind erosion and can co-exist with herbaceous species by protecting them in heavily grazed conditions (Davis and Bonham 1979). Shinnery oak has been found primarily in very deep, excessively drained, and rapidly permeable soils. Shinnery oak is associated with landforms which are gently undulating to rolling uplands, very gently sloping to moderately steep slopes, and upland plains, alluvial fans and valley sideslopes. Shinnery oak and sand sage can be controlled with herbicide if applied in the spring with a subsequent rest from grazing (Herbel et al. 1979, Pettit 1986). In addition, repetitive seasons of goat browsing can also reduce shinnery oak abundance. Patches should be maintained during brush control, however, to prevent erosion and to provide wildlife cover and forage. Further, as shinnery oak and other shrubs increase, bare patches and erosion will increase due to a lack of herbaceous ground cover.

Diagnosis: Shinnery oak dominated with subdominant sand sage, honey mesquite, and soapweed yucca with increasing frequency and size of bare patches.

Transition to Shinnery oak dominated state (1a): The historic plant community begins to shift toward the shinnery oak dominated state as drivers such as climate change, fire suppression, interspecific competition, and excessive grazing contribute to alterations in soil properties and herbaceous cover. Cover loss and surface soil erosion are initial indicators of transition followed by an increase of shrub species abundance and bare patch expansion.

Key indicators of approach to transition:

- · Loss of grass and forb cover
- Surface soil erosion
- Bare patch expansion
- Increased shrub species abundance and composition

Transition to Historic Plant Community (1b): The shinnery oak dominated state may transition back toward the historic plant community as new drivers are introduced such as prescribed grazing, brush control, and discontinued drought conditions.

Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
Grass	/Grasslike				
1	Warm Season			450–585	
	spike dropseed	SPCO4	Sporobolus contractus	450–585	_
	sand dropseed	SPCR	Sporobolus cryptandrus	450–585	_
	mesa dropseed	SPFL2	Sporobolus flexuosus	450–585	_
	giant dropseed	SPGI	Sporobolus giganteus	450–585	_
2	Warm Season			65–104	
	sand bluestem	ANHA	Andropogon hallii	65–104	_
	little bluestem	SCSC	Schizachyrium scoparium	65–104	_
3	Warm Season	-	•	39–91	
	threeawn	ARIST	Aristida	39–91	_
4	Warm Season			13–39	
	thin paspalum	PASE5	Paspalum setaceum	13–39	_
5	Warm Season			13–39	
	black grama	BOER4	Bouteloua eriopoda	13–39	_
6	Warm Season	13–39			
	mat sandbur	CELO3	Cenchrus longispinus	13–39	_
7	Warm Season	13–39			
	Havard's panicgrass	PAHA2	Panicum havardii	13–39	_
8	Warm Season			13–65	
	plains bristlegrass	SEVU2	Setaria vulpiseta	13–65	_
9	Other Annual Grasses			13–65	
	Grass, annual	2GA	Grass, annual	13–65	_
Shrub	/Vine				
10	Shrub			65–130	
	Havard oak	QUHA3	Quercus havardii	65–130	
11	Shrub			13–39	

	sand sagebrush	ARFI2	Artemisia filifolia	13–39	_
12	Shrub	•		65–130	
	yucca	YUCCA	Yucca	65–130	_
13	Shrub			13–39	
	rabbitbrush	CHRYS9	Chrysothamnus	13–39	-
14	Other Shrubs	-		13–39	
	Shrub (>.5m)	2SHRUB	Shrub (>.5m)	13–39	-
Forb		-			
15	Forb			39–91	
	croton	CROTO	Croton	39–91	-
	Indian blanket	GAPU	Gaillardia pulchella	39–91	_
16	Forb			39–91	
	aster	ASTER	Aster	39–91	_
	whitest evening primrose	OEAL	Oenothera albicaulis	39–91	_
	beardtongue	PENST	Penstemon	39–91	ı
17	Forb			39–91	
	touristplant	DIWI2	Dimorphocarpa wislizeni	39–91	ı
	buckwheat	ERIOG	Eriogonum	39–91	_
	sunflower	HELIA3	Helianthus	39–91	-
	spiny false fiddleleaf	HYSP	Hydrolea spinosa	39–91	_
	threadleaf ragwort	SEFLF	Senecio flaccidus var. flaccidus	39–91	_
18	Other Forbs			13–65	
	Forb (herbaceous, not grass nor grass-like)	2FORB	Forb (herbaceous, not grass nor grass-like)	13–65	_

Animal community

This site provides habitat which supports a resident animal population characterized by pronghorn, antelope, black-tailed jackrabbit, spotted ground squirrel, Ord's kangaroo rat, northern grasshopper mouse, southern plains woodrat, badger, meadowlark, roadrunner, white-necked raven, cactus wren, lesser prairie chicken, morning dove, scaled quail, Harris hawk, side blotched lizard, marbled whiptail, Texas horned lizard, western diamondback rattlesnake and ornate box turtle. In the area called Mescalero Sands, there are white-tailed and mule deer.

Hydrological functions

The runoff curve numbers are determined by field investigations using hydraulic cover conditions and hydrologic soil groups.

Hydrologic Interpretations

Soil Series Hydrologic Group

Anthony B

Bluepoint A

Kermit A

Aguena A

Likes A

Pintura A

Recreational uses

This site offers limited recreation potential for hiking, horseback riding, nature observation and photography; game bird, predator, antelope, and deer hunting.

Wood products

This site has no potential for wood products.

Other products

This site is suitable for grazing by all kinds and classes of livestock during all seasons of the year. Shinnery oak is toxic in the late bud or early leaf stage. Shinnery oak will increase, as will sand sagebrush following drought. Changes in the fire return interval have also favored an increase in shrub cover. The dropseeds and bluestem will decrease. This site responds very well to brush manangement and deferment. This site is well suited to a grazing system that rotates the season of use. Nesting habitat for lesser prairie chicken can be improved by providing residual cover that is at least 14 inches high.

Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM 100 - 76 2.0 - 3.8 75 - 51 3.0 - 6.0 50 - 26 5.0 - 10.0 25 - 0 10.1 +

Inventory data references

Other References:

Data collection for this site was done in conjunction with the progressive soil surveys within the Southern Desertic Basins, Plains and Mountains, Major Land Resource Areas of New Mexico. This site has been mapped and correlated with soils in the following soil surveys. Eddy County, Lea County, and Chaves County.

Other references

Literature Cited

Davis, Joseph H., III and Bonham, Charles D. 1979. Interference of sand sagebrush canopy with needleandthread. Journal of Range Management 32(5):384-386.

Herbel, C. H, Steger, R, Gould, W. L. 1974. Managing semidesert ranges of the Southwest. Circular 456. Las Cruces, NM: New Mexico State University, Cooperative Extension Service. 48 p.

Pettit, Russell D. 1986. Sand shinnery oak: control and management. Management Note 8. Lubbock, TX: Texas Tech University, College of Agricultural Sciences, Department of Range and Wildlife Management. 5 p.

Sosebee, Ronald E. 1983. Physiological, phenological, and environmental considerations in brush and weed control. In: McDaniel, Kirk C., ed. Proceedings--brush management symposium; 1983 February 16; Albuquerque, NM. Denver, CO: Society for Range Management: 27-43.

Young, Vernon A., Anderwald, Frank R., McCully, Wayne G. 1948. Brush problems on Texas ranges. Miscellaneous Publication 21. College Station, TX: Texas Agricultural Experiment Station. 19 p.

Contributors

Don Sylvester Quinn Hodgson

Rangeland health reference sheet

Interpreting Indicators of Rangeland Health is a qualitative assessment protocol used to determine ecosystem condition based on benchmark characteristics described in the Reference Sheet. A suite of 17 (or more) indicators are typically considered in an assessment. The ecological site(s) representative of an assessment location must be known prior to applying the protocol and must be verified based on soils and climate. Current plant community cannot be used to identify the ecological site.

Author(s)/participant(s)	
Contact for lead author	
Date	
Approved by	
Approval date	
Composition (Indicators 10 and 12) based on	Annual Production

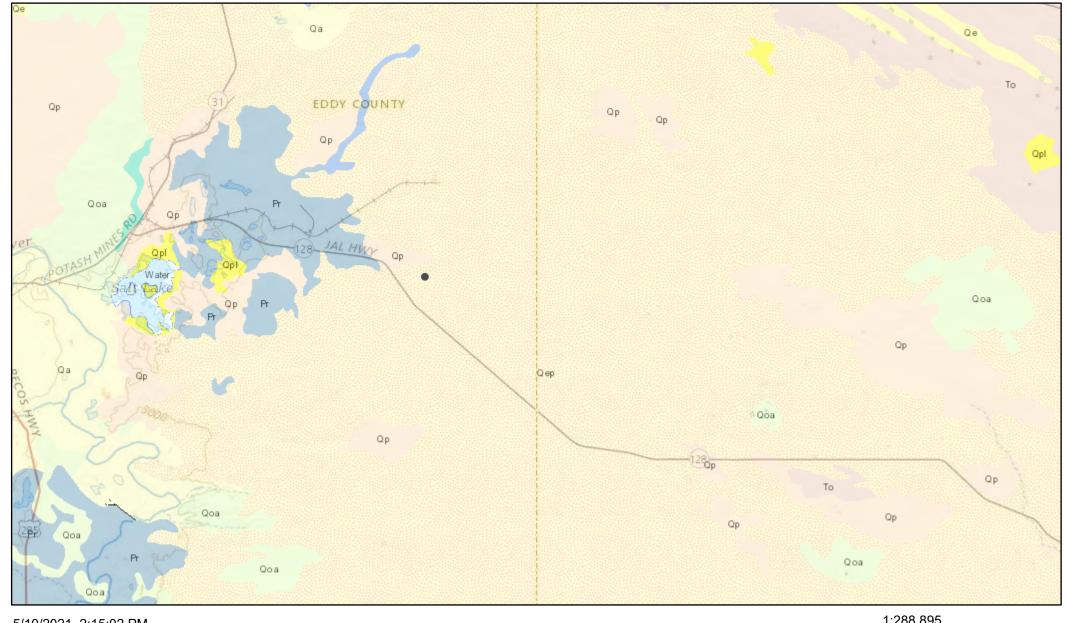
Indicators

inc	licators
1.	Number and extent of rills:
2.	Presence of water flow patterns:
3.	Number and height of erosional pedestals or terracettes:
4.	Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):
5.	Number of gullies and erosion associated with gullies:
6.	Extent of wind scoured, blowouts and/or depositional areas:
7.	Amount of litter movement (describe size and distance expected to travel):
8.	Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):
9.	Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):

10. Effect of community phase composition (relative proportion of different functional groups) and spatial distribution on infiltration and runoff:

1.	Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):
2.	Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):
	Dominant:
	Sub-dominant:
	Other:
	Additional:
3.	Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):
4.	Average percent litter cover (%) and depth (in):
5.	Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):
6.	Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:
7.	Perennial plant reproductive capability:

NPG 8 Fed 6 Geology



5/10/2021, 2:15:02 PM

Faults Fault, Intermittent Shere Zone

Fault, Exposed Fault, Concealed

1:288,895 8 mi 3.25 6.5 13 km

NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S.

APPENDIX C – Daily Field Reports

Arrived at Site

Departed Site

Daily Site Visit Report



Client:	Devon Energy Corporation	Inspection Date:	12/7/2022
Site Location Name:	North Pure Gold 8 Fed #6	Report Run Date:	12/8/2022 1:20 AM
Client Contact Name:	Wes Matthews	API #:	30-015-27618
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			

Field Notes

- 10:55 Completed JSA on arrival. On site to improve horizontal delineation of east release (around wellhead).
- **10:54** Mapped proposed borehole locations for horizontal delineation in Arc Collector. Swept proposed borehole locations with magnetic locator prior to ground disturbance.
- **15:58** Advanced boreholes BH22-31, BH22-32, BH22-33, BH22-34, and BH22-35 west, north, northeast, east, and south of wellhead, respectively. Collected samples at 0 and 2 feet bgs.
- 16:00 Field screening results for samples from BH22-32 exceeded NMOCD strictest criteria for chloride. Advanced BH22-36 north of BH22-32
- **16:01** TPH not tested in field due to supply shortage.

12/7/2022 9:35 AM

12/7/2022 4:45 PM

16:02 Horizontal delineation samples will be submitted to laboratory for analyses.

Next Steps & Recommendations

1 Submit samples to laboratory for analyses.



Site Photos





South of artificial lift facing north.

Viewing Direction: South



North of wellhead facing south. Advanced borehole BH22-36 north of BH22-32 for horizontal delineation.

Viewing Direction: North



South of wellhead facing north.

Viewing Direction: West



East of wellhead facing west.







North of wellhead facing south.

Viewing Direction: Southeast



West of wellhead facing southeast. Advanced BH22-31 west of artificial lift do horizontal delineation.

Viewing Direction: South



North of wellhead facing south. Advanced borehole BH22-32 north of wellhead to attempt horizontal delineation.

Viewing Direction: Southwest



Northeast of wellhead facing southwest.

Advanced borehole BH22-33 east-northeast of BH22-32 for horizontal delineation.





East of wellhead facing west. Advanced borehole BH22-34 south of BH22-33 for horizontal delineation.



South edge north of pad facing north.
Advanced borehole BH22-35 southwest of BH22-34 for horizontal delineation.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	Devon Energy Corporation	Inspection Date:	1/6/2023
Site Location Name:	North Pure Gold 8 Fed #6	Report Run Date:	1/7/2023 1:11 AM
Client Contact Name:	Wes Matthews	API #:	30-015-27618
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of	Times
Arrived at Site	1/6/2023 6:23 AM		
Departed Site	1/6/2023 4:34 PM		

Field Notes

- 8:18 Completed JSA on arrival. On site to continue excavation to 4 feet bgs and start surface scrape of west and south ends of release.
- 8:19 Conducted safety meeting with Halo crew and planned work priorities.
- **8:20** Marked and mapped areas west and south of primary excavation to receive surface scrape.
- **10:24** Halo personnel used hand tools to expose approximately 20 feet of the steel conduit connecting the power pole to the pump jack. Approximately 6 inches of space under the conduit was open when it collapsed under its own weight. The conduit was heavily corroded. The Halo supervisor was informed, and he arranged to have an electrician repair the damage.
- **15:46** Collected samples and guided excavation based on field screening results. Completed excavation to 4 feet bgs with wall excavation sample results below NMOCD strictest criteria. Base sample results at 4 feet bgs were below NMOCD criteria for depth to groundwater between 50 and 100 feet bgs.
- **15:47** Scraped the surface immediately southwest of the pump jack to 1 foot bgs. Base and wall samples of west scrape were below NMOCD strictest criteria.
- **15:57** TJ Robertson, with Buckhorn, arranged for Westcom to disconnect the power from the pump jack and confirm the cable was deenergized. The pump jack is effectively locked out and tagged out until the electrical line is replaced. With permission, Halo removed the damaged conduit and cable. The portion of the excavation formerly occupied by the cable was completed and field screening results were below NMOCD requirements.



15:59 The portion of the caliche to be scraped south of the excavation will be delayed until the spoil pile has been hauled out, as it will interfere with truck traffic.

Next Steps & Recommendations

- 1 Haul current material pile away and complete caliche scrape to 1 foot bgs south of 4 foot excavation.
- 2 Schedule confirmation sampling.



Site Photos

Viewing Direction: West



South of artificial lift facing west. Exposed conduit collapsed under its own weight.

Viewing Direction: Northwest



Southeast edge of excavation facing northwest. Excavation to 4 feet bgs completed.

Viewing Direction: North



Southeast edge of excavation facing north. Excavation to 4 feet bgs completed.

Viewing Direction: West



Southeast edge of excavation facing west. Excavation to 4 feet bgs completed.

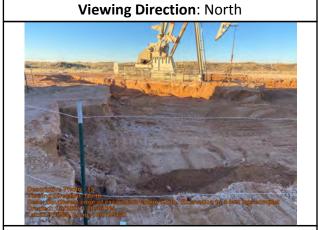




Southwest edge of excavation facing northeast. Excavation to 4 feet bgs completed.



Southwest edge of excavation facing east. Excavation to 4 feet bgs completed.



Southwest edge of excavation facing north. Excavation to 4 feet bgs completed.



Southwest of pump jack facing east. Excavation to 4 feet bgs completed.





Southwest of pump jack facing east. Scrape to 1 foot bgs on west side completed.



North of pump jack facing east. Excavation to 4 feet bgs completed.



North of pump jack facing north. Excavation to 4 feet bgs completed.



North of pump jack facing south. Excavation to 4 feet bgs completed.

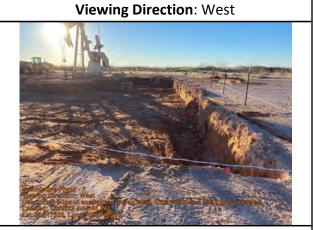




North of pump jack facing south. Excavation to 4 feet bgs completed.



North of pump jack facing east. Excavation to 4 feet bgs completed.



Northeast edge of excavation facing west. Excavation to 4 feet bgs completed.



Northeast edge of excavation facing southwest. Excavation to 4 feet bgs completed.





Northeast edge of excavation facing south. Excavation to 4 feet bgs completed.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	Devon Energy Corporation	Inspection Date:	1/20/2023
Site Location Name:	North Pure Gold 8 Fed #6	Report Run Date:	1/21/2023 1:22 AM
Client Contact Name:	Wes Matthews	API #:	30-015-27618
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			

Field Notes

- 7:00 Completed JSA on arrival. On site to complete confirmation sampling of excavation base.
- 7:07 Swept sampling locations with magnetic locator prior to ground disturbance.

1/20/2023 6:48 AM 1/20/2023 4:33 PM

- **10:58** Collected remaining confirmation samples from base of 4-foot bgs excavation.
- 11:16 Field screening results for confirmation samples were below NMOCD requirements for depth to groundwater between 51 and 100 feet bgs.
- 11:17 Completed collection of confirmation samples from excavation and surface scrapes around wellhead, pending laboratory results.
- 16:32 Used hand auger to collect confirmation samples from historical excavation west of pad at depth. Confirmation samples were 5-point composites from 5 separate boreholes over 200 square foot areas.

Next Steps & Recommendations

1

Arrived at Site

Departed Site



Site Photos

Viewing Direction: North



South of pump jack facing north.

Viewing Direction: East



Northwest of pump jack facing east-northeast.

Viewing Direction: Southeast



North of pump jack facing southeast.

Viewing Direction: West



Northeast corner of 4-foot excavation facing west-southwest.







Northeast corner of 4-foot excavation facing west.



Northeast corner of 4-foot excavation facing south.

Viewing Direction: North



Southeast corner of 4-foot excavation facing north.

Viewing Direction: Northwest



Southeast corner of 4-foot excavation facing northwest.







Southeast corner of 4-foot excavation facing west.



Southeast corner of 4-foot excavation facing southwest.

Viewing Direction: North



West of pad facing north over historical excavation.

Viewing Direction: North



South of south surface scrape facing north.





West of pad facing south over historical excavation.



Southwest corner of 4-foot excavation facing northeast.



Southwest corner of 4-foot excavation facing northwest.



West-southwest of pump jack facing east.





West of pump jack facing southeast.



Northwest of pump jack facing east.



Northwest of pump jack facing northeast.



North of pump jack facing south.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client: **Devon Energy** Inspection Date: 3/7/2023 Corporation North Pure Gold 8 Fed #6 Report Run Date: 3/7/2023 6:30 PM Site Location Name: Wes Matthews 30-015-27618 Client Contact Name: API#: (575) 748-0176 Client Contact Phone #: **Unique Project ID** Project Owner: Project Reference # Project Manager:

	Summary of Times
Arrived at Site	3/7/2023 8:20 AM
Departed Site	3/7/2023 10:00 AM

Field Notes

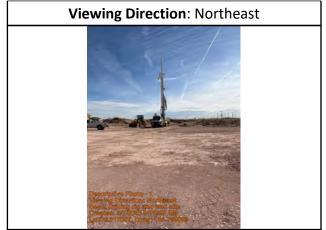
- 9:06 Arrived on site and filled out safety documents. Met with Vision drillers and discussed work plan for the day.
- 9:09 Confirmed their determined drilling location matched coordinates and drilling commenced at approximately 08:55.
- 9:41 Completed drilling at approximately 09:35.
- 9:57 Reading well, site at (32.317160, -103.798615), pipe 2 ft above ground and dry reading at 61 ft at 09:45. Collected GPS point and completed DRF 10:00.

Next Steps & Recommendations

1



Site Photos



Drilling rig and well site



Viewing Direction: Northeast



Well at orange cone, perspective referencing photo.



Daily Site Visit Signature

Inspector: Stephanie McCartyM

Signature:



Devon Energy Inspection Date: 3/10/2023 Client: Corporation Report Run Date: 3/10/2023 5:01 PM Site Location Name: North Pure Gold 8 Fed #6 30-015-27618 Client Contact Name: Wes Matthews API#: (575) 748-0176 Client Contact Phone #: **Unique Project ID** Project Owner: Project Reference # Project Manager:

	Summary of Times
Arrived at Site	3/10/2023 7:55 AM
Departed Site	3/10/2023 10:00 AM

Field Notes

9:35 Arrived on site and completed safety documents- 08:20

Reviewed data from 72 hour prior well reading- 8:50

Collected Solinst model 122 Interface meter and field equipment for reading- 09:00

- 9:39 Prepared equipment and documented for daily field report- 09:30.
- 9:49 Well reading at 09:45 AM, 72 hours after drilling occurred, measured with Solinst model 122. Pipe height above ground is 1 foot and 4 inches. Well depth bottom reading at 60 ft and 6 inches with no water detected. (Total is 59 ft and 2 inches depth of dry well). Coordinates of well location: (32.317160.-103.798615).

Well is 122 feet south east of pump jack at southeast corner of pad.

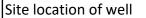
Next Steps & Recommendations

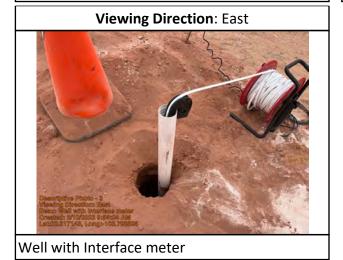
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Site Photos







Viewing Direction: North

Descriptive Plasts -2:
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Desc

Well pipe and borehole with Interface meter



Daily Site Visit Signature

Inspector: Stephanie McCartyM



Client: Devon Energy Inspection Date: 2/4/2020

Corporation

Site Location Name: North Pure Gold 8 Fed #6 Report Run Date: 2/5/2020 2:39 AM

Project Owner: Tom Bynum File (Project) #: 20E-00141

Project Manager: Natalie Gordon API #: 30-015-27618

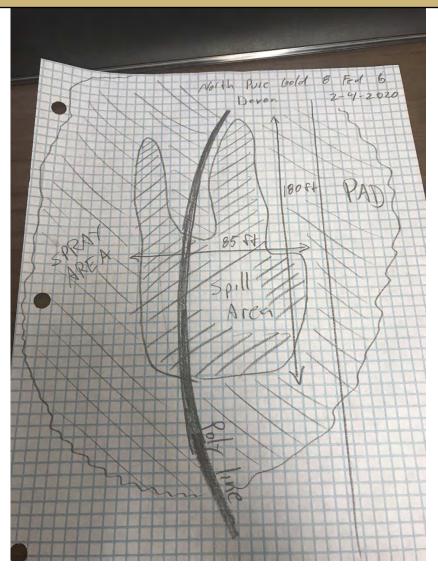
Client Contact Name: Amanda Davis Reference Poly Flowline leak off pad

Client Contact Phone #: (575) 748-0176

Summary of Times				
Left Office	2/4/2020 2:00 PM			
Arrived at Site	2/4/2020 3:35 PM			
Departed Site	2/4/2020 4:39 PM			
Returned to Office	2/4/2020 6:00 PM			



Site Sketch



Run on 2/5/2020 2:39 AM UTC Powered by www.krinkleldar.com Page 2 of 7



Summary of Daily Operations

15:36 Arrive on site.

Complete safety paperwork.

Document spill via DFR.

Characterize spill horizontally.

Complete DFR.

Return to office.

Next Steps & Recommendations

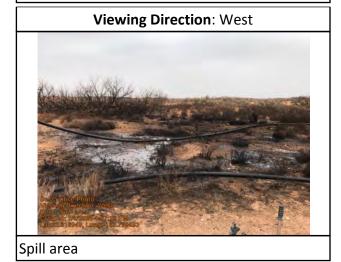
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Site Photos



Standing fluid



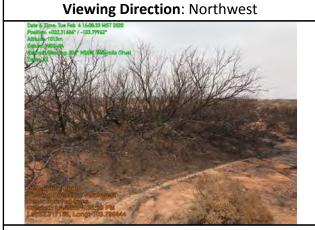
Viewing Direction: South



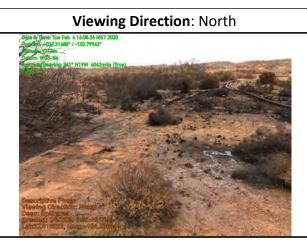
Spill area



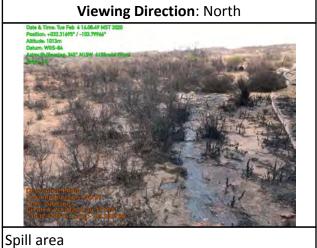








Spill area











Spill area

Spill area





Spill area



Daily Site Visit Signature

Inspector: Austin Harris

Signature:



Client: Devon Energy Inspection Date: 2/2/2021

Corporation

Site Location Name: North Pure Gold 8 Fed #6 Report Run Date: 2/2/2021 11:59 PM

Client Contact Name: Amanda Davis API #: 30-015-27618

Client Contact Phone #: (575) 748-0176

Unique Project ID -North Pure Gold 8 Fed #6 Project Owner: Tom Bynum

Project Reference # Poly Flowline leak off pad Project Manager: Natalie Gordon

Summary of Times

Arrived at Site 2/2/2021 7:40 AM

Departed Site 2/2/2021 3:20 PM

Field Notes

7:42 Arrived on site

Filled out safety paperwork

Began DFR

15:17 Complete excavation tomorrow and prep for treatment

Next Steps & Recommendations

1 Finished up excavation tomorrow



Site Photos



Before excavation



Before excavation



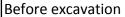
Stock pile after day 1 of excavation



Before excavation









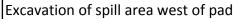
Before excavation















Daily Site Visit Signature

Inspector: John Ramirez

Signature:



2/3/2021 Client: **Devon Energy** Inspection Date: Corporation Report Run Date: North Pure Gold 8 Fed #6 2/3/2021 10:28 PM Site Location Name: Client Contact Name: **Amanda Davis** API#: 30-015-27618 (575) 748-0176 Client Contact Phone #: **Unique Project ID** Project Owner: Project Reference # Project Manager:

Summary of Times					
Arrived at Site	2/3/2021 7:20 AM				
Departed Site	2/3/2021 3:30 PM				

Field Notes

- 7:25 Arrived on site and filled out safety paperwork and began DFR
- 7:42 Begin to haul off some of the containment soil
- 14:20 Continued to excavate spill around to ensure all containment soil is removed and disposed of

Next Steps & Recommendations

1 Continue minor excavation tomorrow, and begin micro blaze treatment of sprayed area



Site Photos



Stock pile



Excavated area



Continue excavation







Excavated fenced area



Daily Site Visit Signature

Inspector: John Ramirez

Signature: Signature



Client: Devon Energy Inspection Date: 2/4/2021

Corporation

Site Location Name: North Pure Gold 8 Fed #6 Report Run Date: 2/4/2021 11:18 PM

Client Contact Name: Amanda Davis API #: 30-015-27618

Client Contact Phone #: (575) 748-0176

Unique Project ID -North Pure Gold 8 Fed #6 Project Owner: Tom Bynum

Project Reference # Poly Flowline leak off pad Project Manager: Natalie Gordon

Summary of Times

Arrived at Site 2/4/2021 7:25 AM

Departed Site 2/4/2021 3:50 PM

Field Notes

7:34 Arrived on site and filled out safety paperwork Began DFR

11:38 Excavating small area to get to clean soil

Next Steps & Recommendations

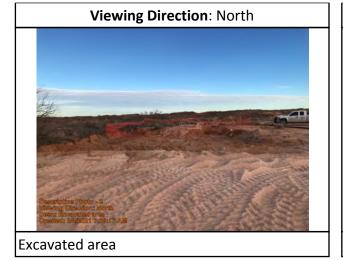
1 Continue excavation tomorrow



Site Photos



Excavated area



Viewing Direction: South

Fenced area



More excavation





Hauling off



Excavation area



Excavation site



Excavation site









Stock pile



Daily Site Visit Signature

Inspector: John Ramirez

Signature: _



VERTEX

Client: Devon Energy Inspection Date: 2/5/2021

Corporation

Site Location Name: North Pure Gold 8 Fed #6 Report Run Date: 2/5/2021 11:41 PM

Client Contact Name: Amanda Davis API #: 30-015-27618

Client Contact Phone #: (575) 748-0176

Unique Project ID -North Pure Gold 8 Fed #6 Project Owner: Tom Bynum

Project Reference # Poly Flowline leak off pad Project Manager: Natalie Gordon

Summary of Times

Arrived at Site 2/5/2021 7:15 AM

Departed Site 2/5/2021 3:45 PM

Field Notes

7:19 Arrived on site

Filled out safety paperwork

12:12 Start micro blaze treatment

Next Steps & Recommendations

1 Submit samples to lab



Site Photos





Excavation and spray area for micro blaze treatment

Viewing Direction: Northwest

Spray area

Viewing Direction: Northwest



Excavation and spray area for micro blaze treatment



Microblaze area





Microblaze area



Microblaze area



Treatment



Spray treatment









Daily Site Visit Signature

Inspector: John Ramirez

Signature:



Client: Devon Energy Inspection Date: 3/4/2021

Corporation

Site Location Name: North Pure Gold 8 Fed #6 Report Run Date: 3/4/2021 11:40 PM

Client Contact Name: Amanda Davis API #: 30-015-27618

Client Contact Phone #: (575) 748-0176

Unique Project ID -North Pure Gold 8 Fed #6 Project Owner: Tom Bynum

Project Reference # Poly Flowline leak off pad Project Manager: Natalie Gordon

Summary of Times

Arrived at Site 3/4/2021 8:23 AM

Departed Site 3/4/2021 4:02 PM

Field Notes

8:24 Arrived on site, began dfr and filled out safety paperwork

16:00 Began backfill at 9am

Next Steps & Recommendations

1



Site Photos



Before backfill



Viewing Direction: South



Before backfill



During backfill





Backfill

Viewing Direction: North

During backfill

Viewing Direction: East

Descriptive Photo 19
Vining Direction 20
Descriptive Photo 19
Vining Direction 20
Descriptive Backfull
Craded 3/4/2021 3:57:38 PM

Viewing Direction: West



Backfill



Daily Site Visit Signature

Inspector: John Ramirez

Signature:

Departed Site

Daily Site Visit Report



Page 1 of 7

Client:	Devon Energy Corporation	Inspection Date:	12/3/2022			
Site Location Name:	North Pure Gold 8 Fed #6	Report Run Date:	12/4/2022 1:44 AM			
Client Contact Name:	Wes Matthews	API #:	30-015-27618			
Client Contact Phone #:	(575) 748-0176					
Unique Project ID		Project Owner:				
Project Reference #		Project Manager:				
Summary of Times						
Arrived at Site	12/3/2022 7:06 AM					

Field Notes

- 7:24 Completed JSA upon arrival. On site to collect soil samples and delineate overspray area around previous excavation.
- 9:52 Walked previous excavation and overspray areas and selected borehole locations within the overspray zone to determine status.
- 8:53 Swept proposed borehole locations with magnetic locator prior to ground disturbance.

12/3/2022 4:47 PM

- 10:25 Advanced boreholes BH22-11, BH22-12, and BH22-13 on west edge of pad and collected samples at 0, 2, and 4 feet bgs.
- **16:14** Advanced boreholes BH22-14, BH22-15, and BH22-16 west of pad and north of original excavation. Collected samples at 0, 2, and 4 feet bgs.
- 16:15 Advanced boreholes BH22-17 and BH22-18 west of pad and west of original excavation. Collected samples at 0, 2, and 4 feet bgs.
- 16:16 Advanced boreholes BH22-19 and BH22-20 west of pad and south of original excavation. Collected samples at 0, 2, and 4 feet bgs.
- **16:44** Field screening results for BH22-11 slightly exceeded NMOCD strictest criteria for chloride. Samples will be sent to laboratory for comparison.
- **16:45** Field screening results for samples from boreholes 12 through 20 were below NMOCD strictest criteria for chloride and TPH. Samples will be sent to the lab.
- 16:46 Filled in boreholes prior to leaving.



Next Steps & Recommendations

1 Submit samples to laboratory for analyses.



Site Photos

Viewing Direction: North



South of artificial lift facing north.

Viewing Direction: East



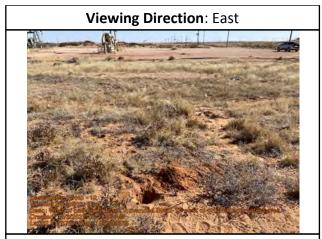
West of pad facing east. Advanced BH22-15 north of original excavation area and south-southwest of BH22-14.







West of pad facing southeast. Advanced BH22-16 north of original excavation area and southwest of BH22-14.



West of pad facing east. Advanced BH22-17 west of original excavation area and southwest of BH22-16.





West of pad facing east. Advanced BH22-18 west of original excavation area and south of BH22-17.

Viewing Direction: North

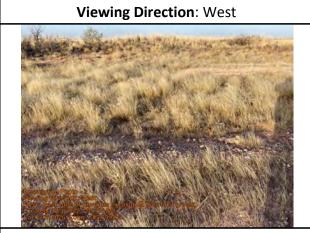


West of pad facing north. Advanced BH22-19 south of original excavation area and southsoutheast of BH22-18.





South edge of previous excavation area facing north.



East edge of previous excavation area facing west.



North edge of previous excavation area facing south.

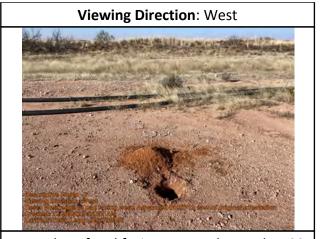


West edge of previous excavation area facing east.





West edge of pad facing west. Advanced BH22-11 east of original excavation area.



West edge of pad facing west. Advanced BH22-12 east of original excavation area and north of BH22-11.



West edge of pad facing east. Advanced BH22-13 east of original excavation area and north of BH22-12.



West of pad facing south. Advanced BH22-14 north of original excavation area and northwest of BH22-13.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	Devon Energy Corporation	Inspection Date:	1/21/2023
Site Location Name:	North Pure Gold 8 Fed #6	Report Run Date:	1/22/2023 1:48 AM
Client Contact Name:	Wes Matthews	API #:	30-015-27618
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
		Summary of '	Times
Arrived at Site	1/21/2023 7:09 AM		
Departed Site	1/21/2023 4:57 PM		

Field Notes

- 7:21 Completed JSA on arrival. On site to collect confirmation samples from historical excavation west of pad.
- 7:21 Swept sampling locations with magnetic locator prior to ground disturbance.
- 7:23 Each sample is a composite of 5 separate boreholes representing a 200 square foot area at the depth indicated.
- 9:39 Advanced 5 boreholes along southeast edge of historical excavation to 3 feet bgs. Samples collected from each borehole were blended into a composite resample of WS21-04.
- 12:57 Advanced 5 boreholes along edge of former 8-foot sidewall in northwest corner of historical excavation. Samples collected from each 8-foot borehole were blended into composite sample WS23-09. Repeated the technique for interior wall sample WS23-12 from 3 to 8 feet bgs.
- 15:33 Advanced 5 boreholes along edge of former 4-foot sidewall in northwest corner of historical excavation. Samples collected from each 4-foot borehole were blended into composite sample WS23-10. Repeated the technique for interior wall sample WS23-11 from 3 to 4 feet bgs.
- **15:36** Advanced two sets of 5 boreholes within northeast portion of historical excavation. Samples collected from the base of each borehole were blended into composite samples BS23-09 and BS23-10. BS23-09 boreholes were 5 feet bgs and BS23-10 boreholes were 4.5 feet bgs.



Next Steps & Recommendations

1 Continue confirmation sampling.



Site Photos

Viewing Direction: North



South of pump jack facing north.

Viewing Direction: South



Northeast corner of historical excavation facing south.

Viewing Direction: South



Northwest corner of historical excavation facing south.

Viewing Direction: South



West of pad on southeast edge of historical excavation facing south. Advanced 5 boreholes to resample WS21-03.







West of pad on northwest end edge of historical excavation facing south. Advanced 5 boreholes to sample WS23-09.



West of pad on northwest end of historical excavation facing south. Advanced 5 boreholes to sample WS23-12.





West of pad on northeast end of historical excavation facing south. Advanced 5 boreholes to sample WS23-10.

Viewing Direction: East



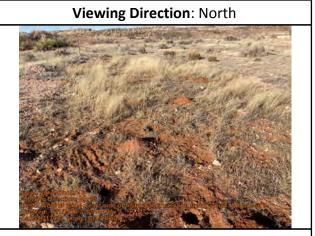
West of pad in historical excavation facing west. Advanced 5 boreholes to sample WS23-11.







West of pad on east side of historical excavation facing north. Advanced 5 boreholes to sample BS23-09.



West of pad on east side of historical excavation facing north. Advanced 5 boreholes to sample BS23-10.





South end of historical excavation facing north.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Client:	Devon Energy Corporation	Inspection Date:	1/22/2023
Site Location Name:	North Pure Gold 8 Fed #6	Report Run Date:	1/23/2023 1:55 AM
Client Contact Name:	Wes Matthews	API#:	30-015-27618
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	

Summary of Times			
Arrived at Site	1/22/2023 8:09 AM		
Departed Site	1/22/2023 5:33 PM		

Field Notes

- **8:14** Completed JSA on arrival. On site to continue confirmation soil sampling historical excavation with hand auger.
- **8:26** Swept sampling points with magnetic locator prior to ground disturbance.
- **10:43** Collected base samples by advancing 5 boreholes to depth and making a composite from the samples collected at the bottom of each borehole.
- 12:12 Collected composite samples of BS23-11 and BS23-12 at 4.5 and 4 feet bgs, respectively.
- **12:56** Collected composite samples of BS23-13 and BS23-14 at 3 feet bgs.
- 12:57 Collected composite samples of BS23-15 at 3 feet bgs.

Next Steps & Recommendations

1 Continue confirmation sampling.



Site Photos





South of pump jack facing north.

Viewing Direction: South



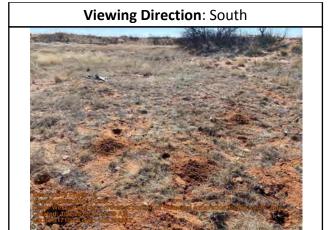
West of pad on northeast portion of historical excavation facing south. Advanced 5 boreholes to collect confirmation samples for BS23-11.



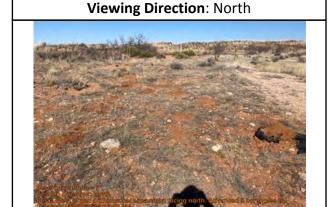




West of pad on historical excavation facing north. Advanced 5 boreholes to collect confirmation samples for BS23-12.



West of pad on northwest portion of historical excavation facing south. Advanced 5 boreholes to collect confirmation samples for BH23-13.



West of pad on historical excavation facing north. Advanced 5 boreholes to collect confirmation samples for BS23-14.

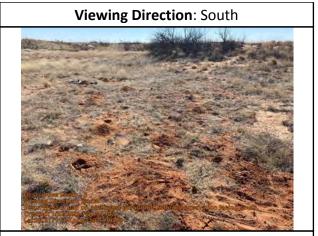


West of pad on historical excavation facing south. Advanced 5 boreholes to collect confirmation samples for BS23-15.





West of pad on historical excavation facing north.



West of pad on northwest portion of historical excavation facing south.





West of pad on northeast portion of historical excavation facing south.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

Arrived at Site

Departed Site

Daily Site Visit Report



Client:	Devon Energy Corporation	Inspection Date:	1/25/2023
Site Location Name:	North Pure Gold 8 Fed #6	Report Run Date:	1/26/2023 12:13 AM
Client Contact Name:	Wes Matthews	API #:	30-015-27618
Client Contact Phone #:	(575) 748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			

Field Notes

- 7:27 Completed JSA on arrival. On site to continue confirmation sampling of historical excavation with boreholes.
- 8:02 Sampling locations swept with magnetic locator prior to ground disturbance.
- **8:05** Confirmation samples collected for each sample point by advancing 5 boreholes to respective depth with hand auger. Boreholes for each sample point were distributed over 200 square feet. Samples were collected at the base of each borehole and blended into a 5-point composite for each sample point.
- 11:14 Collected composite samples BS23-16 and BS23-17 at 2.5 feet bgs on west side of historical excavation.
- **12:43** Collected composite samples for BS23-18 at 2 feet bgs on southwest corner of historical excavation.
- **14:10** Collected composite samples for BS23-19 at 2.5 feet bgs on southwest corner of historical excavation.
- 14:10 Collected composite samples BS23-20 and BS23-21 at 2.5 feet bgs on south side of historical excavation.
- 14:10 Collected composite samples for BS23-22 at 3 feet bgs on south side of historical excavation.
- **15:13** Completed confirmation sampling pending laboratory results.

1/25/2023 7:20 AM

1/25/2023 3:24 PM

15:15 Field screening results below NMOCD strictest criteria for all composite samples.

Next Steps & Recommendations

1 Submit samples to laboratory for analyses.





Site Photos





South of pump jack facing north.

Viewing Direction: West



Southeast corner of historical excavation facing west.

Viewing Direction: North



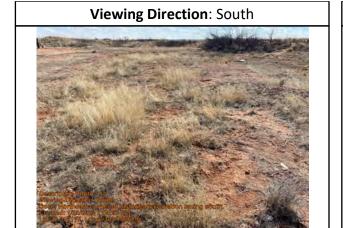
Southeast corner of historical excavation facing north.

Viewing Direction: West

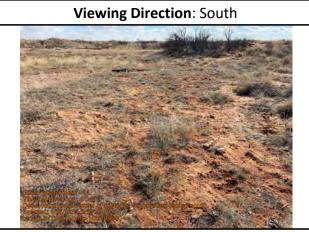


East edge of historical excavation facing west.





Northeast corner of historical excavation facing south.



Northwest corner of historical excavation facing south.

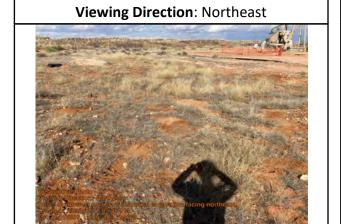


West edge of historical excavation facing east.



Southwest corner of historical excavation facing north.





Southwest corner of historical excavation facing northeast.



Southwest corner of historical excavation facing east.



South edge of historical excavation facing north.



West side of historical excavation facing north. Advanced 5 boreholes for BS23-16.





West side of historical excavation facing north. Advanced 5 boreholes for BS23-17.



Southwest corner of historical excavation facing northeast. Advanced 5 boreholes for BS23-18.



Southeast corner of historical excavation facing northwest. Advanced 5 boreholes for BS23-19.



East edge of historical excavation facing southwest. Advanced 5 boreholes for BS23-20.





South end of historical excavation facing northwest. Advanced 5 boreholes for BS23-21.



East side of historical excavation facing northwest. Advanced 5 boreholes for BS23-22.





Southeast corner of historical excavation facing northwest.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature: ____



Client:	Devon Energy Corporation	Inspection Date:	2/20/2023
Site Location Name:	North Pure Gold 8 Fed #6	Report Run Date:	2/21/2023 1:41 AM
Client Contact Name:	Jim Raley	API #:	30-015-27618
Client Contact Phone #:	575-748-0176		
Unique Project ID		Project Owner:	
Project Reference #		Project Manager:	
Summary of Times			

Field Notes

- **8:32** Completed JSA on arrival. On site to collect confirmation samples from overspray area around historical release and excavation.
- **9:27** Added sample points and remapped sample locations to cover standard NMOCD requirements of one 5-point confirmation sample per 200 square feet.
- 9:27 Swept sampling areas with magnetic locator prior to ground disturbance.
- **16:43** Collected 50 confirmation samples from overspray area.

2/20/2023 7:42 AM

2/20/2023 4:47 PM

Next Steps & Recommendations

1

Arrived at Site

Departed Site



Site Photos





South of pump jack facing north.

Viewing Direction: Southeast



North edge of overspray area facing southeast.

Viewing Direction: South



North edge of overspray area facing south.

Viewing Direction: North



Southeast corner of overspray area facing north.





Southeast corner of overspray area facing northwest.



Southeast corner of overspray area facing west.



South edge of overspray area facing north.



West edge of overspray area facing southeast.





West edge of overspray area facing east.



West edge of overspray area facing northeast.



North edge of overspray area facing southwest.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:



Devon Energy Inspection Date: 2/21/2023 Client: Corporation North Pure Gold 8 Fed #6 Report Run Date: 2/22/2023 1:00 AM Site Location Name: 30-015-27618 Client Contact Name: Wes Matthews API#: (575) 748-0176 Client Contact Phone #: Project Owner: Unique Project ID Project Reference # Project Manager:

Summary of Times			
Arrived at Site	2/21/2023 6:31 AM		
Departed Site	2/21/2023 4:07 PM		

Field Notes

- 6:55 Completed JSA on arrival. On site to resample 5 overspray confirmation sample points and complete vertical delineation.
- 7:54 Swept sampling areas with magnetic locator prior to ground disturbance.
- 13:29 Collected confirmation re-samples and field screened for chloride and TPH. Results were below NMOCD strictest criteria.
- **13:30** Advanced BH22-21 on northwest corner of previous excavation to 9 feet bgs for vertical delineation.
- **13:30** Advanced BH22-22 on east side of previous excavation to 8 feet bgs for vertical delineation.
- **13:31** Advanced BH22-23 on south side of previous excavation to 6 feet bgs for vertical delineation.
- **16:04** Delineation should be completed.

Next Steps & Recommendations

1



Site Photos





South of pump jack facing north.

Viewing Direction: North



South side of historical excavation facing north. Advanced BH23-23 on south side of original release area.

Viewing Direction: Northeast



South edge of overspray area facing northeast.

Viewing Direction: North



South edge of overspray area facing north.

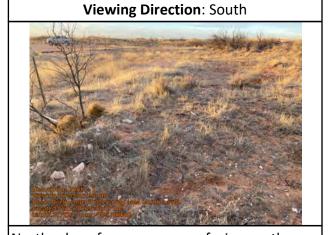




South edge of overspray area facing northwest.



North edge of overspray area facing southwest.



North edge of overspray area facing south.

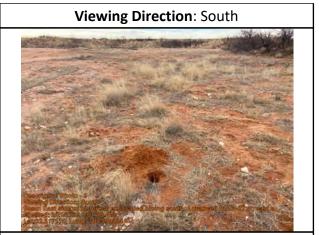


North edge of overspray area facing southeast.





Northwest corner of historical excavation facing south. Advanced BH22-21 at center of former 8-foot excavation.



East side of historical excavation facing south. Advanced BH22-22 on east side of historical excavation.



Daily Site Visit Signature

Inspector: Lakin Pullman

Signature:

APPENDIX D – Notifications



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

NRM2004149681: North Pure Gold 8 Fed #6/48-hr Notification of Confirmatory Sampling

2 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

To: "Enviro, OCD, EMNRD" <OCD.Enviro@state.nm.us>, "CFO_Spill, BLM_NM" <blm_nm_cfo_spill@blm.gov>, Kelsey <KWade@blm.gov>, "Amos, James A" <Jamos@blm.gov>, Lupe.Carra

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at North Pure Gold 8 Fed #6 for the following release:

NRM2004149681 DOR: February 3, 2020.

This work will be completed on behalf of Devon Energy Production Company.

On Friday, February 5, 2021 at approximately 8:00 AM, John Ramirez will be onsite to conduct confirmatory sampling. He can be reached at 575-725-1809. If you need directions to the s or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you, Monica

Monica Peppin

Project Manager in Training

Vertex Resource Group Ltd. 3101 Boyd Drive, Carlsbad, NM 88220

P 575,725,5001 Ext, 711 C 575.361.9880

www.vertex.ca

Confidentiality Notice: This message and any attachments are solely for the intended recipient and may contain confidential or privileged information. If you are not the intended recipient, any disclosure, copying attachment is prohibited. If you have received this communication in error, please notify us by reply email and immediately and permanently delete this message and any attachments. Thank you. %1%

Dhugal Hanton <vertexresourcegroupusa@gmail.com>

To: mpeppin@vertex.ca

- Forwarded message ----

From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Feb 3, 2021 at 9:37 AM

Subject: NRM2004149681: North Pure Gold 8 Fed #6/48-hr Notification of Confirmatory Sampling

To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>, CFO_Spill, BLM_NM <blm_nm_cfo_spill@blm.gov>, Kelsey <KWade@blm.gov>, Amos, James A <Jamos@blm.gov>, <Lupe.Carrasc <wesley.mathews@dvn.com>

All.

Please accept this email as 48-hr notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at North Pure Gold 8 Fed #6 for the following release:

NRM2004149681 DOR: February 3, 2020.

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Project Manager in Training

Vertex Resource Group Ltd. 3101 Boyd Drive, Carlsbad, NM 88220

P 575,725,5001 Ext, 711 C 575.361.9880



Dhugal Hanton <vertexresourcegroupusa@gmail.com>

48 Hour confirmatory sampling notice

7 messages

Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: "Enviro, OCD, EMNRD" < OCD. Enviro@state.nm.us> Tue, Jan 10, 2023 at 10:36 AM

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Friday, January 13 through Wednesday January 18, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

Kent Stallings P.G.

Project Manager

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

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Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov> To: Dhugal Hanton <vertexresourcegroupusa@gmail.com> Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>

Tue, Jan 10, 2023 at 10:45 AM

Dhugal,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

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

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

http://www.emnrd.nm.gov



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Tuesday, January 10, 2023 10:37 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov> Subject: [EXTERNAL] 48 Hour confirmatory sampling notice

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Dhugal Hanton <vertexresourcegroupusa@gmail.com> To: "Enviro, OCD, EMNRD" < OCD. Enviro@emnrd.nm.gov> Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov> Mon, Jan 23, 2023 at 7:07 AM

All,

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

nHMP1410424987

nRM2004149681

Site Name: North Pure Gold 8 Fed 6

This work will be completed on behalf of Devon Energy.

Starting on Wednesday, January 25 through Saturday January 28, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to continue to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

Kent Stallings P.G.

Project Manager

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

P 575,725,5001 C 346.814.1413

www.vertex.ca

On Tue, Jan 10, 2023 at 10:45 AM Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov > wrote:

Dhugal,

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JH

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Environmental Bureau

EMNRD - Oil Conservation Division

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

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

http://www.emnrd.nm.gov



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Tuesday, January 10, 2023 10:37 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov> Subject: [EXTERNAL] 48 Hour confirmatory sampling notice

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

Mon, Jan 23, 2023 at 8:07 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Cc: "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, "Hamlet, Robert, EMNRD"

<Robert.Hamlet@emnrd.nm.gov>

Kent,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

EMNRD - Oil Conservation Division

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

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

http://www.emnrd.nm.gov



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Monday, January 23, 2023 7:07 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov> Cc: Hamlet, Robert, EMNRD < Robert. Hamlet@emnrd.nm.gov> Subject: Re: [EXTERNAL] 48 Hour confirmatory sampling notice All,

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

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nRM2004149681

Site Name: North Pure Gold 8 Fed 6

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Thank you,

Kent Stallings P.G.

Project Manager

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

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From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Tuesday, January 10, 2023 10:37 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov> **Subject:** [EXTERNAL] 48 Hour confirmatory sampling notice

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nRM2004149681

Site Name: North Pure Gold 8 Fed 6

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Starting on Thursday, February 16 through Wednesday February 22, 2023 at approximately 8:00 a.m., Lakin Pullman will be onsite to continue to conduct continuous confirmatory sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions or concerns regarding this notification, please give me a call at 575-361-9880.

Thank you,

Kent Stallings P.G.

Project Manager

Vertex Resource Services Inc. 3101 Boyd Drive,

Carlsbad, NM 88220

On Tue, Jan 10, 2023 at 10:36 AM Dhugal Hanton vertexresourcegroupusa@gmail.com> wrote:

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

Thu, Feb 16, 2023 at 9:21 AM

To: Dhugal Hanton <vertexresourcegroupusa@gmail.com> Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Kent,

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

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Environmental Bureau

EMNRD - Oil Conservation Division

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

http://www.emnrd.nm.gov



From: Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Sent: Tuesday, February 14, 2023 6:22 AM

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

Subject: [EXTERNAL] Re: 48 Hour confirmatory sampling notice

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nRM2004149681

Site Name: North Pure Gold 8 Fed 6

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Dhugal Hanton <vertexresourcegroupusa@gmail.com>

Wed, May 17, 2023 at 6:56 AM

To: "Enviro, OCD, EMNRD" <OCD.Enviro@emnrd.nm.gov>, "CFO Spill, BLM NM" <blm nm cfo spill@blm.gov> Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>, KStallings@vertex.ca

All,

Please accept this email as 48-hour notification that Vertex Resource Services has scheduled confirmatory sampling to be conducted at the North Pure Gold 8 Federal #006 for the following release.

nRM2004149681 DOR: February 3, 2020

This work will be completed on behalf of Devon Energy Production Company, LP.

On Friday, May 19, 2023, Lakin Pullman will be on-site at approximately 07:30 AM to conduct confirmation sampling. He can be reached at 701-495-1722. If you need directions to the site, please do not hesitate to contact him. If you have any questions regarding this notification, please call me at 701-495-1722.

Thank you,

Lakin Pullman

Environmental Specialist

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

C 701.495,1722

On Thu, Feb 16, 2023 at 9:21 AM Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov> wrote:

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JH

Jocelyn Harimon • Environmental Specialist

Environmental Bureau

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Sent: Tuesday, February 14, 2023 6:22 AM

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APPENDIX E – Laboratory Data Reports and Chain of Custody Forms



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

August 09, 2021

John Hurt Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX

RE: North Pure Gold 8 Fed 6 OrderNo.: 2107F55

Dear John Hurt:

Hall Environmental Analysis Laboratory received 14 sample(s) on 7/30/2021 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

CLIENT: Devon Energy

Analytical Report

Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-06 0.5'

Project: North Pure Gold 8 Fed 6 **Collection Date:** 7/28/2021 8:10:00 AM

Lab ID: 2107F55-001 **Matrix:** SOIL **Received Date:** 7/30/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	40	9.5	mg/Kg	1	8/3/2021 2:20:29 AM
Motor Oil Range Organics (MRO)	63	48	mg/Kg	1	8/3/2021 2:20:29 AM
Surr: DNOP	90.2	70-130	%Rec	1	8/3/2021 2:20:29 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2021 1:13:00 AM
Surr: BFB	106	70-130	%Rec	1	8/3/2021 1:13:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	8/3/2021 1:13:00 AM
Toluene	ND	0.050	mg/Kg	1	8/3/2021 1:13:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2021 1:13:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2021 1:13:00 AM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	8/3/2021 1:13:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2700	150	mg/Kg	50	8/5/2021 8:47:54 AM

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

Qualifiers:

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

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

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Lab Order 2107F55

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-06 1'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 8:15:00 AM

 Lab ID:
 2107F55-002
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	8/3/2021 2:44:43 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	8/3/2021 2:44:43 AM
Surr: DNOP	94.1	70-130	%Rec	1	8/3/2021 2:44:43 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2021 1:33:00 AM
Surr: BFB	108	70-130	%Rec	1	8/3/2021 1:33:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	8/3/2021 1:33:00 AM
Toluene	ND	0.049	mg/Kg	1	8/3/2021 1:33:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2021 1:33:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2021 1:33:00 AM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	8/3/2021 1:33:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	560	59	mg/Kg	20	8/5/2021 7:45:52 AM

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

Qualifiers:

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

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

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Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-08 0.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 8:25:00 AM

 Lab ID:
 2107F55-003
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/3/2021 3:08:57 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/3/2021 3:08:57 AM
Surr: DNOP	91.5	70-130	%Rec	1	8/3/2021 3:08:57 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2021 2:32:00 AM
Surr: BFB	104	70-130	%Rec	1	8/3/2021 2:32:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	8/3/2021 2:32:00 AM
Toluene	ND	0.049	mg/Kg	1	8/3/2021 2:32:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2021 2:32:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	8/3/2021 2:32:00 AM
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	8/3/2021 2:32:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1000	60	mg/Kg	20	8/5/2021 7:58:16 AM

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

Qualifiers:

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

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

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Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-08 1'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 8:30:00 AM

 Lab ID:
 2107F55-004
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	8/3/2021 3:33:16 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	8/3/2021 3:33:16 AM
Surr: DNOP	90.0	70-130	%Rec	1	8/3/2021 3:33:16 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2021 2:52:00 AM
Surr: BFB	109	70-130	%Rec	1	8/3/2021 2:52:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	8/3/2021 2:52:00 AM
Toluene	ND	0.050	mg/Kg	1	8/3/2021 2:52:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2021 2:52:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2021 2:52:00 AM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	8/3/2021 2:52:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	360	59	mg/Kg	20	8/5/2021 8:10:40 AM

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

Qualifiers:

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

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

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Lab Order **2107F55**Date Reported: **8/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-07 0.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 8:35:00 AM

 Lab ID:
 2107F55-005
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/3/2021 3:57:28 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	8/3/2021 3:57:28 AM
Surr: DNOP	91.2	70-130	%Rec	1	8/3/2021 3:57:28 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	8/3/2021 3:12:00 AM
Surr: BFB	105	70-130	%Rec	1	8/3/2021 3:12:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	8/3/2021 3:12:00 AM
Toluene	ND	0.048	mg/Kg	1	8/3/2021 3:12:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	8/3/2021 3:12:00 AM
Xylenes, Total	ND	0.096	mg/Kg	1	8/3/2021 3:12:00 AM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	8/3/2021 3:12:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1200	59	mg/Kg	20	8/5/2021 8:23:05 AM

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

Qualifiers:

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

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

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Lab Order **2107F55**Date Reported: **8/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-12 0.5

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 8:40:00 AM

 Lab ID:
 2107F55-006
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.1 mg/Kg 1 8/3/2021 4:21:50 AM Motor Oil Range Organics (MRO) ND 45 mg/Kg 1 8/3/2021 4:21:50 AM Surr: DNOP 89.6 70-130 %Rec 1 8/3/2021 4:21:50 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 8/3/2021 3:32:00 AM 4.9 mg/Kg 1 Surr: BFB 106 70-130 %Rec 1 8/3/2021 3:32:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.025 mg/Kg 8/3/2021 3:32:00 AM 1 Toluene ND 0.049 mg/Kg 1 8/3/2021 3:32:00 AM Ethylbenzene ND 0.049 mg/Kg 1 8/3/2021 3:32:00 AM Xylenes, Total ND 0.098 mg/Kg 1 8/3/2021 3:32:00 AM Surr: 4-Bromofluorobenzene 94.6 70-130 %Rec 1 8/3/2021 3:32:00 AM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride 140 61 8/5/2021 8:35:29 AM ma/Ka 20

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

Qualifiers:

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

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

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Lab Order **2107F55**Date Reported: **8/9/2021**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-15 0.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 8:45:00 AM

 Lab ID:
 2107F55-007
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

		al Units	DF	Date Analyzed
GANICS				Analyst: SB
ND	9.2	mg/Kg	1	8/3/2021 4:46:05 AM
ND	46	mg/Kg	1	8/3/2021 4:46:05 AM
89.8	70-130	%Rec	1	8/3/2021 4:46:05 AM
				Analyst: mb
ND	4.9	mg/Kg	1	8/3/2021 3:52:00 AM
108	70-130	%Rec	1	8/3/2021 3:52:00 AM
				Analyst: mb
ND	0.024	mg/Kg	1	8/3/2021 3:52:00 AM
ND	0.049	mg/Kg	1	8/3/2021 3:52:00 AM
ND	0.049	mg/Kg	1	8/3/2021 3:52:00 AM
ND	0.098	mg/Kg	1	8/3/2021 3:52:00 AM
97.0	70-130	%Rec	1	8/3/2021 3:52:00 AM
				Analyst: VP
ND	60	mg/Kg	20	8/4/2021 3:47:38 PM
	ND ND 89.8 ND 108 ND ND ND ND ND	ND 9.2 ND 46 89.8 70-130 ND 4.9 108 70-130 ND 0.024 ND 0.049 ND 0.049 ND 0.049 ND 0.098 97.0 70-130	ND 9.2 mg/Kg ND 46 mg/Kg 89.8 70-130 %Rec ND 4.9 mg/Kg 108 70-130 %Rec ND 0.024 mg/Kg ND 0.049 mg/Kg ND 0.049 mg/Kg ND 0.098 mg/Kg 97.0 70-130 %Rec	ND 9.2 mg/Kg 1 ND 46 mg/Kg 1 89.8 70-130 %Rec 1 ND 4.9 mg/Kg 1 108 70-130 %Rec 1 ND 0.024 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.049 mg/Kg 1 ND 0.098 mg/Kg 1 97.0 70-130 %Rec 1

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

Qualifiers:

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

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

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Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-19 0.5

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 8:50:00 AM

 Lab ID:
 2107F55-008
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 8/3/2021 5:10:24 AM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 8/3/2021 5:10:24 AM Surr: DNOP 94.5 70-130 %Rec 1 8/3/2021 5:10:24 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 8/3/2021 4:12:00 AM 4.9 mg/Kg 1 Surr: BFB 109 70-130 %Rec 1 8/3/2021 4:12:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 8/3/2021 4:12:00 AM 1 Toluene ND 0.049 mg/Kg 1 8/3/2021 4:12:00 AM Ethylbenzene ND 0.049 mg/Kg 1 8/3/2021 4:12:00 AM Xylenes, Total ND 0.098 mg/Kg 1 8/3/2021 4:12:00 AM Surr: 4-Bromofluorobenzene 94.7 70-130 %Rec 1 8/3/2021 4:12:00 AM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride 77 60 8/4/2021 4:00:02 PM ma/Ka 20

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

Qualifiers:

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

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

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Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-21 0.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 8:55:00 AM

 Lab ID:
 2107F55-009
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 8/3/2021 5:34:37 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/3/2021 5:34:37 AM Surr: DNOP 70-130 %Rec 1 8/3/2021 5:34:37 AM 110 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 8/3/2021 4:32:00 AM 4.9 mg/Kg 1 Surr: BFB 104 70-130 %Rec 1 8/3/2021 4:32:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.025 mg/Kg 8/3/2021 4:32:00 AM 1 Toluene ND 0.049 mg/Kg 1 8/3/2021 4:32:00 AM Ethylbenzene ND 0.049 mg/Kg 1 8/3/2021 4:32:00 AM Xylenes, Total ND 0.099 mg/Kg 1 8/3/2021 4:32:00 AM Surr: 4-Bromofluorobenzene 94.0 70-130 %Rec 1 8/3/2021 4:32:00 AM Analyst: VP **EPA METHOD 300.0: ANIONS** Chloride ND 60 8/4/2021 4:12:27 PM ma/Ka 20

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

Qualifiers:

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

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

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CLIENT: Devon Energy

Analytical Report

Lab Order **2107F55**

Date Reported: 8/9/2021

8/4/2021 4:24:52 PM

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-22 0.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 9:00:00 AM

 Lab ID:
 2107F55-010
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 8/3/2021 5:58:52 AM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 8/3/2021 5:58:52 AM Surr: DNOP 94.0 70-130 %Rec 1 8/3/2021 5:58:52 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: mb Gasoline Range Organics (GRO) ND 8/3/2021 4:52:00 AM 4.9 mg/Kg 1 Surr: BFB 106 70-130 %Rec 1 8/3/2021 4:52:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: mb Benzene ND 0.024 mg/Kg 8/3/2021 4:52:00 AM 1 Toluene ND 0.049 mg/Kg 1 8/3/2021 4:52:00 AM Ethylbenzene ND 0.049 mg/Kg 1 8/3/2021 4:52:00 AM Xylenes, Total ND 0.097 mg/Kg 1 8/3/2021 4:52:00 AM Surr: 4-Bromofluorobenzene 94.0 70-130 %Rec 1 8/3/2021 4:52:00 AM Analyst: VP **EPA METHOD 300.0: ANIONS**

ND

60

ma/Ka

20

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

Qualifiers:

Chloride

- 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-23 0.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 9:05:00 AM

 Lab ID:
 2107F55-011
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	8/3/2021 6:23:05 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/3/2021 6:23:05 AM
Surr: DNOP	103	70-130	%Rec	1	8/3/2021 6:23:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2021 5:12:00 AM
Surr: BFB	106	70-130	%Rec	1	8/3/2021 5:12:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	8/3/2021 5:12:00 AM
Toluene	ND	0.049	mg/Kg	1	8/3/2021 5:12:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2021 5:12:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	8/3/2021 5:12:00 AM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	8/3/2021 5:12:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	8/4/2021 4:37:16 PM

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

Qualifiers:

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

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

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Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-24

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 9:10:00 AM

 Lab ID:
 2107F55-012
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	8/3/2021 7:11:47 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/3/2021 7:11:47 AM
Surr: DNOP	106	70-130	%Rec	1	8/3/2021 7:11:47 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	8/3/2021 5:32:00 AM
Surr: BFB	103	70-130	%Rec	1	8/3/2021 5:32:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.025	mg/Kg	1	8/3/2021 5:32:00 AM
Toluene	ND	0.050	mg/Kg	1	8/3/2021 5:32:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	8/3/2021 5:32:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	8/3/2021 5:32:00 AM
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	8/3/2021 5:32:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	8/4/2021 4:49:41 PM

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

Qualifiers:

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

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

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CLIENT: Devon Energy

Analytical Report

Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: BH21-25 0.5'

Project: North Pure Gold 8 Fed 6 **Collection Date:** 7/28/2021 9:15:00 AM

Lab ID: 2107F55-013 **Matrix:** SOIL **Received Date:** 7/30/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	8/4/2021 2:24:27 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	8/4/2021 2:24:27 PM
Surr: DNOP	88.0	70-130	%Rec	1	8/4/2021 2:24:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: mb
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2021 6:32:00 AM
Surr: BFB	98.0	70-130	%Rec	1	8/3/2021 6:32:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: mb
Benzene	ND	0.024	mg/Kg	1	8/3/2021 6:32:00 AM
Toluene	ND	0.049	mg/Kg	1	8/3/2021 6:32:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2021 6:32:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	8/3/2021 6:32:00 AM
Surr: 4-Bromofluorobenzene	86.8	70-130	%Rec	1	8/3/2021 6:32:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	1700	60	mg/Kg	20	8/4/2021 5:26:54 PM

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

Qualifiers:

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

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

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Lab Order **2107F55**

Date Reported: 8/9/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-30 0.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 7/28/2021 9:20:00 AM

 Lab ID:
 2107F55-014
 Matrix: SOIL
 Received Date: 7/30/2021 8:00:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	8/4/2021 3:01:22 PM
Motor Oil Range Organics (MRO)	ND	51	mg/Kg	1	8/4/2021 3:01:22 PM
Surr: DNOP	95.4	70-130	%Rec	1	8/4/2021 3:01:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	8/3/2021 2:29:54 PM
Surr: BFB	119	70-130	%Rec	1	8/3/2021 2:29:54 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	8/3/2021 2:29:54 PM
Toluene	ND	0.049	mg/Kg	1	8/3/2021 2:29:54 PM
Ethylbenzene	ND	0.049	mg/Kg	1	8/3/2021 2:29:54 PM
Xylenes, Total	ND	0.097	mg/Kg	1	8/3/2021 2:29:54 PM
Surr: 4-Bromofluorobenzene	108	70-130	%Rec	1	8/3/2021 2:29:54 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	ND	60	mg/Kg	20	8/4/2021 5:39:18 PM

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

Qualifiers:

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

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107F55**

09-Aug-21

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-61774 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 61774 RunNo: 80305

Prep Date: 8/4/2021 Analysis Date: 8/4/2021 SeqNo: 2829495 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-61774 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61774 RunNo: 80305

Prep Date: **8/4/2021** Analysis Date: **8/4/2021** SeqNo: **2829496** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.7 90 110

Sample ID: MB-61769 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: **PBS** Batch ID: **61769** RunNo: **80305**

Prep Date: **8/4/2021** Analysis Date: **8/4/2021** SeqNo: **2829527** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-61769 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 61769 RunNo: 80305

Prep Date: 8/4/2021 Analysis Date: 8/4/2021 SeqNo: 2829528 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 96.9 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107F55**

09-Aug-21

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: LCS-61692 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 61692 RunNo: 80244

Prep Date: 7/31/2021 Analysis Date: 8/2/2021 SeqNo: 2827630 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD Analyte Result PQL LowLimit HighLimit **RPDLimit** Qual Diesel Range Organics (DRO) 57 10 50.00 Λ 114 68.9 141 Surr: DNOP 5.1 5.000 103 130

Sample ID: MB-61692 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 61692 RunNo: 80244

Prep Date: 7/31/2021 Analysis Date: 8/2/2021 SeqNo: 2827632 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO)ND10Motor Oil Range Organics (MRO)ND50

Surr: DNOP 9.3 10.00 93.5 70 130

Sample ID: MB-61741 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 61741 RunNo: 80306

Prep Date: 8/3/2021 Analysis Date: 8/4/2021 SeqNo: 2829078 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.2 10.00 92.2 70 130

Sample ID: LCS-61741 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 61741 RunNo: 80306

Prep Date: 8/3/2021 Analysis Date: 8/4/2021 SeqNo: 2829100 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.7 5.000 93.6 70 130

Sample ID: MB-61711 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 61711 RunNo: 80306

Prep Date: **8/2/2021** Analysis Date: **8/4/2021** SeqNo: **2829163** 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
 8.3
 10.00
 83.4
 70
 130

Sample ID: LCS-61711 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 61711 RunNo: 80306

Prep Date: 8/2/2021 Analysis Date: 8/4/2021 SeqNo: 2829164 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107F55 09-Aug-21**

Client: Devon Energy

Sample ID: 2107F55-013AMSD

Project: North Pure Gold 8 Fed 6

Sample ID: LCS-61711 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 61711 RunNo: 80306

Prep Date: 8/2/2021 Analysis Date: 8/4/2021 SeqNo: 2829164 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result PQL LowLimit Qual Diesel Range Organics (DRO) 10 0 40 50.00 80.3 68.9 141 Surr: DNOP 4.0 5.000 79.8 130

Sample ID: 2107F55-013AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BH21-25 0.5'** Batch ID: **61711** RunNo: **80306**

Prep Date: 8/2/2021 Analysis Date: 8/4/2021 SeqNo: 2830515 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 38 9.4 46.95 7.626 65.1 15 184

TestCode: EPA Method 8015M/D: Diesel Range Organics

 Surr: DNOP
 4.2
 4.695
 88.7
 70
 130

Client ID: BH21-25 0.5' Batch ID: 61711 RunNo: 80306

SampType: MSD

Prep Date: 8/2/2021 Analysis Date: 8/4/2021 SeqNo: 2830516 Units: mg/Kg

SPK value SPK Ref Val %RPD **RPDLimit** Result %REC HighLimit Qual Analyte PQL LowLimit Diesel Range Organics (DRO) 41 9.3 46.55 7.626 71.6 15 184 6.98 23.9 Surr: DNOP 4.3 4.655 91.8 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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OC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2107F55 09-Aug-21

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: mb-61690 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 61690 RunNo: 80254

Prep Date: 7/31/2021 Analysis Date: 8/2/2021 SeqNo: 2827274 Units: mq/Kq

SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 960 1000 95.8 70 130

Sample ID: Ics-61690 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61690 RunNo: 80254

Prep Date: 7/31/2021 Units: mg/Kg Analysis Date: 8/2/2021 SeqNo: 2827276

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 28 5.0 25.00 O 78.6 131 Surr: BFB

107

70

130

Sample ID: mb-61694 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: PBS Batch ID: 61694 RunNo: 80282

1100

Prep Date: 7/31/2021 Analysis Date: 8/3/2021 SeqNo: 2828195 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1100 1000 114 70 130

Sample ID: Ics-61694 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 61694 RunNo: 80282

Prep Date: 7/31/2021 Analysis Date: 8/3/2021 SeqNo: 2828196 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 28 0 114 5.0 25.00 78.6 131

Surr: BFB 1300 1000 126 70 130

Sample ID: 2107f55-014ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH21-30 0.5' Batch ID: 61694 RunNo: 80282

Prep Date: 7/31/2021 Analysis Date: 8/3/2021 SeqNo: 2828198 Units: mq/Kq

Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 0 61.3 4.9 24.56 108 114 Surr: BFB 1300 982.3 130 70 130

TestCode: EPA Method 8015D: Gasoline Range Sample ID: 2107f55-014amsd SampType: MSD

Client ID: BH21-30 0.5' Batch ID: 61694 RunNo: 80282

Prep Date: 7/31/2021 Units: mg/Kg Analysis Date: 8/3/2021 SeqNo: 2828199

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 18 of 20

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **2107F55**

09-Aug-21

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: 2107f55-014amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH21-30 0.5' Batch ID: 61694 RunNo: 80282

Prep Date: 7/31/2021 Analysis Date: 8/3/2021 SeqNo: 2828199 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 0 61.3 2.90 20 26 4.8 23.85 108 114 Surr: BFB 1200 954.2 127 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

0.84

WO#: **2107F55**

09-Aug-21

Client: Devon Energy

Surr: 4-Bromofluorobenzene

Project: North Pure Gold 8 Fed 6

Sample ID: mb-61690	SampT	ype: ME	MBLK TestCode: EPA Method 8				8021B: Volatiles				
Client ID: PBS	Batch ID: 61690 RunNo: 80254										
Prep Date: 7/31/2021 Analysis Date: 8/2/2021 SeqNo: 2827364						Date: 8/2/2021 SeqNo: 2827364 U					
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									

84.2

70

130

1.000

Sample ID: Ics-61690	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 61 0	690	F	RunNo: 80	0254				
Prep Date: 7/31/2021	Analysis D	Analysis Date: 8/2/2021 SeqNo: 2827366 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.8	80	120			
Toluene	0.98	0.050	1.000	0	97.5	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.7	80	120			
Xylenes, Total	3.0	0.10	3.000	0	99.1	80	120			
Surr: 4-Bromofluorobenzene	0.85		1.000		85.0	70	130			

Sample ID: mb-61694	Samp1	уре: М Е	BLK	Tes						
Client ID: PBS	Batcl	h ID: 61	694	F	RunNo: 8					
Prep Date: 7/31/2021	Analysis D	Date: 8/	3/2021	\$	SeqNo: 2	828239	Units: mg/k			
Analyte	Result	PQL SPK value		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			

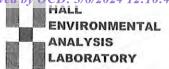
Sample ID: LCS-61694	SampT	Гуре: LC	S	TestCode: EPA Method 8021B: Volatiles									
Client ID: LCSS	Batcl	h ID: 61 6	694	F	RunNo: 8	0282							
Prep Date: 7/31/2021	9	SeqNo: 2	828240	Units: mg/Kg									
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.91	0.025	1.000	0	91.0	80	120						
Toluene	0.92	0.050	1.000	0	91.9	80	120						
Ethylbenzene	0.92	0.050	1.000	0	91.6	80	120						
Xylenes, Total	2.8	0.10	3.000	0	92.1	80	120						
Surr: 4-Bromofluorobenzene	1.1		1.000		108	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 Quanitative Limit

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque. NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: **Devon Energy** Work Order Number: 2107F55 RcptNo: 1 Received By: Sean Livingston 7/30/2021 8:00:00 AM Completed By: Sean Livingston 7/30/2021 9:26:57 AM Reviewed By: JR7/30/21 Chain of Custody 1. Is Chain of Custody complete? Yes V No T Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No | NA 🗌 No 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes V NA 🗌 Sample(s) in proper container(s)? Yes V No 🗔 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 🗌 7. Are samples (except VOA and ONG) properly preserved? No 🗌 8. Was preservative added to bottles? No V Yes _ NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA V Yes 10. Were any sample containers received broken? Yes _ No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No L for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? No 🗌 Yes V 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? V No 🗌 Checked by: SPA 7.30 . 7(14. Were all holding times able to be met? Yes V No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions:

16. Additional remarks:

17. Cooler Information

Coolei IIIIOII	Hation					
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.5	Good				
2	4.3	Good				

HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com kins NE - Albuquerque, NM 87109 345,3975		4107					100	S) 07S8 Total Co						Pag	e 216 o
HALL ENV ANALYSIS	₩ .	1el. 505-345-3975 Fax 505-345- Analysis Request	S/s	S PCE	(1.4() 728)	ides/ d 50 10 o tals	estici letho y 83 s Me	7 РН:80 8081 РА РАНЗ Б РАНЗ Б РАНЗ Б РАНЗ Б В СВО (V						arks:	
Urn-Around Time: 5 de7 ☐ Standard ☐ Rush Project Name:	Both him Cold & Ford 6	215-02316	anager:	Non Schafer	Sampler:)//	olers: 2	(including CF): 1.5 £ 3 = 1.5 (°C)	Container Preservative HEAL No.	, CE 013) / OIH				Received by: Via: , Date Time Remarks:	Received by: Via: Date Time
Client: Row	Mailing Address: On P.P.	Phone #:	email or Fax#; ⁽⁾ QA/QC Package:	☐ Level 4 (Full Validation)	☐ Az Compliance			Date Time Matrix Sample Name T	738 9:15 Soil BHA1-25 0,5	[9:30] BHA1 30 0.5				Date: Time: Relinquished by: Re	Date: Time: Relinquished by: Re



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

December 21, 2022

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

FAX:

RE: North Pure Gold 8 Federal 006 East OrderNo.: 2212582

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 13 sample(s) on 12/9/2022 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. **Client Sample ID:** BH22-31 0'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 10:55:00 AM

 Lab ID:
 2212582-001
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/16/2022 7:21:50 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/16/2022 7:21:50 AM
Surr: DNOP	124	21-129	%Rec	1	12/16/2022 7:21:50 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/14/2022 10:10:31 AM
Surr: BFB	84.8	37.7-212	%Rec	1	12/14/2022 10:10:31 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	12/14/2022 10:10:31 AM
Toluene	ND	0.050	mg/Kg	1	12/14/2022 10:10:31 AM
Ethylbenzene	ND	0.050	mg/Kg	1	12/14/2022 10:10:31 AM
Xylenes, Total	ND	0.099	mg/Kg	1	12/14/2022 10:10:31 AM
Surr: 4-Bromofluorobenzene	85.1	70-130	%Rec	1	12/14/2022 10:10:31 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/16/2022 1:50:56 AM

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

Qualifiers:

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

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-31 2'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 11:00:00 AM

 Lab ID:
 2212582-002
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	15		mg/Kg	1	12/16/2022 7:32:23 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/16/2022 7:32:23 AM
Surr: DNOP	133	21-129	S	%Rec	1	12/16/2022 7:32:23 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2022 10:33:57 AM
Surr: BFB	87.2	37.7-212		%Rec	1	12/14/2022 10:33:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/14/2022 10:33:57 AM
Toluene	ND	0.049		mg/Kg	1	12/14/2022 10:33:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2022 10:33:57 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/14/2022 10:33:57 AM
Surr: 4-Bromofluorobenzene	87.5	70-130		%Rec	1	12/14/2022 10:33:57 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/16/2022 2:03:20 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-32 0'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 11:15:00 AM

 Lab ID:
 2212582-003
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/16/2022 7:42:54 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/16/2022 7:42:54 AM
Surr: DNOP	116	21-129	%Rec	1	12/16/2022 7:42:54 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2022 10:57:22 AM
Surr: BFB	88.6	37.7-212	%Rec	1	12/14/2022 10:57:22 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	12/14/2022 10:57:22 AM
Toluene	ND	0.049	mg/Kg	1	12/14/2022 10:57:22 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2022 10:57:22 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/14/2022 10:57:22 AM
Surr: 4-Bromofluorobenzene	90.2	70-130	%Rec	1	12/14/2022 10:57:22 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	1200	59	mg/Kg	20	12/16/2022 2:15:45 AM

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

Qualifiers:

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

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-32 2'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 11:20:00 AM

 Lab ID:
 2212582-004
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/16/2022 7:53:26 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/16/2022 7:53:26 AM
Surr: DNOP	126	21-129	%Rec	1	12/16/2022 7:53:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2022 11:20:56 AM
Surr: BFB	86.6	37.7-212	%Rec	1	12/14/2022 11:20:56 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	12/14/2022 11:20:56 AM
Toluene	ND	0.049	mg/Kg	1	12/14/2022 11:20:56 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2022 11:20:56 AM
Xylenes, Total	ND	0.097	mg/Kg	1	12/14/2022 11:20:56 AM
Surr: 4-Bromofluorobenzene	85.9	70-130	%Rec	1	12/14/2022 11:20:56 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	610	60	mg/Kg	20	12/16/2022 2:28:10 AM

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

Qualifiers:

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

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-32 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 11:35:00 AM

 Lab ID:
 2212582-005
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	DI Ou	al Units	DF	Date Analyzed
Analyses	Result	KL Qu	ai Cilits	DI	Date Analyzeu
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/16/2022 8:04:01 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/16/2022 8:04:01 AM
Surr: DNOP	122	21-129	%Rec	1	12/16/2022 8:04:01 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/14/2022 11:44:26 AM
Surr: BFB	86.0	37.7-212	%Rec	1	12/14/2022 11:44:26 AM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	12/14/2022 11:44:26 AM
Toluene	ND	0.050	mg/Kg	1	12/14/2022 11:44:26 AM
Ethylbenzene	ND	0.050	mg/Kg	1	12/14/2022 11:44:26 AM
Xylenes, Total	ND	0.099	mg/Kg	1	12/14/2022 11:44:26 AM
Surr: 4-Bromofluorobenzene	86.2	70-130	%Rec	1	12/14/2022 11:44:26 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	740	60	mg/Kg	20	12/16/2022 2:40:34 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-33 0'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 11:45:00 AM

 Lab ID:
 2212582-006
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 13 mg/Kg 1 12/16/2022 8:14:35 AM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 12/16/2022 8:14:35 AM Surr: DNOP 145 21-129 S %Rec 1 12/16/2022 8:14:35 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: RAA Gasoline Range Organics (GRO) ND 12/14/2022 12:07:59 PM 4.9 mg/Kg 1 Surr: BFB 88.2 37.7-212 %Rec 1 12/14/2022 12:07:59 PM **EPA METHOD 8021B: VOLATILES** Analyst: RAA Benzene ND 12/14/2022 12:07:59 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 12/14/2022 12:07:59 PM Ethylbenzene ND 0.049 mg/Kg 1 12/14/2022 12:07:59 PM Xylenes, Total ND 0.099 mg/Kg 12/14/2022 12:07:59 PM 1 Surr: 4-Bromofluorobenzene 86.5 70-130 %Rec 1 12/14/2022 12:07:59 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 12/16/2022 2:52:59 AM 100 60 20

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

Qualifiers:

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

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-33 2'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 11:55:00 AM

 Lab ID:
 2212582-007
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/16/2022 8:25:32 AM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/16/2022 8:25:32 AM
Surr: DNOP	134	21-129	S	%Rec	1	12/16/2022 8:25:32 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/14/2022 12:31:34 PM
Surr: BFB	89.1	37.7-212		%Rec	1	12/14/2022 12:31:34 PM
EPA METHOD 8021B: VOLATILES						Analyst: RAA
Benzene	ND	0.025		mg/Kg	1	12/14/2022 12:31:34 PM
Toluene	ND	0.049		mg/Kg	1	12/14/2022 12:31:34 PM
Ethylbenzene	ND	0.049		mg/Kg	1	12/14/2022 12:31:34 PM
Xylenes, Total	ND	0.099		mg/Kg	1	12/14/2022 12:31:34 PM
Surr: 4-Bromofluorobenzene	87.9	70-130		%Rec	1	12/14/2022 12:31:34 PM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	85	60		mg/Kg	20	12/16/2022 3:05:23 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-34 0'

Project: North Pure Gold 8 Federal 006 East Collection Date: 12/7/2022 12:05:00 PM Lab ID: 2212582-008 Matrix: SOIL Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	16	15	mg/Kg	1	12/16/2022 8:36:04 AM
Motor Oil Range Organics (MRO)	300	49	mg/Kg	1	12/16/2022 8:36:04 AM
Surr: DNOP	117	21-129	%Rec	1	12/16/2022 8:36:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/14/2022 12:55:05 PM
Surr: BFB	85.1	37.7-212	%Rec	1	12/14/2022 12:55:05 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.024	mg/Kg	1	12/14/2022 12:55:05 PM
Toluene	ND	0.048	mg/Kg	1	12/14/2022 12:55:05 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/14/2022 12:55:05 PM
Xylenes, Total	ND	0.096	mg/Kg	1	12/14/2022 12:55:05 PM
Surr: 4-Bromofluorobenzene	84.2	70-130	%Rec	1	12/14/2022 12:55:05 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/16/2022 3:17:48 AM

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

Qualifiers:

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

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-34 2'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 12:10:00 PM

 Lab ID:
 2212582-009
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/16/2022 2:01:16 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/16/2022 2:01:16 PM
Surr: DNOP	102	21-129	%Rec	1	12/16/2022 2:01:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: RAA
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2022 1:18:44 PM
Surr: BFB	89.9	37.7-212	%Rec	1	12/14/2022 1:18:44 PM
EPA METHOD 8021B: VOLATILES					Analyst: RAA
Benzene	ND	0.025	mg/Kg	1	12/14/2022 1:18:44 PM
Toluene	ND	0.049	mg/Kg	1	12/14/2022 1:18:44 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2022 1:18:44 PM
Xylenes, Total	ND	0.099	mg/Kg	1	12/14/2022 1:18:44 PM
Surr: 4-Bromofluorobenzene	89.4	70-130	%Rec	1	12/14/2022 1:18:44 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/16/2022 10:00:08 AM

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

Qualifiers:

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

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-35 0'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 12:45:00 PM

 Lab ID:
 2212582-010
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/14/2022 2:57:41 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/14/2022 2:57:41 PM
Surr: DNOP	89.8	21-129	%Rec	1	12/14/2022 2:57:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2022 12:44:00 PM
Surr: BFB	100	37.7-212	%Rec	1	12/14/2022 12:44:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/14/2022 12:44:00 PM
Toluene	ND	0.049	mg/Kg	1	12/14/2022 12:44:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2022 12:44:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/14/2022 12:44:00 PM
Surr: 4-Bromofluorobenzene	103	70-130	%Rec	1	12/14/2022 12:44:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/16/2022 10:12:32 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-35 2'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 12:50:00 PM

 Lab ID:
 2212582-011
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/14/2022 3:11:52 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/14/2022 3:11:52 PM
Surr: DNOP	117	21-129	%Rec	1	12/14/2022 3:11:52 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2022 4:14:00 PM
Surr: BFB	93.3	37.7-212	%Rec	1	12/14/2022 4:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/14/2022 4:14:00 PM
Toluene	ND	0.049	mg/Kg	1	12/14/2022 4:14:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2022 4:14:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/14/2022 4:14:00 PM
Surr: 4-Bromofluorobenzene	98.8	70-130	%Rec	1	12/14/2022 4:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/16/2022 10:24:57 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-35 0'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 2:00:00 PM

 Lab ID:
 2212582-012
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: JME Diesel Range Organics (DRO) ND 14 mg/Kg 1 12/14/2022 3:25:59 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 12/14/2022 3:25:59 PM Surr: DNOP 92.0 21-129 %Rec 1 12/14/2022 3:25:59 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 12/14/2022 4:34:00 PM 5.0 mg/Kg 1 Surr: BFB 99.3 37.7-212 %Rec 1 12/14/2022 4:34:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 12/14/2022 4:34:00 PM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 12/14/2022 4:34:00 PM Ethylbenzene ND 0.050 mg/Kg 1 12/14/2022 4:34:00 PM Xylenes, Total ND mg/Kg 12/14/2022 4:34:00 PM 0.099 1 Surr: 4-Bromofluorobenzene 103 70-130 %Rec 1 12/14/2022 4:34:00 PM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride mg/Kg 12/16/2022 10:37:21 AM ND 60 20

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

Qualifiers:

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

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Date Reported: 12/21/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-35 2'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 12/7/2022 2:05:00 PM

 Lab ID:
 2212582-013
 Matrix: SOIL
 Received Date: 12/9/2022 7:55:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/14/2022 3:40:07 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/14/2022 3:40:07 PM
Surr: DNOP	95.9	21-129	%Rec	1	12/14/2022 3:40:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/14/2022 4:54:00 PM
Surr: BFB	98.0	37.7-212	%Rec	1	12/14/2022 4:54:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	12/14/2022 4:54:00 PM
Toluene	ND	0.049	mg/Kg	1	12/14/2022 4:54:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/14/2022 4:54:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/14/2022 4:54:00 PM
Surr: 4-Bromofluorobenzene	105	70-130	%Rec	1	12/14/2022 4:54:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/16/2022 10:49:45 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2212582 21-Dec-22

WO#:

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 East

Sample ID: MB-72119 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72119 RunNo: 93343

Prep Date: 12/15/2022 Analysis Date: 12/15/2022 SeqNo: 3365242 Units: mq/Kq

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result **PQL** %REC LowLimit HighLimit Qual

Chloride ND 1.5

Sample ID: LCS-72119 SampType: Ics TestCode: EPA Method 300.0: Anions Client ID: LCSS Batch ID: 72119 RunNo: 93343 Prep Date: 12/15/2022 Analysis Date: 12/15/2022 SeqNo: 3365243 Units: mg/Kg **RPDLimit** Result **PQL** SPK value SPK Ref Val %REC LowLimit %RPD Qual

Analyte HighLimit Chloride 14 1.5 15.00 93.6 110

Sample ID: MB-72139 TestCode: EPA Method 300.0: Anions SampType: mblk Client ID: **PBS** Batch ID: 72139 RunNo: 93360 Units: mg/Kg Prep Date: Analysis Date: 12/16/2022 SeqNo: 3367761 12/16/2022 Analyte Result POI SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual LowLimit

Chloride

Sample ID: LCS-72139 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72139 RunNo: 93360

Prep Date: Analysis Date: 12/16/2022 SeqNo: 3367762 12/16/2022 Units: mg/Kg

Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte LowLimit

Chloride 15 1.5 15.00 n 97.4 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2212582 21-Dec-22

WO#:

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: MB-72058 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organ Client ID: PBS Batch ID: 72058 RunNo: 93261 Prep Date: 12/13/2022 Analysis Date: 12/14/2022 SeqNo: 3361958 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPD Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) Surr: DNOP 8.3 10.00 82.6 21 129 Sample ID: LCS-72058 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics	nics DLimit Qual
Prep Date: 12/13/2022 Analysis Date: 12/14/2022 SeqNo: 3361958 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPD Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.3 10.00 82.6 21 129	DLimit Qual
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPD Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.3 10.00 82.6 21 129	OLimit Qual
Diesel Range Organics (DRO) ND 15 Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.3 10.00 82.6 21 129	OLimit Qual
Motor Oil Range Organics (MRO) ND 50 Surr: DNOP 8.3 10.00 82.6 21 129	
Surr: DNOP 8.3 10.00 82.6 21 129	
Sample ID: LCS-72058 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organ	
	nics
Client ID: LCSS Batch ID: 72058 RunNo: 93261	
Prep Date: 12/13/2022 Analysis Date: 12/14/2022 SeqNo: 3361959 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPD	DLimit Qual
Diesel Range Organics (DRO) 47 15 50.00 0 94.7 64.4 127	
Surr: DNOP 4.3 5.000 86.9 21 129	
Sample ID: LCS-72046 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organ	nics
Client ID: LCSS Batch ID: 72046 RunNo: 93357	
Prep Date: 12/13/2022 Analysis Date: 12/16/2022 SeqNo: 3366576 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPD	DLimit Qual
Diesel Range Organics (DRO) 45 15 50.00 0 90.3 64.4 127	
Surr: DNOP 5.9 5.000 119 21 129	
Sample ID: MB-72046 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organ	nics
Client ID: PBS Batch ID: 72046 RunNo: 93357	
Prep Date: 12/13/2022 Analysis Date: 12/16/2022 SeqNo: 3366579 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPD	DLimit Qual
Diesel Range Organics (DRO) ND 15	
Motor Oil Range Organics (MRO) ND 50	
Surr: DNOP 13 10.00 129 21 129	
Sample ID: 2212582-009AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organ	nics
Client ID: BH22-34 2' Batch ID: 72046 RunNo: 93357	
Client ID: BH22-34 2' Batch ID: 72046 RunNo: 93357 Prep Date: 12/13/2022 Analysis Date: 12/16/2022 SeqNo: 3368274 Units: mg/Kg	
Prep Date: 12/13/2022 Analysis Date: 12/16/2022 SeqNo: 3368274 Units: mg/Kg	DLimit Qual
Prep Date: 12/13/2022 Analysis Date: 12/16/2022 SeqNo: 3368274 Units: mg/Kg	OLimit Qual

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582

21-Dec-22

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 East

Sample ID: 2212582-009AMSD	SampT	SampType: MSD			TestCode: EPA Method 8015M/D: Diesel Range Organics					
Client ID: BH22-34 2'	Batch	ID: 720)46	F	RunNo: 93	3357				
Prep Date: 12/13/2022	Analysis D	ate: 12	/16/2022	9	SeqNo: 33	368276	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	15	48.97	0	95.4	36.1	154	11.7	33.9	
Surr: DNOP	6.1		4.897		126	21	129	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212582 21-Dec-22**

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID:	mb-72025	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range	!	
Client ID:	PBS	Batch	n ID: 720)25	F	RunNo: 93213					
Prep Date:	12/12/2022	Analysis D	Date: 12	/14/2022	5	SeqNo: 33	361920	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
-	e Organics (GRO)	ND	5.0								
Surr: BFB		970		1000		96.8	37.7	212			
Sample ID:	2212582-001ams	SampT	уре: МЅ	1	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	BH22-31 0'	Batch	n ID: 720	007	F	RunNo: 93	3289				
Prep Date:	12/9/2022	Analysis D	Date: 12	/14/2022	5	SeqNo: 33	362676	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	23	4.9	24.65	0	92.2	70	130			
Surr: BFB		1800		986.2		178	37.7	212			
Sample ID:	2212582-001amsd	SampT	уре: МЅ	SD.	Tes	tCode: EF	PA Method	8015D: Gasol	line Range	1	
Client ID:	BH22-31 0'	Batch	n ID: 720	007	F	RunNo: 93	3289				
Prep Date:	12/9/2022	Analysis D	Date: 12	/14/2022	5	SeqNo: 33	362677	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	23	5.0	24.85	0	92.1	70	130	0.705	20	
Surr: BFB		1800		994.0		182	37.7	212	0	0	
Sample ID:	LCS-72007	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	line Range	1	
Client ID:	LCSS	Batch	n ID: 720	007	F	RunNo: 93	3289				
Prep Date:	12/9/2022	Analysis D	Date: 12	/14/2022	5	SeqNo: 33	362708	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	24	5.0	25.00	0	96.6	72.3	137			
Surr: BFB		1800		1000		176	37.7	212			
Sample ID:	mb-72007	SampT	уре: МВ	BLK	Tes	tCode: EF	PA Method	8015D: Gasol	line Range		
Client ID:	PBS	Batch	n ID: 720	007	F	RunNo: 93	3289				
Prep Date:	12/9/2022	Analysis D)ate: 12	/14/2022	5	SeqNo: 33	362710	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	ND	5.0								
Surr: BFB		840		1000		84.3	37.7	212			
Sample ID:	lcs-72034	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D: Gasol	line Range	ı	
Client ID:	LCSS	Batch	n ID: 720)34	F	RunNo: 93	3307				

Qualifiers:

Prep Date:

Analyte

Value exceeds Maximum Contaminant Level.

12/12/2022

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Analysis Date: 12/15/2022

PQL

Result

B Analyte detected in the associated Method Blank

SeqNo: 3363273

LowLimit

Units: %Rec

HighLimit

%RPD

E Above Quantitation Range/Estimated Value

%REC

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

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RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

2212582 21-Dec-22

WO#:

Client:	Vertex Resou	rces Services, Inc.	
Project:	North Pure G	old 8 Federal 006 East	
Sample ID: Ics	-72034	SampType: LCS	TestCode: EPA Method 8015D: Gasoline Range
Client ID: LC	SS	Batch ID: 72034	RunNo: 93307

Prep Date: 12/12/2022 Analysis Date: 12/15/2022 SeqNo: 3363273 Units: %Rec SPK Ref Val %RPD **RPDLimit** Analyte Result SPK value %REC LowLimit HighLimit Qual Surr: BFB 1800 1000 182 37.7 212

Sample ID: mb-72034 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 72034 RunNo: 93307 Prep Date: 12/12/2022 Analysis Date: 12/15/2022 SeqNo: 3363274 Units: %Rec Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 890 1000 89 0 37.7 212

TestCode: EPA Method 8015D: Gasoline Range Sample ID: Ics-72043 SampType: LCS Client ID: LCSS Batch ID: 72043 RunNo: 93340 Analysis Date: 12/15/2022 SeqNo: 3365082 Prep Date: 12/13/2022 Units: %Rec POI SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result I owl imit HighLimit Qual Surr: BFB 2200 1000

Sample ID: mb-72043 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 72043 RunNo: 93340 Analysis Date: 12/15/2022 Prep Date: 12/13/2022 SeqNo: 3365083 Units: %Rec Analyte SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit Surr: BFB 1000 1000 102 37.7 212

Sample ID: Ics-72025 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 72025 RunNo: 93340 Prep Date: 12/12/2022 Analysis Date: 12/15/2022 SeqNo: 3365094 Units: mg/Kg Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 25.00 90.7 72.3 137 Surr: BFB 2100 1000 206 37.7 212

Sample ID: Ics-72038 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 72038 RunNo: 93307 Analysis Date: 12/16/2022 SeqNo: 3365337 Prep Date: 12/13/2022 Units: %Rec SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual

Surr: BFB 1800 1000 181 37.7 212

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212582 21-Dec-22**

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: mb-72038 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72038 RunNo: 93307

Prep Date: 12/13/2022 Analysis Date: 12/16/2022 SeqNo: 3365338 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: BFB 830 1000 82.6 37.7 212

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212582 21-Dec-22**

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: mb-72025 Client ID: PBS	SampType: MBLK Batch ID: 72025			Tes							
Prep Date: 12/12/2022	Analysis [RunNo: 93213 SeqNo: 3361996			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130				

Sample ID: 2212582-002ams	SampT	SampType: MS TestCode: EPA Method 8					8021B: Volati	les		
Client ID: BH22-31 2'	Batcl	h ID: 720	72007 RunNo: 93289							
Prep Date: 12/9/2022	Analysis D	Date: 12	/14/2022	5	SeqNo: 33	362730	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.025	0.9804	0	82.8	68.8	120			
Toluene	0.83	0.049	0.9804	0	84.9	73.6	124			
Ethylbenzene	0.83	0.049	0.9804	0	84.4	72.7	129			
Xylenes, Total	2.5	0.098	2.941	0	85.2	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9804		92.1	70	130			

Sample ID: 2212582-002amsd	Samp1	ype: MS	iD .	Tes	tCode: EF					
Client ID: BH22-31 2'	Batcl	n ID: 720	007	F	RunNo: 93	3289				
Prep Date: 12/9/2022	Analysis [Date: 12	/14/2022	5	SeqNo: 33	862731	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.80	0.025	0.9814	0	81.5	68.8	120	1.42	20	
Toluene	0.83	0.049	0.9814	0	84.2	73.6	124	0.753	20	
Ethylbenzene	0.82	0.049	0.9814	0	83.9	72.7	129	0.543	20	
Xylenes, Total	2.5	0.098	2.944	0	84.4	75.7	126	0.869	20	
Surr: 4-Bromofluorobenzene	0.87		0.9814		88.4	70	130	0	0	

Sample ID: Ics-72007	SampT	mpType: LCS TestCode: EPA Method 80				8021B: Volati	les			
Client ID: LCSS	Batcl	n ID: 720	007 RunNo: 93289							
Prep Date: 12/9/2022	Analysis D	Date: 12	/14/2022	5	SeqNo: 33	362761	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.4	80	120			
Toluene	0.97	0.050	1.000	0	97.3	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.4	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.7	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		88.7	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212582 21-Dec-22

Client:	Vertex Resources Services, Inc.
Project:	North Pure Gold 8 Federal 006 East

North 1	ure Gold 8 Federal 000 East					
Sample ID: mb-72007	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles			
Client ID: PBS	Batch ID: 72007	RunNo: 93289				
Prep Date: 12/9/2022	Analysis Date: 12/14/2022	SeqNo: 3362763	Units: mg/Kg			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Benzene	ND 0.025					
Toluene	ND 0.050					
Ethylbenzene	ND 0.050					
Xylenes, Total	ND 0.10					
Surr: 4-Bromofluorobenzene	0.85 1.000	85.2 70	130			
Sample ID: LCS-72034	SampType: LCS	TestCode: EPA Method	8021B: Volatiles			
Client ID: LCSS	Batch ID: 72034	RunNo: 93307				
Prep Date: 12/12/2022	Analysis Date: 12/15/2022	SeqNo: 3363278	Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Surr: 4-Bromofluorobenzene	0.89 1.000	88.6 70	130			
Sample ID: mb-72034	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles			
Client ID: PBS	Batch ID: 72034	RunNo: 93307	OUZTB. Volatiles			
_			Haitas O/Das			
Prep Date: 12/12/2022	Analysis Date: 12/15/2022	SeqNo: 3363279	Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Surr: 4-Bromofluorobenzene	0.89 1.000	89.3 70	130			
Sample ID: Ics-72043	SampType: LCS	TestCode: EPA Method	8021B: Volatiles			
Client ID: LCSS	Batch ID: 72043	RunNo: 93340				
Prep Date: 12/13/2022	Analysis Date: 12/15/2022	SeqNo: 3365123	Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Surr: 4-Bromofluorobenzene	1.1 1.000	106 70	130			
Sample ID: mb-72043	SampType: MBLK	TestCode: EPA Method	8021B: Volatiles			
Client ID: PBS	Batch ID: 72043	RunNo: 93340				
Prep Date: 12/13/2022	Analysis Date: 12/15/2022	SeqNo: 3365124	Units: %Rec			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		
Surr: 4-Bromofluorobenzene	1.1 1.000	106 70	130			
Sample ID: Ics-72025	SampType: LCS	TestCode: EPA Method	8021B: Volatiles			
Client ID: LCSS	Batch ID: 72025	RunNo: 93340				
Prep Date: 12/12/2022	Analysis Date: 12/15/2022	SeqNo: 3365135	Units: mg/Kg			
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual		

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 22

Hall Environmental Analysis Laboratory, Inc.

Batch ID: 72038

Analysis Date: 12/16/2022

PQL

Result

0.82

2212582 21-Dec-22

WO#:

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72025	SampType: LCS			Tes	TestCode: EPA Method 8021B: Volatiles					
Client ID: LCSS	Batch ID: 72025			F	RunNo: 93340					
Prep Date: 12/12/2022	Analysis Date: 12/15/2022			5	SeqNo: 33	365135	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Toluene	0.99	0.050	1.000	0	98.8	80	120			
Ethylbenzene	0.99	0.050	1.000	0	98.6	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.5	80	120			
Surr: 4-Bromofluorobenzene	1.0		1.000		103	70	130			
Sample ID: LCS-72038	Samp ⁻	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	es		
Client ID: LCSS	Batc	h ID: 72 0	38	F	RunNo: 93	3307				
Prep Date: 12/13/2022	Analysis [Date: 12	/16/2022	5	SeqNo: 33	365373	Units: %Rec			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	70	130			
Sample ID: mb-72038	Samp	Гуре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	es		

SPK value SPK Ref Val %REC

1.000

RunNo: 93307

81.5

SeqNo: 3365375

LowLimit

70

Units: %Rec

HighLimit

130

%RPD

RPDLimit

Qual

Qualifiers:

Client ID:

Prep Date:

Analyte

PBS

Surr: 4-Bromofluorobenzene

12/13/2022

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

Page 22 of 22

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

LABORATORT	Website: wwv	v.hallenvironmental	.com		
Client Name: Vertex Resources Services, Inc.	Work Order Num	ber: 2212582		RcptNo:	1
Received By: Juan Rojas	12/9/2022 7:55:00	АМ	Guaray		
Completed By: Sean Livingston	12/9/2022 8:43:25	AM	5_/	20/	
Reviewed By: A 17-9-22			<i></i>		
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	e of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in proper container(s)?		Yes 🗹	No 🗆		
6. Sufficient sample volume for indicated test(s)?	Yes 🗹	No 🗌		
7. Are samples (except VOA and ONG) prope	rly 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 brok	en?	Yes 📙	No ☑ [# of preserved	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)		Yes 🗹	No 🗆	bottles checked for pH: (<2 or	>12 unless noted)
12. Are matrices correctly identified on Chain o	f Custody?	Yes 🗹	No 🗆	Adjusted?	
13. Is it clear what analyses were requested?		Yes 🗹	No 🗌		· alal
14. Were all holding times able to be met? (If no, notify customer for authorization.)		Yes 🗹	No 🗆	Checked by:	91/2/7/
Special Handling (if applicable)					
15. Was client notified of all discrepancies with	this order?	Yes 🗌	No 🗌	NA 🗹	
Person Notified:	Date:				
By Whom:	Via:	eMail P	hone Fax	☐ In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
17. Cooler Information Cooler No Temp °C Condition S 1 0.3 Good	Seal Intact Seal No	Seal Date	Signed By		

eceive Cha	GPI-3082	CUSTE	Leceive Chaff 1812 C. U.S. 18 18 18 ACOrd	Turn-Around Time:	lime:					1	-		2	0	2	Page 241 of 624	of 624
Client:	Vertex	ex :ex		Standard Standard	M Rush	5 Day				A	A	ANALYSIS	S	2	BO	ABORATORY	. >
		(direct bill to Devon)	evon)	Project Name:		7				*	×.hal	lenvir	onm	www.hallenvironmental.com	mos		
Mailing Address:	ress:			North Pure G	old 8 Federa	al #006 East		490	4901 Hawkins NE	kins	- 빌		quer	que, 1	Albuquerque, NM 87109	60	
				Project #:				Tel.	505-	505-345-3975	975	Ϋ́	3X 5(5-34	Fax 505-345-4107		
Phone #:				22E-02816-07							٩	nalys	is R	Analysis Request	**		
email or Fax#:	#			Project Manager	jer:		(1		_			[⊅] OS		(tne			
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□ Standard		□ Le	□ Level 4 (Full Validation)	kstallings@vertex.ca	rtex.ca		s's					ы ¹⁰		/Jue			
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□ NELAC		Other		On Ice:	/ kes	NO	/3					' ^ε С					
□ EDD (Type)	pe)			# of Coolers:	_		ВT					DN.					
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Date Time	ne Matrix		Sample Name	Container Type and #	Preservative Type	HEAL No.	X3T8	08:H9T	9 1808 	M) 803 EDB (N	RCRA	Cl' E' E	/) 0928	2) 07S8 O lstoT	- 1010 -		
12/7/22 10:	10:55 Sc	Soil	BH22-31 0'	1 4oz jar		100	×	×				×					
12/7/22 11:	11:00 Sc	Soil	BH22-31 2'	1 4oz jar		200	×	×				×					
	11:15 Sc	Soil	BH22-32 0'	1 4oz jar		5170	×	×				×					
12/7/22 11:	11:20 Sc	Soil	BH22-32 2'	1 4oz jar		ا∕حن	×	×				×					
12/7/22 11:	11:35 Sc	Soil	BH22-32 4'	1 4oz jar		300	×	×				×					
12/7/22 11:	11:45 Sc	Soil	BH22-33 0'	1 4oz jar		200	×	×				×					
12/7/22 11.	11:55 Sc	Soil	BH22-33 2'	1 4oz jar		450	×	×	\dashv	_		×					
12/7/22 12:	12:05 Sc	Soil	BH22-34 0'	1 4oz jar		<i>∞</i>	×	×				×					
12/7/22 12	12:10 Sc	Soil	BH22-34 2'	1 40z jar		700	×	×				×	_				\exists
12/7/22 12:	12:45 St	Soil	BH22-35 0'	1 4oz jar		0,0	×	×				×					
12/7/22 12:	12:50 Sc	Soil	BH22-35 2'	1 4oz jar		110	×	×				×					
Date: Time:		Relinquished by:		Received by:	Via:	Date Time	Rer	Remarks:									
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00/2/20/2/21		CHAMMA	MAMMALINO	A	COUNTRY	Ourser 12/9/22 7-155	1										

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Client:		Vertex		X Standard	M Rush	5 Day				Z	A	SI	S	AB	ANALYSIS LABORATORY	A	OR	>
		(direct bi	(direct bill to Devon)	Project Name:						W	/.halle	nviro	nmer	www.hallenvironmental.com	۶			
Mailing,	Mailing Address:			North Pure G	North Pure Gold 8 Federal #006 East	l #006 East		4901	Нам	4901 Hawkins NE		Albuq	nerdi	Je, NN	Albuquerque, NM 87109	O		
				Project #:				Tel.	505-3	505-345-3975	375	Fax		505-345-4107	1107			
Phone #:	÷.			22E-02816-07	7						Ā	Analysis	s Re	Rednest	ı			
email or Fax#:	. Fax#:			Project Manager:	ger:		(1:					†OS	-	(เนอ	-			-
QA/QC F	QA/QC Package:			Kent Stallings			Z08)		e (1)	SWI				ypse				
□ Standard	dard		☐ Level 4 (Full Validation)	kstallings@verl	<u>ertex.ca</u>) s,8			SO.)d '		//ţu				
Accreditation:	tation:	□ Az Co	☐ Az Compliance	Sampler:	L. Pullman		TME					 10 ⁵						
□ NEL	٩C	□ Other)	A Yes	□ No	_ / :					1 'E	(AC					
☐ EDD (Type)	(Type)_			# of Coolers:	1		18.				etal							
				Cooler Temp(including CF): ()	(including CF): 0,0	2+0-1-0-3	TM				M 8							
Date	T:	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	X∃TEX /	.08:H97	9081 Pe M) 803	d sHAc	3 AADF	CI, F, E	V) 0928 8) 0728	Otal Co				
T		Soil				210	×	-				-						
12/7/22	14:05	Soil	BH22-35 2'	1 4oz jar		500	×	×				×						
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18/2	13/8/m 19/10		Minuman	N	Laurie	-rourier12/4/22 315	4											

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



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

January 17, 2023

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

FAX:

RE: North Pure Gold 8 Federal 006 East OrderNo.: 2301273

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 1/7/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 0'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/4/2023 9:30:00 AM

 Lab ID:
 2301273-001
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/12/2023 7:44:31 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/12/2023 7:44:31 PM
Surr: DNOP	99.1	69-147	%Rec	1	1/12/2023 7:44:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/12/2023 1:30:20 AM
Surr: BFB	98.8	37.7-212	%Rec	1	1/12/2023 1:30:20 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/12/2023 1:30:20 AM
Toluene	ND	0.049	mg/Kg	1	1/12/2023 1:30:20 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/12/2023 1:30:20 AM
Xylenes, Total	ND	0.098	mg/Kg	1	1/12/2023 1:30:20 AM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	1/12/2023 1:30:20 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	160	60	mg/Kg	20	1/11/2023 4:16:44 PM

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

Qualifiers:

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

ple pH Not In Range
Orting Limit Page 1 of 20

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 2'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/4/2023 9:35:00 AM

 Lab ID:
 2301273-002
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3		mg/Kg	1	1/12/2023 12:20:37 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 12:20:37 AM
Surr: DNOP	134	21-129	S	%Rec	1	1/12/2023 12:20:37 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	250	60		mg/Kg	20	1/11/2023 4:53:58 PM
EPA METHOD 8260B: VOLATILES SHORT LIST						Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/11/2023 6:29:02 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 6:29:02 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 6:29:02 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 6:29:02 PM
Surr: 1,2-Dichloroethane-d4	90.9	70-130		%Rec	1	1/11/2023 6:29:02 PM
Surr: 4-Bromofluorobenzene	108	70-130		%Rec	1	1/11/2023 6:29:02 PM
Surr: Dibromofluoromethane	86.6	70-130		%Rec	1	1/11/2023 6:29:02 PM
Surr: Toluene-d8	109	70-130		%Rec	1	1/11/2023 6:29:02 PM
EPA METHOD 8015D MOD: GASOLINE RANGE						Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 6:29:02 PM
Surr: BFB	125	70-130		%Rec	1	1/11/2023 6:29:02 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 20

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/4/2023 9:40:00 AM

 Lab ID:
 2301273-003
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/12/2023 12:52:32 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/12/2023 12:52:32 AM
Surr: DNOP	110	21-129	%Rec	1	1/12/2023 12:52:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	390	60	mg/Kg	20	1/11/2023 5:56:02 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST .				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	1/11/2023 7:54:54 PM
Toluene	ND	0.049	mg/Kg	1	1/11/2023 7:54:54 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/11/2023 7:54:54 PM
Xylenes, Total	ND	0.097	mg/Kg	1	1/11/2023 7:54:54 PM
Surr: 1,2-Dichloroethane-d4	81.0	70-130	%Rec	1	1/11/2023 7:54:54 PM
Surr: 4-Bromofluorobenzene	109	70-130	%Rec	1	1/11/2023 7:54:54 PM
Surr: Dibromofluoromethane	87.9	70-130	%Rec	1	1/11/2023 7:54:54 PM
Surr: Toluene-d8	107	70-130	%Rec	1	1/11/2023 7:54:54 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/11/2023 7:54:54 PM
Surr: BFB	125	70-130	%Rec	1	1/11/2023 7:54:54 PM

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

Qualifiers:

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

Page 3 of 20

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 6'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/4/2023 9:45:00 AM

 Lab ID:
 2301273-004
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/12/2023 1:03:13 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/12/2023 1:03:13 AM
Surr: DNOP	115	21-129	%Rec	1	1/12/2023 1:03:13 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	340	60	mg/Kg	20	1/11/2023 6:08:28 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	1/11/2023 9:20:42 PM
Toluene	ND	0.049	mg/Kg	1	1/11/2023 9:20:42 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/11/2023 9:20:42 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/11/2023 9:20:42 PM
Surr: 1,2-Dichloroethane-d4	83.5	70-130	%Rec	1	1/11/2023 9:20:42 PM
Surr: 4-Bromofluorobenzene	112	70-130	%Rec	1	1/11/2023 9:20:42 PM
Surr: Dibromofluoromethane	82.7	70-130	%Rec	1	1/11/2023 9:20:42 PM
Surr: Toluene-d8	108	70-130	%Rec	1	1/11/2023 9:20:42 PM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/11/2023 9:20:42 PM
Surr: BFB	126	70-130	%Rec	1	1/11/2023 9:20:42 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 20

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 8'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/4/2023 9:50:00 AM

 Lab ID:
 2301273-005
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	1/12/2023 1:14:01 AM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	1/12/2023 1:14:01 AM
Surr: DNOP	130	21-129	S	%Rec	1	1/12/2023 1:14:01 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	240	59		mg/Kg	20	1/11/2023 6:20:53 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST					Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/11/2023 9:49:15 PM
Toluene	ND	0.049		mg/Kg	1	1/11/2023 9:49:15 PM
Ethylbenzene	ND	0.049		mg/Kg	1	1/11/2023 9:49:15 PM
Xylenes, Total	ND	0.099		mg/Kg	1	1/11/2023 9:49:15 PM
Surr: 1,2-Dichloroethane-d4	87.8	70-130		%Rec	1	1/11/2023 9:49:15 PM
Surr: 4-Bromofluorobenzene	112	70-130		%Rec	1	1/11/2023 9:49:15 PM
Surr: Dibromofluoromethane	84.2	70-130		%Rec	1	1/11/2023 9:49:15 PM
Surr: Toluene-d8	112	70-130		%Rec	1	1/11/2023 9:49:15 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/11/2023 9:49:15 PM
Surr: BFB	131	70-130	S	%Rec	1	1/11/2023 9:49:15 PM

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

Qualifiers:

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

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Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 10'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/4/2023 9:55:00 AM

 Lab ID:
 2301273-006
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/12/2023 1:24:45 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/12/2023 1:24:45 AM
Surr: DNOP	114	21-129	%Rec	1	1/12/2023 1:24:45 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	230	60	mg/Kg	20	1/11/2023 6:33:17 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	1/12/2023 12:40:17 AM
Toluene	ND	0.049	mg/Kg	1	1/12/2023 12:40:17 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/12/2023 12:40:17 AM
Xylenes, Total	ND	0.098	mg/Kg	1	1/12/2023 12:40:17 AM
Surr: 1,2-Dichloroethane-d4	77.6	70-130	%Rec	1	1/12/2023 12:40:17 AM
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	1/12/2023 12:40:17 AM
Surr: Dibromofluoromethane	81.1	70-130	%Rec	1	1/12/2023 12:40:17 AM
Surr: Toluene-d8	110	70-130	%Rec	1	1/12/2023 12:40:17 AM
EPA METHOD 8015D MOD: GASOLINE RANG	SE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/12/2023 12:40:17 AM
Surr: BFB	129	70-130	%Rec	1	1/12/2023 12:40:17 AM

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

Qualifiers:

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

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Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 12'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/4/2023 10:00:00 AM

 Lab ID:
 2301273-007
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	1/12/2023 1:35:24 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2023 1:35:24 AM
Surr: DNOP	139	21-129	S	%Rec	1	1/12/2023 1:35:24 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	230	60		mg/Kg	20	1/11/2023 6:45:41 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST					Analyst: JR
Benzene	ND	0.024		mg/Kg	1	1/12/2023 1:08:45 AM
Toluene	ND	0.048		mg/Kg	1	1/12/2023 1:08:45 AM
Ethylbenzene	ND	0.048		mg/Kg	1	1/12/2023 1:08:45 AM
Xylenes, Total	ND	0.095		mg/Kg	1	1/12/2023 1:08:45 AM
Surr: 1,2-Dichloroethane-d4	84.0	70-130		%Rec	1	1/12/2023 1:08:45 AM
Surr: 4-Bromofluorobenzene	113	70-130		%Rec	1	1/12/2023 1:08:45 AM
Surr: Dibromofluoromethane	80.3	70-130		%Rec	1	1/12/2023 1:08:45 AM
Surr: Toluene-d8	108	70-130		%Rec	1	1/12/2023 1:08:45 AM
EPA METHOD 8015D MOD: GASOLINE RANG	Ε					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	1/12/2023 1:08:45 AM
Surr: BFB	128	70-130		%Rec	1	1/12/2023 1:08:45 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 14'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/5/2023 8:45:00 AM

 Lab ID:
 2301273-008
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8		mg/Kg	1	1/12/2023 1:46:03 AM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	1/12/2023 1:46:03 AM
Surr: DNOP	133	21-129	S	%Rec	1	1/12/2023 1:46:03 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	97	60		mg/Kg	20	1/11/2023 6:58:06 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST					Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 1:37:11 AM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 1:37:11 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 1:37:11 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2023 1:37:11 AM
Surr: 1,2-Dichloroethane-d4	86.5	70-130		%Rec	1	1/12/2023 1:37:11 AM
Surr: 4-Bromofluorobenzene	116	70-130		%Rec	1	1/12/2023 1:37:11 AM
Surr: Dibromofluoromethane	81.6	70-130		%Rec	1	1/12/2023 1:37:11 AM
Surr: Toluene-d8	107	70-130		%Rec	1	1/12/2023 1:37:11 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE .					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 1:37:11 AM
Surr: BFB	128	70-130		%Rec	1	1/12/2023 1:37:11 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 16'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/5/2023 8:50:00 AM

 Lab ID:
 2301273-009
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	1/12/2023 1:56:39 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	1/12/2023 1:56:39 AM
Surr: DNOP	142	21-129	S	%Rec	1	1/12/2023 1:56:39 AM
EPA METHOD 300.0: ANIONS						Analyst: JMT
Chloride	ND	60		mg/Kg	20	1/11/2023 7:10:31 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Т					Analyst: JR
Benzene	ND	0.025		mg/Kg	1	1/12/2023 2:05:37 AM
Toluene	ND	0.049		mg/Kg	1	1/12/2023 2:05:37 AM
Ethylbenzene	ND	0.049		mg/Kg	1	1/12/2023 2:05:37 AM
Xylenes, Total	ND	0.098		mg/Kg	1	1/12/2023 2:05:37 AM
Surr: 1,2-Dichloroethane-d4	84.9	70-130		%Rec	1	1/12/2023 2:05:37 AM
Surr: 4-Bromofluorobenzene	115	70-130		%Rec	1	1/12/2023 2:05:37 AM
Surr: Dibromofluoromethane	79.6	70-130		%Rec	1	1/12/2023 2:05:37 AM
Surr: Toluene-d8	109	70-130		%Rec	1	1/12/2023 2:05:37 AM
EPA METHOD 8015D MOD: GASOLINE RANG	E					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	1/12/2023 2:05:37 AM
Surr: BFB	127	70-130		%Rec	1	1/12/2023 2:05:37 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-37 18'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/5/2023 9:00:00 AM

 Lab ID:
 2301273-010
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	1/12/2023 2:17:30 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/12/2023 2:17:30 AM
Surr: DNOP	112	21-129	%Rec	1	1/12/2023 2:17:30 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/11/2023 7:22:56 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	1/12/2023 2:33:59 AM
Toluene	ND	0.048	mg/Kg	1	1/12/2023 2:33:59 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/12/2023 2:33:59 AM
Xylenes, Total	ND	0.096	mg/Kg	1	1/12/2023 2:33:59 AM
Surr: 1,2-Dichloroethane-d4	86.6	70-130	%Rec	1	1/12/2023 2:33:59 AM
Surr: 4-Bromofluorobenzene	118	70-130	%Rec	1	1/12/2023 2:33:59 AM
Surr: Dibromofluoromethane	81.8	70-130	%Rec	1	1/12/2023 2:33:59 AM
Surr: Toluene-d8	109	70-130	%Rec	1	1/12/2023 2:33:59 AM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/12/2023 2:33:59 AM
Surr: BFB	130	70-130	%Rec	1	1/12/2023 2:33:59 AM

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

Qualifiers:

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

opering Limit Page 10 of 20

Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-38 0'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/5/2023 7:05:00 AM

 Lab ID:
 2301273-011
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	1/12/2023 2:28:02 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/12/2023 2:28:02 AM
Surr: DNOP	98.8	21-129	%Rec	1	1/12/2023 2:28:02 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/11/2023 7:35:21 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	Г				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	1/12/2023 3:02:22 AM
Toluene	ND	0.050	mg/Kg	1	1/12/2023 3:02:22 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/12/2023 3:02:22 AM
Xylenes, Total	ND	0.10	mg/Kg	1	1/12/2023 3:02:22 AM
Surr: 1,2-Dichloroethane-d4	82.9	70-130	%Rec	1	1/12/2023 3:02:22 AM
Surr: 4-Bromofluorobenzene	116	70-130	%Rec	1	1/12/2023 3:02:22 AM
Surr: Dibromofluoromethane	75.6	70-130	%Rec	1	1/12/2023 3:02:22 AM
Surr: Toluene-d8	110	70-130	%Rec	1	1/12/2023 3:02:22 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	≣				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/12/2023 3:02:22 AM
Surr: BFB	130	70-130	%Rec	1	1/12/2023 3:02:22 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/17/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-38 2'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/5/2023 7:10:00 AM

 Lab ID:
 2301273-012
 Matrix: SOIL
 Received Date: 1/7/2023 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/12/2023 2:38:32 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/12/2023 2:38:32 AM
Surr: DNOP	127	21-129	%Rec	1	1/12/2023 2:38:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/11/2023 7:47:46 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	1/12/2023 3:30:42 AM
Toluene	ND	0.050	mg/Kg	1	1/12/2023 3:30:42 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/12/2023 3:30:42 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/12/2023 3:30:42 AM
Surr: 1,2-Dichloroethane-d4	87.4	70-130	%Rec	1	1/12/2023 3:30:42 AM
Surr: 4-Bromofluorobenzene	115	70-130	%Rec	1	1/12/2023 3:30:42 AM
Surr: Dibromofluoromethane	77.0	70-130	%Rec	1	1/12/2023 3:30:42 AM
Surr: Toluene-d8	113	70-130	%Rec	1	1/12/2023 3:30:42 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/12/2023 3:30:42 AM
Surr: BFB	129	70-130	%Rec	1	1/12/2023 3:30:42 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2301273 17-Jan-23

WO#:

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 East

Sample ID: MB-72575 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72575 RunNo: 93895

Prep Date: 1/11/2023 Analysis Date: 1/11/2023 SeqNo: 3389504 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit

Chloride ND 1.5

Sample ID: LCS-72575 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72575 RunNo: 93895

Prep Date: 1/11/2023 Analysis Date: 1/11/2023 SeqNo: 3389505 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual

Chloride 15.00 91.5 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301273** *17-Jan-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

	2301273-002AMS		ype: MS					8015M/D: Die:	sel Range	Organics	
	BH22-37 2'		ID: 72 5			RunNo: 93					
Prep Date:	1/10/2023	Analysis D	ate: 1/	12/2023	9	SeqNo: 33	390164	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	Organics (DRO)	38	9.5	47.48	0	79.9	36.1	154			
Surr: DNOP		5.2		4.748		110	21	129			
Sample ID:	2301273-002AMSD	SampT	уре: М .S	SD	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID:	BH22-37 2'	Batch	ID: 72 5	555	F	RunNo: 93	3869				
Prep Date:	1/10/2023	Analysis D	ate: 1/	12/2023	Ş	SeqNo: 33	390165	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	Organics (DRO)	42	9.5	47.62	0	88.9	36.1	154	10.9	33.9	
Surr: DNOP		5.5		4.762		116	21	129	0	0	
Sample ID:	LCS-72555	SampT	ype: LC	 S	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 72 5	555	F	RunNo: 93	3869		_		
Prep Date:	1/10/2023	Analysis D	ate: 1/	12/2023	9	SeqNo: 33	390205	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	Organics (DRO)	44	10	50.00	0	88.4	64.4	127	70111 2	TO BEILLING	Quai
Surr: DNOP		5.8		5.000		115	21	129			
Sample ID:	MB-72555	SampT	уре: МЕ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
·	PBS		iD: 72 5			RunNo: 93			-	J	
Prep Date:	1/10/2023	Analysis D	ate: 1/	11/2023	S	SeqNo: 33	390207	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range O	Organics (DRO)	ND	10	Of It value	Of ICICCI Val	701120	LOWLITH	Tilgricitiit	701 CI	IXI DEIIIII	Quai
	e Organics (MRO)	ND	50								
Surr: DNOP		15		10.00		145	21	129			S
Sample ID:	LCS-72585	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015M/D: Die:	sel Range	Organics	
	LCSS	Batch	ID: 72	585		RunNo: 93				J	
Prep Date:	1/12/2023	Analysis D	ate: 1/	12/2023	9	SeqNo: 33	390353	Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		5.6		5.000		111	69	147	,,,,,		~~~
Sample ID:	MD 72505	CompT	VDO: 845	DI IV	Т	tCodo: FF	DA Matha-l	904EM/D: D:-:	cal Banas	Organica	
Sample ID:		•	ype: ME					8015M/D: Die:	sei kange	organics	
	PBS		ID: 725			RunNo: 93		Unito O/P			
Prep Date:	1/12/2023	Analysis D				SeqNo: 33		Units: %Rec			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301273** *17-Jan-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: MB-72585 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics PBS Client ID: Batch ID: 72585 RunNo: 93911 Prep Date: 1/12/2023 Analysis Date: 1/12/2023 SeqNo: 3390355 Units: %Rec SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: DNOP 11 10.00 106 69 147

Sample ID: LCS-72572 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 72572 RunNo: 93911 Prep Date: 1/11/2023 Analysis Date: 1/12/2023 SeqNo: 3391721 Units: mg/Kg %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Qual Diesel Range Organics (DRO) 38 10 50.00 75.7 61.9 130 Surr: DNOP 5.000 107 147 5.4

Sample ID: MB-72572 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 72572 RunNo: 93911 Prep Date: Analysis Date: 1/12/2023 1/11/2023 SeqNo: 3391726 Units: mg/Kg 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 15 S 10.00 147 69 147

Qualifiers:

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

Page 15 of 20

Hall Environmental Analysis Laboratory, Inc.

2301273 17-Jan-23

WO#:

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72537 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 72537 RunNo: 93875 Units: mg/Kg Prep Date: 1/10/2023 Analysis Date: 1/11/2023 SeqNo: 3388796 **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.8 72.3 137 Surr: BFB 2000 1000 203 37.7 212

Sample ID: mb-72537 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range Client ID: PBS Batch ID: 72537 RunNo: 93875 Prep Date: Analysis Date: 1/11/2023 1/10/2023 SeqNo: 3388797 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 1100 1000 106 37.7 212

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301273** *17-Jan-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: LCS-72537	•	ype: LC		Tes						
Client ID: LCSS	Batci	n ID: 725	537	ŀ	RunNo: 9:	3875				
Prep Date: 1/10/2023	Analysis [Date: 1/ *	11/2023	Ş	SeqNo: 3	388802	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.4	80	120			
Toluene	0.98	0.050	1.000	0	98.4	80	120			
Ethylbenzene	0.99	0.050	1.000	0	99.1	80	120			
Xylenes, Total	3.0	3.0 0.10 3.000			99.5	80	120			
Surr: 4-Bromofluorobenzene	1.0 1.000			99.9 70			130			

Sample ID: mb-72537	SampT	уре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batcl	n ID: 72	537	F	RunNo: 9:					
Prep Date: 1/10/2023	Analysis D	Date: 1/	11/2023	9	SeqNo: 3	388803	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.98		1.000		98.4	70	130			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 20

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301273**

17-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: 2301273-003ams	Samp	Гуре: МЅ	4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BH22-37 4'	Batc	h ID: 725	543	F	RunNo: 93					
Prep Date: 1/10/2023	Analysis [Date: 1/ 1	11/2023	(SeqNo: 33	389434	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.024	0.9794	0	97.1	75.8	123			
Toluene	1.1	0.049	0.9794	0	111	68.3	130			
Ethylbenzene	1.1	0.049	0.9794	0	112	76.6	132			
Xylenes, Total	3.5	0.098	2.938	0	118	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.39		0.4897		80.2	70	130			
Surr: 4-Bromofluorobenzene	0.56		0.4897		115	70	130			
Surr: Dibromofluoromethane	0.42	0.42 0.4897			84.9	70	130			
Surr: Toluene-d8	0.54		0.4897		111	70	130			

Sample ID: 2301273-003ams	d Samp	Type: MS	SD4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BH22-37 4'	Bato	h ID: 72	543	RunNo: 93893						
Prep Date: 1/10/2023	Analysis	Date: 1/	11/2023	;	SeqNo: 3	389435	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.024	0.9728	0	99.0	75.8	123	1.23	20	
Toluene	1.1	0.049	0.9728	0	109	68.3	130	1.96	20	
Ethylbenzene	1.1	0.049	0.9728	0	111	76.6	132	1.72	20	
Xylenes, Total	3.4	0.097	2.918	0	116	74.7	132	1.58	20	
Surr: 1,2-Dichloroethane-d4	0.40		0.4864		81.3	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.54		0.4864		111	70	130	0	0	
Surr: Dibromofluoromethane	0.41		0.4864		84.5	70	130	0	0	
Surr: Toluene-d8	0.53		0.4864		109	70	130	0	0	

Sample ID: Ics-72543	S4	TestCode: EPA Method 8260B: Volatiles Short List										
Client ID: BatchQC	lient ID: BatchQC Batch ID: 72543					RunNo: 93893						
Prep Date: 1/10/2023	Analysis D	Date: 1/1	11/2023	5	SeqNo: 33	889456	Units: mg/K	g				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.96	0.025	1.000	0	95.9	80	120					
Toluene	1.1	0.050	1.000	0	109	80	120					
Ethylbenzene	1.1	0.050	1.000	0	111	80	120					
Xylenes, Total	3.4	0.10	3.000	0	115	80	120					
Surr: 1,2-Dichloroethane-d4	0.44		0.5000		88.5	70	130					
Surr: 4-Bromofluorobenzene	0.57		0.5000		115	70	130					
Surr: Dibromofluoromethane	0.43		0.5000		86.3	70	130					
Surr: Toluene-d8	0.55		0.5000		111	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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2301273

WO#:

17-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: mb-72543 Client ID: PBS					TestCode: EPA Method 8260B: Volatiles Short List RunNo: 93893							
Prep Date: 1/10/2023	Analysis [11/2023		SeqNo: 33		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 1,2-Dichloroethane-d4	0.36		0.5000		72.5	70	130					
Surr: 4-Bromofluorobenzene	0.55		0.5000		110	70	130					
Surr: Dibromofluoromethane	0.40		0.5000		80.4	70	130					
Surr: Toluene-d8	0.57		0.5000		113	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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2301273

WO#:

17-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Froject:	1401til 1 til	e Gold 8	Cucrar	000 Last								
Sample ID:	2301273-002ams	SampT	уре: МS	3	Tes	tCode: El	PA Method	8015D Mod: (Gasoline R	ange		
Client ID:	BH22-37 2'	Batch	n ID: 72 5	543	F	RunNo: 9:	3893					
Prep Date:	1/10/2023	Analysis D	ate: 1/	11/2023	5	SeqNo: 3	389459	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	e Organics (GRO)	22	5.0	24.88	0	90.2	65.9	123				
Surr: BFB		570		497.5		115	70	130				
Sample ID:	2301273-002amsd	SampT	ype: MS	SD .	Tes	tCode: El	PA Method	8015D Mod: (Gasoline R	ange		
Client ID:	BH22-37 2'	Batch	n ID: 72 5	543	F	RunNo: 93893						
Prep Date:	1/10/2023	Analysis D	oate: 1/	11/2023	5	SeqNo: 3:	389460	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Rang	e Organics (GRO)	22	5.0	24.80	0	90.6	65.9	123	0.145	20		
Surr: BFB		580		496.0		117	70	130	0	0		
Sample ID:	lcs-72543	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D Mod: (Gasoline R	lange		
Client ID:	LCSS	Batch	n ID: 72 5	543	F	RunNo: 9:	3893					
Prep Date:	1/10/2023	Analysis D	oate: 1/	11/2023	S	SeqNo: 3	389480	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	e Organics (GRO)	23	5.0	25.00	0	90.8	70	130				
Surr: BFB		560		500.0		112	70	130				
Sample ID:	mb-72543	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D Mod: (Gasoline R	lange		
Client ID:	PBS	Batch	n ID: 72 5	543	F	RunNo: 9:	3893					
Prep Date:	1/10/2023	Analysis D	oate: 1/	11/2023	5	SeqNo: 3:	389481	Units: mg/K	(g			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range	e Organics (GRO)	ND	5.0									
Surr: BFB		620		500.0		125	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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

LABOR	AIORI			Website: www.	hallenvii	onmen	tal.com		
Client Name:	Vertex Res Services, I		Work	Order Numb	er: 230 °	1273		RcptNo:	1
Received By:	Cheyenne	Cason	1/7/202	3 8:30:00 AN	1		Chul		
Completed By:	Cheyenne	Cason	1/7/202	3 9:18:28 AN	1		Chul		
Reviewed By:	mya	423							
Chain of Cust	ody								
1. Is Chain of Cu	stody comp	lete?			Yes		No 🗹	Not Present	
2. How was the s	sample deliv	ered?			Cou	<u>ier</u>			
<u>Log In</u>							_	_	
3. Was an attem	pt made to	cool the samp	les?		Yes	~	No 🗌	NA 🗌	
4. Were all samp	les received	l at a tempera	ture of >0° C	to 6.0°C	Yes	V	No 🗌	NA 🗆	
5. Sample(s) in p	roper conta	iner(s)?			Yes	V	No 🗌		
6. Sufficient samp	ole volume f	or indicated te	est(s)?		Yes	Y	No 🗌		
7. Are samples (e	xcept VOA	and ONG) pro	perly preserve	ed?	Yes	V	No 🗌		
8. Was preservati	ive added to	bottles?			Yes		No 🗹	NA \square	
9. Received at lea	st 1 vial wit	h headspace	<1/4" for AQ \	OA?	Yes		No 🗌	NA 🗹	
10. Were any sam	ple containe	ers received b	roken?		Yes		No 🗹	# of preserved	
11. Does paperwor	k match bo	ttle labels?			Yes	V	No 🗌	bottles checked for pH:	
(Note discrepar							_		12 unless noted)
2. Are matrices co			•			V	No 📙	Adjusted?	
[3] Is it clear what			?			V	No 📙	Oh a should be us	1/1/1
14. Were all holdin (If no, notify cu	-				Yes	V	No □	Checked by:	ne 1/1/2:
Special Handli	ng (if app	olicable)							
15. Was client not	ified of all d	iscrepancies v	vith this order?	•	Yes		No 🗌	NA 🗹	
Person N	Notified:			Date:					
By Whor				Via:	eMa	iil 🗌	Phone Fax	☐ In Person	
Regardir									
16. Additional rem	structions:				-				
 Cooler Inform Cooler No 	Temp °C	Condition	Cool Interi	Cool No	Cacl D		Cinna d D.	reado.	
1	3.0	Good	Seal Intact Not Present	Seal No Yogi	Seal Da	ile	Signed By		
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eceived	PSPri	3/8/10/24	Received@WSP12812CUSYCHYMRecord	Turn-Around Time:						Page 265 of 624
Client:		Vertex		X Standard X Rush	ush 5 Day		ANA	VST	HALL ENVIRONMENTAL ANALYSTS LABOPATOPY	ENTAL
			(direct bill to Devon)) iii	ll		www.h	allenviron	www.hallenvironmental.com	
Mailing Address	ddress	.;.		North Pure Gold 8 Fe	Sold 8 Federal #006 East	4901 H	4901 Hawkins NE	- Albuqu	Albuquerque NM 87109	g
				Project #:		Tel. 50	505-345-3975		505-345-4107	2
Phone #:				22E-02816-07				Analysis	Request	
email or Fax#	Fax#:			Project Manager:		-		ρC	(3)	
QA/QC Package:	ackage:			Kent Stallings		NRC	SV)S ' [‡]	uəsc	
□ Standard	ard		☐ Level 4 (Full Validation)	kstallings@vertex.ca		1/0	NISC	од РО	dΑVι	
Accreditation:	tion:	□ Az Co	□ Az Compliance	Sampler: L. Pullman	u	AO /		10 ⁵ '		
□ NELAC	ای	□ Other		On Ice: 🔀 Yes	ON 🗆	O	10			
☐ EDD (Type	Type)			# of Coolers: (You	4Đ)	01	103		
				Cooler Temp(including CF):	3.0-0:30	12D(£8 \	۲, ۱		
Date T	Time	Matrix	Sample NameS	Container Preservative		TEX / PH:801	M) BD AHs by 8 AAD	H, F, B	oO (Sa	
			BH22-37 0'		72301613	Ц >	Ъ	o >		
	9:35	Soil	BH22-37 2'	1. 40z iar		-		< >		
01/04/23	9:40	Soil	BH22-37 4'	1, 4oz jar	33	+		< ×		
01/04/23	9:45	Soil	BH22-37 6'	1, 4oz jar	37-	┼		×		
01/04/23	9:50	Soil	BH22-37 8'	1, 4oz jar	500	\vdash		×		
01/04/23	9:55	Soil	BH22-37 10'	1, 4oz jar	900	╁		×		
01/04/23 1	10:00	Soil	BH22-37 12'	1, 4oz jar	702	+		×		
01/05/23	8:45	Soil	BH22-37 14'	1, 4oz jar	826	╀		×		
01/05/23	8:50	Soil	BH22-37 16'	1, 4oz jar	da	┼		×		
01/05/23	9:00	Soil	BH22-37 18'	1, 4oz jar	010	\vdash		×		
01/05/23	7:05	Soil	BH22-38 0'	1, 4oz jar	170	+		×		
/23	0	Soil	BH22-38 2'	L	210	+		×		
Date: Tin	Time:	Relinquished by		Received by: Via:	Date Time	Remarks:			-	
		Relinquished by	Man		2	Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Report	Devon, Dal S@vertex.c	le Wooda a for Fina	II I Report	
4				Neceived by. Via.	Cate Time)			



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

January 30, 2023

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

FAX

RE: North Pure Gold 8 Federal 006 East OrderNo.: 2301766

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 30 sample(s) on 1/20/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Surr: 4-Bromofluorobenzene

EPA METHOD 300.0: ANIONS

Chloride

Analytical ReportLab Order **2301766**

Date Reported: 1/30/2023

1/25/2023 12:16:00 AM

1/26/2023 6:32:36 PM

Analyst: NAI

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-01 0-1

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 8:45:00 AM

 Lab ID:
 2301766-001
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 1/24/2023 1:01:50 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 1/24/2023 1:01:50 PM 69-147 Surr: DNOP %Rec 1 1/24/2023 1:01:50 PM 111 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/25/2023 12:16:00 AM 5.0 mg/Kg 1 Surr: BFB 89.9 37.7-212 %Rec 1 1/25/2023 12:16:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.025 mg/Kg 1/25/2023 12:16:00 AM 1 Toluene ND 0.050 mg/Kg 1 1/25/2023 12:16:00 AM Ethylbenzene ND 0.050 mg/Kg 1 1/25/2023 12:16:00 AM Xylenes, Total ND 0.099 mg/Kg 1 1/25/2023 12:16:00 AM

92.5

ND

70-130

60

%Rec

ma/Ka

1

20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-02 0-1

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 8:50:00 AM

 Lab ID:
 2301766-002
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/24/2023 7:12:48 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/24/2023 7:12:48 PM
Surr: DNOP	117	69-147	%Rec	1	1/24/2023 7:12:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/25/2023 12:36:00 AM
Surr: BFB	89.6	37.7-212	%Rec	1	1/25/2023 12:36:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/25/2023 12:36:00 AM
Toluene	ND	0.047	mg/Kg	1	1/25/2023 12:36:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	1/25/2023 12:36:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	1/25/2023 12:36:00 AM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	1/25/2023 12:36:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	1/26/2023 7:11:11 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-03 0-1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 8:55:00 AM

 Lab ID:
 2301766-003
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/24/2023 7:26:30 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/24/2023 7:26:30 PM
Surr: DNOP	121	69-147	%Rec	1	1/24/2023 7:26:30 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/25/2023 12:55:00 AM
Surr: BFB	93.7	37.7-212	%Rec	1	1/25/2023 12:55:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	1/25/2023 12:55:00 AM
Toluene	ND	0.049	mg/Kg	1	1/25/2023 12:55:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/25/2023 12:55:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/25/2023 12:55:00 AM
Surr: 4-Bromofluorobenzene	93.2	70-130	%Rec	1	1/25/2023 12:55:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	1/26/2023 8:15:29 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-04 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:00:00 AM

 Lab ID:
 2301766-004
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/24/2023 7:54:10 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/24/2023 7:54:10 PM
Surr: DNOP	124	69-147	%Rec	1	1/24/2023 7:54:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/25/2023 1:34:00 AM
Surr: BFB	89.8	37.7-212	%Rec	1	1/25/2023 1:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/25/2023 1:34:00 AM
Toluene	ND	0.048	mg/Kg	1	1/25/2023 1:34:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/25/2023 1:34:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	1/25/2023 1:34:00 AM
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	1/25/2023 1:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	1/26/2023 8:28:21 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-05 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:05:00 AM

 Lab ID:
 2301766-005
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 1/24/2023 8:08:19 PM ND 9.5 mg/Kg 1 Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 1/24/2023 8:08:19 PM 69-147 Surr: DNOP 106 %Rec 1 1/24/2023 8:08:19 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/25/2023 1:54:00 AM 4.9 mg/Kg 1 Surr: BFB 92.8 37.7-212 %Rec 1 1/25/2023 1:54:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.025 mg/Kg 1/25/2023 1:54:00 AM 1 Toluene ND 0.049 mg/Kg 1 1/25/2023 1:54:00 AM Ethylbenzene ND 0.049 mg/Kg 1 1/25/2023 1:54:00 AM Xylenes, Total ND 0.098 mg/Kg 1 1/25/2023 1:54:00 AM Surr: 4-Bromofluorobenzene 92.4 70-130 %Rec 1 1/25/2023 1:54:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 1/26/2023 8:41:13 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-06 0-1

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:10:00 AM

 Lab ID:
 2301766-006
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/24/2023 8:21:57 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/24/2023 8:21:57 PM
Surr: DNOP	114	69-147	%Rec	1	1/24/2023 8:21:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/25/2023 2:13:00 AM
Surr: BFB	88.3	37.7-212	%Rec	1	1/25/2023 2:13:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/25/2023 2:13:00 AM
Toluene	ND	0.048	mg/Kg	1	1/25/2023 2:13:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/25/2023 2:13:00 AM
Xylenes, Total	ND	0.097	mg/Kg	1	1/25/2023 2:13:00 AM
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	1/25/2023 2:13:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	61	mg/Kg	20	1/26/2023 8:54:05 PM

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

Qualifiers:

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

ple pH Not In Range Page 6 of 37

Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-07 1-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:15:00 AM

 Lab ID:
 2301766-007
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/24/2023 8:35:56 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/24/2023 8:35:56 PM
Surr: DNOP	109	69-147	%Rec	1	1/24/2023 8:35:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/25/2023 2:33:00 AM
Surr: BFB	93.6	37.7-212	%Rec	1	1/25/2023 2:33:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	1/25/2023 2:33:00 AM
Toluene	ND	0.050	mg/Kg	1	1/25/2023 2:33:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/25/2023 2:33:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/25/2023 2:33:00 AM
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	1/25/2023 2:33:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	1/26/2023 9:06:56 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-08 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:20:00 AM

 Lab ID:
 2301766-008
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/24/2023 8:49:47 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/24/2023 8:49:47 PM
Surr: DNOP	107	69-147	%Rec	1	1/24/2023 8:49:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/25/2023 2:52:00 AM
Surr: BFB	90.9	37.7-212	%Rec	1	1/25/2023 2:52:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/25/2023 2:52:00 AM
Toluene	ND	0.047	mg/Kg	1	1/25/2023 2:52:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	1/25/2023 2:52:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	1/25/2023 2:52:00 AM
Surr: 4-Bromofluorobenzene	91.5	70-130	%Rec	1	1/25/2023 2:52:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	130	60	mg/Kg	20	1/26/2023 9:19:48 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-09 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:25:00 AM

 Lab ID:
 2301766-009
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	1/24/2023 9:03:40 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/24/2023 9:03:40 PM
Surr: DNOP	106	69-147	%Rec	1	1/24/2023 9:03:40 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/25/2023 3:11:00 AM
Surr: BFB	93.3	37.7-212	%Rec	1	1/25/2023 3:11:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/25/2023 3:11:00 AM
Toluene	ND	0.047	mg/Kg	1	1/25/2023 3:11:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	1/25/2023 3:11:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	1/25/2023 3:11:00 AM
Surr: 4-Bromofluorobenzene	93.0	70-130	%Rec	1	1/25/2023 3:11:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	61	60	mg/Kg	20	1/26/2023 9:32:40 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-10 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:30:00 AM

 Lab ID:
 2301766-010
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 1/24/2023 9:17:37 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 1/24/2023 9:17:37 PM 69-147 Surr: DNOP 104 %Rec 1 1/24/2023 9:17:37 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/25/2023 3:31:00 AM 4.6 mg/Kg 1 Surr: BFB 90.3 37.7-212 %Rec 1 1/25/2023 3:31:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.023 mg/Kg 1/25/2023 3:31:00 AM 1 Toluene ND 0.046 mg/Kg 1 1/25/2023 3:31:00 AM Ethylbenzene ND 0.046 mg/Kg 1 1/25/2023 3:31:00 AM Xylenes, Total ND 0.091 mg/Kg 1 1/25/2023 3:31:00 AM Surr: 4-Bromofluorobenzene 92.0 70-130 %Rec 1 1/25/2023 3:31:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 1/26/2023 9:45:32 PM ma/Ka 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-11 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:35:00 AM

 Lab ID:
 2301766-011
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 10 mg/Kg 1 1/24/2023 9:30:57 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 1/24/2023 9:30:57 PM 69-147 Surr: DNOP 107 %Rec 1 1/24/2023 9:30:57 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/25/2023 3:50:00 AM 4.7 mg/Kg 1 Surr: BFB 87.3 37.7-212 %Rec 1 1/25/2023 3:50:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.023 mg/Kg 1/25/2023 3:50:00 AM 1 Toluene ND 0.047 mg/Kg 1 1/25/2023 3:50:00 AM Ethylbenzene ND 0.047 mg/Kg 1 1/25/2023 3:50:00 AM Xylenes, Total ND 0.093 mg/Kg 1 1/25/2023 3:50:00 AM Surr: 4-Bromofluorobenzene 90.9 70-130 %Rec 1 1/25/2023 3:50:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 1/26/2023 9:58:24 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-12 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:40:00 AM

 Lab ID:
 2301766-012
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.7 mg/Kg 1 1/24/2023 9:44:57 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 1/24/2023 9:44:57 PM 69-147 Surr: DNOP 110 %Rec 1 1/24/2023 9:44:57 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/25/2023 4:10:00 AM 4.8 mg/Kg 1 Surr: BFB 97.2 37.7-212 %Rec 1 1/25/2023 4:10:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 1/25/2023 4:10:00 AM 1 Toluene ND 0.048 mg/Kg 1 1/25/2023 4:10:00 AM Ethylbenzene ND 0.048 mg/Kg 1 1/25/2023 4:10:00 AM Xylenes, Total ND 0.096 mg/Kg 1 1/25/2023 4:10:00 AM Surr: 4-Bromofluorobenzene 92.7 70-130 %Rec 1 1/25/2023 4:10:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 160 60 1/26/2023 10:11:15 PM ma/Ka 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-13 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:45:00 AM

 Lab ID:
 2301766-013
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 10 mg/Kg 1 1/24/2023 9:58:48 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 1/24/2023 9:58:48 PM 69-147 Surr: DNOP 138 %Rec 1 1/24/2023 9:58:48 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/25/2023 4:29:00 AM 4.9 mg/Kg 1 Surr: BFB 94.0 37.7-212 %Rec 1 1/25/2023 4:29:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 1/25/2023 4:29:00 AM 1 Toluene ND 0.049 mg/Kg 1 1/25/2023 4:29:00 AM Ethylbenzene ND 0.049 mg/Kg 1 1/25/2023 4:29:00 AM Xylenes, Total ND 0.098 mg/Kg 1 1/25/2023 4:29:00 AM Surr: 4-Bromofluorobenzene 91.9 70-130 %Rec 1 1/25/2023 4:29:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride ND 60 1/26/2023 10:49:53 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-14 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:50:00 AM

 Lab ID:
 2301766-014
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/24/2023 10:12:35 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/24/2023 10:12:35 PM
Surr: DNOP	112	69-147	%Rec	1	1/24/2023 10:12:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/25/2023 5:08:00 AM
Surr: BFB	97.7	37.7-212	%Rec	1	1/25/2023 5:08:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/25/2023 5:08:00 AM
Toluene	ND	0.046	mg/Kg	1	1/25/2023 5:08:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/25/2023 5:08:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	1/25/2023 5:08:00 AM
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	1/25/2023 5:08:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	1/26/2023 11:02:45 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-15 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 9:55:00 AM

 Lab ID:
 2301766-015
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 1/24/2023 10:26:39 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 1/24/2023 10:26:39 PM 69-147 Surr: DNOP 109 %Rec 1 1/24/2023 10:26:39 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/25/2023 5:28:00 AM 4.7 mg/Kg 1 Surr: BFB 91.7 37.7-212 %Rec 1 1/25/2023 5:28:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.023 mg/Kg 1/25/2023 5:28:00 AM 1 Toluene ND 0.047 mg/Kg 1 1/25/2023 5:28:00 AM Ethylbenzene ND 0.047 mg/Kg 1 1/25/2023 5:28:00 AM Xylenes, Total ND 0.093 mg/Kg 1 1/25/2023 5:28:00 AM Surr: 4-Bromofluorobenzene 92.8 70-130 %Rec 1 1/25/2023 5:28:00 AM **EPA METHOD 300.0: ANIONS** Analyst: NAI Chloride 60 1/26/2023 11:15:36 PM 130 ma/Ka 20

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-16 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 10:00:00 AM

 Lab ID:
 2301766-016
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/25/2023 9:46:07 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/25/2023 9:46:07 AM
Surr: DNOP	106	69-147	%Rec	1	1/25/2023 9:46:07 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/26/2023 6:34:00 PM
Surr: BFB	98.6	37.7-212	%Rec	1	1/26/2023 6:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/26/2023 6:34:00 PM
Toluene	ND	0.049	mg/Kg	1	1/26/2023 6:34:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/26/2023 6:34:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	1/26/2023 6:34:00 PM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	1/26/2023 6:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	1/26/2023 11:28:27 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-17 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 10:05:00 AM

 Lab ID:
 2301766-017
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	1/25/2023 10:17:31 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/25/2023 10:17:31 AM
Surr: DNOP	102	69-147	%Rec	1	1/25/2023 10:17:31 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/26/2023 7:33:00 PM
Surr: BFB	96.0	37.7-212	%Rec	1	1/26/2023 7:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/26/2023 7:33:00 PM
Toluene	ND	0.048	mg/Kg	1	1/26/2023 7:33:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/26/2023 7:33:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/26/2023 7:33:00 PM
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	1/26/2023 7:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	91	61	mg/Kg	20	1/26/2023 11:41:18 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-18 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 10:10:00 AM

 Lab ID:
 2301766-018
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	1/25/2023 10:28:04 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/25/2023 10:28:04 AM
Surr: DNOP	100	69-147	%Rec	1	1/25/2023 10:28:04 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/26/2023 8:31:00 PM
Surr: BFB	92.6	37.7-212	%Rec	1	1/26/2023 8:31:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	1/26/2023 8:31:00 PM
Toluene	ND	0.050	mg/Kg	1	1/26/2023 8:31:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	1/26/2023 8:31:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	1/26/2023 8:31:00 PM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	1/26/2023 8:31:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	1/26/2023 11:54:10 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-19 0-4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 10:15:00 AM

 Lab ID:
 2301766-019
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/25/2023 10:38:32 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/25/2023 10:38:32 AM
Surr: DNOP	103	69-147	%Rec	1	1/25/2023 10:38:32 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/26/2023 8:51:00 PM
Surr: BFB	94.5	37.7-212	%Rec	1	1/26/2023 8:51:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/26/2023 8:51:00 PM
Toluene	ND	0.046	mg/Kg	1	1/26/2023 8:51:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/26/2023 8:51:00 PM
Xylenes, Total	ND	0.091	mg/Kg	1	1/26/2023 8:51:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	1/26/2023 8:51:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	130	60	mg/Kg	20	1/27/2023 12:07:03 AM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-01 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 10:45:00 AM

 Lab ID:
 2301766-020
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/25/2023 10:49:05 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/25/2023 10:49:05 AM
Surr: DNOP	111	69-147	%Rec	1	1/25/2023 10:49:05 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/26/2023 9:10:00 PM
Surr: BFB	92.1	37.7-212	%Rec	1	1/26/2023 9:10:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/26/2023 9:10:00 PM
Toluene	ND	0.048	mg/Kg	1	1/26/2023 9:10:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/26/2023 9:10:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/26/2023 9:10:00 PM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	1/26/2023 9:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	66	60	mg/Kg	20	1/27/2023 12:19:54 AM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-02 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 10:50:00 AM

 Lab ID:
 2301766-021
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	1/25/2023 10:59:39 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/25/2023 10:59:39 AM
Surr: DNOP	119	69-147	%Rec	1	1/25/2023 10:59:39 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/26/2023 9:30:00 PM
Surr: BFB	90.8	37.7-212	%Rec	1	1/26/2023 9:30:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/26/2023 9:30:00 PM
Toluene	ND	0.046	mg/Kg	1	1/26/2023 9:30:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/26/2023 9:30:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	1/26/2023 9:30:00 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	1/26/2023 9:30:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	160	60	mg/Kg	20	1/26/2023 8:48:42 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-03 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 10:55:00 AM

 Lab ID:
 2301766-022
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/25/2023 11:10:13 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/25/2023 11:10:13 AM
Surr: DNOP	106	69-147	%Rec	1	1/25/2023 11:10:13 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/26/2023 9:49:00 PM
Surr: BFB	93.5	37.7-212	%Rec	1	1/26/2023 9:49:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/26/2023 9:49:00 PM
Toluene	ND	0.049	mg/Kg	1	1/26/2023 9:49:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/26/2023 9:49:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/26/2023 9:49:00 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	1/26/2023 9:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	1/26/2023 9:53:08 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-04 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 11:00:00 AM

 Lab ID:
 2301766-023
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/25/2023 11:31:24 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/25/2023 11:31:24 AM
Surr: DNOP	110	69-147	%Rec	1	1/25/2023 11:31:24 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/26/2023 10:09:00 PM
Surr: BFB	93.9	37.7-212	%Rec	1	1/26/2023 10:09:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/26/2023 10:09:00 PM
Toluene	ND	0.046	mg/Kg	1	1/26/2023 10:09:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/26/2023 10:09:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	1/26/2023 10:09:00 PM
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	1/26/2023 10:09:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/26/2023 10:31:43 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-05 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 11:05:00 AM

 Lab ID:
 2301766-024
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/25/2023 11:42:01 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/25/2023 11:42:01 AM
Surr: DNOP	106	69-147	%Rec	1	1/25/2023 11:42:01 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/26/2023 10:28:00 PM
Surr: BFB	93.0	37.7-212	%Rec	1	1/26/2023 10:28:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/26/2023 10:28:00 PM
Toluene	ND	0.048	mg/Kg	1	1/26/2023 10:28:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/26/2023 10:28:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	1/26/2023 10:28:00 PM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	1/26/2023 10:28:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	71	60	mg/Kg	20	1/26/2023 10:44:35 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-06 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 11:10:00 AM

 Lab ID:
 2301766-025
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/25/2023 11:52:37 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/25/2023 11:52:37 AM
Surr: DNOP	104	69-147	%Rec	1	1/25/2023 11:52:37 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/26/2023 10:48:00 PM
Surr: BFB	92.4	37.7-212	%Rec	1	1/26/2023 10:48:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/26/2023 10:48:00 PM
Toluene	ND	0.049	mg/Kg	1	1/26/2023 10:48:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/26/2023 10:48:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	1/26/2023 10:48:00 PM
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	1/26/2023 10:48:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	70	60	mg/Kg	20	1/26/2023 10:57:27 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-07 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 11:15:00 AM

 Lab ID:
 2301766-026
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/25/2023 12:56:10 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/25/2023 12:56:10 PM
Surr: DNOP	104	69-147	%Rec	1	1/25/2023 12:56:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/26/2023 11:27:00 PM
Surr: BFB	95.5	37.7-212	%Rec	1	1/26/2023 11:27:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/26/2023 11:27:00 PM
Toluene	ND	0.048	mg/Kg	1	1/26/2023 11:27:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/26/2023 11:27:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/26/2023 11:27:00 PM
Surr: 4-Bromofluorobenzene	92.6	70-130	%Rec	1	1/26/2023 11:27:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	81	61	mg/Kg	20	1/26/2023 11:10:19 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-08 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 11:20:00 AM

 Lab ID:
 2301766-027
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/25/2023 1:06:48 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/25/2023 1:06:48 PM
Surr: DNOP	119	69-147	%Rec	1	1/25/2023 1:06:48 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/26/2023 11:46:00 PM
Surr: BFB	90.1	37.7-212	%Rec	1	1/26/2023 11:46:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/26/2023 11:46:00 PM
Toluene	ND	0.048	mg/Kg	1	1/26/2023 11:46:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/26/2023 11:46:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/26/2023 11:46:00 PM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	1/26/2023 11:46:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	86	60	mg/Kg	20	1/26/2023 11:23:11 PM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-09 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 11:25:00 AM

 Lab ID:
 2301766-028
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	1/25/2023 1:17:26 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/25/2023 1:17:26 PM
Surr: DNOP	111	69-147	%Rec	1	1/25/2023 1:17:26 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/27/2023 12:06:00 AM
Surr: BFB	91.3	37.7-212	%Rec	1	1/27/2023 12:06:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/27/2023 12:06:00 AM
Toluene	ND	0.049	mg/Kg	1	1/27/2023 12:06:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/27/2023 12:06:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	1/27/2023 12:06:00 AM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	1/27/2023 12:06:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	1/27/2023 12:01:47 AM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-10 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 11:30:00 AM

 Lab ID:
 2301766-029
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/25/2023 1:28:05 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/25/2023 1:28:05 PM
Surr: DNOP	104	69-147	%Rec	1	1/25/2023 1:28:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/27/2023 12:25:00 AM
Surr: BFB	95.0	37.7-212	%Rec	1	1/27/2023 12:25:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	1/27/2023 12:25:00 AM
Toluene	ND	0.050	mg/Kg	1	1/27/2023 12:25:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/27/2023 12:25:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	1/27/2023 12:25:00 AM
Surr: 4-Bromofluorobenzene	92.9	70-130	%Rec	1	1/27/2023 12:25:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/27/2023 12:14:38 AM

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

Qualifiers:

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

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Date Reported: 1/30/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-11 1'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/18/2023 11:35:00 AM

 Lab ID:
 2301766-030
 Matrix: SOIL
 Received Date: 1/20/2023 7:20:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: **DGH** Diesel Range Organics (DRO) ND 9.8 mg/Kg 1 1/25/2023 1:38:44 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 1/25/2023 1:38:44 PM 69-147 Surr: DNOP 102 %Rec 1 1/25/2023 1:38:44 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 12:44:00 AM 5.0 mg/Kg 1 Surr: BFB 92.2 37.7-212 %Rec 1 1/27/2023 12:44:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 1/27/2023 12:44:00 AM 0.025 mg/Kg 1 Toluene ND 0.050 mg/Kg 1 1/27/2023 12:44:00 AM Ethylbenzene ND 0.050 mg/Kg 1 1/27/2023 12:44:00 AM Xylenes, Total ND 0.099 mg/Kg 1 1/27/2023 12:44:00 AM Surr: 4-Bromofluorobenzene 93.7 70-130 %Rec 1 1/27/2023 12:44:00 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 1/27/2023 12:27:30 AM ma/Ka 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301766**

30-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: MB-72856 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72856 RunNo: 94223

Prep Date: 1/26/2023 Analysis Date: 1/26/2023 SeqNo: 3403035 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-72856 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72856 RunNo: 94223

Prep Date: 1/26/2023 Analysis Date: 1/26/2023 SeqNo: 3403036 Units: mg/Kg

15.00

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

92.9

110

Sample ID: MB-72857 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72857 RunNo: 94230

1.5

14

Prep Date: 1/26/2023 Analysis Date: 1/26/2023 SeqNo: 3403177 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-72857 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72857 RunNo: 94230

Prep Date: 1/26/2023 Analysis Date: 1/26/2023 SeqNo: 3403178 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 98.4 90 110

Qualifiers:

Chloride

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301766**

30-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: MB-72763	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: PBS	Batch	ID: 72	763	F	RunNo: 9	4149				
Prep Date: 1/23/2023	Analysis D	ate: 1/	24/2023	8	SeqNo: 3	399774	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		98.4	69	147			
Sample ID: LCS-72763	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 72	763	F	RunNo: 9	4149				
Prep Date: 1/23/2023	Analysis D	ate: 1/	24/2023	\$	SeqNo: 3	399775	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.3	61.9	130			
Surr: DNOP	4.5		5.000		90.2	69	147			
Sample ID: 2301766-001AMS	SampT	уре: М\$	 S	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: WS23-01 0-1'	Batch	ID: 72	763	F	RunNo: 9	4149				
Prep Date: 1/23/2023	Analysis D	ate: 1/	24/2023	8	SeqNo: 3	399784	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	97.0	54.2	135			
Surr: DNOP	5.2		5.000		105	69	147			
Sample ID: 2301766-001AMS	D SampT	уре: М\$	SD	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: WS23-01 0-1'	Batch	ID: 72	763	F	RunNo: 9	4149				
Prep Date: 1/23/2023	Analysis D	ate: 1/	24/2023	8	SeqNo: 3	399785	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	49	9.8	48.88	0	99.4	54.2	135	0.183	29.2	
Surr: DNOP	5.1		4.888		104	69	147	0	0	
Sample ID: 2301766-016AMS	SampT	уре: М \$	<u> </u>	Tes	tCode: El	PA Method	8015M/D: Die	esel Rang	e Organics	
Client ID: WS23-16 0-4'	Batch	ID: 72	784	F	RunNo: 9	4184				
Prep Date: 1/24/2023	Analysis D	ate: 1/	25/2023	,	SeqNo: 3	401237	Units: mg/K	(a		

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

- 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 Quanitative Limit

PQL

10

49.90

4.990

Result

48

5.6

B Analyte detected in the associated Method Blank

97.1

112

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

SPK value SPK Ref Val %REC LowLimit

RL Reporting Limit

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%RPD

HighLimit

135

147

54.2

69

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766

30-Jan-23

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 East

- North Ft									
Sample ID: 2301766-016AMS	SD SampType: N	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: WS23-16 0-4'	Batch ID: 7	2784	RunNo: 94184						
Prep Date: 1/24/2023	Analysis Date:	/25/2023	S	SeqNo: 34	401238	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41 9.0	45.05	0	91.8	54.2	135	15.9	29.2	
Surr: DNOP	4.8	4.505		106	69	147	0	0	
Sample ID: LCS-72784	SampType: L	cs	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 7	2784	F	RunNo: 94	4184				
Prep Date: 1/24/2023	Analysis Date:	/25/2023	S	SeqNo: 34	401254	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	51 10	50.00	0	102	61.9	130			
Surr: DNOP	5.8	5.000		116	69	147			
Sample ID: MB-72784	SampType: N	SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range							
Client ID: PBS	Batch ID: 7	2784	RunNo: 94184						
Prep Date: 1/24/2023	Analysis Date:	/25/2023	S	SeqNo: 34	401255	Units: mg/K	g		
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	10	10.00		104	69	147			
Sample ID: LCS-72779	SampType: L	cs	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: LCSS	Batch ID: 7	2779	F	RunNo: 94	4189				
Prep Date: 1/24/2023	Analysis Date:	/25/2023	S	SeqNo: 34	401583	Units: %Rec	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	3.7	5.000		74.7	69	147			
Sample ID: MB-72779	SampType: N	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	e Organics	
Client ID: PBS	Batch ID: 7	2779	F	RunNo: 94	4189				
Prep Date: 1/24/2023	Analysis Date:	/25/2023	S	SeqNo: 34	401586	Units: %Rec	;		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	7.3	10.00	_	73.5	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2301766 30-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72758 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72758 RunNo: 94152

Prep Date: 1/23/2023 Analysis Date: 1/24/2023 SeqNo: 3400159 Units: mq/Kq

SPK value SPK Ref Val **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit %RPD Qual Gasoline Range Organics (GRO) 27 5.0 25.00 Λ 106 72.3 137 Surr: BFB 1100 1000 109 37.7 212

Sample ID: mb-72758 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72758 RunNo: 94152

Prep Date: 1/23/2023 Analysis Date: 1/24/2023 SeqNo: 3400160 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) ND 5.0

94.8

37.7

212

Sample ID: mb-72765 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: PBS Batch ID: 72765 RunNo: 94203

950

Prep Date: 1/23/2023 Analysis Date: 1/26/2023 SeqNo: 3402090 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 950 1000 94.8 37.7 212

Sample ID: 2301766-016ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: WS23-16 0-4' Batch ID: 72765 RunNo: 94203

Prep Date: 1/23/2023 Analysis Date: 1/26/2023 SeqNo: 3402838 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Gasoline Range Organics (GRO) 27 4.8 0 110 70 24.20 130

Surr: BFB 1100 968.1 114 37.7 212

Sample ID: 2301766-016amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: WS23-16 0-4' Batch ID: 72765 RunNo: 94203

Prep Date: 1/23/2023 Analysis Date: 1/26/2023 SeqNo: 3402841 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 4.9 0 70 20 24.27 108 130 1.94 Surr: BFB 1000 970.9 105 37.7 212 0 0

Sample ID: Ics-72765 TestCode: EPA Method 8015D: Gasoline Range SampType: LCS

Client ID: LCSS Batch ID: 72765 RunNo: 94203

Prep Date: 1/23/2023 Units: mg/Kg Analysis Date: 1/26/2023 SeqNo: 3403294

PQL SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Qualifiers:

Surr: BFB

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

Page 34 of 37

Hall Environmental Analysis Laboratory, Inc.

2301766

WO#:

30-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72765 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72765 RunNo: 94203

Prep Date: 1/23/2023 Analysis Date: 1/26/2023 SeqNo: 3403294 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 27
 5.0
 25.00
 0
 109
 72.3
 137

 Surr: BFB
 1100
 1000
 107
 37.7
 212

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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301766**

30-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72758	Samp	Гуре: LC	s	Tes	tCode: El	8021B: Vola	tiles				
Client ID: LCSS	Batc	h ID: 72	758	RunNo: 94152							
Prep Date: 1/23/2023	Analysis [Date: 1/	24/2023	5	SeqNo: 3	400370	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.93	0.025	1.000	0	93.0	80	120				
Toluene	0.93	0.050	1.000	0	92.6	80	120				
Ethylbenzene	0.91	0.050	1.000	0	91.4	80	120				
Xylenes, Total	2.7	0.10	3.000	0	91.3	80	120				
Surr: 4-Bromofluorobenzene	0.97		1.000		97.4	70	130				
Sample ID: mb-72759	Samn	Type: ME	el K	Tes	tCode: El	DA Mothod	9021B: Vola	tilos	· ·		

Sample ID: mb-72758	Sampl	ype: ME	BLK	I es	iles					
Client ID: PBS	Batch	n ID: 72	758	4152						
Prep Date: 1/23/2023	Analysis D	ate: 1/	24/2023	8	SeqNo: 3	400371	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.94		1.000		93.7	70	130			

Sample ID: mb-72765	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batch	n ID: 72	765	R	4203					
Prep Date: 1/23/2023	Analysis D	oate: 1/	26/2023	S	402091	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.1	70	130			

Sample ID: Ics-72765	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batch	n ID: 72 7	765	F	RunNo: 9	4203				
Prep Date: 1/23/2023	Analysis D	Date: 1/2	26/2023	9	SeqNo: 3	403068	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	1.000	0	95.0	80	120			
Toluene	0.95	0.050	1.000	0	94.6	80	120			
Ethylbenzene	0.93	0.050	1.000	0	93.3	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.6	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.3	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 36 of 37

Hall Environmental Analysis Laboratory, Inc.

WO#: **2301766**

30-Jan-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: 2301766-017ams	Samp	Гуре: М	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: WS23-17 0-4'	Batc	h ID: 72	765	F	RunNo: 9	4203				
Prep Date: 1/23/2023	Analysis [Date: 1/	26/2023	9	SeqNo: 3	403071	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9479	0	95.8	68.8	120			
Toluene	0.92	0.047	0.9479	0	96.8	73.6	124			
Ethylbenzene	0.90	0.047	0.9479	0	95.4	72.7	129			
Xylenes, Total	2.7	0.095	2.844	0	94.8	75.7	126			
Surr: 4-Bromofluorobenzene	0.91		0.9479		96.5	70	130			

Sample ID: 2301766-017ams	d Samp	Туре: м \$	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: WS23-17 0-4'	Batc	h ID: 72	765	F	RunNo: 9	4203				
Prep Date: 1/23/2023	Analysis [Date: 1/	26/2023	\$	SeqNo: 3	403072	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.024	0.9470	0	97.6	68.8	120	1.81	20	
Toluene	0.95	0.047	0.9470	0	99.8	73.6	124	2.95	20	
Ethylbenzene	0.94	0.047	0.9470	0	99.1	72.7	129	3.68	20	
Xylenes, Total	2.8	0.095	2.841	0	98.5	75.7	126	3.67	20	
Surr: 4-Bromofluorobenzene	0.90		0.9470		95.3	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 37 of 37



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

	x Resources ces, Inc.	Work Order Numb	per: 2301766		RcptNo:	1
Received By: Juan	ı Rojas	1/20/2023 7:20:00	AM	Grandy !		
Completed By: Sea	n Livingston	1/20/2023 8:42:32 /	AM.	June J.	got-	
Reviewed By:	1-20-23					
Chain of Custody				🗖		
1. Is Chain of Custody			Yes 🗌	No 🔽	Not Present	
2. How was the sample	e delivered?		Courier			
Log In 3. Was an attempt made	do to cool the compl	002	Yes 🗹	No 🗆	na 🗆	
o. was an attempt mat	de to cool the sampl	es?	res 💌	NO L	IVA L	
4. Were all samples re-	ceived at a temperat	ture of >0° C to 6.0°C	Yes 🗹	No 🗆	NA 🗆	
5. Sample(s) in proper	container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample vo	ume for indicated te	st(s)?	Yes 🗹	No 🗌		
7. Are samples (except	VOA and ONG) pro	perly preserved?	Yes 🗹	No 🗌		
8. Was preservative ad	ded to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least 1 v	ial with headspace	<1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any sample co	intainers received b	roken?	Yes	No 🗹	# of preserved	
11. Does paperwork mat			Yes 🗹	No 🗆	bottles checked for pH:	
(Note discrepancies			v	No 🗆	(<2 or Adjusted?	>12 unless noted)
12. Are matrices correctled to the series of the series		-	Yes ✔ Yes ✔	No 🗆	_	, 6
13. Is it clear what ahaly 14. Were all holding time			Yes 🗹	No 🗆	Checked by:	Jn/20/2
(If no, notify custome			ies 🖭			
Special Handling (i	f applicable)					
15. Was client notified of	f all discrepancies v	vith this order?	Yes 🗌	No 🗌	NA 🗹	_
Person Notifie	d:	Date:		-		
By Whom:		Via:	eMail F	Phone 🗌 Fax	☐ In Person	
Regarding:						
Client Instruct	ons:	, , , , , , , , , , , , , , , , , , , ,				
16. Additional remarks:						_
17. Cooler Information	1					
	np °C Condition	Seal Intact Seal No	Seal Date	Signed By		
1 1.6	Good	Not Present YOGI		Participa de la constitución de		

Page 305 of 624

ANALYSIS LABORATORY HALL ENVIRONMENTAL 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com cc. kstallings@vertex.ca for Final Report Analysis Request Total Coliform (Present/Absent) (AOV-ima2) 07S8 Direct bill to Devon, Dale Woodall (AOV) 09S8 NO₂, PO₄, SO₄ Cl' E' Br' 1003' × × × × × × \times × × × × × Tel. 505-345-3975 RCRA 8 Metals 2MI20728 to 0168 yd eHA9 EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: (OAM \ OAG \ OAS)@\$108:H9T × × × × × × × × × × × × BTEX / MTBE / TMB's (8021) × × × × × × × × × × × 70018 120173 4'20 ჯ % 9 803 g 83 202 500 S 750 200 (00 3 202 2301766 Time HEAL No. A Rush G Daux North Pure Gold 8 Federal #006 East 200 [9/13 4 2 Preservative L. Pullmar Received by: Via: Cooler Temp(including CF): kstallings@vertex.ca 1 Yes Type Turn-Around Time: ζia: Project Manager: 22E-02816-07 Project Name: Kent Stallings 以 Standard # of Coolers: Container Type and # 1, 4oz jar Received by: Project #: Sampler: On Ice: ☐ Level 4 (Full Validation) Received @ MS Mid & World & Mecord Sample Name WS23-01 0-1' NS23-02 0-11 WS23-03 0-1' WS23-04 0-4' WS23-05 0-4' WS23-06 0-1' WS23-07 1-4' NS23-08 0-4' WS23-09 0-4' WS23-10 0-4' WS23-11 0-4' WS23-12 0-4' MUMATURA direct bill to Devon) Az Compliance Relinquished by: Relinquished by: □ Other_ Matrix Vertex Soil Soil Soil Soil Soii Soil Soil Soil Soil Soil Soil Soil Mailing Address QA/QC Package: Time EDD (Type) 8:45 8:55 9:02 9:10 9:15 9:25 8.50 9:00 9:20 9:30 9:35 9:40 8 email or Fax#: Accreditation: 00:10 ime: Time: □ Standard □ NELAC Phone #: 01/18/23 01/18/23 01/18/23 01/18/23 01/18/23 01/18/23 01/18/23 01/18/23 01/18/23 01/18/23 01/18/23 01/18/23 Date 1-11-1-13 Date:

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

Page 306 of 624 HALL ENVIRONMENTAL Turn-Around Time: Received CHOSHI 38 P. O. USWOOD WRECORD Client: ĭĕ |

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Standard	Project Nam	North Pure	Project #:	22E-02816-07	Project Manager:	Kent Stalling	kstallings@vertex.ca	Sampler:	On Ice:	# of Coolers:	Cooler Temp(including CF):	Container Type and #	1, 4oz jar	1, 4oz jar	1, 4oz jar	1, 4oz jar	1, 4oz jar	1, 4oz jar	Received by:	chuun	Received by:	1	contracted to other						
	(direct bill to Devon)						☐ Level 4 (Full Validation)	☐ Az Compliance	dispression and the second sec			Sample Name	WS23-13 0-4'	WS23-14 0-4'	WS23-15 0-4'	WS23-16 0-4'	WS23-17 0-4'	WS23-18 0-4'	WS23-19 0-4'	BS23-01 1'	BS23-02 1'	BS23-03 1'	BS23-04 1'	BS23-05 1'	by:	Um	.*Xq pe	Chumun	f necessary samples submitted to Hall Environmental may be submitted to other
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Client:		Mailing Address:		Phone #:	email or Fax#;	QA/QC Package:	□ Standard	Accreditation:	□ NELAC	☐ EDD (Type		Date -	01/18/23	01/18/23	01/18/23	01/18/23	01/18/23	01/18/23	01/18/23	01/18/23	01/18/23	01/18/23	01/18/23	/23		N-19-18	Date: T	19/13	±

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

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01/18/23	11:15	Soil	BS23-07 1'	1, 4oz jar		0720	×	×	-		×					-		
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

February 01, 2023

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

FAX

RE: North Pure Gold 8 Federal 006 East OrderNo.: 2301815

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 29 sample(s) on 1/21/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-12 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 9:35:00 AM

 Lab ID:
 2301815-001
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/27/2023 1:45:27 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/27/2023 1:45:27 AM
Surr: DNOP	97.0	69-147	%Rec	1	1/27/2023 1:45:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/27/2023 5:12:03 AM
Surr: BFB	110	37.7-212	%Rec	1	1/27/2023 5:12:03 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/27/2023 5:12:03 AM
Toluene	ND	0.047	mg/Kg	1	1/27/2023 5:12:03 AM
Ethylbenzene	ND	0.047	mg/Kg	1	1/27/2023 5:12:03 AM
Xylenes, Total	ND	0.095	mg/Kg	1	1/27/2023 5:12:03 AM
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	1/27/2023 5:12:03 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	440	60	mg/Kg	20	1/27/2023 2:12:49 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-13 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 9:40:00 AM

 Lab ID:
 2301815-002
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/25/2023 10:46:01 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/25/2023 10:46:01 PM
Surr: DNOP	76.5	69-147	%Rec	1	1/25/2023 10:46:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/27/2023 5:35:09 AM
Surr: BFB	107	37.7-212	%Rec	1	1/27/2023 5:35:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/27/2023 5:35:09 AM
Toluene	ND	0.046	mg/Kg	1	1/27/2023 5:35:09 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/27/2023 5:35:09 AM
Xylenes, Total	ND	0.093	mg/Kg	1	1/27/2023 5:35:09 AM
Surr: 4-Bromofluorobenzene	104	70-130	%Rec	1	1/27/2023 5:35:09 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	860	60	mg/Kg	20	1/27/2023 2:25:09 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-14 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 9:45:00 AM

 Lab ID:
 2301815-003
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/25/2023 12:08:16 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/25/2023 12:08:16 PM
Surr: DNOP	132	69-147	%Rec	1	1/25/2023 12:08:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/27/2023 4:18:00 AM
Surr: BFB	90.4	37.7-212	%Rec	1	1/27/2023 4:18:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/27/2023 4:18:00 AM
Toluene	ND	0.048	mg/Kg	1	1/27/2023 4:18:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/27/2023 4:18:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	1/27/2023 4:18:00 AM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	1/27/2023 4:18:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	830	60	mg/Kg	20	1/27/2023 2:37:30 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-15 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 9:50:00 AM

 Lab ID:
 2301815-004
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 1/25/2023 12:51:07 PM Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 1/25/2023 12:51:07 PM 69-147 Surr: DNOP %Rec 1 1/25/2023 12:51:07 PM 118 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 5:17:00 AM 4.7 mg/Kg 1 Surr: BFB 93.8 37.7-212 %Rec 1 1/27/2023 5:17:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 1/27/2023 5:17:00 AM 1 Toluene ND 0.047 mg/Kg 1 1/27/2023 5:17:00 AM Ethylbenzene ND 0.047 mg/Kg 1 1/27/2023 5:17:00 AM Xylenes, Total ND 0.095 mg/Kg 1 1/27/2023 5:17:00 AM Surr: 4-Bromofluorobenzene 95.2 70-130 %Rec 1 1/27/2023 5:17:00 AM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride 310 60 1/27/2023 2:49:51 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-16 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 9:55:00 AM

 Lab ID:
 2301815-005
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	1/25/2023 1:04:55 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/25/2023 1:04:55 PM
Surr: DNOP	114	69-147	%Rec	1	1/25/2023 1:04:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/27/2023 6:15:00 AM
Surr: BFB	90.6	37.7-212	%Rec	1	1/27/2023 6:15:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	1/27/2023 6:15:00 AM
Toluene	ND	0.050	mg/Kg	1	1/27/2023 6:15:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/27/2023 6:15:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	1/27/2023 6:15:00 AM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	1/27/2023 6:15:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	230	60	mg/Kg	20	1/27/2023 3:02:12 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-17 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:00:00 AM

 Lab ID:
 2301815-006
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	1/25/2023 1:18:45 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/25/2023 1:18:45 PM
Surr: DNOP	135	69-147	%Rec	1	1/25/2023 1:18:45 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/27/2023 6:34:00 AM
Surr: BFB	96.8	37.7-212	%Rec	1	1/27/2023 6:34:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/27/2023 6:34:00 AM
Toluene	ND	0.047	mg/Kg	1	1/27/2023 6:34:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	1/27/2023 6:34:00 AM
Xylenes, Total	ND	0.094	mg/Kg	1	1/27/2023 6:34:00 AM
Surr: 4-Bromofluorobenzene	93.8	70-130	%Rec	1	1/27/2023 6:34:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	100	60	mg/Kg	20	1/27/2023 3:14:33 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-18 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:05:00 AM

 Lab ID:
 2301815-007
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/25/2023 1:32:42 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/25/2023 1:32:42 PM
Surr: DNOP	124	69-147	%Rec	1	1/25/2023 1:32:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/27/2023 10:09:00 AM
Surr: BFB	97.5	37.7-212	%Rec	1	1/27/2023 10:09:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/27/2023 10:09:00 AM
Toluene	ND	0.047	mg/Kg	1	1/27/2023 10:09:00 AM
Ethylbenzene	ND	0.047	mg/Kg	1	1/27/2023 10:09:00 AM
Xylenes, Total	ND	0.093	mg/Kg	1	1/27/2023 10:09:00 AM
Surr: 4-Bromofluorobenzene	97.7	70-130	%Rec	1	1/27/2023 10:09:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	360	60	mg/Kg	20	1/27/2023 3:26:54 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-19 4'

Project: North Pure Gold 8 Federal 006 East Collection Date: 1/19/2023 10:10:00 AM

Lab ID: 2301815-008 **Matrix:** SOIL **Received Date:** 1/21/2023 10:30:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/25/2023 1:46:50 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/25/2023 1:46:50 PM
Surr: DNOP	119	69-147	%Rec	1	1/25/2023 1:46:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/27/2023 10:28:00 AM
Surr: BFB	94.8	37.7-212	%Rec	1	1/27/2023 10:28:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/27/2023 10:28:00 AM
Toluene	ND	0.048	mg/Kg	1	1/27/2023 10:28:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/27/2023 10:28:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	1/27/2023 10:28:00 AM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	1/27/2023 10:28:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	210	60	mg/Kg	20	1/27/2023 4:53:19 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-20 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:15:00 AM

 Lab ID:
 2301815-009
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	1/25/2023 2:01:17 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/25/2023 2:01:17 PM
Surr: DNOP	120	69-147	%Rec	1	1/25/2023 2:01:17 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/27/2023 10:48:00 AM
Surr: BFB	95.6	37.7-212	%Rec	1	1/27/2023 10:48:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	1/27/2023 10:48:00 AM
Toluene	ND	0.049	mg/Kg	1	1/27/2023 10:48:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/27/2023 10:48:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/27/2023 10:48:00 AM
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	1/27/2023 10:48:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	480	60	mg/Kg	20	1/27/2023 5:30:20 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-21 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:20:00 AM

 Lab ID:
 2301815-010
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: DGH			
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/26/2023 11:33:40 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/26/2023 11:33:40 AM
Surr: DNOP	132	69-147	%Rec	1	1/26/2023 11:33:40 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/27/2023 11:07:00 AM
Surr: BFB	95.1	37.7-212	%Rec	1	1/27/2023 11:07:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/27/2023 11:07:00 AM
Toluene	ND	0.048	mg/Kg	1	1/27/2023 11:07:00 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/27/2023 11:07:00 AM
Xylenes, Total	ND	0.095	mg/Kg	1	1/27/2023 11:07:00 AM
Surr: 4-Bromofluorobenzene	98.4	70-130	%Rec	1	1/27/2023 11:07:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	300	60	mg/Kg	20	1/27/2023 6:32:04 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-22 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:25:00 AM

 Lab ID:
 2301815-011
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.6 mg/Kg 1 1/25/2023 2:28:45 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 1/25/2023 2:28:45 PM 69-147 Surr: DNOP 114 %Rec 1 1/25/2023 2:28:45 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 11:27:00 AM 4.7 mg/Kg 1 Surr: BFB 98.8 37.7-212 %Rec 1 1/27/2023 11:27:00 AM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 1/27/2023 11:27:00 AM 0.023 mg/Kg 1 Toluene ND 0.047 mg/Kg 1 1/27/2023 11:27:00 AM Ethylbenzene ND 0.047 mg/Kg 1 1/27/2023 11:27:00 AM Xylenes, Total ND 0.093 mg/Kg 1 1/27/2023 11:27:00 AM Surr: 4-Bromofluorobenzene 98.2 70-130 %Rec 1 1/27/2023 11:27:00 AM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride 470 60 1/27/2023 6:44:26 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-23 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:30:00 AM

 Lab ID:
 2301815-012
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/25/2023 2:42:59 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/25/2023 2:42:59 PM
Surr: DNOP	143	69-147	%Rec	1	1/25/2023 2:42:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/27/2023 11:46:00 AM
Surr: BFB	95.2	37.7-212	%Rec	1	1/27/2023 11:46:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	1/27/2023 11:46:00 AM
Toluene	ND	0.049	mg/Kg	1	1/27/2023 11:46:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/27/2023 11:46:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/27/2023 11:46:00 AM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	1/27/2023 11:46:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	530	60	mg/Kg	20	1/27/2023 6:56:47 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-24 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:35:00 AM

 Lab ID:
 2301815-013
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: SB
Diesel Range Organics (DRO)	ND	9.0		mg/Kg	1	1/25/2023 2:56:56 PM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	1/25/2023 2:56:56 PM
Surr: DNOP	156	69-147	S	%Rec	1	1/25/2023 2:56:56 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	1/27/2023 12:26:00 PM
Surr: BFB	98.5	37.7-212		%Rec	1	1/27/2023 12:26:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.023		mg/Kg	1	1/27/2023 12:26:00 PM
Toluene	ND	0.047		mg/Kg	1	1/27/2023 12:26:00 PM
Ethylbenzene	ND	0.047		mg/Kg	1	1/27/2023 12:26:00 PM
Xylenes, Total	ND	0.093		mg/Kg	1	1/27/2023 12:26:00 PM
Surr: 4-Bromofluorobenzene	99.4	70-130		%Rec	1	1/27/2023 12:26:00 PM
EPA METHOD 300.0: ANIONS						Analyst: JTT
Chloride	950	60		mg/Kg	20	1/27/2023 7:09:07 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-25 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:40:00 AM

 Lab ID:
 2301815-014
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 1/25/2023 3:10:48 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 1/25/2023 3:10:48 PM 69-147 Surr: DNOP %Rec 1 1/25/2023 3:10:48 PM 116 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 12:45:00 PM 4.9 mg/Kg 1 Surr: BFB 99.8 37.7-212 %Rec 1 1/27/2023 12:45:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 1/27/2023 12:45:00 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 1/27/2023 12:45:00 PM Ethylbenzene ND 0.049 mg/Kg 1 1/27/2023 12:45:00 PM Xylenes, Total ND 0.098 mg/Kg 1 1/27/2023 12:45:00 PM Surr: 4-Bromofluorobenzene 99.2 70-130 %Rec 1 1/27/2023 12:45:00 PM **EPA METHOD 300.0: ANIONS** Analyst: JTT Chloride 690 60 1/27/2023 7:21:28 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-26 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:45:00 AM

 Lab ID:
 2301815-015
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	1/25/2023 3:24:35 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/25/2023 3:24:35 PM
Surr: DNOP	128	69-147	%Rec	1	1/25/2023 3:24:35 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/27/2023 1:05:00 PM
Surr: BFB	103	37.7-212	%Rec	1	1/27/2023 1:05:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	1/27/2023 1:05:00 PM
Toluene	ND	0.049	mg/Kg	1	1/27/2023 1:05:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/27/2023 1:05:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	1/27/2023 1:05:00 PM
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	1/27/2023 1:05:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	380	60	mg/Kg	20	1/27/2023 7:33:49 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-27 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:50:00 AM

 Lab ID:
 2301815-016
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	1/25/2023 3:38:15 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/25/2023 3:38:15 PM
Surr: DNOP	124	69-147	%Rec	1	1/25/2023 3:38:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/27/2023 1:25:00 PM
Surr: BFB	98.9	37.7-212	%Rec	1	1/27/2023 1:25:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/27/2023 1:25:00 PM
Toluene	ND	0.047	mg/Kg	1	1/27/2023 1:25:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/27/2023 1:25:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	1/27/2023 1:25:00 PM
Surr: 4-Bromofluorobenzene	99.0	70-130	%Rec	1	1/27/2023 1:25:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	500	60	mg/Kg	20	1/27/2023 7:46:09 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-28 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 10:55:00 AM

 Lab ID:
 2301815-017
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) 9.8 8.7 mg/Kg 1 1/25/2023 3:52:13 PM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 1/25/2023 3:52:13 PM 69-147 Surr: DNOP 116 %Rec 1 1/25/2023 3:52:13 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 2:04:00 PM 4.8 mg/Kg 1 Surr: BFB 101 37.7-212 %Rec 1 1/27/2023 2:04:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 1/27/2023 2:04:00 PM 1 Toluene ND 0.048 mg/Kg 1 1/27/2023 2:04:00 PM Ethylbenzene ND 0.048 mg/Kg 1 1/27/2023 2:04:00 PM Xylenes, Total ND 0.097 mg/Kg 1 1/27/2023 2:04:00 PM Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 1/27/2023 2:04:00 PM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride 1300 60 1/27/2023 7:58:30 PM ma/Ka 20

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

Qualifiers:

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

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EPA METHOD 300.0: ANIONS

Chloride

Analytical ReportLab Order **2301815**

Date Reported: 2/1/2023

Analyst: JTT

1/27/2023 8:10:51 PM

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-29 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:00:00 AM

 Lab ID:
 2301815-018
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 1/25/2023 4:20:06 PM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 1/25/2023 4:20:06 PM Surr: DNOP 121 69-147 %Rec 1 1/25/2023 4:20:06 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 2:24:00 PM 4.6 mg/Kg 1 Surr: BFB 95.4 37.7-212 %Rec 1 1/27/2023 2:24:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 1/27/2023 2:24:00 PM 0.023 mg/Kg 1 Toluene ND 0.046 mg/Kg 1 1/27/2023 2:24:00 PM Ethylbenzene ND 0.046 mg/Kg 1 1/27/2023 2:24:00 PM Xylenes, Total ND 0.093 mg/Kg 1 1/27/2023 2:24:00 PM Surr: 4-Bromofluorobenzene 98.8 70-130 %Rec 1 1/27/2023 2:24:00 PM

470

60

ma/Ka

20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-30 4'

Project: North Pure Gold 8 Federal 006 East Collection Date: 1/19/2023 11:05:00 AM Lab ID: 2301815-019 Matrix: SOIL Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 8.6 mg/Kg 1 1/25/2023 4:33:50 PM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 1/25/2023 4:33:50 PM Surr: DNOP 132 69-147 %Rec 1 1/25/2023 4:33:50 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 2:43:00 PM 4.8 mg/Kg 1 Surr: BFB 100 37.7-212 %Rec 1 1/27/2023 2:43:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 1/27/2023 2:43:00 PM 1 Toluene ND 0.048 mg/Kg 1 1/27/2023 2:43:00 PM Ethylbenzene ND 0.048 mg/Kg 1 1/27/2023 2:43:00 PM Xylenes, Total ND 0.096 mg/Kg 1 1/27/2023 2:43:00 PM Surr: 4-Bromofluorobenzene 98.4 70-130 %Rec 1 1/27/2023 2:43:00 PM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride 500 60 1/27/2023 8:23:12 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value

ma/Ka

20

- J Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit RL

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-31 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:10:00 AM

 Lab ID:
 2301815-020
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 8.5 mg/Kg 1 1/25/2023 4:47:35 PM Motor Oil Range Organics (MRO) ND 43 mg/Kg 1 1/25/2023 4:47:35 PM Surr: DNOP 119 69-147 %Rec 1 1/25/2023 4:47:35 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 3:03:00 PM 4.6 mg/Kg 1 Surr: BFB 99.3 37.7-212 %Rec 1 1/27/2023 3:03:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.023 mg/Kg 1/27/2023 3:03:00 PM 1 Toluene ND 0.046 mg/Kg 1 1/27/2023 3:03:00 PM Ethylbenzene ND 0.046 mg/Kg 1 1/27/2023 3:03:00 PM Xylenes, Total ND 0.093 mg/Kg 1 1/27/2023 3:03:00 PM Surr: 4-Bromofluorobenzene 100 70-130 %Rec 1 1/27/2023 3:03:00 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 250 60 1/30/2023 2:19:46 PM ma/Ka 20

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-32 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:15:00 AM

 Lab ID:
 2301815-021
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 8.9 mg/Kg 1 1/25/2023 5:01:31 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 1/25/2023 5:01:31 PM 69-147 Surr: DNOP 122 %Rec 1 1/25/2023 5:01:31 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 3:23:00 PM 4.9 mg/Kg 1 Surr: BFB 102 37.7-212 %Rec 1 1/27/2023 3:23:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.025 mg/Kg 1/27/2023 3:23:00 PM 1 Toluene ND 0.049 mg/Kg 1 1/27/2023 3:23:00 PM Ethylbenzene ND 0.049 mg/Kg 1 1/27/2023 3:23:00 PM Xylenes, Total ND 0.099 mg/Kg 1 1/27/2023 3:23:00 PM Surr: 4-Bromofluorobenzene 102 70-130 %Rec 1 1/27/2023 3:23:00 PM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride 290 60 1/27/2023 9:12:34 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-33 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:20:00 AM

 Lab ID:
 2301815-022
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.9 mg/Kg 1 1/25/2023 5:15:07 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 1/25/2023 5:15:07 PM Surr: DNOP 127 69-147 %Rec 1 1/25/2023 5:15:07 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/27/2023 3:43:00 PM 4.9 mg/Kg 1 Surr: BFB 92.9 37.7-212 %Rec 1 1/27/2023 3:43:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.024 mg/Kg 1/27/2023 3:43:00 PM 1 Toluene ND 0.049 mg/Kg 1 1/27/2023 3:43:00 PM Ethylbenzene ND 0.049 mg/Kg 1 1/27/2023 3:43:00 PM Xylenes, Total ND 0.098 mg/Kg 1 1/27/2023 3:43:00 PM Surr: 4-Bromofluorobenzene 95.3 70-130 %Rec 1 1/27/2023 3:43:00 PM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride 200 59 1/27/2023 9:24:54 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-34 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:25:00 AM

 Lab ID:
 2301815-023
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/26/2023 9:21:53 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/26/2023 9:21:53 PM
Surr: DNOP	120	69-147	%Rec	1	1/26/2023 9:21:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/25/2023 8:24:00 PM
Surr: BFB	99.6	37.7-212	%Rec	1	1/25/2023 8:24:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/25/2023 8:24:00 PM
Toluene	ND	0.047	mg/Kg	1	1/25/2023 8:24:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/25/2023 8:24:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	1/25/2023 8:24:00 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	1/25/2023 8:24:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	170	60	mg/Kg	20	1/27/2023 9:37:14 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-35 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:30:00 AM

 Lab ID:
 2301815-024
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/26/2023 9:32:19 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/26/2023 9:32:19 PM
Surr: DNOP	108	69-147	%Rec	1	1/26/2023 9:32:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/25/2023 9:23:00 PM
Surr: BFB	93.9	37.7-212	%Rec	1	1/25/2023 9:23:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/25/2023 9:23:00 PM
Toluene	ND	0.047	mg/Kg	1	1/25/2023 9:23:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/25/2023 9:23:00 PM
Xylenes, Total	ND	0.093	mg/Kg	1	1/25/2023 9:23:00 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	1/25/2023 9:23:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	380	60	mg/Kg	20	1/27/2023 9:49:35 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-36 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:35:00 AM

 Lab ID:
 2301815-025
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/26/2023 9:42:47 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/26/2023 9:42:47 PM
Surr: DNOP	115	69-147	%Rec	1	1/26/2023 9:42:47 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/25/2023 10:21:00 PM
Surr: BFB	95.6	37.7-212	%Rec	1	1/25/2023 10:21:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/25/2023 10:21:00 PM
Toluene	ND	0.048	mg/Kg	1	1/25/2023 10:21:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/25/2023 10:21:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/25/2023 10:21:00 PM
Surr: 4-Bromofluorobenzene	93.5	70-130	%Rec	1	1/25/2023 10:21:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	550	59	mg/Kg	20	1/27/2023 10:01:55 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-37 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:40:00 AM

 Lab ID:
 2301815-026
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/26/2023 9:53:15 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/26/2023 9:53:15 PM
Surr: DNOP	111	69-147	%Rec	1	1/26/2023 9:53:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/25/2023 10:41:00 PM
Surr: BFB	90.9	37.7-212	%Rec	1	1/25/2023 10:41:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/25/2023 10:41:00 PM
Toluene	ND	0.047	mg/Kg	1	1/25/2023 10:41:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/25/2023 10:41:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/25/2023 10:41:00 PM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	1/25/2023 10:41:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	460	60	mg/Kg	20	1/27/2023 10:14:15 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-38 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:45:00 AM

 Lab ID:
 2301815-027
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	1/26/2023 10:03:44 PM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/26/2023 10:03:44 PM
Surr: DNOP	118	69-147	%Rec	1	1/26/2023 10:03:44 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/25/2023 11:00:00 PM
Surr: BFB	90.6	37.7-212	%Rec	1	1/25/2023 11:00:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	1/25/2023 11:00:00 PM
Toluene	ND	0.048	mg/Kg	1	1/25/2023 11:00:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/25/2023 11:00:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	1/25/2023 11:00:00 PM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	1/25/2023 11:00:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	420	60	mg/Kg	20	1/27/2023 10:26:35 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-39 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:50:00 AM

 Lab ID:
 2301815-028
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/26/2023 10:14:13 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/26/2023 10:14:13 PM
Surr: DNOP	121	69-147	%Rec	1	1/26/2023 10:14:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/25/2023 11:19:00 PM
Surr: BFB	92.3	37.7-212	%Rec	1	1/25/2023 11:19:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	1/25/2023 11:19:00 PM
Toluene	ND	0.046	mg/Kg	1	1/25/2023 11:19:00 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/25/2023 11:19:00 PM
Xylenes, Total	ND	0.092	mg/Kg	1	1/25/2023 11:19:00 PM
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	1/25/2023 11:19:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JTT
Chloride	610	60	mg/Kg	20	1/27/2023 10:38:56 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-40 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/19/2023 11:55:00 AM

 Lab ID:
 2301815-029
 Matrix: SOIL
 Received Date: 1/21/2023 10:30:00 AM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.3 mg/Kg 1 1/26/2023 10:35:04 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 1/26/2023 10:35:04 PM 69-147 Surr: DNOP 121 %Rec 1 1/26/2023 10:35:04 PM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 1/25/2023 11:39:00 PM 4.9 mg/Kg 1 Surr: BFB 90.2 37.7-212 %Rec 1 1/25/2023 11:39:00 PM **EPA METHOD 8021B: VOLATILES** Analyst: CCM Benzene ND 0.025 mg/Kg 1/25/2023 11:39:00 PM 1 Toluene ND 0.049 mg/Kg 1 1/25/2023 11:39:00 PM Ethylbenzene ND 0.049 mg/Kg 1 1/25/2023 11:39:00 PM Xylenes, Total ND 0.099 mg/Kg 1 1/25/2023 11:39:00 PM Surr: 4-Bromofluorobenzene 94.3 70-130 %Rec 1 1/25/2023 11:39:00 PM Analyst: JTT **EPA METHOD 300.0: ANIONS** Chloride 860 60 1/27/2023 11:40:38 PM ma/Ka 20

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301815**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: MB-72863 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72863 RunNo: 94247

Prep Date: 1/27/2023 Analysis Date: 1/27/2023 SeqNo: 3403855 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-72863 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72863 RunNo: 94247

Prep Date: 1/27/2023 Analysis Date: 1/27/2023 SeqNo: 3403856 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 96.5 90 110

Sample ID: MB-72867 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72867 RunNo: 94247

Prep Date: 1/27/2023 Analysis Date: 1/27/2023 SeqNo: 3403887 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-72867 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72867 RunNo: 94247

Prep Date: 1/27/2023 Analysis Date: 1/27/2023 SeqNo: 3403888 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.8 90 110

Sample ID: MB-72871 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72871 RunNo: 94247

Prep Date: 1/27/2023 Analysis Date: 1/27/2023 SeqNo: 3403889 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-72871 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72871 RunNo: 94247

Prep Date: 1/27/2023 Analysis Date: 1/27/2023 SeqNo: 3403890 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.8 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 Quanitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301815**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: MB-72792	SampType	: MBLK	Tes	tCode: EPA Method	8015M/D: Diesel R	ange Organics	
Client ID: PBS	Batch ID	: 72792	F	RunNo: 94166			
Prep Date: 1/24/2023	Analysis Date	1/25/2023	S	SeqNo: 3400838	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10					
Motor Oil Range Organics (MRO)	ND	50					
Surr: DNOP	11	10.00		113 69	147		
Sample ID: LCS-72792	SampType	: LCS	Tes	tCode: EPA Method	8015M/D: Diesel R	ange Organics	
Client ID: LCSS	Batch ID	: 72792	F	RunNo: 94166			
Prep Date: 1/24/2023	Analysis Date	1/25/2023	S	SeqNo: 3400839	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	53	10 50.00	0	105 61.9	130		
Surr: DNOP	5.1	5.000		101 69	147		
Sample ID: 2301815-003AM	S SampType	e: MS	Tes	tCode: EPA Method	8015M/D: Diesel R	ange Organics	
Client ID: BS23-14 4'	Batch ID	: 72792	F	RunNo: 94166			
Prep Date: 1/24/2023	Analysis Date	1/25/2023	S	SeqNo: 3400841	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.5 47.62	0	97.4 54.2	135		
Surr: DNOP	5.1	4.762		107 69	147		
Sample ID: 2301815-003AM	SD SampType	e: MSD	Tes	tCode: EPA Method	8015M/D: Diesel R	ange Organics	
Client ID: BS23-14 4'	Batch ID	: 72792	F	RunNo: 94166			
Prep Date: 1/24/2023	Analysis Date	1/25/2023	S	SeqNo: 3400842	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	53	9.4 46.90	0	114 54.2	135 1	3.9 29.2	
Surr: DNOP	5.8	4.690		123 69	147	0 0	
Sample ID: MB-72786	SampType	: MBLK	Tes	tCode: EPA Method	8015M/D: Diesel R	ange Organics	
Client ID: PBS	Batch ID	: 72786	F	RunNo: 94166			
Prep Date: 1/24/2023	Analysis Date	: 1/25/2023	S	SeqNo: 3401684	Units: mg/Kg		
Analyte	Result P	QL SPK value	SPK Ref Val	%REC LowLimit	HighLimit %R	PD RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10	- 				· · · · · · · · · · · · · · · · · · ·

Qualifiers:

Surr: DNOP

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Motor Oil Range Organics (MRO)

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

ND

9.4

50

10.00

B Analyte detected in the associated Method Blank

93.5

147

69

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

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Hall Environmental Analysis Laboratory, Inc.

44

4.7

WO#: **2301815** *01-Feb-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: LCS-72786	SampT	ype: LC	S	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch	ID: 72	786	F	RunNo: 9	4166				
Prep Date: 1/24/2023	Analysis Da	ate: 1/	25/2023	5	SeqNo: 3	401685	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	86.7	61.9	130			
Surr: DNOP	4.7		5.000		94.7	69	147			
Sample ID: 2301815-023AMS	SampT	ype: MS	6	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BS23-34 4'	Batch	ID: 72	802	F	RunNo: 9	4207				
Prep Date: 1/25/2023	Analysis Da	ate: 1/	27/2023	9	SeqNo: 3	403387	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	41	9.1	45.50	0	90.1	54.2	135			
Surr: DNOP	4.5		4.550		98.6	69	147			
Sample ID: 2301815-023AMSI	SampT	уре: МS	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BS23-34 4'	Batch	ID: 72	802	F	RunNo: 9	4207				
Prep Date: 1/25/2023	Analysis Da	ate: 1/	27/2023	5	SeqNo: 3	403388	Units: mg/k	(g		
Analyte	Result	POI	SPK value	SPK Ref Val	%RFC	I owl imit	Highl imit	%RPD	RPDI imit	Qual

Sample ID: LCS-72802	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics	
Client ID: LCSS	Batcl	n ID: 72 8	802	F	RunNo: 9	4207				
Prep Date: 1/25/2023	Analysis D	ate: 1/	26/2023	S	SeqNo: 3	403440	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.8	61.9	130			
Surr: DNOP	6.5		5.000		129	69	147			

93.9

101

54.2

69

7.58

0

147

29.2

0

47.08

4.708

Sample ID: MB-72802	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 72 8	302	F	RunNo: 94	4207				
Prep Date: 1/25/2023	Analysis D	ate: 1/	26/2023	8	SeqNo: 34	403444	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	12		10.00		115	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit

Diesel Range Organics (DRO)

Surr: DNOP

- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301815**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72788	SampType: LC	s	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	·
Client ID: LCSS	Batch ID: 72	788	R	tunNo: 94	183				
Prep Date: 1/24/2023	Analysis Date: 1/	25/2023	S	SeqNo: 34	01190	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	0) 28 5.0	25.00	0	111	72.3	137			
Surr: BFB	1100	1000		111	37.7	212			
Sample ID: mb-72788	SampType: MI	BLK	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch ID: 72	788	R	tunNo: 94	183				
Prep Date: 1/24/2023	Analysis Date: 1/	25/2023	S	SeqNo: 34	01191	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	,								
Surr: BFB	930	1000		93.1	37.7	212			
Sample ID: 2301815-02	3ams SampType: MS	3	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	е	
Client ID: BS23-34 4'	Batch ID: 72	788	R	tunNo: 94	183				
Prep Date: 1/24/2023	Analysis Date: 1/	25/2023	S	SeqNo: 34	01193	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	0) 28 4.7	23.50	0	117	70	130			
Surr: BFB	990	939.8		105	37.7	212			
Sample ID: 2301815-02	3amsd SampType: MS	SD	Tes	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: BS23-34 4'	Batch ID: 72	788	R	unNo: 94	183				
Prep Date: 1/24/2023	Analysis Date: 1/	25/2023	S	SeqNo: 34	01194	Units: mg/K	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GR	0) 27 4.7	23.52	0	117	70	130	0.385	20	
Surr: BFB	1100	940.7		114	37.7	212	0	0	
Sample ID: Ics-72799	SampType: LC	s	Test	tCode: EP	A Method	8015D: Gaso	line Rang	e	
Client ID: LCSS	Batch ID: 72	799	R	unNo: 94	183				
Prep Date: 1/24/2023	Analysis Date: 1/	26/2023	S	SeqNo: 34	01214	Units: %Red	3		

Qualifiers:

Analyte

Surr: BFB

Analyte

Surr: BFB

Prep Date:

Sample ID: mb-72799

Client ID: PBS

Value exceeds Maximum Contaminant Level.

1/24/2023

- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

Result

1000

Result

920

SampType: MBLK

Batch ID: 72799

Analysis Date: 1/26/2023

B Analyte detected in the associated Method Blank

91.7

104

RunNo: 94183

SeqNo: 3401215

LowLimit

LowLimit

37.7

37.7

TestCode: EPA Method 8015D: Gasoline Range

HighLimit

Units: %Rec

HighLimit

212

%RPD

%RPD

RPDLimit

RPDLimit

Qual

Qual

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

SPK value SPK Ref Val %REC

SPK value SPK Ref Val %REC

1000

1000

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301815** *01-Feb-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72767	Sampl	ype: LC	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID: LCSS	Batch	ID: 72	767	F	RunNo: 9	4196				
Prep Date: 1/23/2023	Analysis D	ate: 1/	26/2023	8	SeqNo: 3	402641	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	121	72.3	137			
Surr: BFB	1200		1000		123	37.7	212			
Sample ID: mb-72767	SampT	уре: МЕ	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID: PBS	Batch	ID: 72	767	F	RunNo: 9	4196				
Prep Date: 1/23/2023	Analysis D	ate: 1/	26/2023	8	SeqNo: 3	402642	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1100		1000		108	37.7	212			
Sample ID: 2301815-003ams	SampT	уре: МS	3	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Sample ID: 2301815-003ams Client ID: BS23-14 4'	•	ype: MS			tCode: E RunNo: 9		8015D: Gaso	oline Rang	e	
·	•	ID: 72	783	F		4203	8015D: Gaso	J	e	
Client ID: BS23-14 4'	Batch	ID: 72	783 27/2023	F	RunNo: 9	4203		J	e RPDLimit	Qual
Client ID: BS23-14 4' Prep Date: 1/24/2023	Batch Analysis D	ID: 72 : ate: 1/	783 27/2023	F	RunNo: 9 SeqNo: 3	4203 402949	Units: mg/k	(g		Qual
Client ID: BS23-14 4' Prep Date: 1/24/2023 Analyte	Batch Analysis D Result	ID: 72 ate: 1/ PQL	783 27/2023 SPK value	F S SPK Ref Val	RunNo: 9 SeqNo: 3 %REC	4203 402949 LowLimit	Units: mg/k	(g		Qual
Client ID: BS23-14 4' Prep Date: 1/24/2023 Analyte Gasoline Range Organics (GRO)	Batch Analysis D Result 25 970	ID: 72 ate: 1/ PQL	783 27/2023 SPK value 23.97 958.8	SPK Ref Val	RunNo: 9 SeqNo: 3 %REC 104 101	4203 402949 LowLimit 70 37.7	Units: mg/k HighLimit 130	(g %RPD	RPDLimit	Qual
Client ID: BS23-14 4' Prep Date: 1/24/2023 Analyte Gasoline Range Organics (GRO) Surr: BFB	Batch Analysis D Result 25 970 d SampT	ate: 1/ PQL 4.8	783 27/2023 SPK value 23.97 958.8	SPK Ref Val 0	RunNo: 9 SeqNo: 3 %REC 104 101	4203 402949 LowLimit 70 37.7	Units: mg/k HighLimit 130 212	(g %RPD	RPDLimit	Qual
Client ID: BS23-14 4' Prep Date: 1/24/2023 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2301815-003ams	Batch Analysis D Result 25 970 d SampT	PQL 4.8 ype: MS	783 27/2023 SPK value 23.97 958.8 6D 783	SPK Ref Val 0	RunNo: 9 SeqNo: 3 %REC 104 101 tCode: E	4203 402949 LowLimit 70 37.7 PA Method 4203	Units: mg/k HighLimit 130 212	%RPD	RPDLimit	Qual
Client ID: BS23-14 4' Prep Date: 1/24/2023 Analyte Gasoline Range Organics (GRO) Surr: BFB Sample ID: 2301815-003ams Client ID: BS23-14 4'	Batch Analysis D Result 25 970 d SampT Batch	PQL 4.8 ype: MS	783 27/2023 SPK value 23.97 958.8 6D 783 27/2023	SPK Ref Val 0	RunNo: 9 SeqNo: 3 %REC 104 101 tCode: E RunNo: 9 SeqNo: 3	4203 402949 LowLimit 70 37.7 PA Method 4203	Units: mg/k HighLimit 130 212 8015D: Gaso	%RPD	RPDLimit	Qual

Sample ID: MB-72783	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: PBS	Batch	1D: 72 7	783	F	RunNo: 9	4203				
Prep Date: 1/24/2023	Analysis D	ate: 1/2	27/2023	9	SeqNo: 3	403297	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	900		1000		90.0	37.7	212			

956.0

Sample ID: Ics-72783	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 72783	RunNo: 94203	
Prep Date: 1/24/2023	Analysis Date: 1/27/2023	SeqNo: 3403303	Units: mg/Kg
Analyte	Result PQL SPK value S	PK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

Qualifiers:

Surr: BFB

- 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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.

1000

B Analyte detected in the associated Method Blank

105

37.7

212

0

0

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301815**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72783 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72783 RunNo: 94203

Prep Date: 1/24/2023 Analysis Date: 1/27/2023 SeqNo: 3403303 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 101
 72.3
 137

 Surr: BFB
 1000
 1000
 105
 37.7
 212

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301815**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: Ics-72788	SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: LCSS	Batcl	n ID: 72 7	788	F	RunNo: 94	4183				
Prep Date: 1/24/2023	Analysis D	Date: 1/2	25/2023	8	SeqNo: 3	401285	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.025	1.000	0	93.9	80	120			
Toluene	0.94	0.050	1.000	0	93.8	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	91.7	80	120			
Surr: 4-Bromofluorobenzene	0.96		1.000		95.7	70	130			

Sample ID: mb-72788	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	n ID: 72	788	F	RunNo: 9	4183				
Prep Date: 1/24/2023	Analysis D	Date: 1/	25/2023	8	SeqNo: 3	401286	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.95		1.000		95.2	70	130			

Sample ID: 2301815-024ams	SampT	уре: МS	3	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BS23-35 4'	Batcl	n ID: 72 7	788	F	RunNo: 9	4183				
Prep Date: 1/24/2023	Analysis D	Date: 1/	25/2023	S	SeqNo: 3	401289	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.023	0.9398	0	103	68.8	120			
Toluene	0.97	0.047	0.9398	0	103	73.6	124			
Ethylbenzene	0.96	0.047	0.9398	0	102	72.7	129			
Xylenes, Total	2.8	0.094	2.820	0	101	75.7	126			
Surr: 4-Bromofluorobenzene	0.89		0.9398		94.6	70	130			

Sample ID: 2301815-024amsd	I SampT	ype: MS	D	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BS23-35 4'	Batch	ID: 72 7	788	F	RunNo: 94	4183				
Prep Date: 1/24/2023	Analysis D	ate: 1/2	25/2023	8	SeqNo: 34	401290	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.023	0.9398	0	105	68.8	120	2.14	20	
Toluene	0.99	0.047	0.9398	0	105	73.6	124	1.63	20	
Ethylbenzene	0.97	0.047	0.9398	0	103	72.7	129	1.00	20	
Xylenes, Total	2.9	0.094	2.820	0	102	75.7	126	1.58	20	
Surr: 4-Bromofluorobenzene	0.87		0.9398		92.9	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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2301815

01-Feb-23

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 East

Sample ID: Ics-72799 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 72799 RunNo: 94183

Prep Date: 1/24/2023 Analysis Date: 1/26/2023 SeqNo: 3401309 Units: %Rec

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result %REC LowLimit HighLimit Qual

130 Surr: 4-Bromofluorobenzene 0.95 1.000 94.6 70

Sample ID: mb-72799 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 72799 RunNo: 94183

Prep Date: 1/24/2023 Analysis Date: 1/26/2023 SeqNo: 3401310 Units: %Rec

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result PQL %REC LowLimit HighLimit Qual

Surr: 4-Bromofluorobenzene 0.95 1.000 94.7 130

Sample ID: LCS-72767 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 72767 RunNo: 94196 Prep Date: 1/23/2023 Analysis Date: 1/26/2023 SeqNo: 3402618 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result 0.94 0.025 1.000 94.3 80 120 Benzene 0.95 0 95.0 80 120 Toluene 0.050 1.000 Ethylbenzene 0.94 0.050 1.000 0 93.8 80 120 0 Xylenes, Total 2.8 0.10 3.000 94.4 80 120 Surr: 4-Bromofluorobenzene 1.000 107 70 130 1 1

Sample ID: mb-72767 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 72767 RunNo: 94196

Prep Date: 1/23/2023 Analysis Date: 1/26/2023 SeqNo: 3402619 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene ND 0.025 ND 0.050 Toluene ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 103 70 130

Sample ID: 2301815-004ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BS23-15 4' Batch ID: 72783 RunNo: 94203

Prep Date: 1/24/2023	Analysis D	oate: 1/	27/2023	S	SeqNo: 3	403095	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9524	0	99.2	68.8	120			
Toluene	0.95	0.048	0.9524	0	99.3	73.6	124			
Ethylbenzene	0.93	0.048	0.9524	0	97.4	72.7	129			
Xylenes, Total	2.8	0.095	2.857	0	96.5	75.7	126			

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301815**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: 2301815-004ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: **BS23-15 4'** Batch ID: **72783** RunNo: **94203**

Prep Date: 1/24/2023 Analysis Date: 1/27/2023 SeqNo: 3403095 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: 4-Bromofluorobenzene 0.92 0.9524 96.7 70 130

Sample ID: 2301815-004amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: BS23-15 4' Batch ID: 72783 RunNo: 94203 Prep Date: 1/24/2023 Analysis Date: 1/27/2023 SeqNo: 3403096 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual Benzene 0.93 0.024 0.9479 0 98.5 68.8 120 1.16 20 Toluene 0.93 0.047 0.9479 0 98.5 73.6 124 1.30 20 0.92 0.9479 0 20 Ethylbenzene 0.047 97.1 72.7 129 0.775 Xylenes, Total 2.7 0.095 2.844 0 96.0 75.7 126 0.934 20 0 0.91 0.9479 96.2 70 130 0 Surr: 4-Bromofluorobenzene

Sample ID: MB-72783 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 72783 RunNo: 94203

Prep Date: 1/24/2023 Analysis Date: 1/27/2023 SeqNo: 3403301 Units: mg/Kg

1.000

SPK value SPK Ref Val **RPDLimit** Result PQL %REC LowLimit HighLimit %RPD Qual Analyte ND 0.025 Renzene Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10 1.000 Surr: 4-Bromofluorobenzene 0.95 94.9 70 130

Sample ID: LCS-72783 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 72783 RunNo: 94203 Prep Date: 1/24/2023 Analysis Date: 1/27/2023 SeqNo: 3403304 Units: mg/Kg POI SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Benzene 0.94 0.025 1.000 0 93.8 80 120 0 93.5 Toluene 0.94 0.050 1.000 80 120 Ethylbenzene 0.91 0.050 1.000 0 91.1 80 120 0 Xylenes, Total 2.7 0.10 3.000 90.4 80 120

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

0.96

B Analyte detected in the associated Method Blank

95.8

70

130

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

	/ertex Resources	Work Order Numl	per: 2301815		RcptNo: 1	
S	Services, Inc.					
Received By:	Juan Rojas	1/21/2023 10:30:00	AM	Hansay		
Completed By:	Juan Rojas	1/21/2023 11:05:09	AM	Grandy		
Reviewed By:	M 1-23-23					
	- 3					
Chain of Custo	od <u>y</u>					
1. Is Chain of Cus	tody complete?		Yes 🗌	No 🗹	Not Present	
2. How was the sa	mple delivered?		<u>Courier</u>			
Log In					_	
3. Was an attempt	t made to cool the sam	ples?	Yes 🗹	No 🗌	NA 🗌	
4. Were all sample	es received at a tempe	rature of >0° C to 6.0°C	Yes 🗹	No 🗌	NA \square	
_				N- []		
5. Sample(s) in pro	oper container(s)?		Yes 🗸	No 🗔		
6. Sufficient sample	e volume for indicated	test(s)?	Yes 🗹	No 🗌		
7. Are samples (ex	cept VOA and ONG) p	properly preserved?	Yes 🗹	No 🗌		
8. Was preservativ	e added to bottles?		Yes	No 🗹	NA \square	
9. Received at least	st 1 vial with headspac	e <1/4" for AQ VOA?	Yes 🗌	No 🗌	NA 🗹	
10. Were any samp	le containers received	broken?	Yes	No 🗹	# of preserved	
					bottles checked	
	match bottle labels?	4.4)	Yes 🗸	No 🗀	for pH: (<2 or >12	unless noted)
	cies on chain of custoo rrectly identified on Ch		Yes 🗹	No 🗆	Adjusted?	
	analyses were requeste		Yes 🗹	No 🗆		11
	times able to be met?		Yes 🗹	No 🗆	Checked by:	723
	tomer for authorization					
Special Handlin	ng (if applicable)					
15. Was client notif	fied of all discrepancies	s with this order?	Yes	No 🗌	NA 🗹	
Person N	otified:	Date				
By Whom	n:	Via:	eMail 🗌	Phone Fax	☐ In Person	
Regarding	g:					
Client Ins	tructions:					
16. Additional rem	arks:					
Missina n	nailing address.phone	number, and email address.	JR 1/21/23			
17. Cooler Inform	-	,				
Cooler No	Temp °C Conditio	n Seal Intact Seal No	Seal Date	Signed By		

0.8

0.3

Good

Good

No

No

Morty

Morty

Receive	n och	3872 CM	Receive Charles - 3612 Could the thy Record	Turn-Around Tim	ime:				1	4	П	2	TR	N	HALL ENVIRONMEN A
Client:		Vertex		🛭 Standard	Kush 5	5 Day		П	. «	Z	K	SIS	2	BOF	ANALYSIS LABORATORY
		(direct bil	(direct bill to Devon)	Project Name:						www.	www.hallenvironmental.com	vironn	nental	.com	
Mailing,	Mailing Address			North Pure G	North Pure Gold 8 Federal #006 East	#006 East		4901 Hawkins NE	ławkii	JS NE		enbng	erque,	Albuquerque, NM 87109	60
				Project #:				Tel. 5	505-345-3975	5-397		Fax	505-3	505-345-4107	
Phone #:	;;			22E-02816-07							Anal	ysis	Request	st	
email or Fax#:	· Fax#:			Project Manager	er:		(12		Ĭ.		OS			huə	
QA/QC Package:	backage:			Kent Stallings			208)			SMI	- '*C			sax	
☐ Standard	dard		☐ Level 4 (Full Validation)	kstallings@vertex.ca	rtex.ca) s's			S02)d ' ⁷			//\Ua	
Accreditation:	tation:	□ Az Co	Az Compliance	ï.	L. Pullman		IMT			857	ON			rese	
□ NELAC	٩C	□ Other		On Ice:	₽-Yes □	No I	1 =							ط) ا	
	EDD (Type)			# of Coolers:	2	Marty	IBE							mio	
				Cooler Temp(including CF):	ncluding CF):	8-0-0-8	-M							OTIIO,	
				Container	Creservative	HEAL No.	/ X3	08:F 	N) B	d sH	. АЯ: F, E	/) 09	3) 02	O lsi	
Date	Time	Matrix	Sample Name	#	-	1301815	та	-	\rightarrow	-	-	\rightarrow	\rightarrow	101	
01/19/23	9:35	Soil	BS23-12 4'	1, 4oz jar		1001	×	×			×				
01/19/23	9:40	Soil	BS23-13 4'	1, 4oz jar		-002	×	×			×				
01/19/23	9:45	Soil	BS23-14 4'	1, 4oz jar		-003	×	×			×				
01/19/23	9:50	Soil	BS23-15 4'	1, 4oz jar		700d	×	×			×				
01/19/23	9:55	Soil	BS23-16 4'	1, 4oz jar		-000	×	×			×				
01/19/23	10:00	Soil	BS23-17 4'	1, 4oz jar		200-	×	×		_	×		\dashv		
01/19/23	10:05	Soil	BS23-18 4'	1, 4oz jar		£00-	×	×			×				
01/19/23	10:10	Soil	BS23-19 4'	1, 4oz jar		800	×	×			×				
01/19/23	10:15	Soil	BS23-20 4'	1, 4oz jar		-000	×	×		\dashv	×				
01/19/23	10:20	Soil	BS23-21 4'	1, 4oz jar		010-	×	×			×				
01/19/23	10:25	Soil	BS23-22 4'	1, 4oz jar		110-	×	×			×	-			
01/19/23	10:30	Soil	BS23-23 4'	1, 4oz jar		2012	×	×			×				
	-	Relinquish	lyd per	Received by:	Via:	Date Time	Rem	Remarks:	1				:		
ET-07-1	071.00	Topol I	TW/ nar		and	90 SE DE	Dire S A	Direct bill to Devon, Dale Woodall cc_kstallings@vertex.ca for Final Report	o Dev	/on, I /erte	Sale V	Vood Pr Fin	all al Re	oort	
Date	Time:	Relinquished by:	hed by:		Via:	Date Time	: } 								
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If necessary, samples submitted to Hall Environmental may be Subcontracted to other accredited laboratories. This serves as notice of this possibility.

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01/19/23	10:40	Soil	BS23-25 4'	1, 4oz jar		101	×	×			×			
01/19/23	10:45	Soil	BS23-26 4'	1, 4oz jar		7017	×	×			×			
01/19/23	10:50	Soil	BS23-27 4'	1, 4oz jar		-01 b	×	×	\dashv		×			
01/19/23	10:55	Soil	BS23-28 4'	1, 4oz jar		-1017	×	×			×			
01/19/23	11:00	Soil	BS23-29 4'	1, 4oz jar		810-	×	×			×			
01/19/23	11:05	Soil	BS23-30 4'	1, 4oz jar		510	×	×			×			
01/19/23	11:10	Soil	BS23-31 4'	1, 4oz jar		-020	×	×			×			
01/19/23	11:15	Soil	BS23-32 4'	1, 4oz jar		7021	×	×		\dashv	×	\dashv		
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accepted laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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01/19/23 11:45	Soil	BS23-38 4'	1, 4oz jar	-	623	×	×				×		\dashv		
01/19/23 11:50	lioS Oil	BS23-39 4'	1, 4oz jar	-	-026	×	×				×		-		
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If necess	ary, samples sui	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories.	ontracted to other accred	ited laboratories. This s	This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	possil	ility. Ar	o-dus (ontract	ed data	will be	slearly	notated	the analytical report.	



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

February 01, 2023

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

FAX

RE: North Pure Gold 8 Federal 006 East OrderNo.: 2301866

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 21 sample(s) on 1/24/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-41 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 7:20:00 AM

 Lab ID:
 2301866-001
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/27/2023 3:07:55 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/27/2023 3:07:55 AM
Surr: DNOP	96.1	69-147	%Rec	1	1/27/2023 3:07:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/30/2023 4:56:18 PM
Surr: BFB	105	37.7-212	%Rec	1	1/30/2023 4:56:18 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/30/2023 4:56:18 PM
Toluene	ND	0.048	mg/Kg	1	1/30/2023 4:56:18 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/30/2023 4:56:18 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/30/2023 4:56:18 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	1/30/2023 4:56:18 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1500	61	mg/Kg	20	1/28/2023 3:18:33 PM

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

Qualifiers:

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

e pH Not In Range ting Limit Page 1 of 28

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-42 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 7:25:00 AM

 Lab ID:
 2301866-002
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.5 mg/Kg 1 1/27/2023 3:38:54 AM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 1/27/2023 3:38:54 AM 69-147 Surr: DNOP 93.1 %Rec 1 1/27/2023 3:38:54 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 1/30/2023 6:07:21 PM 4.9 mg/Kg 1 Surr: BFB 107 37.7-212 %Rec 1 1/30/2023 6:07:21 PM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 1/30/2023 6:07:21 PM 0.025 mg/Kg 1 Toluene ND 0.049 mg/Kg 1 1/30/2023 6:07:21 PM Ethylbenzene ND 0.049 mg/Kg 1 1/30/2023 6:07:21 PM Xylenes, Total ND 0.098 mg/Kg 1 1/30/2023 6:07:21 PM Surr: 4-Bromofluorobenzene 95.9 70-130 %Rec 1 1/30/2023 6:07:21 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 790 60 1/28/2023 3:30:53 PM ma/Ka 20

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

Qualifiers:

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

Page 2 of 28

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-43 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 7:30:00 AM

 Lab ID:
 2301866-003
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/27/2023 3:49:17 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/27/2023 3:49:17 AM
Surr: DNOP	91.1	69-147	%Rec	1	1/27/2023 3:49:17 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/30/2023 7:18:03 PM
Surr: BFB	106	37.7-212	%Rec	1	1/30/2023 7:18:03 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/30/2023 7:18:03 PM
Toluene	ND	0.050	mg/Kg	1	1/30/2023 7:18:03 PM
Ethylbenzene	ND	0.050	mg/Kg	1	1/30/2023 7:18:03 PM
Xylenes, Total	ND	0.10	mg/Kg	1	1/30/2023 7:18:03 PM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	1/30/2023 7:18:03 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	1300	60	mg/Kg	20	1/28/2023 4:57:18 PM

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

Qualifiers:

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

Page 3 of 28

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-44 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 7:35:00 AM

 Lab ID:
 2301866-004
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/27/2023 3:59:41 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/27/2023 3:59:41 AM
Surr: DNOP	94.1	69-147	%Rec	1	1/27/2023 3:59:41 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/30/2023 7:41:36 PM
Surr: BFB	107	37.7-212	%Rec	1	1/30/2023 7:41:36 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/30/2023 7:41:36 PM
Toluene	ND	0.048	mg/Kg	1	1/30/2023 7:41:36 PM
Ethylbenzene	ND	0.048	mg/Kg	1	1/30/2023 7:41:36 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/30/2023 7:41:36 PM
Surr: 4-Bromofluorobenzene	97.0	70-130	%Rec	1	1/30/2023 7:41:36 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	910	60	mg/Kg	20	1/28/2023 5:09:38 PM

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

Qualifiers:

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

ple pH Not In Range Page 4 of 28

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-45 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 7:40:00 AM

 Lab ID:
 2301866-005
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	1/27/2023 4:10:06 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/27/2023 4:10:06 AM
Surr: DNOP	107	69-147	%Rec	1	1/27/2023 4:10:06 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/30/2023 8:05:07 PM
Surr: BFB	107	37.7-212	%Rec	1	1/30/2023 8:05:07 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/30/2023 8:05:07 PM
Toluene	ND	0.046	mg/Kg	1	1/30/2023 8:05:07 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/30/2023 8:05:07 PM
Xylenes, Total	ND	0.092	mg/Kg	1	1/30/2023 8:05:07 PM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	1/30/2023 8:05:07 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	350	60	mg/Kg	20	1/28/2023 5:21:58 PM

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

Qualifiers:

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

Page 5 of 28

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-46 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 7:45:00 AM

 Lab ID:
 2301866-006
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/27/2023 4:20:34 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/27/2023 4:20:34 AM
Surr: DNOP	103	69-147	%Rec	1	1/27/2023 4:20:34 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/30/2023 8:28:40 PM
Surr: BFB	108	37.7-212	%Rec	1	1/30/2023 8:28:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/30/2023 8:28:40 PM
Toluene	ND	0.047	mg/Kg	1	1/30/2023 8:28:40 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/30/2023 8:28:40 PM
Xylenes, Total	ND	0.093	mg/Kg	1	1/30/2023 8:28:40 PM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	1/30/2023 8:28:40 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	140	60	mg/Kg	20	1/28/2023 5:34:18 PM

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

Qualifiers:

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

Page 6 of 28

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-47 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 7:50:00 AM

 Lab ID:
 2301866-007
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/27/2023 4:31:02 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/27/2023 4:31:02 AM
Surr: DNOP	106	69-147	%Rec	1	1/27/2023 4:31:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/30/2023 8:52:11 PM
Surr: BFB	107	37.7-212	%Rec	1	1/30/2023 8:52:11 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/30/2023 8:52:11 PM
Toluene	ND	0.049	mg/Kg	1	1/30/2023 8:52:11 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/30/2023 8:52:11 PM
Xylenes, Total	ND	0.099	mg/Kg	1	1/30/2023 8:52:11 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	1/30/2023 8:52:11 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	1/28/2023 5:46:39 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-48 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 7:55:00 AM

 Lab ID:
 2301866-008
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: DGH	
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/27/2023 4:41:32 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/27/2023 4:41:32 AM
Surr: DNOP	109	69-147	%Rec	1	1/27/2023 4:41:32 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/30/2023 9:15:41 PM
Surr: BFB	105	37.7-212	%Rec	1	1/30/2023 9:15:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/30/2023 9:15:41 PM
Toluene	ND	0.047	mg/Kg	1	1/30/2023 9:15:41 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/30/2023 9:15:41 PM
Xylenes, Total	ND	0.094	mg/Kg	1	1/30/2023 9:15:41 PM
Surr: 4-Bromofluorobenzene	94.3	70-130	%Rec	1	1/30/2023 9:15:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	1/28/2023 5:58:59 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-49 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:00:00 AM

 Lab ID:
 2301866-009
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	1/27/2023 5:02:26 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	1/27/2023 5:02:26 AM
Surr: DNOP	99.8	69-147	%Rec	1	1/27/2023 5:02:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/30/2023 9:39:09 PM
Surr: BFB	106	37.7-212	%Rec	1	1/30/2023 9:39:09 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/30/2023 9:39:09 PM
Toluene	ND	0.046	mg/Kg	1	1/30/2023 9:39:09 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/30/2023 9:39:09 PM
Xylenes, Total	ND	0.093	mg/Kg	1	1/30/2023 9:39:09 PM
Surr: 4-Bromofluorobenzene	94.9	70-130	%Rec	1	1/30/2023 9:39:09 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	300	59	mg/Kg	20	1/28/2023 6:36:02 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-50 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:05:00 AM

 Lab ID:
 2301866-010
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/27/2023 5:13:09 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/27/2023 5:13:09 AM
Surr: DNOP	108	69-147	%Rec	1	1/27/2023 5:13:09 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/30/2023 10:02:35 PM
Surr: BFB	105	37.7-212	%Rec	1	1/30/2023 10:02:35 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/30/2023 10:02:35 PM
Toluene	ND	0.047	mg/Kg	1	1/30/2023 10:02:35 PM
Ethylbenzene	ND	0.047	mg/Kg	1	1/30/2023 10:02:35 PM
Xylenes, Total	ND	0.095	mg/Kg	1	1/30/2023 10:02:35 PM
Surr: 4-Bromofluorobenzene	93.6	70-130	%Rec	1	1/30/2023 10:02:35 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	180	60	mg/Kg	20	1/28/2023 6:48:22 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-51 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:10:00 AM

 Lab ID:
 2301866-011
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/27/2023 5:23:51 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/27/2023 5:23:51 AM
Surr: DNOP	94.1	69-147	%Rec	1	1/27/2023 5:23:51 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/30/2023 11:12:42 PM
Surr: BFB	104	37.7-212	%Rec	1	1/30/2023 11:12:42 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/30/2023 11:12:42 PM
Toluene	ND	0.046	mg/Kg	1	1/30/2023 11:12:42 PM
Ethylbenzene	ND	0.046	mg/Kg	1	1/30/2023 11:12:42 PM
Xylenes, Total	ND	0.093	mg/Kg	1	1/30/2023 11:12:42 PM
Surr: 4-Bromofluorobenzene	93.4	70-130	%Rec	1	1/30/2023 11:12:42 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	72	60	mg/Kg	20	1/28/2023 7:00:42 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-52 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:15:00 AM

 Lab ID:
 2301866-012
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	1/27/2023 5:34:32 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/27/2023 5:34:32 AM
Surr: DNOP	93.4	69-147	%Rec	1	1/27/2023 5:34:32 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/30/2023 11:36:00 PM
Surr: BFB	105	37.7-212	%Rec	1	1/30/2023 11:36:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/30/2023 11:36:00 PM
Toluene	ND	0.049	mg/Kg	1	1/30/2023 11:36:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	1/30/2023 11:36:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	1/30/2023 11:36:00 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	1/30/2023 11:36:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/28/2023 7:13:03 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-53 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:20:00 AM

 Lab ID:
 2301866-013
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	1/27/2023 5:45:12 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/27/2023 5:45:12 AM
Surr: DNOP	93.3	69-147	%Rec	1	1/27/2023 5:45:12 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/30/2023 11:59:22 PM
Surr: BFB	103	37.7-212	%Rec	1	1/30/2023 11:59:22 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/30/2023 11:59:22 PM
Toluene	ND	0.050	mg/Kg	1	1/30/2023 11:59:22 PM
Ethylbenzene	ND	0.050	mg/Kg	1	1/30/2023 11:59:22 PM
Xylenes, Total	ND	0.10	mg/Kg	1	1/30/2023 11:59:22 PM
Surr: 4-Bromofluorobenzene	92.0	70-130	%Rec	1	1/30/2023 11:59:22 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	100	60	mg/Kg	20	1/28/2023 7:25:23 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-54 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:25:00 AM

 Lab ID:
 2301866-014
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	1/27/2023 5:55:52 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/27/2023 5:55:52 AM
Surr: DNOP	95.1	69-147	%Rec	1	1/27/2023 5:55:52 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/31/2023 12:22:40 AM
Surr: BFB	102	37.7-212	%Rec	1	1/31/2023 12:22:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/31/2023 12:22:40 AM
Toluene	ND	0.049	mg/Kg	1	1/31/2023 12:22:40 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/31/2023 12:22:40 AM
Xylenes, Total	ND	0.098	mg/Kg	1	1/31/2023 12:22:40 AM
Surr: 4-Bromofluorobenzene	92.4	70-130	%Rec	1	1/31/2023 12:22:40 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	210	60	mg/Kg	20	1/28/2023 7:37:44 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-55 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:30:00 AM

 Lab ID:
 2301866-015
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	1/27/2023 6:06:25 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/27/2023 6:06:25 AM
Surr: DNOP	92.9	69-147	%Rec	1	1/27/2023 6:06:25 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/31/2023 12:45:55 AM
Surr: BFB	102	37.7-212	%Rec	1	1/31/2023 12:45:55 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/31/2023 12:45:55 AM
Toluene	ND	0.046	mg/Kg	1	1/31/2023 12:45:55 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/31/2023 12:45:55 AM
Xylenes, Total	ND	0.092	mg/Kg	1	1/31/2023 12:45:55 AM
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	1/31/2023 12:45:55 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/28/2023 7:50:04 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-56 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:35:00 AM

 Lab ID:
 2301866-016
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/27/2023 6:16:53 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/27/2023 6:16:53 AM
Surr: DNOP	101	69-147	%Rec	1	1/27/2023 6:16:53 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/31/2023 1:09:08 AM
Surr: BFB	101	37.7-212	%Rec	1	1/31/2023 1:09:08 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/31/2023 1:09:08 AM
Toluene	ND	0.049	mg/Kg	1	1/31/2023 1:09:08 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/31/2023 1:09:08 AM
Xylenes, Total	ND	0.098	mg/Kg	1	1/31/2023 1:09:08 AM
Surr: 4-Bromofluorobenzene	89.8	70-130	%Rec	1	1/31/2023 1:09:08 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	66	60	mg/Kg	20	1/28/2023 8:02:26 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-57 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:40:00 AM

 Lab ID:
 2301866-017
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/27/2023 6:27:20 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/27/2023 6:27:20 AM
Surr: DNOP	99.9	69-147	%Rec	1	1/27/2023 6:27:20 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/31/2023 1:32:21 AM
Surr: BFB	101	37.7-212	%Rec	1	1/31/2023 1:32:21 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/31/2023 1:32:21 AM
Toluene	ND	0.046	mg/Kg	1	1/31/2023 1:32:21 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/31/2023 1:32:21 AM
Xylenes, Total	ND	0.092	mg/Kg	1	1/31/2023 1:32:21 AM
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	1/31/2023 1:32:21 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	150	60	mg/Kg	20	1/28/2023 8:14:46 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-58 4

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:45:00 AM

 Lab ID:
 2301866-018
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Result **RL Qual Units** DF **Date Analyzed** Analyses **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: DGH Diesel Range Organics (DRO) ND 9.2 mg/Kg 1 1/27/2023 6:37:45 AM Motor Oil Range Organics (MRO) ND 46 mg/Kg 1 1/27/2023 6:37:45 AM Surr: DNOP 95.8 69-147 %Rec 1 1/27/2023 6:37:45 AM **EPA METHOD 8015D: GASOLINE RANGE** Analyst: JJP Gasoline Range Organics (GRO) ND 1/31/2023 1:55:31 AM 5.0 mg/Kg 1 Surr: BFB 99.2 37.7-212 %Rec 1 1/31/2023 1:55:31 AM **EPA METHOD 8021B: VOLATILES** Analyst: JJP Benzene ND 0.025 mg/Kg 1/31/2023 1:55:31 AM 1 Toluene ND 0.050 mg/Kg 1 1/31/2023 1:55:31 AM Ethylbenzene ND 0.050 mg/Kg 1 1/31/2023 1:55:31 AM Xylenes, Total ND 0.099 mg/Kg 1 1/31/2023 1:55:31 AM Surr: 4-Bromofluorobenzene 89.6 70-130 %Rec 1 1/31/2023 1:55:31 AM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride 200 59 1/28/2023 8:27:07 PM ma/Ka 20

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-59 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:50:00 AM

 Lab ID:
 2301866-019
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/27/2023 6:48:07 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/27/2023 6:48:07 AM
Surr: DNOP	101	69-147	%Rec	1	1/27/2023 6:48:07 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/31/2023 2:18:40 AM
Surr: BFB	99.1	37.7-212	%Rec	1	1/31/2023 2:18:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/31/2023 2:18:40 AM
Toluene	ND	0.046	mg/Kg	1	1/31/2023 2:18:40 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/31/2023 2:18:40 AM
Xylenes, Total	ND	0.092	mg/Kg	1	1/31/2023 2:18:40 AM
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	1/31/2023 2:18:40 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	190	60	mg/Kg	20	1/28/2023 9:04:09 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-60 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 8:55:00 AM

 Lab ID:
 2301866-020
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	1/27/2023 6:58:30 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	1/27/2023 6:58:30 AM
Surr: DNOP	100	69-147	%Rec	1	1/27/2023 6:58:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/31/2023 2:41:49 AM
Surr: BFB	99.4	37.7-212	%Rec	1	1/31/2023 2:41:49 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/31/2023 2:41:49 AM
Toluene	ND	0.049	mg/Kg	1	1/31/2023 2:41:49 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/31/2023 2:41:49 AM
Xylenes, Total	ND	0.098	mg/Kg	1	1/31/2023 2:41:49 AM
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	1/31/2023 2:41:49 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	380	60	mg/Kg	20	1/28/2023 9:16:30 PM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-61 4'

 Project:
 North Pure Gold 8 Federal 006 East
 Collection Date: 1/20/2023 9:00:00 AM

 Lab ID:
 2301866-021
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/26/2023 2:14:27 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/26/2023 2:14:27 PM
Surr: DNOP	112	69-147	%Rec	1	1/26/2023 2:14:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/31/2023 4:37:24 AM
Surr: BFB	99.3	37.7-212	%Rec	1	1/31/2023 4:37:24 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	0.023	0.023	mg/Kg	1	1/31/2023 4:37:24 AM
Toluene	ND	0.046	mg/Kg	1	1/31/2023 4:37:24 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/31/2023 4:37:24 AM
Xylenes, Total	ND	0.093	mg/Kg	1	1/31/2023 4:37:24 AM
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	1/31/2023 4:37:24 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	110	60	mg/Kg	20	1/30/2023 1:36:18 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866

01-Feb-23

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 East

Sample ID: MB-72879 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72879 RunNo: 94262

Prep Date: 1/28/2023 Analysis Date: 1/28/2023 SeqNo: 3404665 Units: mq/Kq

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual

Chloride ND 1.5

Sample ID: LCS-72879 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72879 RunNo: 94262

Prep Date: 1/28/2023 Analysis Date: 1/28/2023 SeqNo: 3404666 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit Qual

HighLimit Chloride 14 1.5 15.00 96.5 110

Sample ID: MB-72897 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72897 RunNo: 94284

Prep Date: 1/30/2023 Analysis Date: 1/30/2023 SeqNo: 3406221 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-72897 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72897 RunNo: 94284

1/30/2023 Analysis Date: 1/30/2023 SeqNo: 3406222 Prep Date: Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

14 Chloride 1.5 15.00 n 94.9 90 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301866** *01-Feb-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: MB-72814	SampT	уре: МЕ	BLK	Tes	PA Method	8015M/D: Diesel Range Organics				
Client ID: PBS	Batch	n ID: 72 8	814	F	RunNo: 9	4191				
Prep Date: 1/25/2023	Analysis D	oate: 1/	26/2023	S	SeqNo: 3	401999	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.8		10.00		97.6	69	147			
Sample ID: LCS-72814	SampT	ype: LC	s	TestCode: EPA Method 8015M/D: Diesel Range Organics					·	
Client ID: 1 CSS	Ratch	ID: 72	01/		PunNo: 04101					

Client ID: LCSS	Batch	1D: 72	814	K	kunino: 94	4191				
Prep Date: 1/25/2023	Analysis D	ate: 1/	26/2023	S	SeqNo: 34	402000	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	59	10	50.00	0	118	61.9	130			
Surr: DNOP	4.7		5.000		94.0	69	147			

Sample ID: MB-72830	SampType: MBLK	TestCode: EPA Method	8015M/D: Diesel Range Organics	
Client ID: PBS	Batch ID: 72830	RunNo: 94191		
Prep Date: 1/25/2023	Analysis Date: 1/26/2023	SeqNo: 3402654	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit	Qual
Surr: DNOP	10 10.00	100 69	147	

Sample ID: LCS-72830	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 72830	RunNo: 94191	
Prep Date: 1/25/2023	Analysis Date: 1/26/2023	SeqNo: 3402655	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	4.5 5.000	90.4 69	147

Sample ID: 2301866-001AMS	SampT	ype: MS	3	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: BS23-41 4'	Batch	ID: 72 8	808	F	tunNo: 9	4207					
Prep Date: 1/25/2023	Analysis D	ate: 1/	27/2023	S	SeqNo: 3	403396	Units: mg/k	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	52	9.2	45.83	0	114	54.2	135				
Surr: DNOP	4.6		4.583		100	69	147				

Sample ID: 2301866-001AMS	D SampT	ype: M \$	SD	Test	tCode: El	PA Method	8015M/D: Die	esel Range	organics	
Client ID: BS23-41 4'	Batch	1D: 72	808	R	RunNo: 9	4207				
Prep Date: 1/25/2023	403397	Units: mg/K	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.1	45.66	0	91.6	54.2	135	21.8	29.2	

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

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Hall Environmental Analysis Laboratory, Inc.

4.4

WO#: **2301866** *01-Feb-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: 2301866-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BS23-41 4'** Batch ID: **72808** RunNo: **94207**

Prep Date: 1/25/2023 Analysis Date: 1/27/2023 SeqNo: 3403397 Units: mg/Kg

5.000

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Surr: DNOP 4.7 4.566 102 69 147 Λ Λ

Sample ID: LCS-72808 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: LCSS Batch ID: 72808 RunNo: 94207 Prep Date: 1/25/2023 Analysis Date: 1/27/2023 SeqNo: 3403441 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Diesel Range Organics (DRO) 54 10 50.00 0 108 61.9 130

87.6

69

147

Sample ID: MB-72808 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 72808 RunNo: 94207 Prep Date: Analysis Date: 1/27/2023 1/25/2023 SeqNo: 3403445 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual ND 10 Diesel Range Organics (DRO)

 Diesel Range Organics (DRO)
 ND
 10

 Motor Oil Range Organics (MRO)
 ND
 50

 Surr: DNOP
 8.8
 10.00
 88.2
 69
 147

Qualifiers:

Surr: DNOP

- 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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2301866 01-Feb-23

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 East

Sample ID: Ics-72801	SampType: L	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range									
Client ID: LCSS	Batch ID: 7	2801	F	RunNo: 94	4272						
Prep Date: 1/25/2023	Analysis Date: 1	/30/2023	5	SeqNo: 34	405390	Units: mg/k	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	31 5.0	25.00	0	124	72.3	137					
Surr: BFB	1200	1000		117	37.7	212					
Sample ID: Ics-72809	SampType: LCS TestCode: EPA Method 80						il 8015D: Gasoline Range				
Client ID: LCSS	Batch ID: 7	2809	F	RunNo: 94	4272						
Prep Date: 1/25/2023	Analysis Date: 1	Analysis Date: 1/31/2023				Units: mg/h	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	28 5.0	25.00	0	113	72.3	137					
Surr: BFB	1100	1000		111	37.7	212					
Sample ID: mb-72801	SampType: M	IBLK	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	е			
Client ID: PBS	Batch ID: 7	2801	F	RunNo: 94	4272						
Prep Date: 1/25/2023	Analysis Date: 1	/30/2023	5	SeqNo: 34	405392	Units: mg/h	(g				
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND 5.0)									
Surr: BFB	1100	1000		106	37.7	212					
Sample ID: mb-72809	SampType: M	IBLK	Tes	tCode: EF	PA Method	8015D: Gaso	oline Rang	е			
Client ID: PBS	Batch ID: 7	2809	F	RunNo: 94	4272						
Prep Date: 1/25/2023	Analysis Date: 1	/31/2023	SeqNo: 3405393 Units: mg								
1											

Sample ID: 2301866-001ams	SampT	ype: MS	3	Test	tCode: El	PA Method	8015D: Gaso	line Rang	е	
Client ID: BS23-41 4'	Batch	1D: 72	801	R	tunNo: 9	4272				
Prep Date: 1/25/2023	Analysis D	ate: 1/	30/2023	S	SeqNo: 3	405395	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	28	4.8	23.97	0	117	70	130			
Surr: BFB	1100		958.8		115	37.7	212			

SPK value SPK Ref Val %REC

Sample ID: 2301866-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: BS23-41 4' Batch ID: 72801 RunNo: 94272

PQL

5.0

Result

ND

1000

Prep Date: Analysis Date: 1/30/2023 SeqNo: 3405396 1/25/2023 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Result LowLimit

Qualifiers:

Analyte

Surr: BFB

Gasoline Range Organics (GRO)

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of standard limits. If undiluted results may be estimated.
- Analyte detected in the associated Method Blank

LowLimit

37.7

100

HighLimit

212

%RPD

RPDLimit

Qual

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301866** *01-Feb-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: 2301866-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range BS23-41 4' Client ID: Batch ID: 72801 RunNo: 94272 Prep Date: 1/25/2023 Analysis Date: 1/30/2023 SeqNo: 3405396 Units: mg/Kg PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual 0 Gasoline Range Organics (GRO) 26 4.8 23.79 111 70 130 5.44 20 Surr: BFB 1100 951.5 119 37.7 212 0

Sample ID: 2301866-021ams TestCode: EPA Method 8015D: Gasoline Range SampType: MS Client ID: BS23-61 4' Batch ID: 72809 RunNo: 94272 Prep Date: 1/25/2023 Analysis Date: 1/31/2023 SeqNo: 3405417 Units: mg/Kg **RPDLimit** Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD Qual 70 Gasoline Range Organics (GRO) 25 4.6 23.11 0 109 130 Surr: BFB 1000 924.2 111 37.7 212

Sample ID: 2301866-021amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BS23-61 4' Batch ID: 72809 RunNo: 94272 Prep Date: 1/25/2023 Analysis Date: 1/31/2023 SeqNo: 3405418 Units: mg/Kg %RPD Result SPK value SPK Ref Val %REC LowLimit HighLimit **RPDLimit** Qual Analyte POI Gasoline Range Organics (GRO) 26 4.6 23.15 0 113 70 130 3.62 20 Surr: BFB 1000 925.9 212 0 0 112 37.7

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

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Hall Environmental Analysis Laboratory, Inc.

0.91

WO#: **2301866**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: LCS-72801	Samp	SampType: LCS TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	h ID: 72 8	301	F	RunNo: 94	4272				
Prep Date: 1/25/2023	Analysis [Date: 1/	30/2023	S	SeqNo: 34	405428	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	97.2	80	120			
Toluene	0.98	0.050	1.000	0	98.2	80	120			
Ethylbenzene	0.98	0.050	1.000	0	97.5	80	120			
Xylenes, Total	3.0	0.10	3.000	0	98.7	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	70	130			
Sample ID: LCS-72809	Samp	Гуре: LC	s	Tes	tCode: El	PA Method	8021B: Volat	tiles		·
Client ID: LCSS	Batc	h ID: 72 8	309	F	RunNo: 9	4272				
Prep Date: 1/25/2023	Analysis [Date: 1/	31/2023	S	SeqNo: 3	405429	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.2	80	120			
Xvlenes. Total	2.7	0.10	3.000	0	89.0	80	120			

Sample ID: mb-72801	SampType: MBLK		2801 SampType: MBLK TestCode: EPA Method 8021B: Volate				TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: 72 8	301	F	RunNo: 94	4272							
Prep Date: 1/25/2023	Analysis D	oate: 1/	30/2023	8	SeqNo: 3	405430	Units: mg/K	ts: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	ND	0.025											
Toluene	ND	0.050											
Ethylbenzene	ND	0.050											
Xylenes, Total	ND	0.10											
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	70	130						

1.000

70

130

91.1

Sample ID: mb-72809	SampT	ype: ME	BLK	K TestCode: EPA Method 8021B: Volatiles							
Client ID: PBS	Batch	n ID: 72 8	809	F	RunNo: 9	4272					
Prep Date: 1/25/2023	Analysis D	ate: 1/	31/2023	8	SeqNo: 3	405431	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301866**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 East

Sample ID: 2301866-002ams	Sampl	Гуре: М\$	3	Tes	tCode: El	iles				
Client ID: BS23-42 4'	Batcl	Batch ID: 72801			RunNo: 9	4272				
Prep Date: 1/25/2023	Analysis D	Date: 1/	30/2023	8	SeqNo: 3	405434	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.88	0.024	0.9461	0	93.5	68.8	120			
Toluene	0.89	0.047	0.9461	0.01706	92.3	73.6	124			
Ethylbenzene	0.89	0.047	0.9461	0	94.3	72.7	129			
Xylenes, Total	2.7	0.095	2.838	0	94.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.90		0.9461		95.6	70	130			

Sample ID: 2301866-002ams	SD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BS23-42 4'	Batch	n ID: 72 8	801	F	RunNo: 9	4272				
Prep Date: 1/25/2023	Analysis Date: 1/30/2023			9	SeqNo: 3	405435	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9479	0	90.5	68.8	120	2.98	20	
Toluene	0.87	0.047	0.9479	0.01706	90.1	73.6	124	2.13	20	
Ethylbenzene	0.87	0.047	0.9479	0	91.6	72.7	129	2.68	20	
Xylenes, Total	2.6	0.095	2.844	0	91.9	75.7	126	3.03	20	
Surr: 4-Bromofluorobenzene	0.89		0.9479		94.4	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

Client Name:	Vertex Resources Services, Inc.	Work Order Number:	2301	366			RcptNo:	1
Received By:	Joseph Alderette	1/24/2023 1:40:00 PM			A.			
Completed By:	Desiree Dominguez	1/24/2023 1:57:57 PM			T	-		
Reviewed By:								
Chain of Cus	<u>stody</u>							
1. Is Chain of C	ustody complete?		Yes		No	V	Not Present	
2. How was the	sample delivered?		<u>Couri</u>	<u>er</u>				
<u>Log In</u> 3. Was an atten	npt made to cool the sample	s?	Yes	V	No		na 🗆	
4. Were all sam	ples received at a temperatu	re of >0° C to 6.0°C	Yes	V	No		na 🗆	
5. Sample(s) in	proper container(s)?		Yes	V	No			
6. Sufficient sam	nple volume for indicated tes	t(s)?	Yes	V	No			
7. Are samples	(except VOA and ONG) prop	erly preserved?	Yes [/	No			
8. Was preserva	tive added to bottles?		Yes		No	V	NA 🗆	
9. Received at le	east 1 vial with headspace <	/4" for AQ VOA?	Yes [No		NA 🗹	
10. Were any sar	mple containers received bro	ken?	Yes		No	V	# of preserved bottles checked	7
	ork match bottle labels? ancies on chain of custody)		Yes	V	No		for pH:	>12 unless noted)
12. Are matrices	correctly identified on Chain	of Custody?	Yes	/	No		Adjusted?	
13. Is it clear wha	t analyses were requested?		Yes	/	No			
	ing times able to be met? ustomer for authorization.)		Yes	V	No		Checked by:	ff 1-23-24
Special Handi	ling (if applicable)							
15. Was client no	otified of all discrepancies wit	th this order?	Yes		No		NA 🗹	1
Person	Notified:	Date:				The same of		
By Who	om:	Via:	еМа	l 🗌 Pho	ne 🗌	Fax	☐ In Person	
Regard	ling:							
Client I	nstructions:				Mary and Con			
16. Additional re								
	nissing client info (on file) - D	AD 1/24/23						
17. Cooler Info		Coal Intent Coal No.			:		999	_
Cooler No	Temp °C Condition	Seal Intact Seal No S	eal Da	e S	igned	Бy	1000	-

Page 381 of 624 **ANALYSIS LABORATORY** HALL ENVIRONMENTAL 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 www.hallenvironmental.com cc. kstallings@vertex.ca for Final Report Analysis Request Total Coliform (Present/Absent) (AOV-ima2) 07S8 Direct bill to Devon, Dale Woodall (AOV) 09S8 CI')E' Br, NO3, NO2, PO4, SO4 × × × × × × × × × × × × Tel. 505-345-3975 RCRA 8 Metals PHA by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's Remarks: PH:8015D(GRO / DRO / MRO) × × × × × × × × × × × BTEX / MTBE / TMB's (8021) × × × × × × 100% 13:40 700 Time 000 HEAL No. 1012 400 -- 007 9981082 - 003 S00-- 009 10. 700 -00 100-13/23 000 North Pure Gold 8 Federal #006 East £2.h2-1 Cooler Temp(including CF): /. 8 - 0. 2 = /.6 20 K Rush 5 Preservative L. Pullmar kstallings@vertex.ca 可 Yes Carrier Type Via: Turn-Around Time: Project Manager: 22E-02816-07 # of Coolers: / Project Name. Kent Stallings X Standard Type and # 1, 4oz jar 40z jar 1, 4oz jar Received by: Received by: Container Sampler: Project #: On Ice: ☐ Level 4 (Full Validation) Sample Name Received CHAIR 38 PC US 164 VRecord BS23-42 4' BS23-44 4' BS23-45 4' BS23-47 4' BS23-48 4' BS23-50 4' BS23-51 4' BS23-52 4' BS23-41 4' BS23-43 4' BS23-46 4' BS23-49 4' dunn (direct bill to Devon) □ Az Compliance Relinquished by: □ Other Matrix Vertex Soil Mailing Address: QA/QC Package: Time 8:15 8:05 8:10 7:25 7:30 7:35 7:40 7:45 7:50 7:55 8:00 1-33-38 07:00 EDD (Type) 13.13 AW email or Fax# Accreditation: Time: Time: □ Standard □ NELAC Phone #: Date 01/20/23 01/20/23 01/20/23 01/20/23 01/20/23 01/20/23 01/20/23 01/20/23 01/20/23 01/20/23 01/20/23 01/20/23 Date:

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

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Received Cy OG	h.3.8/f.ºC	Received CHSP LASTOCK Record	Turn-Around Tir	ime:										Page	Page 382 of 624	f 624
Client:	Vertex		X Standard	X Rush	K Rush 5 Days				Z Z	7	N	H.	HALL ENVIRONMENTAL		Z	. >
		(direct bill to Devon)	Project Name:	T	-				www	haller	www.hallenvironmental.com	nental	E CO	5	2	
Mailing Address:	3SS:		North Pure Gol	d 8 Federa	#006 East		4901	Haw W	N Sui	Ш	Ibuque	rone	4901 Hawkins NE - Albuquerque, NM 87109	o:		
			Project #:				Ţ e	505-345-3975	45-39	. 22	Fax	505-34	505-345-4107			
Phone #:			22E-02816-07							Ana		Request	st			
email or Fax#:	·;		Project Manager:	 <u>:</u>		((0	L		,,		-	(2)		H	L
QA/QC Package:	je:		Kent Stallings			1208)			SM)S '(- (b.					
□ Standard		☐ Level 4 (Full Validation)	kstallings@vertex.ca	x.ca) s,			IS0)d		V/1-			-	
Accreditation:		mpliance	Sampler: L.	L. Pullman	ON C	BMT .			7S8 7	ON	.7		10001			
☐ EDD (Type)	I II		lers			/ 3 8			01							_
			Cooler Temp(including cF): 1, 9	1 1	0,2= 1.6°C -100,	тM			.83							
Date Time	Matrix	Sample Name	Container Type and # Tyl	Preservative Type	HEAL No.	STEX /	108:H9T 	EDB (M	(d sHAc	SCRA 8	3260 (V	S) 0728	oO leto			
01/20/23 8:20	Soil	BS23-53 4'	1, 4oz jar		-013	×	×			4					-	
01/20/23 8:25	Soil	BS23-54 4'	1, 4oz jar		410-	×	×			×		+-			-	1
01/20/23 8:30	Soil	BS23-55 4'	1, 4oz jar		210-	×	×			\ \ \		-			-	1
01/20/23 8:35	Soil	BS23-56 4'	1, 4oz jar		, 016	×	×		T	×		-			-	
01/20/23 8:40	Soil	BS23-57 4'	1, 4oz jar		410-	×	×			×					+	
01/20/23 8:45	Soil	BS23-58 4'	1, 4oz jar		210-	×	×			×		-			+-	
01/20/23 8:50	Soil	BS23-59 4'	1, 4oz jar		100	×	×			×		-		-		
01/20/23 8:55	Soil	BS23-60 4'	1, 4oz jar		020 -	×	×			×		-			\vdash	
01/20/23 9:00	Soil	BS23-61 4'	1, 4oz jar		120-	×	×			×		\vdash			-	
												<u> </u>				
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Jale. 18 (77)			Received by: Vi	Κia:	_	Remarks	arks:	4								
		MARINE	K	9	001 20191	2 2 3 3	t bill t stallin	o Dev as@v	on, L ertex	ale v	Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Renort	Rang	ţ			
200	2	ed by:	Received by: Via:		1.24-7.2 /// 115	: } })))	; ;) 5	5	2	<u>-</u>			
(16/16 AD		Munne	1		52.53											

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



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

OrderNo.: 2002522

February 20, 2020

Amanda Davis Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (575) 748-0176

FAX

RE: North Pure Gold 8 Fed 6

Dear Amanda Davis:

Hall Environmental Analysis Laboratory received 8 sample(s) on 2/13/2020 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-02@0'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/8/2020 12:30:00 PM

 Lab ID:
 2002522-001
 Matrix: SOIL
 Received Date: 2/13/2020 10:18:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: CLP
Diesel Range Organics (DRO)	50000	1900		mg/Kg	200	2/17/2020 12:00:06 PM
Motor Oil Range Organics (MRO)	20000	9400		mg/Kg	200	2/17/2020 12:00:06 PM
Surr: DNOP	0	55.1-146	S	%Rec	200	2/17/2020 12:00:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	660	50		mg/Kg	10	2/14/2020 12:43:51 PM
Surr: BFB	397	66.6-105	S	%Rec	10	2/14/2020 12:43:51 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.32	0.25		mg/Kg	10	2/14/2020 12:43:51 PM
Toluene	5.0	0.50		mg/Kg	10	2/14/2020 12:43:51 PM
Ethylbenzene	7.6	0.50		mg/Kg	10	2/14/2020 12:43:51 PM
Xylenes, Total	32	1.0		mg/Kg	10	2/14/2020 12:43:51 PM
Surr: 4-Bromofluorobenzene	118	80-120		%Rec	10	2/14/2020 12:43:51 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	14000	600		mg/Kg	200	2/19/2020 2:15:59 AM

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

Qualifiers:

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

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

Page 1 of 10

Date Reported: 2/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-03@0'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/8/2020 1:00:00 PM

 Lab ID:
 2002522-002
 Matrix: SOIL
 Received Date: 2/13/2020 10:18:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: CLP
Diesel Range Organics (DRO)	29000	1900		mg/Kg	200	2/17/2020 12:25:13 PM
Motor Oil Range Organics (MRO)	13000	9400		mg/Kg	200	2/17/2020 12:25:13 PM
Surr: DNOP	0	55.1-146	S	%Rec	200	2/17/2020 12:25:13 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	650	25		mg/Kg	5	2/14/2020 1:30:50 PM
Surr: BFB	559	66.6-105	S	%Rec	5	2/14/2020 1:30:50 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	0.46	0.12		mg/Kg	5	2/14/2020 1:30:50 PM
Toluene	7.0	0.25		mg/Kg	5	2/14/2020 1:30:50 PM
Ethylbenzene	6.1	0.25		mg/Kg	5	2/14/2020 1:30:50 PM
Xylenes, Total	24	0.50		mg/Kg	5	2/14/2020 1:30:50 PM
Surr: 4-Bromofluorobenzene	140	80-120	S	%Rec	5	2/14/2020 1:30:50 PM
EPA METHOD 300.0: ANIONS						Analyst: CAS
Chloride	7300	300		mg/Kg	100	2/19/2020 2:28:21 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative 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

Date Reported: 2/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-05@0'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/8/2020 1:55:00 PM

 Lab ID:
 2002522-003
 Matrix: SOIL
 Received Date: 2/13/2020 10:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/17/2020 12:43:27 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/17/2020 12:43:27 PM
Surr: DNOP	92.7	55.1-146	%Rec	1	2/17/2020 12:43:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/14/2020 2:17:57 PM
Surr: BFB	80.6	66.6-105	%Rec	1	2/14/2020 2:17:57 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	2/14/2020 2:17:57 PM
Toluene	ND	0.050	mg/Kg	1	2/14/2020 2:17:57 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/14/2020 2:17:57 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/14/2020 2:17:57 PM
Surr: 4-Bromofluorobenzene	88.0	80-120	%Rec	1	2/14/2020 2:17:57 PM
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	60	mg/Kg	20	2/18/2020 12:37:15 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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 3 of 10

Date Reported: 2/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-07@0'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/8/2020 2:45:00 PM

 Lab ID:
 2002522-004
 Matrix: SOIL
 Received Date: 2/13/2020 10:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/17/2020 12:52:42 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/17/2020 12:52:42 PM
Surr: DNOP	76.2	55.1-146	%Rec	1	2/17/2020 12:52:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/14/2020 2:41:15 PM
Surr: BFB	85.6	66.6-105	%Rec	1	2/14/2020 2:41:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	2/14/2020 2:41:15 PM
Toluene	ND	0.049	mg/Kg	1	2/14/2020 2:41:15 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/14/2020 2:41:15 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/14/2020 2:41:15 PM
Surr: 4-Bromofluorobenzene	94.9	80-120	%Rec	1	2/14/2020 2:41:15 PM
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	60	mg/Kg	20	2/18/2020 12:49:36 AM

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

Qualifiers:

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

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

Page 4 of 10

Date Reported: 2/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-08@0'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/8/2020 3:15:00 PM

 Lab ID:
 2002522-005
 Matrix: SOIL
 Received Date: 2/13/2020 10:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/17/2020 1:01:59 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/17/2020 1:01:59 PM
Surr: DNOP	82.8	55.1-146	%Rec	1	2/17/2020 1:01:59 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/14/2020 3:04:41 PM
Surr: BFB	84.2	66.6-105	%Rec	1	2/14/2020 3:04:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	2/14/2020 3:04:41 PM
Toluene	ND	0.049	mg/Kg	1	2/14/2020 3:04:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/14/2020 3:04:41 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/14/2020 3:04:41 PM
Surr: 4-Bromofluorobenzene	93.2	80-120	%Rec	1	2/14/2020 3:04:41 PM
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	60	mg/Kg	20	2/18/2020 1:26:38 AM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$
- PQL Practical Quanitative 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 5 of 10

Date Reported: 2/20/2020

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH20-09@0'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/8/2020 3:45:00 PM

 Lab ID:
 2002522-006
 Matrix: SOIL
 Received Date: 2/13/2020 10:18:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: CLP
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/17/2020 1:11:20 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/17/2020 1:11:20 PM
Surr: DNOP	87.4	55.1-146	%Rec	1	2/17/2020 1:11:20 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/14/2020 3:28:17 PM
Surr: BFB	82.7	66.6-105	%Rec	1	2/14/2020 3:28:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	2/14/2020 3:28:17 PM
Toluene	ND	0.049	mg/Kg	1	2/14/2020 3:28:17 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/14/2020 3:28:17 PM
Xylenes, Total	ND	0.098	mg/Kg	1	2/14/2020 3:28:17 PM
Surr: 4-Bromofluorobenzene	91.2	80-120	%Rec	1	2/14/2020 3:28:17 PM
EPA METHOD 300.0: ANIONS					Analyst: CJS
Chloride	ND	60	mg/Kg	20	2/18/2020 1:38:59 AM

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

Qualifiers:

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

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

Page 6 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: **2002522 20-Feb-20**

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-50487 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 50487 RunNo: 66591

Prep Date: 2/17/2020 Analysis Date: 2/17/2020 SeqNo: 2288952 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-50487 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 50487 RunNo: 66591

Prep Date: 2/17/2020 Analysis Date: 2/17/2020 SeqNo: 2288953 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 92.2 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 7 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002522

20-Feb-20

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-50455 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 50455 RunNo: 66580

Prep Date: 2/14/2020 Analysis Date: 2/17/2020 SeqNo: 2288366 Units: mg/Kg

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Analyte Result PQL HighLimit Qual

Diesel Range Organics (DRO) ND 10 Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.1 10.00 91.1 55.1 146

Sample ID: LCS-50455 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 50455 RunNo: 66580

Prep Date: 2/14/2020 Analysis Date: 2/17/2020 SeqNo: 2288367 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 51 10 70 130 50.00 101 Surr: DNOP 4.4 5.000 89.0 55.1 146

Sample ID: MB-50453 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 50453 RunNo: 66580

Prep Date: 2/14/2020 Analysis Date: 2/17/2020 SeqNo: 2288580 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: DNOP 8.6 10.00 85.7 55.1 146

Sample ID: LCS-50453 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 50453 RunNo: 66580

Prep Date: 2/14/2020 Analysis Date: 2/17/2020 SeqNo: 2288581 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Result PQL LowLimit HighLimit Qual Surr: DNOP 4.1 5.000 82.4 146

Qualifiers: Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded Н

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

55.1

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 8 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002522 20-Feb-20

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-50443 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 50443 RunNo: 66571

Prep Date: 2/13/2020 Analysis Date: 2/14/2020 SeqNo: 2287764 Units: mg/Kg

SPK value SPK Ref Val %REC **RPDLimit** Analyte Result PQL LowLimit HighLimit %RPD Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 780 1000 78.3 66.6 105

Sample ID: LCS-50443 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 50443 RunNo: 66571

Prep Date: 2/13/2020 Analysis Date: 2/14/2020 SeqNo: 2287765 Units: mg/Kg

HighLimit Analyte Result PQL SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 O 85.3 80 120 Surr: BFB 890

88.9

66.6

105

Sample ID: 2002522-002ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

1000

Client ID: BH20-03@0 Batch ID: 50443 RunNo: 66571

Prep Date: 2/13/2020 Analysis Date: 2/14/2020 SeqNo: 2287769 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result POI LowLimit HighLimit Qual Gasoline Range Organics (GRO) 620 25 24.63 650.5 -113 69.1 142 S Surr: BFB S 26000 4926 527 66.6 105

Sample ID: 2002522-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BH20-03@0 Batch ID: 50443 RunNo: 66571

Prep Date: 2/13/2020 Analysis Date: 2/14/2020 SeqNo: 2287770 Units: mg/Kg

SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result PQL LowLimit Qual Gasoline Range Organics (GRO) 690 25 650.5 143 S 24.90 69.1 142 9.71 20 Surr: BFB 27000 4980 552 66.6 105 0 0 S

Sample ID: mb-50435 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PRS Batch ID: 50435 RunNo: 66571

Prep Date: 2/13/2020 Analysis Date: 2/15/2020 SeqNo: 2287867 Units: %Rec

Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 790 1000 66.6 78.7 105

Sample ID: Ics-50435 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 50435 RunNo: 66571

Prep Date: 2/13/2020 Analysis Date: 2/15/2020 SeqNo: 2287868 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Surr: BFB 870 1000 87.4 66.6 105

Qualifiers:

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

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

Page 9 of 10

Hall Environmental Analysis Laboratory, Inc.

WO#: 2002522

20-Feb-20

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-50443 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 50443 RunNo: 66571

Prep Date: 2/13/2020 Analysis Date: 2/14/2020 SeqNo: 2287894 Units: mg/Kg

PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result

Benzene ND 0.025 Toluene ND 0.050 ND 0.050 Ethylbenzene Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.87 1.000 87.2 80 120

SampType: LCS Sample ID: LCS-50443 TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 50443 RunNo: 66571

Prep Date: 2/13/2020	Analysis [Date: 2/	14/2020	8	SeqNo: 2	287895	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.1	80	120			
Toluene	0.88	0.050	1.000	0	87.9	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.1	80	120			
Xylenes, Total	2.7	0.10	3.000	0	90.8	80	120			
Surr: 4-Bromofluorobenzene	0.89		1.000		89.2	80	120			

Sample ID: 2002522-001ams	SampT	ype: MS	6	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH20-02@0'	Batch	n ID: 50 4	443	F	RunNo: 6	6571				
Prep Date: 2/13/2020	Analysis D	ate: 2/	14/2020	9	SeqNo: 2	287898	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.25	0.9881	0.3167	63.4	78.5	119			S
Toluene	4.8	0.49	0.9881	4.972	-19.5	75.7	123			S
Ethylbenzene	7.1	0.49	0.9881	7.552	-44.3	74.3	126			S
Xylenes, Total	29	0.99	2.964	31.52	-86.7	72.9	130			S
Surr: 4-Bromofluorobenzene	12		9.881		118	80	120			

Sample ID: 2002522-001ams	sd SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: BH20-02@0'	Batch	ID: 50 4	443	F	RunNo: 6	6571				
Prep Date: 2/13/2020	Analysis D	ate: 2/	14/2020	9	SeqNo: 2	287899	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.25	0.9990	0.3167	77.1	78.5	119	14.1	20	S
Toluene	5.0	0.50	0.9990	4.972	1.79	75.7	123	4.31	20	S
Ethylbenzene	6.7	0.50	0.9990	7.552	-81.3	74.3	126	5.41	20	S
Xylenes, Total	27	1.0	2.997	31.52	-148	72.9	130	6.61	20	S
Surr: 4-Bromofluorobenzene	11		9.990		114	80	120	0	0	

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

RL Reporting Limit Page 10 of 10



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

Sample Log-in Check List

LABORATORY

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

Website: www.hallenvironmental.com

Received By: beam Base 2 13 2 2/13/2020 10:18:00 AM Completed By: Isalah Ortiz 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM Reviewed By: V C 2/13 2 2 2/13/2020 11:16:42 AM T C C C C C C C C C C C C C C C C C C	Client Name: DEVON ENERGY	Work Order Number: 2002522	2	RcptNo: 1
Chain of Custody I. Is Chain of Custody sufficiently complete? 2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples? 4. Were all samples received at a temperature of >0° C to 6.0°C 5. Sample(s) in proper container(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? 15. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client instructions: 16. Additional remarks: 17. Cooler Information Cooler No. Temp?**O. Condition: Seal Intact. Seal No. Seal Date. Signed by 18. Seal Date. Signed by 19. No No.	200		Look Bru	~ ^ /
1. Is Chain of Custody sufficiently complete? 2. How was the sample delivered? Courier				
2. How was the sample delivered? Log In 3. Was an attempt made to cool the samples?		v •	N- 🗆	w. s
3. Was an attempt made to cool the samples? Yes No No NA 4. Were all samples received at a temperature of >0° C to 6.0°C Yes No No NA 5. Sample(s) in proper container(s)? Yes No No No No No No No No No N		_	NO L	Not Present 🔲
5. Sample(s) in proper container(s)? 7. Are sample volume for indicated test(s)? 7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be mer? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: By Whom: Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp*C Condition Seal Intact Seal No Seal Date Signed By		Yes ⊻	No 🗆	NA 🗆
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7. Are samples (except VOA and ONG) properly preserved? 8. Was preservative added to bottles? 9. Received at least 1 vial with headspace <1/4" for AQ VOA? 10. Were any sample containers received broken? 11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) 12. Are matrices correctly identified on Chain of Custody? 13. Is it clear what analyses were requested? 14. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Person Notified: By Whom: Person Notified: Date: By Whom: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No. Temp °C Condition Seal Intact Seal No. Seal Date Signed By	5. Sample(s) in proper container(s)?	Yes 🗹	No 🗆	
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Person Notified: Person Notified:		Yes 🗹	No 🗆	Checked by: JQ 2/13/20
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Chain-of-Custody Record	nos	Wes "Mathews		ONFILE		Wesley Mathews @ dvn.com Project Manage	□ Level 4 (Full Validation)	npliance			Sample Name	BH 20-03 @ 81	BH 20-03 @ €	84 20-05 @ B"	BH 20-07001	BH 20-08 @ 0'	BH 20 -09@ 0'	BH 20-02 @ 3'	BH 20-03@3'		-	n 17		Con State	if necessary, samples submitted to Hall Environmental may be subcantracted toother accredited laboratories.	
Chain-of-Custody Recor	ION FU	vis or		NO NO	2	Wesley		☐ Az Compliance ☐ Other				Matrix	S	_						~				Relinquished by	Refinquished	samples subn
	Amanda Dav Mailing Address:			#:		QA/QC Package: ☐ Standard	Accreditation:	□ EDD (Type)		Time	1230	1300	855	SHHI	15:15	15:45	13.35	1310				Date: Time: 3/13/30 14:00	Time:	lf necessary,		
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 15, 2022

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

FAX:

RE: North Pure Gold 8 Federal 006 West OrderNo.: 2212214

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 30 sample(s) on 12/6/2022 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-11 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 8:50:00 AM

 Lab ID:
 2212214-001
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/8/2022 7:55:50 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/8/2022 7:55:50 PM
Surr: DNOP	103	21-129	%Rec	1	12/8/2022 7:55:50 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/9/2022 9:32:14 PM
Surr: BFB	89.9	37.7-212	%Rec	1	12/9/2022 9:32:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/9/2022 9:32:14 PM
Toluene	ND	0.048	mg/Kg	1	12/9/2022 9:32:14 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/9/2022 9:32:14 PM
Xylenes, Total	ND	0.096	mg/Kg	1	12/9/2022 9:32:14 PM
Surr: 4-Bromofluorobenzene	91.4	70-130	%Rec	1	12/9/2022 9:32:14 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	12/10/2022 3:43:14 AM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-11 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:00:00 AM

 Lab ID:
 2212214-002
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/8/2022 8:09:13 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/8/2022 8:09:13 PM
Surr: DNOP	108	21-129	%Rec	1	12/8/2022 8:09:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/9/2022 9:55:45 PM
Surr: BFB	92.2	37.7-212	%Rec	1	12/9/2022 9:55:45 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/9/2022 9:55:45 PM
Toluene	ND	0.048	mg/Kg	1	12/9/2022 9:55:45 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/9/2022 9:55:45 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/9/2022 9:55:45 PM
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	12/9/2022 9:55:45 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	230	60	mg/Kg	20	12/10/2022 3:55:35 AM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-11 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:05:00 AM

 Lab ID:
 2212214-003
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 8:22:32 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/8/2022 8:22:32 PM
Surr: DNOP	124	21-129	%Rec	1	12/8/2022 8:22:32 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/9/2022 10:19:14 PM
Surr: BFB	94.0	37.7-212	%Rec	1	12/9/2022 10:19:14 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/9/2022 10:19:14 PM
Toluene	ND	0.049	mg/Kg	1	12/9/2022 10:19:14 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/9/2022 10:19:14 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/9/2022 10:19:14 PM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	12/9/2022 10:19:14 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	240	60	mg/Kg	20	12/10/2022 4:07:56 AM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-12 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:10:00 AM

 Lab ID:
 2212214-004
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/8/2022 8:36:05 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/8/2022 8:36:05 PM
Surr: DNOP	99.9	21-129	%Rec	1	12/8/2022 8:36:05 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/9/2022 10:42:46 PM
Surr: BFB	94.2	37.7-212	%Rec	1	12/9/2022 10:42:46 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/9/2022 10:42:46 PM
Toluene	ND	0.048	mg/Kg	1	12/9/2022 10:42:46 PM
Ethylbenzene	ND	0.048	mg/Kg	1	12/9/2022 10:42:46 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/9/2022 10:42:46 PM
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	12/9/2022 10:42:46 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	64	61	mg/Kg	20	12/10/2022 4:20:16 AM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-12 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:20:00 AM

 Lab ID:
 2212214-005
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 8:49:41 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/8/2022 8:49:41 PM
Surr: DNOP	108	21-129	%Rec	1	12/8/2022 8:49:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/9/2022 11:06:17 PM
Surr: BFB	93.7	37.7-212	%Rec	1	12/9/2022 11:06:17 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/9/2022 11:06:17 PM
Toluene	ND	0.050	mg/Kg	1	12/9/2022 11:06:17 PM
Ethylbenzene	ND	0.050	mg/Kg	1	12/9/2022 11:06:17 PM
Xylenes, Total	ND	0.099	mg/Kg	1	12/9/2022 11:06:17 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	12/9/2022 11:06:17 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	140	60	mg/Kg	20	12/10/2022 4:32:36 AM

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

Qualifiers:

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

ple pH Not In Range
Orting Limit Page 5 of 37

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-12 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:20:00 AM

 Lab ID:
 2212214-006
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 9:03:08 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2022 9:03:08 PM
Surr: DNOP	112	21-129	%Rec	1	12/8/2022 9:03:08 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/9/2022 11:29:49 PM
Surr: BFB	93.3	37.7-212	%Rec	1	12/9/2022 11:29:49 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/9/2022 11:29:49 PM
Toluene	ND	0.049	mg/Kg	1	12/9/2022 11:29:49 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/9/2022 11:29:49 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/9/2022 11:29:49 PM
Surr: 4-Bromofluorobenzene	94.2	70-130	%Rec	1	12/9/2022 11:29:49 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	110	60	mg/Kg	20	12/10/2022 4:44:56 AM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-13 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:25:00 AM

 Lab ID:
 2212214-007
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: DGH				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/12/2022 1:09:31 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/12/2022 1:09:31 PM
Surr: DNOP	118	21-129	%Rec	1	12/12/2022 1:09:31 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/9/2022 11:53:20 PM
Surr: BFB	89.5	37.7-212	%Rec	1	12/9/2022 11:53:20 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/9/2022 11:53:20 PM
Toluene	ND	0.049	mg/Kg	1	12/9/2022 11:53:20 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/9/2022 11:53:20 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/9/2022 11:53:20 PM
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	12/9/2022 11:53:20 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 6:34:00 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-13 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:30:00 AM

 Lab ID:
 2212214-008
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 9:30:19 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2022 9:30:19 PM
Surr: DNOP	105	21-129	%Rec	1	12/8/2022 9:30:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 1:03:38 AM
Surr: BFB	94.5	37.7-212	%Rec	1	12/10/2022 1:03:38 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/10/2022 1:03:38 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 1:03:38 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 1:03:38 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/10/2022 1:03:38 AM
Surr: 4-Bromofluorobenzene	96.9	70-130	%Rec	1	12/10/2022 1:03:38 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	89	59	mg/Kg	20	12/9/2022 6:46:24 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-13 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:35:00 AM

 Lab ID:
 2212214-009
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	Analyst: SB				
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/8/2022 9:43:53 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	12/8/2022 9:43:53 PM
Surr: DNOP	111	21-129	%Rec	1	12/8/2022 9:43:53 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 1:27:04 AM
Surr: BFB	90.7	37.7-212	%Rec	1	12/10/2022 1:27:04 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/10/2022 1:27:04 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 1:27:04 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 1:27:04 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/10/2022 1:27:04 AM
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	12/10/2022 1:27:04 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	150	60	mg/Kg	20	12/9/2022 8:13:13 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-14 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:40:00 AM

 Lab ID:
 2212214-010
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/8/2022 9:57:28 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/8/2022 9:57:28 PM
Surr: DNOP	101	21-129	%Rec	1	12/8/2022 9:57:28 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 1:50:36 AM
Surr: BFB	96.8	37.7-212	%Rec	1	12/10/2022 1:50:36 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/10/2022 1:50:36 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 1:50:36 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 1:50:36 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/10/2022 1:50:36 AM
Surr: 4-Bromofluorobenzene	99.1	70-130	%Rec	1	12/10/2022 1:50:36 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 8:25:38 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-14 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:45:00 AM

 Lab ID:
 2212214-011
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: SB				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 10:11:04 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/8/2022 10:11:04 PM
Surr: DNOP	108	21-129	%Rec	1	12/8/2022 10:11:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/10/2022 2:14:01 AM
Surr: BFB	93.8	37.7-212	%Rec	1	12/10/2022 2:14:01 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 2:14:01 AM
Toluene	ND	0.050	mg/Kg	1	12/10/2022 2:14:01 AM
Ethylbenzene	ND	0.050	mg/Kg	1	12/10/2022 2:14:01 AM
Xylenes, Total	ND	0.099	mg/Kg	1	12/10/2022 2:14:01 AM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	12/10/2022 2:14:01 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 8:38:02 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-14 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 9:50:00 AM

 Lab ID:
 2212214-012
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS					Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 4:03:06 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2022 4:03:06 PM
Surr: DNOP	135	21-129	S	%Rec	1	12/8/2022 4:03:06 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 3:47:27 AM
Surr: BFB	90.8	37.7-212		%Rec	1	12/10/2022 3:47:27 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/10/2022 3:47:27 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 3:47:27 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 3:47:27 AM
Xylenes, Total	ND	0.098		mg/Kg	1	12/10/2022 3:47:27 AM
Surr: 4-Bromofluorobenzene	92.6	70-130		%Rec	1	12/10/2022 3:47:27 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/9/2022 8:50:26 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-15 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:00:00 AM

 Lab ID:
 2212214-013
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: JME			
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/8/2022 5:14:13 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/8/2022 5:14:13 PM
Surr: DNOP	98.2	21-129	%Rec	1	12/8/2022 5:14:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 4:57:20 AM
Surr: BFB	94.4	37.7-212	%Rec	1	12/10/2022 4:57:20 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 4:57:20 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 4:57:20 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 4:57:20 AM
Xylenes, Total	ND	0.099	mg/Kg	1	12/10/2022 4:57:20 AM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	12/10/2022 4:57:20 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	59	mg/Kg	20	12/9/2022 9:02:50 PM

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

Qualifiers:

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

ple pH Not In Range
orting Limit Page 13 of 37

Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-15 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:05:00 AM

 Lab ID:
 2212214-014
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG		Analyst: JME			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 5:38:00 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2022 5:38:00 PM
Surr: DNOP	125	21-129	%Rec	1	12/8/2022 5:38:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 6:07:09 AM
Surr: BFB	92.7	37.7-212	%Rec	1	12/10/2022 6:07:09 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/10/2022 6:07:09 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 6:07:09 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 6:07:09 AM
Xylenes, Total	ND	0.097	mg/Kg	1	12/10/2022 6:07:09 AM
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	12/10/2022 6:07:09 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 9:15:15 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-15 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:10:00 AM

 Lab ID:
 2212214-015
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: JME				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 6:01:34 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2022 6:01:34 PM
Surr: DNOP	128	21-129	%Rec	1	12/8/2022 6:01:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 6:30:25 AM
Surr: BFB	91.0	37.7-212	%Rec	1	12/10/2022 6:30:25 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 6:30:25 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 6:30:25 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 6:30:25 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/10/2022 6:30:25 AM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	12/10/2022 6:30:25 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	70	60	mg/Kg	20	12/9/2022 9:52:27 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-16 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:15:00 AM

 Lab ID:
 2212214-016
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/8/2022 6:25:04 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/8/2022 6:25:04 PM
Surr: DNOP	117	21-129	%Rec	1	12/8/2022 6:25:04 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 6:53:41 AM
Surr: BFB	91.3	37.7-212	%Rec	1	12/10/2022 6:53:41 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 6:53:41 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 6:53:41 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 6:53:41 AM
Xylenes, Total	ND	0.098	mg/Kg	1	12/10/2022 6:53:41 AM
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	12/10/2022 6:53:41 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 10:04:51 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-16 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:15:00 AM

 Lab ID:
 2212214-017
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR		Analyst: JME			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 6:48:33 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	12/8/2022 6:48:33 PM
Surr: DNOP	109	21-129	%Rec	1	12/8/2022 6:48:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 7:17:00 AM
Surr: BFB	95.7	37.7-212	%Rec	1	12/10/2022 7:17:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 7:17:00 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 7:17:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 7:17:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	12/10/2022 7:17:00 AM
Surr: 4-Bromofluorobenzene	98.3	70-130	%Rec	1	12/10/2022 7:17:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 10:17:15 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-16 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:20:00 AM

 Lab ID:
 2212214-018
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS					Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 7:12:00 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	12/8/2022 7:12:00 PM
Surr: DNOP	130	21-129	S	%Rec	1	12/8/2022 7:12:00 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 8:26:58 AM
Surr: BFB	88.7	37.7-212		%Rec	1	12/10/2022 8:26:58 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	12/10/2022 8:26:58 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 8:26:58 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 8:26:58 AM
Xylenes, Total	ND	0.097		mg/Kg	1	12/10/2022 8:26:58 AM
Surr: 4-Bromofluorobenzene	91.5	70-130		%Rec	1	12/10/2022 8:26:58 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/9/2022 10:29:39 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-17 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:30:00 AM

 Lab ID:
 2212214-019
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	13	mg/Kg	1	12/8/2022 7:35:27 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	12/8/2022 7:35:27 PM
Surr: DNOP	124	21-129	%Rec	1	12/8/2022 7:35:27 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 8:50:15 AM
Surr: BFB	94.2	37.7-212	%Rec	1	12/10/2022 8:50:15 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 8:50:15 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 8:50:15 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 8:50:15 AM
Xylenes, Total	ND	0.099	mg/Kg	1	12/10/2022 8:50:15 AM
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	12/10/2022 8:50:15 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 10:42:03 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-17 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:35:00 AM

 Lab ID:
 2212214-020
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: JME				
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/8/2022 7:58:54 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	12/8/2022 7:58:54 PM
Surr: DNOP	124	21-129	%Rec	1	12/8/2022 7:58:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/10/2022 9:13:35 AM
Surr: BFB	88.6	37.7-212	%Rec	1	12/10/2022 9:13:35 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 9:13:35 AM
Toluene	ND	0.050	mg/Kg	1	12/10/2022 9:13:35 AM
Ethylbenzene	ND	0.050	mg/Kg	1	12/10/2022 9:13:35 AM
Xylenes, Total	ND	0.10	mg/Kg	1	12/10/2022 9:13:35 AM
Surr: 4-Bromofluorobenzene	90.8	70-130	%Rec	1	12/10/2022 9:13:35 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 10:54:28 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-17 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:40:00 AM

 Lab ID:
 2212214-021
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	ORGANICS					Analyst: JME
Diesel Range Organics (DRO)	ND	13		mg/Kg	1	12/8/2022 8:22:34 PM
Motor Oil Range Organics (MRO)	ND	44		mg/Kg	1	12/8/2022 8:22:34 PM
Surr: DNOP	142	21-129	S	%Rec	1	12/8/2022 8:22:34 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	12/10/2022 9:36:57 AM
Surr: BFB	86.2	37.7-212		%Rec	1	12/10/2022 9:36:57 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/10/2022 9:36:57 AM
Toluene	ND	0.049		mg/Kg	1	12/10/2022 9:36:57 AM
Ethylbenzene	ND	0.049		mg/Kg	1	12/10/2022 9:36:57 AM
Xylenes, Total	ND	0.099		mg/Kg	1	12/10/2022 9:36:57 AM
Surr: 4-Bromofluorobenzene	89.2	70-130		%Rec	1	12/10/2022 9:36:57 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	61		mg/Kg	20	12/9/2022 11:06:52 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-18 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:45:00 AM

 Lab ID:
 2212214-022
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS					Analyst: JME
Diesel Range Organics (DRO)	ND	14		mg/Kg	1	12/8/2022 8:46:14 PM
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/8/2022 8:46:14 PM
Surr: DNOP	129	21-129	S	%Rec	1	12/8/2022 8:46:14 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	12/10/2022 10:00:23 AM
Surr: BFB	90.5	37.7-212		%Rec	1	12/10/2022 10:00:23 AM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	12/10/2022 10:00:23 AM
Toluene	ND	0.050		mg/Kg	1	12/10/2022 10:00:23 AM
Ethylbenzene	ND	0.050		mg/Kg	1	12/10/2022 10:00:23 AM
Xylenes, Total	ND	0.10		mg/Kg	1	12/10/2022 10:00:23 AM
Surr: 4-Bromofluorobenzene	93.7	70-130		%Rec	1	12/10/2022 10:00:23 AM
EPA METHOD 300.0: ANIONS						Analyst: NAI
Chloride	ND	60		mg/Kg	20	12/9/2022 11:19:16 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-18 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:50:00 AM

 Lab ID:
 2212214-023
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C		Analyst: JME			
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 9:09:54 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/8/2022 9:09:54 PM
Surr: DNOP	110	21-129	%Rec	1	12/8/2022 9:09:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/10/2022 10:23:48 AM
Surr: BFB	94.7	37.7-212	%Rec	1	12/10/2022 10:23:48 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 10:23:48 AM
Toluene	ND	0.050	mg/Kg	1	12/10/2022 10:23:48 AM
Ethylbenzene	ND	0.050	mg/Kg	1	12/10/2022 10:23:48 AM
Xylenes, Total	ND	0.099	mg/Kg	1	12/10/2022 10:23:48 AM
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	12/10/2022 10:23:48 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	61	mg/Kg	20	12/9/2022 11:31:40 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-18 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 10:55:00 AM

 Lab ID:
 2212214-024
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE	Analyst: JME				
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 9:33:35 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	12/8/2022 9:33:35 PM
Surr: DNOP	92.9	21-129	%Rec	1	12/8/2022 9:33:35 PM
EPA METHOD 8015D: GASOLINE RANGE	<u> </u>				Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 10:47:14 AM
Surr: BFB	93.7	37.7-212	%Rec	1	12/10/2022 10:47:14 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 10:47:14 AM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 10:47:14 AM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 10:47:14 AM
Xylenes, Total	ND	0.099	mg/Kg	1	12/10/2022 10:47:14 AM
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	12/10/2022 10:47:14 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/9/2022 11:44:05 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-19 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 11:00:00 AM

 Lab ID:
 2212214-025
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 9:57:15 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2022 9:57:15 PM
Surr: DNOP	115	21-129	%Rec	1	12/8/2022 9:57:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/10/2022 11:10:43 AM
Surr: BFB	91.3	37.7-212	%Rec	1	12/10/2022 11:10:43 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/10/2022 11:10:43 AM
Toluene	ND	0.048	mg/Kg	1	12/10/2022 11:10:43 AM
Ethylbenzene	ND	0.048	mg/Kg	1	12/10/2022 11:10:43 AM
Xylenes, Total	ND	0.096	mg/Kg	1	12/10/2022 11:10:43 AM
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	12/10/2022 11:10:43 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/10/2022 12:21:18 AM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-19 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 11:05:00 AM

 Lab ID:
 2212214-026
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	15	mg/Kg	1	12/8/2022 10:20:57 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	12/8/2022 10:20:57 PM
Surr: DNOP	109	21-129	%Rec	1	12/8/2022 10:20:57 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	12/10/2022 11:34:16 AM
Surr: BFB	92.2	37.7-212	%Rec	1	12/10/2022 11:34:16 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/10/2022 11:34:16 AM
Toluene	ND	0.048	mg/Kg	1	12/10/2022 11:34:16 AM
Ethylbenzene	ND	0.048	mg/Kg	1	12/10/2022 11:34:16 AM
Xylenes, Total	ND	0.097	mg/Kg	1	12/10/2022 11:34:16 AM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	12/10/2022 11:34:16 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/10/2022 12:33:42 AM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BH22-19 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 11:10:00 AM

 Lab ID:
 2212214-027
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 10:44:41 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2022 10:44:41 PM
Surr: DNOP	117	21-129	%Rec	1	12/8/2022 10:44:41 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	12/10/2022 11:57:48 AM
Surr: BFB	96.1	37.7-212	%Rec	1	12/10/2022 11:57:48 AM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 11:57:48 AM
Toluene	ND	0.050	mg/Kg	1	12/10/2022 11:57:48 AM
Ethylbenzene	ND	0.050	mg/Kg	1	12/10/2022 11:57:48 AM
Xylenes, Total	ND	0.10	mg/Kg	1	12/10/2022 11:57:48 AM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	12/10/2022 11:57:48 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/10/2022 11:15:47 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-20 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 11:15:00 AM

 Lab ID:
 2212214-028
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 11:08:19 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2022 11:08:19 PM
Surr: DNOP	108	21-129	%Rec	1	12/8/2022 11:08:19 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 1:08:15 PM
Surr: BFB	94.6	37.7-212	%Rec	1	12/10/2022 1:08:15 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.024	mg/Kg	1	12/10/2022 1:08:15 PM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 1:08:15 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 1:08:15 PM
Xylenes, Total	ND	0.097	mg/Kg	1	12/10/2022 1:08:15 PM
Surr: 4-Bromofluorobenzene	96.3	70-130	%Rec	1	12/10/2022 1:08:15 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/10/2022 11:52:48 AM

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

Qualifiers:

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

ple pH Not In Range
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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-20 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 11:15:00 AM

 Lab ID:
 2212214-029
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 11:31:54 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	12/8/2022 11:31:54 PM
Surr: DNOP	123	21-129	%Rec	1	12/8/2022 11:31:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 1:31:41 PM
Surr: BFB	93.3	37.7-212	%Rec	1	12/10/2022 1:31:41 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 1:31:41 PM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 1:31:41 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 1:31:41 PM
Xylenes, Total	ND	0.099	mg/Kg	1	12/10/2022 1:31:41 PM
Surr: 4-Bromofluorobenzene	94.8	70-130	%Rec	1	12/10/2022 1:31:41 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/10/2022 12:05:08 PM

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

Qualifiers:

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

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Date Reported: 12/15/2022

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH22-20 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 12/3/2022 11:20:00 AM

 Lab ID:
 2212214-030
 Matrix: SOIL
 Received Date: 12/6/2022 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: JME
Diesel Range Organics (DRO)	ND	14	mg/Kg	1	12/8/2022 11:55:33 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	12/8/2022 11:55:33 PM
Surr: DNOP	123	21-129	%Rec	1	12/8/2022 11:55:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	12/10/2022 1:55:20 PM
Surr: BFB	94.2	37.7-212	%Rec	1	12/10/2022 1:55:20 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.025	mg/Kg	1	12/10/2022 1:55:20 PM
Toluene	ND	0.049	mg/Kg	1	12/10/2022 1:55:20 PM
Ethylbenzene	ND	0.049	mg/Kg	1	12/10/2022 1:55:20 PM
Xylenes, Total	ND	0.098	mg/Kg	1	12/10/2022 1:55:20 PM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	12/10/2022 1:55:20 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	12/10/2022 12:17:29 PM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212214**

15-Dec-22

Client:	Vertex Resources Services, Inc.
Project:	North Pure Gold 8 Federal 006 West

	Not	th Pure Gold 8 Federal 006 West						
Sample ID:	MB-72005	SampType: mblk	TestCode: EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID: 72005	RunNo: 93172					
Prep Date:	12/9/2022	Analysis Date: 12/9/2022	SeqNo: 3357627	Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride		ND 1.5						
Sample ID:	LCS-72005	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Client ID:	LCSS	Batch ID: 72005	RunNo: 93172					
Prep Date:	12/9/2022	Analysis Date: 12/9/2022	SeqNo: 3357628	Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride		15 1.5 15.00	0 97.2 90	110				
Sample ID:	MB-72002	SampType: mblk	TestCode: EPA Method	300.0: Anions				
Client ID:	PBS	Batch ID: 72002	RunNo: 93190					
Prep Date:	12/9/2022	Analysis Date: 12/9/2022	SeqNo: 3357982	Units: mg/Kg				
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual			
Chloride		ND 1.5						
Sample ID:	LCS-72002	SampType: Ics	TestCode: EPA Method	300.0: Anions				
Sample ID: Client ID:	LCS-72002 LCSS	SampType: Ics Batch ID: 72002	TestCode: EPA Method RunNo: 93190	300.0: Anions				
				300.0: Anions Units: mg/Kg				
Client ID:	LCSS	Batch ID: 72002 Analysis Date: 12/9/2022	RunNo: 93190		RPDLimit Qual			
Client ID: Prep Date:	LCSS	Batch ID: 72002 Analysis Date: 12/9/2022	RunNo: 93190 SeqNo: 3357983	Units: mg/Kg	RPDLimit Qual			
Client ID: Prep Date: Analyte Chloride	LCSS	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value	RunNo: 93190 SeqNo: 3357983 SPK Ref Val %REC LowLimit	Units: mg/Kg HighLimit %RPD 110	RPDLimit Qual			
Client ID: Prep Date: Analyte Chloride	LCSS 12/9/2022	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value 14 1.5 15.00	RunNo: 93190 SeqNo: 3357983 SPK Ref Val %REC LowLimit 0 96.3 90	Units: mg/Kg HighLimit %RPD 110	RPDLimit Qual			
Client ID: Prep Date: Analyte Chloride Sample ID:	LCSS 12/9/2022 MB-72006	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value 14 1.5 15.00 SampType: mblk	RunNo: 93190 SeqNo: 3357983 SPK Ref Val %REC LowLimit 0 96.3 90 TestCode: EPA Method	Units: mg/Kg HighLimit %RPD 110	RPDLimit Qual			
Client ID: Prep Date: Analyte Chloride Sample ID: Client ID:	LCSS 12/9/2022 MB-72006 PBS	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 72006 Analysis Date: 12/10/2022	RunNo: 93190 SeqNo: 3357983 SPK Ref Val %REC LowLimit 0 96.3 90 TestCode: EPA Method RunNo: 93192	Units: mg/Kg HighLimit %RPD 110 300.0: Anions	RPDLimit Qual			
Client ID: Prep Date: Analyte Chloride Sample ID: Client ID: Prep Date:	LCSS 12/9/2022 MB-72006 PBS	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 72006 Analysis Date: 12/10/2022	RunNo: 93190 SeqNo: 3357983 SPK Ref Val %REC LowLimit 0 96.3 90 TestCode: EPA Method RunNo: 93192 SeqNo: 3358070	Units: mg/Kg HighLimit %RPD 110 300.0: Anions Units: mg/Kg				
Client ID: Prep Date: Analyte Chloride Sample ID: Client ID: Prep Date: Analyte Chloride	LCSS 12/9/2022 MB-72006 PBS	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 72006 Analysis Date: 12/10/2022 Result PQL SPK value	RunNo: 93190 SeqNo: 3357983 SPK Ref Val %REC LowLimit 0 96.3 90 TestCode: EPA Method RunNo: 93192 SeqNo: 3358070	Units: mg/Kg HighLimit %RPD 110 300.0: Anions Units: mg/Kg HighLimit %RPD				
Client ID: Prep Date: Analyte Chloride Sample ID: Client ID: Prep Date: Analyte Chloride	MB-72006 PBS 12/9/2022	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 72006 Analysis Date: 12/10/2022 Result PQL SPK value ND 1.5	RunNo: 93190 SeqNo: 3357983 SPK Ref Val	Units: mg/Kg HighLimit %RPD 110 300.0: Anions Units: mg/Kg HighLimit %RPD				
Client ID: Prep Date: Analyte Chloride Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID:	MB-72006 PBS 12/9/2022	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 72006 Analysis Date: 12/10/2022 Result PQL SPK value ND 1.5 SampType: Ics	RunNo: 93190 SeqNo: 3357983 SPK Ref Val %REC LowLimit 0 96.3 90 TestCode: EPA Method SPK Ref Val %REC LowLimit TestCode: EPA Method	Units: mg/Kg HighLimit %RPD 110 300.0: Anions Units: mg/Kg HighLimit %RPD				
Client ID: Prep Date: Analyte Chloride Sample ID: Client ID: Prep Date: Analyte Chloride Sample ID: Client ID: Client ID:	MB-72006 PBS 12/9/2022 LCS-72006 LCSS	Batch ID: 72002 Analysis Date: 12/9/2022 Result PQL SPK value 14 1.5 15.00 SampType: mblk Batch ID: 72006 Analysis Date: 12/10/2022 Result PQL SPK value ND 1.5 SampType: lcs Batch ID: 72006	RunNo: 93190 SeqNo: 3357983 SPK Ref Val %REC LowLimit 0 96.3 90 TestCode: EPA Method SPK Ref Val %REC LowLimit TestCode: EPA Method RunNo: 93192	Units: mg/Kg HighLimit %RPD 110 300.0: Anions Units: mg/Kg HighLimit %RPD 300.0: Anions				

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212214** *15-Dec-22*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

	140rtii 1 ure Gold 6	1 cacrar	000 11 651							
Sample ID: MB-7192	Samp	Туре: МВ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Bato	h ID: 719	925	RunNo: 93133						
Prep Date: 12/7/20	22 Analysis I	Date: 12	/8/2022	5	SeqNo: 33	354846	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	,	15								
Motor Oil Range Organics		50								
Surr: DNOP	12		10.00		119	21	129			
Sample ID: LCS-719	25 Samp	Type: LC:	S	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Bato	h ID: 719	925	F	RunNo: 93	3133				
Prep Date: 12/7/20	22 Analysis I	Date: 12	/8/2022	8	SeqNo: 33	354847	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 59	15	50.00	0	118	64.4	127			
Surr: DNOP	5.5		5.000		111	21	129			
Sample ID: 2212214	-012AMS Samp	Туре: МЅ		Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH22-14	4' Bato	h ID: 71 9	925	F	RunNo: 93	3133				
Prep Date: 12/7/20	22 Analysis I	Date: 12	/8/2022	5	SeqNo: 33	354849	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 49	14	45.54	0	108	36.1	154			
Surr: DNOP	4.9		4.554		107	21	129			
Sample ID: 2212214	-012AMSD Samp	Type: MS	SD .	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BH22-14	4' Bato	ch ID: 71 9	925	F	RunNo: 93	3133				
Prep Date: 12/7/20	22 Analysis I	Date: 12	/8/2022	9	SeqNo: 33	354850	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) 55	14	46.69	0	117	36.1	154	11.1	33.9	
Surr: DNOP	5.3		4.669		114	21	129	0	0	
Sample ID: MB-7192	20 Samp	Туре: МВ	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Bato	h ID: 719	920	F	RunNo: 93	3122				
Prep Date: 12/7/20	22 Analysis I	Date: 12	/8/2022	5	SeqNo: 33	356908	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (D	RO) ND	15								
Motor Oil Range Organics	(MRO) ND	50								
Surr: DNOP	11		10.00		108	21	129			

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214 15-Dec-22

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 West

Sample ID: LCS-71920 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: Batch ID: 71920 LCSS RunNo: 93122 SeqNo: 3356909 Prep Date: 12/7/2022 Analysis Date: 12/8/2022 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 57 15 50.00 0 113 64.4 127 Surr: DNOP 5.4 5.000 107 21 129

Qualifiers:

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

Page 33 of 37

Hall Environmental Analysis Laboratory, Inc.

WO#: **2212214** *15-Dec-22*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Project: North Po	ire Gold 8 Federal	t oob west							
Sample ID: mb-71909	SampType: M	BLK	Tes	stCode: EF	A Method	8015D: Gaso	line Range		
Client ID: PBS	Batch ID: 71	909	F	RunNo: 93	3131				
Prep Date: 12/7/2022	Analysis Date: 12	2/9/2022	5	SeqNo: 33	354774	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	870	1000		86.9	37.7	212			
Sample ID: Ics-71909	SampType: LC	cs	Tes	stCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch ID: 71	909	F	RunNo: 93	3131				
Prep Date: 12/7/2022	Analysis Date: 12	2/9/2022	9	SeqNo: 33	354775	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0		0	96.9	72.3	137			
Surr: BFB	1800	1000		185	37.7	212			
Sample ID: mb-71918	SampType: MI	BLK	Tes	stCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch ID: 71	Batch ID: 71918			RunNo: 93146				
Prep Date: 12/7/2022	Analysis Date: 12	2/10/2022	5	SeqNo: 33	357250	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND 5.0								
Surr: BFB	940	1000		93.5	37.7	212			
Sample ID: Ics-71918	SampType: L0	cs	Tes	stCode: EF	PA Method	8015D: Gaso	line Range	•	
Client ID: LCSS	Batch ID: 71	918	F	RunNo: 93	3146				
Prep Date: 12/7/2022	Analysis Date: 1	2/10/2022	5	SeqNo: 33	357251	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	24 5.0	25.00	0	96.5	72.3	137			
Surr: BFB	1900	1000		188	37.7	212			
Sample ID: 2212214-012ams	SampType: M:	s	Tes	stCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: BH22-14 4'	Batch ID: 71	918	F	RunNo: 93	3146				
Prep Date: 12/7/2022	Analysis Date: 1:	2/10/2022	9	SeqNo: 33	357253	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23 4.9	24.58	0	93.9	70	130			
Surr: BFB	1900	983.3		189	37.7	212			
Sample ID: 2212214-012ams	d SampType: M	SD	Tes	stCode: EF	PA Method	8015D: Gaso	line Range		
Client ID: BH22-14 4'	Batch ID: 71	918	F	RunNo: 93	3146				
Prep Date: 12/7/2022	Analysis Date: 1:	2/10/2022	5	SeqNo: 33	357254	Units: mg/k	ζg		
Asstats	Decell BOI	ODK	ODK D-CV	0/050	1 12 - 2	10.612.9	0/ DDD	DDDI ''	01

Qualifiers:

Analyte

- 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 Quanitative Limit

Result

PQL

- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value

%REC

LowLimit

HighLimit

- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

SPK value SPK Ref Val

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RPDLimit

Qual

%RPD

Hall Environmental Analysis Laboratory, Inc.

2212214 15-Dec-22

WO#:

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: 2212214-012amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BH22-14 4' Batch ID: 71918 RunNo: 93146 Prep Date: 12/7/2022 Analysis Date: 12/10/2022 SeqNo: 3357254 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 24.63 Gasoline Range Organics (GRO) 23 4.9 93.5 70 130 0.230 20 Surr: BFB 1800 985.2 186 37.7 212 0 0

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2212214**

15-Dec-22

Client:	Vertex Resources Services, Inc.
Project:	North Pure Gold 8 Federal 006 West

Sample ID: mb-71909	Samp	SampType: MBLK TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batc	h ID: 71 9	909	F	RunNo: 93131					
Prep Date: 12/7/2022	Analysis [Date: 12	/9/2022	S	SeqNo: 3	354822	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.89		1.000		89.4	70	130			
Sample ID: LCS-71909	Samp ⁻	Type: LC	S	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batch ID: 71909			F	RunNo: 9:	3131				
Prep Date: 12/7/2022	Analysis [Date: 12	/9/2022	5	SeqNo: 3	354823	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	1.000	0	96.7	80	120			
Toluene	0.97	0.050	1.000	0	97.2	80	120			
Ethylbenzene	0.96	0.050	1.000	0	95.7	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.3	80	120			
Surr: 4-Bromofluorobenzene	0.93		1.000		93.0	70	130			
Sample ID: mb-71918	Samp	Туре: МЕ	BLK	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: PBS	Batc	h ID: 71 9	918	F	RunNo: 9	3146				
Prep Date: 12/7/2022	Analysis [Date: 12	/10/2022	S	SeqNo: 3	357332	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	70	130			
Sample ID: LCS-71918	Samp	Гуре: LC	s	Tes	tCode: EF	PA Method	8021B: Volati	iles		
Client ID: LCSS	Batc	h ID: 71 9	918	F	RunNo: 9:	3146				
Prep Date: 12/7/2022	Analysis [Date: 12	/10/2022	5	SeqNo: 3	357333	Units: mg/K	(g		
,										
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
·	0.86 0.87	PQL 0.025	SPK value 1.000	SPK Ref Val 0 0	%REC 86.3 87.3	LowLimit 80	HighLimit 120 120	%RPD	RPDLimit	Qual

Qualifiers:

Ethylbenzene

Xylenes, Total

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix

Surr: 4-Bromofluorobenzene

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

0.87

2.6

0.94

0.050

0.10

1.000

3.000

1.000

B Analyte detected in the associated Method Blank

86.6

86.8

94.3

80

80

70

120

120

130

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

0

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2212214

15-Dec-22

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: 2212214-013ams	Samp ¹	Гуре: МЅ)	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BH22-15 0'	Batc	h ID: 71 9	918	F	RunNo: 93	3146				
Prep Date: 12/7/2022	Analysis [Date: 12	/10/2022	(SeqNo: 33	357336	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.97	0.025	0.9872	0	98.5	68.8	120			
Toluene	0.99	0.049	0.9872	0	100	73.6	124			
Ethylbenzene	0.99	0.049	0.9872	0	101	72.7	129			
Xylenes, Total	3.0	0.099	2.962	0.01834	99.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.93		0.9872		93.9	70	130			

Sample ID: 2212214-013amsd	Samp	Туре: МЅ	SD	Tes	tCode: EF	PA Method	8021B: Volati	les		
Client ID: BH22-15 0'	Batc	h ID: 71 9	918	F	RunNo: 9	3146				
Prep Date: 12/7/2022	Analysis [Date: 12	/10/2022	9	SeqNo: 3	357337	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9833	0	96.2	68.8	120	2.74	20	
Toluene	0.97	0.049	0.9833	0	98.5	73.6	124	2.35	20	
Ethylbenzene	0.97	0.049	0.9833	0	99.1	72.7	129	1.91	20	
Xylenes, Total	2.9	0.098	2.950	0.01834	98.2	75.7	126	2.02	20	
Surr: 4-Bromofluorobenzene	0.92		0.9833		93.8	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

Client Name:	Vertex Res		Work	Order Numb	er: 221	2214			RcptNo	: 1
Received By:	Sean Livir	ngston	12/6/20	22 7:30:00 A	М		S	Logot	•	
Completed By:	Sean Livir	ngston	12/6/20	22 8:20:21 A	М		S .	Lost		
Reviewed By:	JA 12-6	22						Ci jo, -	-	
Chain of Cust	tody						_			
1. Is Chain of Cu	stody compl	lete?			Yes	V	No [] No	t Present 🗌	
2. How was the	sample deliv	ered?			<u>Cou</u>	<u>rier</u>				
<u>Log In</u>						_	_	_		
3. Was an attem	pt made to o	ool the sampl	es?		Yes	V	No [_	na 🗌	
4. Were all samp	les received	at a temperat	ture of >0° C	to 6.0°C	Yes	V	No []	na 🗆	
5. Sample(s) in p	oroper contai	ner(s)?			Yes	V	No 🗆			
6. Sufficient sam	ple volume f	or indicated te	st(s)?		Yes	V	No 🗆]		
7. Are samples (except VOA	and ONG) pro	perly preserve	ed?	Yes	✓	No []		
8. Was preservat	ive added to	bottles?			Yes		No 🛂	•	NA 🗌	
9. Received at le	ast 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No [)	NA 🗹	
10. Were any sam	nple containe	ers received b	roken?		Yes		No 🛚	# of p	reserved s checked	
11. Does paperwo (Note discrepa)		Yes	✓	No 🗆] for pH	l: (<2 o	or >12 unless noted)
12. Are matrices c	orrectly iden	tified on Chair	of Custody?		Yes	V	No []	Adjusted?	
13. Is it clear what	analyses we	ere requested	?		Yes		No 🗆]		- alcha
14. Were all holdin (If no, notify cu	-				Yes	✓	No L		Checked by:	Ja12/6/22
Special Handli										
15. Was client no			vith this order?	,	Yes		No []	NA 🗹	
Person	Notified:			Date:			-	_		
By Who	m:			Via:	☐ eM	ail [Phone F	ax 🗌 In I	Person	
Regardi	ng:		entretanium encursamen							
Client In	structions:									
16. Additional rer	marks:									
17. Cooler Infor	mation									
Cooler No	Temp ºC	Condition	Seal Intact	Seal No	Seal D	ate	Signed By			
1	5.2	Good						A A A A A A A A A A A A A A A A A A A		
2	0.9	Good						W		
3	1.7	Good								
4	0.3	Good	1	1						



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

Client Name: Vertex Resources Work Order Number: 2212214 RcptNo: 1 Services, Inc.

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
5	0.1	Good				

Received Copy	Pr 38 P. a.	Received PAPP 3 SPACE 13 16 19 MR ecord	Turn-Around Time:	Time:					:		i		è	Page 436 of 624	36 of 624
Client:	Vertex	×	∑ Standard	K Rush	5 Day			V	i a	Z	ANALYSIS	IS	¥ \$	LABORATORY	r'r RY
	(direct	(direct bill to Devon)	Project Name:						\$	w.ha	www.hallenvironmental.com	John		mo	
Mailing Address:	ress:		North Pure Gold 8 Federal #006, West	old 8 Federa	II #006, West		4	4901 Hawkins NE	wkins		- Albu	ndne	dne,	Albuquerque, NM 87109	
			Project #:				_	Tel. 508	505-345-3975	3975		ax 5	05-34	Fax 505-345-4107	
Phone #:			22E-02816-07	,						-	Analysis Request	sis R	edne	ţ.	
email or Fax#:	. #:		Project Manager:	ger:							[⊅] O ⁹		(;u		
QA/QC Package:	age:		Kent Stallings						SM	OIM	S ԠC				
□ Standard		☐ Level 4 (Full Validation)	kstallings@vertex.ca	rtex.ca					150.	100	Эд '		// ₁ u		-
Accreditation:		mpliance	Sampler:	L.Pullman						170 h	^z ON				
☐ EDD (Tvpe)	- 1		# of Coolers:	S L	201										
			Cooler Temp(including CF):	ncluding CF):	A character							(AC			
E C	, ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;		Container	Preservative	HEAL No.		TEX /	99 180	DB (Ma	AHs by	l, F, B	v) 092	270 (Se OTS OTSI Co		
				5 2 2	h/22/22			-				8			
	ļ	BH22-11 2'	1. 4oz jar		8		+-		 	ļ	×	1			
	ļ	BH22-11 4'	1, 4oz jar		03		├				×				
12/03/22 09:10		BH22-12 0'	1, 4oz jar		1000		×				×				
12/03/22 09:20	.20 Soil	BH22-12 2'	1, 4oz jar		500		×				×				
12/03/22 09:20	Soil	BH22-12 4'	1, 4oz jar		SOL		×				×				
12/03/22 09:25	.25 Soil	BH22-13 0'	1, 4oz jar		400	<u> </u>	×				×				
12/03/22 09:30	:30 Soil	BH22-13 2'	1, 4oz jar		00%		×				×				
12/03/22 09:35	Soil Soil	BH22-13 4'	1, 4oz jar		900		×				×				
12/03/22 09:40	.40 Soil	BH22-14 0'	1, 4oz jar		CIO		×				×				
12/03/22 09:45	.45 Soil	BH22-14 2'	1, 4oz jar		Ö		×				×				
12/03/22 09:50		Soil BH22-14 4'	1, 4oz jar		0(2		×				×				
Date: Time:		ilshed by:	Received by:	Via:	Ë		Remarks	ks:		C			_		
	\neg	2 Tulldam	3		2	9	rect c. kst	Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Report	Devo @vel	n, Da tex.c	le wo	odal	Rep	ť	
Date: Time:		Relinquished by:	Received by:	Via:	Date Time			9)			;			`
18/2 1900	S C		25	كاسرى	12/2/20 7:	7:30	:								1/3

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

Receive Chy &	GP-2872C	Receive Chaff SYZ CUSTO CHY Record	Turn-Around Time:	lime:				1	=	ū	2	0	Page 437 of 624	of 624
Client:	Vertex	Y	X Standard	A Rush	5 Dan			₹	Z	 	IS	2	ANALYSIS LABORATORY	. >
		(direct bill to Devon)	Project Name:				I	5	ww.h	allenvi	ronm	www.hallenvironmental.com	wo:	
Mailing Address:	ress:		North Pure Gol	old 8 Federa	d 8 Federal #006, West		4901 Hawkins NE	lawkin	s NE	ı	ndne	rque, Î	Albuquerque, NM 87109	
			Project #:				Tel. 5(505-345-3975	-397		Fax 5	05-34	505-345-4107	
Phone #:			22E-02816-07							Analysis		Request	tt.	
email or Fax#:	弁:		Project Manager:	jer:		(1			-	[₽] OS		(Jua		
QA/QC Package:	age:		Kent Stallings			208)			SWI	S '⊅C				
□ Standard		☐ Level 4 (Full Validation)	kstallings@vertex.ca	rtex.ca) s,8			S0,	Эд '		//ţu		
Accreditation:	<u>:</u>	Az Compliance	Sampler:	L.Pullman		IMT		(1.1	728	² ON				
□ NELAC			On Ice:	⊡rYes	□ No	. / :		7 09						
☐ EDD (Type)	(əd		# of Coolers:			38.		po			(
			Cooler Temp(including CF):		Sec chaetely for	LM		leth			AO			
				Preservative	HEAL No.	/ X3.	08:H	M) ac	d sH/	H, E	۸) 09	2) 07: O lste		
Date Time	ne Matrix	x Sample Name	Type and #	Type		т8	\rightarrow	33	_	\rightarrow	28	_		-
12/03/22 10:	10:00 Soil	BH22-15 0'	1, 4oz jar		013	×	×		\dashv	×				
12/03/22 10:	10:05 Soil	BH22-15 2'	1, 4oz jar		٥(٦	×	×			×				
12/03/22 10:	10:10 Soil	BH22-15 4'	1, 4oz jar		205	×	×			×				
12/03/22 10:	10:15 Soil	BH22-16 0'	1, 4oz jar		J)(C	×	×			×				
12/03/22 10:	10:15 Soil	BH22-16 2'	1, 4oz jar		F)0	×	×			×				
12/03/22 10:	10:20 Soil	BH22-16 4'	1, 4oz jar) (%)	×	×			×				
12/03/22 10:	10:30 Soil	BH22-17 0'	1, 4oz jar		2/9	×	×			×				
12/03/22 10:	10:35 Soil	BH22-17 2'	1, 4oz jar		32	×	×			×				
12/03/22 10:	10:40 Soil	BH22-17 4'	1, 4oz jar		320	×	×			×				
12/03/22 10:	10:45 Soil	BH22-18 0'	1, 4oz jar		222	×	×			×				
12/03/22 10:	10:50 Soil	BH22-18 2'	1, 4oz jar		523	×	×			×				
12/03/22 10:55		BH22-18 4'	1, 4oz jar		OCH	×	×			×				
Date: Time		ished by:	Received by:	Via:	j <u>⊨</u>	Rem	Remarks:							
00,10 8-9-01	99	Jak Lullingar	al	١	3	Dire	Direct bill to Devon, Dale Woodall	Dev	on, D	ale Wo	ooda Fina	II Rep	t	
Date: Time	_	Relinquished by:	Received by:	Via:	Date Time	; ;				5	-			
12/22 (300)	3	1	M	Sum	(2)c/12/20)								7/3	€7
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Received	Shooting.	Receive Chally - OPLE US tody MRecord	cord	Turn-Around Time:	Time:					1	:	1	-		Page 438 of 624	Page 4	138 of 6	524
Client:		Vertex		X Standard	Rush_	50an	1 _		7 [S &	A	ANALYSIS	S	28	LABORATORY	ATO	K	
		(direct bill to Devon)		Project Name:						\$	w.hal	www.hallenvironmental.com	nuc	ental.c	E.			
Mailing	Mailing Address:			North Pure Gol	Sold 8 Federa	d 8 Federal #006, West		490	7 T	4901 Hawkins NE	ا ا	Albu	dner	que, N	Albuquerque, NM 87109			
				Project #:				Tel.	. 505	505-345-3975	3975	Fax	x 50	505-345-4107	4107			
Phone #:	#:			22E-02816-07	7						۷	Analysis Request	is Re	sanba				
email or Fax#:	r Fax#:			Project Manager:	ger:		(1	(0	-			[†] O [‡]	-	(Ju				
QA/QC	QA/QC Package:			Kent Stallings	10		802	ЯM	s's	SW		S 'Þ(əsq				
□ Stan	Standard	☐ Level 4 (Full Validation)	√alidation)	kstallings@vertex.ca	ertex.ca) s,	/ O		IIS0		Dd '		A∖}u				
Accreditation:	itation:	☐ Az Compliance		Sampler:	L.Pullman		LME	\ DE				10 ⁵						
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☐ EDD (Type)	(Type)			# of Coolers:	5		38.	49)										
				Cooler Temp(including CF):		Sec Churking	TM	12D										
	į			Container	Preservative	HEAL No.	LEX \	08:H	-91 P8	M) ac	3 AAC	E, E	Λ) 09	2) 07: 				
Date	a L	Matrix Sample Name	ame	I ype and #	i ype		г8	4T	\rightarrow	\rightarrow	\dashv	-	_	\rightarrow	1		1	
12/03/22	11:00	Soil BH22-19 0'	0 0,	1, 4oz jar		025	×	×				×						
12/03/22	11:05	Soil BH22-19 2'	9 2'	1, 4oz jar		720	×	×				×						Γ
12/03/22	11:10	Soil BH22-19 4'	94'	1, 4oz jar		420	×	×				×						
12/03/22	11:15	Soil BH22-20 0'	0 0'	1, 4oz jar		22%	×	×				×		_				
12/03/22	11:15	Soil BH22-20 2'	0 2'	1, 4oz jar		520	×	×				×						
12/03/22	11:20	Soil BH22-20 4'	0 4'	1, 4oz jar		530	×	×				×						
Date:	Time: O7:f/d	Relinquished by: $\mathcal{S} = \mathcal{L} = \mathcal{L} = \mathcal{L} = \mathcal{L}$		Received by:	Via:	Date Time	Rer	Remarks Direct bil	: to [evor	. Dale	Remarks: Direct bill to Devon. Dale Woodall	labo					
Date:	Time:	Relinquished by:		Received by:	Via:	3 ⊏	<u>છ</u>	stall	ings(@ver	ex.ca	cc. kstallings@vertex.ca for Final Report	ınal	Repo	4			
12/20	12/2 1900		1		, runo	05:4 2:30											3/3	
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If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



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

March 06, 2023

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

FAX

RE: North Pure Gold 8 Federal 006 West OrderNo.: 2302A00

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 6 sample(s) on 2/23/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 8'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/21/2023 8:15:00 AM

 Lab ID:
 2302A00-001
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/28/2023 3:39:37 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 3:39:37 AM
Surr: DNOP	92.0	69-147	%Rec	1	2/28/2023 3:39:37 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/27/2023 9:34:00 PM
Surr: BFB	104	37.7-212	%Rec	1	2/27/2023 9:34:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/27/2023 9:34:00 PM
Toluene	ND	0.047	mg/Kg	1	2/27/2023 9:34:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/27/2023 9:34:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/27/2023 9:34:00 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	2/27/2023 9:34:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 12:51:53 PM

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

Qualifiers:

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

Page 1 of 11

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-21 9'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/21/2023 9:25:00 AM

 Lab ID:
 2302A00-002
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	2/28/2023 4:11:27 AM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/28/2023 4:11:27 AM
Surr: DNOP	89.3	69-147	%Rec	1	2/28/2023 4:11:27 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/27/2023 10:33:00 PM
Surr: BFB	102	37.7-212	%Rec	1	2/27/2023 10:33:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	2/27/2023 10:33:00 PM
Toluene	ND	0.047	mg/Kg	1	2/27/2023 10:33:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/27/2023 10:33:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	2/27/2023 10:33:00 PM
Surr: 4-Bromofluorobenzene	93.9	70-130	%Rec	1	2/27/2023 10:33:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 1:04:18 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 11

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 6'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/21/2023 8:50:00 AM

 Lab ID:
 2302A00-003
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/28/2023 4:22:07 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/28/2023 4:22:07 AM
Surr: DNOP	89.2	69-147	%Rec	1	2/28/2023 4:22:07 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/27/2023 11:32:00 PM
Surr: BFB	105	37.7-212	%Rec	1	2/27/2023 11:32:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/27/2023 11:32:00 PM
Toluene	ND	0.047	mg/Kg	1	2/27/2023 11:32:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/27/2023 11:32:00 PM
Xylenes, Total	ND	0.094	mg/Kg	1	2/27/2023 11:32:00 PM
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	2/27/2023 11:32:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 1:16:42 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 11

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-22 8'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/21/2023 9:00:00 AM

 Lab ID:
 2302A00-004
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/28/2023 4:32:46 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/28/2023 4:32:46 AM
Surr: DNOP	87.0	69-147	%Rec	1	2/28/2023 4:32:46 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/27/2023 11:52:00 PM
Surr: BFB	100	37.7-212	%Rec	1	2/27/2023 11:52:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/27/2023 11:52:00 PM
Toluene	ND	0.048	mg/Kg	1	2/27/2023 11:52:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/27/2023 11:52:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	2/27/2023 11:52:00 PM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	2/27/2023 11:52:00 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 1:29:07 PM

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

Qualifiers:

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

Page 4 of 11

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-23 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/21/2023 9:30:00 AM

 Lab ID:
 2302A00-005
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	2/28/2023 4:43:26 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	2/28/2023 4:43:26 AM
Surr: DNOP	83.8	69-147	%Rec	1	2/28/2023 4:43:26 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	2/28/2023 12:12:00 AM
Surr: BFB	101	37.7-212	%Rec	1	2/28/2023 12:12:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.023	mg/Kg	1	2/28/2023 12:12:00 AM
Toluene	ND	0.046	mg/Kg	1	2/28/2023 12:12:00 AM
Ethylbenzene	ND	0.046	mg/Kg	1	2/28/2023 12:12:00 AM
Xylenes, Total	ND	0.092	mg/Kg	1	2/28/2023 12:12:00 AM
Surr: 4-Bromofluorobenzene	95.5	70-130	%Rec	1	2/28/2023 12:12:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 1:41:31 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 11

Date Reported: 3/6/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BH23-23 6'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/21/2023 9:40:00 AM

 Lab ID:
 2302A00-006
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/28/2023 4:54:06 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 4:54:06 AM
Surr: DNOP	91.5	69-147	%Rec	1	2/28/2023 4:54:06 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/28/2023 12:31:00 AM
Surr: BFB	98.2	37.7-212	%Rec	1	2/28/2023 12:31:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	2/28/2023 12:31:00 AM
Toluene	ND	0.050	mg/Kg	1	2/28/2023 12:31:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/28/2023 12:31:00 AM
Xylenes, Total	ND	0.10	mg/Kg	1	2/28/2023 12:31:00 AM
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	2/28/2023 12:31:00 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 1:53:57 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 6 of 11

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302A00**

Qual

RPDLimit

06-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: LCS-73413 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 73413 RunNo: 94937

Prep Date: 2/28/2023 Analysis Date: 2/28/2023 SeqNo: 3432174 Units: mg/Kg

 Analyte
 Result
 PQL
 SPK value
 SPK Ref Val
 %REC
 LowLimit
 HighLimit
 %RPD

 Chloride
 14
 1.5
 15.00
 0
 93.0
 90
 110

Qualifiers:

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

Page 7 of 11

Sample ID: LCS-73381

Hall Environmental Analysis Laboratory, Inc.

SampType: LCS

WO#: **2302A00 06-Mar-23**

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

		71	-						9	
Client ID: LCSS	Batcl	n ID: 73	381	F	RunNo: 9	4894				
Prep Date: 2/24/2023	Analysis D	Date: 2/	27/2023	8	SeqNo: 3	430275	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	10	50.00	0	84.7	61.9	130			
Surr: DNOP	4.7		5.000		93.1	69	147			
Sample ID: MB-73381	Sampl	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: PBS	Batcl	n ID: 73 :	381	F	RunNo: 9	4894				
Prep Date: 2/24/2023	Analysis D	Date: 2/	27/2023	9	SeqNo: 3	430281	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.7	69	147			
Sample ID: 2302A00-001AMS	Sampl	уре: М\$	3	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BH23-21 8'	Batcl	n ID: 73 :	381	F	RunNo: 9	4894				
Prep Date: 2/24/2023	Analysis D	Date: 2/	28/2023	5	SeqNo: 3	431166	Units: mg/k	(g		
	D 11	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte	Result	ı QL								
Analyte Diesel Range Organics (DRO)	Result 38	9.0	45.13	0	84.0	54.2	135			

TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BH23-21 8'	Batch	1D: 73	381	F	RunNo: 9	4894				
Prep Date: 2/24/2023	Analysis D	ate: 2/	28/2023	5	SeqNo: 3	431167	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42	9.8	49.16	0	85.1	54.2	135	9.93	29.2	
Surr: DNOP	4.4		4.916		89.2	69	147	0	0	

Sample ID: MB-/34/4	Sampiype: MBLK	lestCode: EPA Method	8015M/D: Diesei Range Organics
Client ID: PBS	Batch ID: 73474	RunNo: 94965	
Prep Date: 3/2/2023	Analysis Date: 3/2/2023	SeqNo: 3434009	Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual
Surr: DNOP	8.4 10.00	84.0 69	147

Sample ID: LCS-73474	SampType: LCS	TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: LCSS	Batch ID: 73474	RunNo: 94965
Prep Date: 3/2/2023	Analysis Date: 3/2/2023	SeqNo: 3434010 Units: %Rec
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302A00 06-Mar-23**

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: LCS-73474 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73474 RunNo: 94965

Prep Date: 3/2/2023 Analysis Date: 3/2/2023 SeqNo: 3434010 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.5 5.000 90.1 69 147

Sample ID: MB-73456 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **PBS** Batch ID: **73456** RunNo: **94965**

Prep Date: 3/1/2023 Analysis Date: 3/2/2023 SeqNo: 3434451 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 11 10.00 113 69 147

Sample ID: LCS-73456 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73456 RunNo: 94965

Prep Date: 3/1/2023 Analysis Date: 3/2/2023 SeqNo: 3434452 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.0 5.000 100 69 147

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302A00**

06-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: Ics-73354	SampType: LCS TestCode: EPA Method				8015D: Gaso	line Rang	е			
Client ID: LCSS	Batch	1D: 73	354	F	RunNo: 94903					
Prep Date: 2/23/2023	Analysis Date: 2/27/2023			9	430672	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	72.3	137			
Surr: BFB	2200		1000		222	37.7	212			S
	SampType: MBLK TestCode: EPA Method									
Sample ID: mb-73354	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	line Rang	e	
Sample ID: mb-73354 Client ID: PBS	·	ype: ME			tCode: El RunNo: 9		8015D: Gaso	oline Rang	e	
·	·	n ID: 73 :	354	F		4903	8015D: Gaso	J	e	
Client ID: PBS	Batch	n ID: 73 :	354 27/2023	F	RunNo: 9	4903		J	e RPDLimit	Qual
Client ID: PBS Prep Date: 2/23/2023	Batch Analysis D	n ID: 73 ; vate: 2/	354 27/2023	F	RunNo: 9 SeqNo: 3	4903 430673	Units: mg/K	(g		Qual

Sample ID: 2302A00-001ams	SampT	уре: М\$	3	Test	TestCode: EPA Method 8015D: Gasoline Range					
Client ID: BH23-21 8'	Batch	Batch ID: 73354 RunNo: 94903								
Prep Date: 2/23/2023	Analysis D	ate: 2/	27/2023	SeqNo: 3430689 Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.7	23.67	0	85.5	70	130			
Surr: BFB	2000		947.0		207	37.7	212			

Sample ID: 2302A00-001amsd	SampType: MSD TestCode: EPA Method 8015D: Gasoline Range									
Client ID: BH23-21 8'	Batch	ID: 73	354	R	RunNo: 94	4903				
Prep Date: 2/23/2023	Analysis D	ate: 2/	/27/2023 SeqNo: 3430690 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	4.7	23.67	0	95.4	70	130	11.0	20	
Surr: BFB	2100		947.0		227	37.7	212	0	0	S

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302A00 06-Mar-23**

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: Ics-73354	Samp1	ype: LC	S	Tes						
Client ID: LCSS	Batcl	h ID: 73 3	354	F	RunNo: 9	4903				
Prep Date: 2/23/2023	Analysis D	Date: 2/ 2	27/2023	8	SeqNo: 3	430697	Units: mg/K			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: mb-73354	SampT	SampType: MBLK TestCode: EPA Me				PA Method	Method 8021B: Volatiles					
Client ID: PBS	Batch	n ID: 73	354	RunNo: 94903								
Prep Date: 2/23/2023	Analysis D	oate: 2/	27/2023	S	SeqNo: 3	430698	Units: mg/K					
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: 2302A00-002ams	SampType: MS TestCode: EPA Method 8021B: Volatiles									
Client ID: BH23-21 9'	Batch	Batch ID: 73354 RunNo: 94903								
Prep Date: 2/23/2023	Analysis D	ate: 2/ 2	2/27/2023 SeqNo: 3430717 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.023	0.9398	0	97.8	68.8	120			
Toluene	0.91	0.047	0.9398	0	96.9	73.6	124			
Ethylbenzene	0.94	0.047	0.9398	0	99.6	72.7	129			
Xylenes, Total	2.8	0.094	2.820	0	98.9	75.7	126			
Surr: 4-Bromofluorobenzene	0.88		0.9398		93.3	70	130			

Sample ID: 2302A00-002amsd	SampType: MSD TestCode: EPA Method 8021B: Volatiles									
Client ID: BH23-21 9'	Batch ID: 73354 RunNo: 94903									
Prep Date: 2/23/2023	Analysis D	ate: 2/ 2	27/2023	8	SeqNo: 3	430718	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.023	0.9381	0	94.6	68.8	120	3.45	20	
Toluene	0.88	0.047	0.9381	0	93.7	73.6	124	3.54	20	
Ethylbenzene	0.89	0.047	0.9381	0	95.2	72.7	129	4.77	20	
Xylenes, Total	2.7	0.094	2.814	0	95.5	75.7	126	3.69	20	
Surr: 4-Bromofluorobenzene	0.90		0.9381		95.9	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

01: 11:								
Client Name:	Vertex Res Services, Ir		Work	Order Numbe	er: 2302A00		RcptNo	: 1
Received By:	Tracy Cas	arrubias	2/23/20	23 7:30:00 A	М			
Completed By:	Sean Livir	ngston	2/23/20	23 7:54:17 A	М	5	not	
Reviewed By:	KPG1	22	3.23	>				
Chain of Cust	ody							
1. Is Chain of Cu	stody comp	lete?			Yes 🗹	No 🗌	Not Present	
2. How was the s	sample deliv	ered?			Courier			
Log In								
3. Was an attem	pt made to c	ool the samp	les?		Yes 🗹	No 🗌	NA 🗆	
							_	
4. Were all samp	les received	at a tempera	ture of >0° C	to 6.0°C	Yes 🗹	No 🗌	na 🗆	
5. Sample(s) in p	roper contai	iner(s)?			Yes 🗹	No 🗌		
						(
6. Sufficient samp			, ,		Yes 🗹	No 🗌		
7. Are samples (e			operly preserv	ed?	Yes 🗹	No ∐	🗖	
8. Was preservat	ive added to	bottles?			Yes 📙	No 🗹	NA 🗌	
9. Received at lea	ast 1 vial wit	h headspace	<1/4" for AQ \	/OA?	Yes 🗌	No 🗌	NA 🗹	
0. Were any sam	ple containe	ers received b	oroken?		Yes 🗌	No 🗹	# of preserved	
4 -					<u></u>	🗖	bottles checked	
1. Does paperwork (Note discrepa			ď		Yes 🗹	No 🗌	for pH:	r >12 unless note
2. Are matrices of			•		Yes 🗹	No 🗌	Adjusted?	
3. Is it clear what	analyses we	ere requested	1?		Yes 🗸	No 🗌		
4. Were all holdin	g times able	to be met?			Yes 🗹	No 🗌	Checked by:	Ses 2/23/0
(If no, notify cu	stomer for a	uthorization.)						····
pecial Handli	ng (if app	olicable)						
15. Was client not	ified of all di	iscrepancies ¹	with this order	?	Yes 🗌	No 🗌	NA 🗹	
Person i	Notified:			Date:				
By Who	m:		-	Via:	eMail] Phone 🗌 Fax	In Person	
Regardii	ng:							
Client In	structions:							
16. Additional ren	narks:		-					
17. <u>Cooler Inforr</u>	nation							
Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By	in the state of th	
	5.3		-1				4	

Page 452 of 624 **ANALYSIS LABORATORY** HALL ENVIRONMENTAL Rush 5 Day Turn-Around Time: Receive Chaffi-342 Clistety Record (direct bill to Devon)

Vertex

Mailing Address:

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

North Pure Gold 8 Federal #006, West

Project #:

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

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Phone #:			22E-02816-07							₹	alvsi	s Re	Analysis Request	4			I	
email or Fax#:			Project Manager:	Jer:			((H	L		* (-	(1		H	H	L	
QA/QC Package:	ii		Kent Stallings			021	NBC	8,8	SI		 DS '¹		uəs			_		
☐ Standard		☐ Level 4 (Full Validation)	kstallings@vertex.	rtex.ca		8) s	1/0	LCE	NIS		ьОф	-	dA∖ĵ					
Accreditation:	□ Az C	☐ Az Compliance	Sampler:	L.Pullman		MB.	DB.				O ^{5,}		uəs:					
□ NELAC	□ Other	er		▼ Yes	O No marks	L /	/ O				N	(A						
☐ EDD (Type)			# of Coolers:	,		3E	Яอ				O ³	<u>-</u> Λ						
			Cooler Temp(including CF):	ncluding CF): 5.	1-0-1-53	ΙΤΜ) Q S											
Date Time	Matrix	Sample Name	Container F	Preservative Type	HEAL No.	\ X∃T8	108:H9	1081 Pe	M) 80 VA sHA	8 AAD	18 ,7 ,K	260 (Se	loO lsto		-			
02/21/23 8:15	Soil	BH22-21 8'	1, 4oz jar		8	×	L ×	1								-	_	L
02/21/23 8:25	Soil	BH22-21 9'	1, 4oz jar		200	×	×		_		 ×	-			-	+-		
02/21/23 8:50	Soil	BH22-22 6'	1, 4oz jar		200	×	×	-			(×	-			-	-	\perp	
02/21/23 9:00	Soil	BH22-22 8'	1, 4oz jar		700	×	×	-			 ×	-			+	+	-	
02/21/23 9:30	Soil	BH22-23 4'	1, 4oz jar		V 03	×	×	-			×	_			-	-	_	\Box
02/21/23 9:40	Soil	BH22-23 6'	1, 4oz jar		200	×	×				×	-	_		-	-	_	
							-			-	-	-			-	-	\perp	T
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Date: Time:	Relinquished by:	by:	Received by:	Via:		Rem	arks:	'	Remarks:	;					-			
Date:	Relinguished by				23 700	S. A. S.	xt billi Stalli	to Di	Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Renort	Dale	Woo Pr	dall	anora					
2000	_	,	Received by:	VIa: Con-	Date Time						5	5	2					
75 100	3		1	/	12/23/23													

If necessary, samples submitted to Hall Environmental may be-subcontra



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

February 17, 2021

Monica Peppin Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX

RE: North Pure Gold 8 Fed 6 OrderNo.: 2102438

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 12 sample(s) on 2/9/2021 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-01 4.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:00:00 AM

 Lab ID:
 2102438-001
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/10/2021 11:29:07 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/10/2021 11:29:07 PM
Surr: DNOP	115	70-130	%Rec	1	2/10/2021 11:29:07 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/15/2021 5:46:00 PM
Surr: BFB	87.5	75.3-105	%Rec	1	2/15/2021 5:46:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/15/2021 5:46:00 PM
Toluene	ND	0.048	mg/Kg	1	2/15/2021 5:46:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/15/2021 5:46:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	2/15/2021 5:46:00 PM
Surr: 4-Bromofluorobenzene	87.1	80-120	%Rec	1	2/15/2021 5:46:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	67	60	mg/Kg	20	2/12/2021 10:51:34 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-04 2'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:05:00 AM

 Lab ID:
 2102438-002
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/10/2021 11:38:42 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/10/2021 11:38:42 PM
Surr: DNOP	158	70-130	S	%Rec	1	2/10/2021 11:38:42 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2021 6:09:00 PM
Surr: BFB	85.8	75.3-105		%Rec	1	2/15/2021 6:09:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/15/2021 6:09:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2021 6:09:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2021 6:09:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2021 6:09:00 PM
Surr: 4-Bromofluorobenzene	83.5	80-120		%Rec	1	2/15/2021 6:09:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	380	60		mg/Kg	20	2/12/2021 11:03:59 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-05 2.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:10:00 AM

 Lab ID:
 2102438-003
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/10/2021 11:48:18 PM
Motor Oil Range Organics (MRO)	ND	46		mg/Kg	1	2/10/2021 11:48:18 PM
Surr: DNOP	168	70-130	S	%Rec	1	2/10/2021 11:48:18 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2021 6:33:00 PM
Surr: BFB	89.5	75.3-105		%Rec	1	2/15/2021 6:33:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/15/2021 6:33:00 PM
Toluene	ND	0.050		mg/Kg	1	2/15/2021 6:33:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2021 6:33:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2021 6:33:00 PM
Surr: 4-Bromofluorobenzene	86.8	80-120		%Rec	1	2/15/2021 6:33:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	200	60		mg/Kg	20	2/12/2021 11:16:23 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-06 3'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:15:00 AM

 Lab ID:
 2102438-004
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/10/2021 11:57:57 PM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/10/2021 11:57:57 PM
Surr: DNOP	145	70-130	S	%Rec	1	2/10/2021 11:57:57 PM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2021 6:57:00 PM
Surr: BFB	89.3	75.3-105		%Rec	1	2/15/2021 6:57:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/15/2021 6:57:00 PM
Toluene	ND	0.048		mg/Kg	1	2/15/2021 6:57:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2021 6:57:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2021 6:57:00 PM
Surr: 4-Bromofluorobenzene	87.4	80-120		%Rec	1	2/15/2021 6:57:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	190	59		mg/Kg	20	2/12/2021 11:28:48 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-07 2.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:20:00 AM

 Lab ID:
 2102438-005
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	2/11/2021 12:07:44 AM
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	2/11/2021 12:07:44 AM
Surr: DNOP	131	70-130	S	%Rec	1	2/11/2021 12:07:44 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2021 7:20:00 PM
Surr: BFB	86.0	75.3-105		%Rec	1	2/15/2021 7:20:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/15/2021 7:20:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2021 7:20:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2021 7:20:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2021 7:20:00 PM
Surr: 4-Bromofluorobenzene	85.0	80-120		%Rec	1	2/15/2021 7:20:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	190	60		mg/Kg	20	2/12/2021 11:29:03 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS21-01 0-4.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:40:00 AM

 Lab ID:
 2102438-006
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	8.7		mg/Kg	1	2/11/2021 12:17:30 AM
Motor Oil Range Organics (MRO)	ND	43		mg/Kg	1	2/11/2021 12:17:30 AM
Surr: DNOP	145	70-130	S	%Rec	1	2/11/2021 12:17:30 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2021 7:43:00 PM
Surr: BFB	86.6	75.3-105		%Rec	1	2/15/2021 7:43:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/15/2021 7:43:00 PM
Toluene	ND	0.050		mg/Kg	1	2/15/2021 7:43:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2021 7:43:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2021 7:43:00 PM
Surr: 4-Bromofluorobenzene	83.5	80-120		%Rec	1	2/15/2021 7:43:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	ND	60		mg/Kg	20	2/12/2021 12:06:16 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS21-02 0-3'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:45:00 AM

 Lab ID:
 2102438-007
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/11/2021 12:27:15 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/11/2021 12:27:15 AM
Surr: DNOP	148	70-130	S	%Rec	1	2/11/2021 12:27:15 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2021 8:07:00 PM
Surr: BFB	88.4	75.3-105		%Rec	1	2/15/2021 8:07:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/15/2021 8:07:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2021 8:07:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2021 8:07:00 PM
Xylenes, Total	ND	0.098		mg/Kg	1	2/15/2021 8:07:00 PM
Surr: 4-Bromofluorobenzene	85.9	80-120		%Rec	1	2/15/2021 8:07:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	230	60		mg/Kg	20	2/12/2021 12:18:41 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS21-03 0-3'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:50:00 AM

 Lab ID:
 2102438-008
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: mb
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/11/2021 12:36:58 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/11/2021 12:36:58 AM
Surr: DNOP	125	70-130	%Rec	1	2/11/2021 12:36:58 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/15/2021 9:17:00 PM
Surr: BFB	87.2	75.3-105	%Rec	1	2/15/2021 9:17:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	2/15/2021 9:17:00 PM
Toluene	ND	0.050	mg/Kg	1	2/15/2021 9:17:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/15/2021 9:17:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/15/2021 9:17:00 PM
Surr: 4-Bromofluorobenzene	85.0	80-120	%Rec	1	2/15/2021 9:17:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	99	60	mg/Kg	20	2/12/2021 12:31:06 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS21-05 0-2'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 11:55:00 AM

 Lab ID:
 2102438-009
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	2/11/2021 12:46:39 AM
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	2/11/2021 12:46:39 AM
Surr: DNOP	136	70-130	S	%Rec	1	2/11/2021 12:46:39 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2021 9:41:00 PM
Surr: BFB	87.0	75.3-105		%Rec	1	2/15/2021 9:41:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/15/2021 9:41:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2021 9:41:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2021 9:41:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2021 9:41:00 PM
Surr: 4-Bromofluorobenzene	85.2	80-120		%Rec	1	2/15/2021 9:41:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	94	60		mg/Kg	20	2/12/2021 12:43:30 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS21-06 0-2.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 12:00:00 PM

 Lab ID:
 2102438-010
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst: mb
Diesel Range Organics (DRO)	ND	8.9		mg/Kg	1	2/11/2021 12:56:18 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/11/2021 12:56:18 AM
Surr: DNOP	147	70-130	S	%Rec	1	2/11/2021 12:56:18 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	2/15/2021 10:04:00 PM
Surr: BFB	88.2	75.3-105		%Rec	1	2/15/2021 10:04:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/15/2021 10:04:00 PM
Toluene	ND	0.050		mg/Kg	1	2/15/2021 10:04:00 PM
Ethylbenzene	ND	0.050		mg/Kg	1	2/15/2021 10:04:00 PM
Xylenes, Total	ND	0.10		mg/Kg	1	2/15/2021 10:04:00 PM
Surr: 4-Bromofluorobenzene	86.2	80-120		%Rec	1	2/15/2021 10:04:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	200	60		mg/Kg	20	2/12/2021 12:55:54 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS21-07 0-3'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 12:05:00 PM

 Lab ID:
 2102438-011
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: mb
Diesel Range Organics (DRO)	ND	9.1		mg/Kg	1	2/11/2021 1:05:57 AM
Motor Oil Range Organics (MRO)	ND	45		mg/Kg	1	2/11/2021 1:05:57 AM
Surr: DNOP	139	70-130	S	%Rec	1	2/11/2021 1:05:57 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	2/15/2021 10:28:00 PM
Surr: BFB	88.0	75.3-105		%Rec	1	2/15/2021 10:28:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.025		mg/Kg	1	2/15/2021 10:28:00 PM
Toluene	ND	0.049		mg/Kg	1	2/15/2021 10:28:00 PM
Ethylbenzene	ND	0.049		mg/Kg	1	2/15/2021 10:28:00 PM
Xylenes, Total	ND	0.099		mg/Kg	1	2/15/2021 10:28:00 PM
Surr: 4-Bromofluorobenzene	84.6	80-120		%Rec	1	2/15/2021 10:28:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	150	60		mg/Kg	20	2/12/2021 1:08:19 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS21-08 0-3'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 12:10:00 PM

 Lab ID:
 2102438-012
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS				Analyst: mb		
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	2/11/2021 1:15:34 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	2/11/2021 1:15:34 AM
Surr: DNOP	142	70-130	S	%Rec	1	2/11/2021 1:15:34 AM
EPA METHOD 8015D: GASOLINE RANGE						Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	2/15/2021 10:51:00 PM
Surr: BFB	88.1	75.3-105		%Rec	1	2/15/2021 10:51:00 PM
EPA METHOD 8021B: VOLATILES						Analyst: CCM
Benzene	ND	0.024		mg/Kg	1	2/15/2021 10:51:00 PM
Toluene	ND	0.048		mg/Kg	1	2/15/2021 10:51:00 PM
Ethylbenzene	ND	0.048		mg/Kg	1	2/15/2021 10:51:00 PM
Xylenes, Total	ND	0.097		mg/Kg	1	2/15/2021 10:51:00 PM
Surr: 4-Bromofluorobenzene	86.4	80-120		%Rec	1	2/15/2021 10:51:00 PM
EPA METHOD 300.0: ANIONS						Analyst: VP
Chloride	210	60		mg/Kg	20	2/12/2021 1:20:44 PM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

2102438 17-Feb-21

WO#:

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-58082 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58082 RunNo: 75256

Prep Date: 2/12/2021 Analysis Date: 2/12/2021 SegNo: 2658946 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58082 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58082 RunNo: 75256

Prep Date: 2/12/2021 Analysis Date: 2/12/2021 SeqNo: 2658948 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.6 90 110

Sample ID: MB-58073 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58073 RunNo: 75256

Prep Date: 2/11/2021 Analysis Date: 2/12/2021 SeqNo: 2658987 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58073 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58073 RunNo: 75256

Prep Date: 2/11/2021 Analysis Date: 2/12/2021 SeqNo: 2658988 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.3 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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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

February 17, 2021

Monica Peppin Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX

RE: North Pure Gold 8 Fed 6 OrderNo.: 2102440

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 2/9/2021 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SS21-02 5.5'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 2:50:00 PM

 Lab ID:
 2102440-001
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS					Analyst: mb
Diesel Range Organics (DRO)	17	9.6	mg/Kg	1	2/11/2021 1:25:10 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/11/2021 1:25:10 AM
Surr: DNOP	121	70-130	%Rec	1	2/11/2021 1:25:10 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/15/2021 11:14:00 PM
Surr: BFB	86.1	75.3-105	%Rec	1	2/15/2021 11:14:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	2/15/2021 11:14:00 PM
Toluene	ND	0.050	mg/Kg	1	2/15/2021 11:14:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/15/2021 11:14:00 PM
Xylenes, Total	ND	0.10	mg/Kg	1	2/15/2021 11:14:00 PM
Surr: 4-Bromofluorobenzene	84.6	80-120	%Rec	1	2/15/2021 11:14:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	8200	300	mg/Kg	100	2/14/2021 7:20:20 PM

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

Qualifiers:

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

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

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Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: SS21-03 4'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 2:55:00 PM

 Lab ID:
 2102440-002
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: TOM
Diesel Range Organics (DRO)	770	42	mg/Kg	5	2/11/2021 4:09:56 PM
Motor Oil Range Organics (MRO)	460	210	mg/Kg	5	2/11/2021 4:09:56 PM
Surr: DNOP	113	70-130	%Rec	5	2/11/2021 4:09:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	24	mg/Kg	5	2/15/2021 11:38:00 PM
Surr: BFB	104	75.3-105	%Rec	5	2/15/2021 11:38:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.12	mg/Kg	5	2/15/2021 11:38:00 PM
Toluene	ND	0.24	mg/Kg	5	2/15/2021 11:38:00 PM
Ethylbenzene	ND	0.24	mg/Kg	5	2/15/2021 11:38:00 PM
Xylenes, Total	ND	0.49	mg/Kg	5	2/15/2021 11:38:00 PM
Surr: 4-Bromofluorobenzene	90.3	80-120	%Rec	5	2/15/2021 11:38:00 PM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	2300	60	mg/Kg	20	2/12/2021 1:45:33 PM

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

Qualifiers:

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

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

Page 2 of 7

Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: WS21-04 0-3'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 3:10:00 PM

 Lab ID:
 2102440-003
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: mb
Diesel Range Organics (DRO)	110	9.8	mg/Kg	1	2/10/2021 9:05:29 PM
Motor Oil Range Organics (MRO)	110	49	mg/Kg	1	2/10/2021 9:05:29 PM
Surr: DNOP	114	70-130	%Rec	1	2/10/2021 9:05:29 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/16/2021 12:01:00 AM
Surr: BFB	88.4	75.3-105	%Rec	1	2/16/2021 12:01:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	2/16/2021 12:01:00 AM
Toluene	ND	0.049	mg/Kg	1	2/16/2021 12:01:00 AM
Ethylbenzene	ND	0.049	mg/Kg	1	2/16/2021 12:01:00 AM
Xylenes, Total	ND	0.098	mg/Kg	1	2/16/2021 12:01:00 AM
Surr: 4-Bromofluorobenzene	85.0	80-120	%Rec	1	2/16/2021 12:01:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	350	60	mg/Kg	20	2/12/2021 1:57:57 PM

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

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2102440** *17-Feb-21*

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-58082 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58082 RunNo: 75256

Prep Date: 2/12/2021 Analysis Date: 2/12/2021 SeqNo: 2658946 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58082 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58082 RunNo: 75256

Prep Date: 2/12/2021 Analysis Date: 2/12/2021 SeqNo: 2658948 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.6 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 7

Hall Environmental Analysis Laboratory, Inc.

17-Feb-21

S

2102440

WO#:

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-58022 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58022 RunNo: 75192

Prep Date: 2/10/2021 Analysis Date: 2/10/2021 SeqNo: 2654980 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 9.6 10.00 95.9 70 130

Sample ID: LCS-58022 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58022 RunNo: 75192

Prep Date: 2/10/2021 Analysis Date: 2/10/2021 SeqNo: 2654982 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.7 5.000 94.6 70 130

Sample ID: MB-58012 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics Client ID: PBS Batch ID: 58012 RunNo: 75192 Prep Date: 2/9/2021 Analysis Date: 2/10/2021 SeqNo: 2655611 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

131

70

130

Sample ID: LCS-58012 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58012 RunNo: 75192

13

Prep Date: 2/9/2021 Analysis Date: 2/10/2021 SeqNo: 2655613 Units: mg/Kg

10.00

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 68 10 50.00 0 135 68.9 141

Surr: DNOP 6.8 5.000 135 68.9 141 S

Qualifiers:

Surr: DNOP

* 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 Quanitative 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 5 of 7

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102440**

17-Feb-21

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: LCS-58010 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58010 RunNo: 75299

Prep Date: 2/9/2021 Analysis Date: 2/15/2021 SeqNo: 2661377 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 99.2
 80
 120

 Surr: BFB
 990
 1000
 98.7
 75.3
 105

Sample ID: MB-58010 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 58010 RunNo: 75299

Prep Date: 2/9/2021 Analysis Date: 2/15/2021 SeqNo: 2661378 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 890 1000 88.6 75.3 105

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2102440** *17-Feb-21*

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: LCS-58010	Sample ID: LCS-58010 SampType: LCS				TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	Batch ID: 58010			RunNo: 75299						
Prep Date: 2/9/2021	Analysis D	Date: 2/	15/2021	8	SeqNo: 2	661404	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.89	0.025	1.000	0	88.5	80	120				
Toluene	0.87	0.050	1.000	0	87.4	80	120				
Ethylbenzene	0.86	0.050	1.000	0	86.5	80	120				
Xylenes, Total	2.6	0.10	3.000	0	86.9	80	120				
Surr: 4-Bromofluorobenzene	0.86		1.000		86.4	80	120				

Sample ID: MB-58010	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Client ID: PBS Batch ID: 58010				RunNo: 75299					
Prep Date: 2/9/2021	Analysis D	Date: 2/	15/2021	\$	SeqNo: 2	661405	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	80	120			

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 Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: Devon Energy	Work Order Nun	nber: 2102440		RcptNo: 1	
Received By: Desiree Domir	nguez 2/9/2021 7:55:00 /	AM	1		
Completed By: Sean Livingsto	on 2/9/2021 9:41:11 /	AM	5. /		
Reviewed By: ENH	15195)rU/	701-	
Chain of Custody					
1. Is Chain of Custody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the sample delivered	?	Courier			
LogIn					
Log In 3. Was an attempt made to cool to	he samples?	Yes 🔽	No 🗌	NA 🗆	
4. Were all samples received at a	temperature of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆	
5. Sample(s) in proper container(s	;)?	Yes 🗸	No 🗌		
6. Sufficient sample volume for ind	licated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA and C	ONG) properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to bottl	es?	Yes	No 🔽	NA 🗆	
9. Received at least 1 vial with hea	dspace <1/4" for AQ VOA?	Yes	No 🗆	NA 🗹	
10. Were any sample containers re	ceived broken?	Yes	No 🗸	# of preserved bottles checked	7/9/21
 Does paperwork match bottle lal (Note discrepancies on chain of 		Yes 🗸	No 🗆	for pH:	2 unless noted)
2. Are matrices correctly identified	on Chain of Custody?	Yes 🗸	No 🗆	Adjusted?	
[3] Is it clear what analyses were re		Yes 🗸	No 🗌		
 Were all holding times able to be (If no, notify customer for author 		Yes 🗸	No 🗆	Checked by:	
Special Handling (if applica	ble)				
15. Was client notified of all discrep	ancies with this order?	Yes	No 🗌	NA 🗸	
Person Notified:	Date	:	The Control of the Co		
By Whom: Regarding:	Via:	☐ eMail ☐ P	hone Fax	☐ In Person	
Client Instructions:				A rate to the same approximation of the last to the same continue to the same in	
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C Co	ndition Seal Intact Seal No	Seal Date	Signed By		
1 3.5 Good	d				

RONMENTAL LABORATORY	37109		10.77 1 1										Page	470
HALL ENVIRONMENTAL ANALYSIS LABORATOR	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	*OS '*O	(1.4.1) (1.4.2) 1.82708 9.5209	504 50 510 o 110 o 103, 103,	estice Nethory 8 We 8 Me 3r, 1 VOA)	8081 PBB (N PPHs I RCRA Q; F, I S250 (%						IKSIC, Monice Peppin	
Turn-Around Time: 5 da → X Standard □ Rush Project Name:	North Pure Gold & Folb	20 F - 2014, -0, 7		11 to 14 19 7	ON I	Cooler Temp(including cF): 3,3+0,2 = 3,5(°C) \(\begin{array}{c} \eqric \text{3.5(°C)} \eqric \text{5.} \eqric \text{5.3.5(°C)} \eqric 5.3.5(°C)	Container Preservative HEAL No. Type and # Type	100 75,1	200	200			Repeived by: Via: Pate Time Remarks:	Received by: Via: Date Time
Chain-of-Custody Record	Mailing Address: Or C12	Phone #:	Fax#:	Accreditation: Az Compliance	/pe)		Date Time Matrix Sample Name	2.50 501/ 5521-03 5.51	2:55 5531.0	3:10 W521-04 0.3'			Date: Relinquished by:	Relinquished by:



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

February 17, 2021

Monica Peppin Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210 TEL: (505) 350-1336

FAX

RE: North Pure Gold 8 Fed 6 OrderNo.: 2102441

Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/9/2021 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,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/17/2021

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BH21-01 8'

 Project:
 North Pure Gold 8 Fed 6
 Collection Date: 2/5/2021 2:40:00 PM

 Lab ID:
 2102441-001
 Matrix: SOIL
 Received Date: 2/9/2021 7:55:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: mb
Diesel Range Organics (DRO)	150	9.1	mg/Kg	1	2/10/2021 3:03:14 PM
Motor Oil Range Organics (MRO)	160	45	mg/Kg	1	2/10/2021 3:03:14 PM
Surr: DNOP	119	70-130	%Rec	1	2/10/2021 3:03:14 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/16/2021 12:25:00 AM
Surr: BFB	85.8	75.3-105	%Rec	1	2/16/2021 12:25:00 AM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	2/16/2021 12:25:00 AM
Toluene	ND	0.050	mg/Kg	1	2/16/2021 12:25:00 AM
Ethylbenzene	ND	0.050	mg/Kg	1	2/16/2021 12:25:00 AM
Xylenes, Total	ND	0.099	mg/Kg	1	2/16/2021 12:25:00 AM
Surr: 4-Bromofluorobenzene	82.8	80-120	%Rec	1	2/16/2021 12:25:00 AM
EPA METHOD 300.0: ANIONS					Analyst: VP
Chloride	800	60	mg/Kg	20	2/12/2021 3:00:00 PM

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

Qualifiers:

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

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

Page 1 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102441**

17-Feb-21

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-58082 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58082 RunNo: 75256

Prep Date: 2/12/2021 Analysis Date: 2/12/2021 SeqNo: 2658946 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58082 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58082 RunNo: 75256

Prep Date: 2/12/2021 Analysis Date: 2/12/2021 SeqNo: 2658948 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 97.6 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 5

Hall Environmental Analysis Laboratory, Inc.

2102441 17-Feb-21

WO#:

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-58022 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58022 RunNo: 75192

Prep Date: **2/10/2021** Analysis Date: **2/10/2021** SeqNo: **2654980** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.6 10.00 95.9 70 130

Sample ID: LCS-58022 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58022 RunNo: 75192

Prep Date: 2/10/2021 Analysis Date: 2/10/2021 SeqNo: 2654982 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Diesel Range Organics (DRO)
 53
 10
 50.00
 0
 106
 68.9
 141

 Surr: DNOP
 4.7
 5.000
 94.6
 70
 130

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative 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 3 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102441** *17-Feb-21*

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: LCS-58010 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58010 RunNo: 75299

Prep Date: 2/9/2021 Analysis Date: 2/15/2021 SeqNo: 2661377 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.2 80 120

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 99.2
 80
 120

 Surr: BFB
 990
 1000
 98.7
 75.3
 105

Sample ID: MB-58010 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 58010 RunNo: 75299

Prep Date: 2/9/2021 Analysis Date: 2/15/2021 SeqNo: 2661378 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 890 1000 88.6 75.3 105

Qualifiers:

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

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

Page 4 of 5

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102441** *17-Feb-21*

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: LCS-58010	Sample ID: LCS-58010 SampType: LCS				TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	Batch ID: 58010			RunNo: 75299						
Prep Date: 2/9/2021	Analysis D	Date: 2/	15/2021	8	SeqNo: 2	661404	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.89	0.025	1.000	0	88.5	80	120				
Toluene	0.87	0.050	1.000	0	87.4	80	120				
Ethylbenzene	0.86	0.050	1.000	0	86.5	80	120				
Xylenes, Total	2.6	0.10	3.000	0	86.9	80	120				
Surr: 4-Bromofluorobenzene	0.86		1.000		86.4	80	120				

Sample ID: MB-58010	SampT	уре: МЕ	BLK	Tes						
Client ID: PBS	Client ID: PBS Batch ID: 58010				RunNo: 75299					
Prep Date: 2/9/2021	Analysis D	Date: 2/	15/2021	\$	SeqNo: 2	661405	Units: mg/k	ίg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	80	120			

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 Quanitative Limit

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

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Sample Log-In Check List

Client Name: **Devon Energy** Work Order Number: 2102441 RcptNo: 1 Received By: **Desiree Dominguez** 2/9/2021 7:55:00 AM Completed By: Sean Livingston 2/9/2021 9:49:44 AM 2/4/21 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes 🗸 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? No 🗌 Yes V NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No NA 🗌 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? No 🗌 8. Was preservative added to bottles? No 🗸 Yes NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No 🗌 NA V Yes 10. Were any sample containers received broken? No V # of preserved bottles checked 11. Does paperwork match bottle labels? Yes V No 🔲 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes V No 🗌 14. Were all holding times able to be met? No 🗌 Checked by: Yes 🗸 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By 3.5 Good

Hall Environmental Analysis Laboratory, Inc.

WO#: 2102438 17-Feb-21

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: MB-58022 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58022 RunNo: 75192

Prep Date: 2/10/2021 Analysis Date: 2/10/2021 SeqNo: 2654980 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: DNOP 9.6 10.00 95.9 70 130

Sample ID: LCS-58022 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58022 RunNo: 75192

Prep Date: 2/10/2021 Analysis Date: 2/10/2021 SeqNo: 2654982 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual Surr: DNOP 5.000 94.6 130

Sample ID: MB-58012 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58012 RunNo: 75192

Prep Date: 2/9/2021 Analysis Date: 2/10/2021 SeqNo: 2655611 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 13 10.00 131 70 130 S

Sample ID: LCS-58012 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58012 RunNo: 75192

Prep Date: 2/9/2021 Analysis Date: 2/10/2021 SeqNo: 2655613 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 68 10 50.00 0 135 68.9 141

Surr: DNOP 5.000 70 S 6.8 135 130

Qualifiers:

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

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2102438** *17-Feb-21*

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: LCS-58010 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58010 RunNo: 75299

Prep Date: 2/9/2021 Analysis Date: 2/15/2021 SeqNo: 2661377 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Gasoline Range Organics (GRO) 25 5.0 25.00 0 99.2 80 120

 Gasoline Range Organics (GRO)
 25
 5.0
 25.00
 0
 99.2
 80
 120

 Surr: BFB
 990
 1000
 98.7
 75.3
 105

Sample ID: MB-58010 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 58010 RunNo: 75299

Prep Date: 2/9/2021 Analysis Date: 2/15/2021 SeqNo: 2661378 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 890 1000 88.6 75.3 105

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 Quanitative 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 15 of 16

Hall Environmental Analysis Laboratory, Inc.

WO#: **2102438** *17-Feb-21*

Client: Devon Energy

Project: North Pure Gold 8 Fed 6

Sample ID: LCS-58010	Sample ID: LCS-58010 SampType: LCS					TestCode: EPA Method 8021B: Volatiles						
Client ID: LCSS	Batcl	h ID: 58 0	010	F	RunNo: 75299							
Prep Date: 2/9/2021	Analysis D	Date: 2/	15/2021	S	SeqNo: 2	661404	Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.89	0.025	1.000	0	88.5	80	120					
Toluene	0.87	0.050	1.000	0	87.4	80	120					
Ethylbenzene	0.86	0.050	1.000	0	86.5	80	120					
Xylenes, Total	2.6	0.10	3.000	0	86.9	80	120					
Surr: 4-Bromofluorobenzene	0.86		1.000		86.4	80	120					

Sample ID: MB-58010	Sample ID: MB-58010 SampType: MBLK					TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Client ID: PBS Batch ID: 58010				RunNo: 75299							
Prep Date: 2/9/2021 Analysis Date: 2/15/2021				9	SeqNo: 2661405 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	ND	0.025										
Toluene	ND	0.050										
Ethylbenzene	ND	0.050										
Xylenes, Total	ND	0.10										
Surr: 4-Bromofluorobenzene	0.87		1.000		86.8	80	120					

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 Quanitative Limit

- 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 16 of 16



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: **Devon Energy** Work Order Number: 2102438 RcptNo: 1 Received By: **Desiree Dominguez** 2/9/2021 7:55:00 AM Salgot Completed By: 2/9/2021 9:15:48 AM Sean Livingston 2/9/21 Reviewed By: Chain of Custody 1. Is Chain of Custody complete? Yes V No 🗌 Not Present 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No 🗌 NA 🗌 Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 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 V No 🗌 8. Was preservative added to bottles? Yes No V NA 🗌 9. Received at least 1 vial with headspace <1/4" for AQ VOA? Yes No | NA V Yes 10. Were any sample containers received broken? No V # of preserved bottles checked No 🗌 11. Does paperwork match bottle labels? Yes 🗸 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) 12. Are matrices correctly identified on Chain of Custody? Adjusted? Yes 🗸 No 🗌 13. Is it clear what analyses were requested? Yes 🗸 No 🗌 14. Were all holding times able to be met? Yes 🗸 No 🗌 Checked by: (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA V Person Notified: Date: By Whom: Via: eMail Phone Fax In Person Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Seal Date Signed By 3.5 Good

	Chain	Chain-of-Custody Record	Turn-Around T	d Time: 5, day	a de la companya de l					9	FINAMING	Received
Client:	len	000	A Standard	d 🗆 Rush	,			Z	YSI	SL	ANALYSIS LABORATOR	.>
			Project Nan	le:			>	ww.ha	www.hallenvironmental.com	menta	.com	
Mailin	Mailing Address: O	9:500 E.L	Porth	Pare Gol	Sold & Fed 6	4901	4901 Hawkins NE	IS NE	Albuqu	nerque	Albuquerque, NM 87109	3/8/.
						Tel	505-345-3975	5-3975	Fax	505-3	505-345-4107	2024
Phone #:	:#:		ADE-C	10-14/00	+			d	Analysis Request	Redu	est	12.
email	email or Fax#:		Project Manager:	ager:					[⊅] O		(tr	10:
QA/QC	QA/QC Package.	-	•	,		NR(SW	S '*C		rpseu	44 P
□ Sta	□ Standard	☐ Level 4 (Full Validation)	Monica	Peppin		/ O		IS0	Dd '		A\Ju	M
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	□ EDD (Type)		# of Coolers: 1	1:		4Đ)	g po) w.	
			Cooler Temp(including CF):		3,3 +0.2=3,5 (°C)	120	еџр				olifoi	
Date	Time	Matrix Sample Name	Container Type and #	Preservative Type	HEAL No.	/(美国18 08: 新可1 99 1808	EDB (M	AHS by	SS60 (V	S) 07S8	O lsto l	
25	11:00	1,100	Yoz	3		X			-			
	11:05	1 18521-04 3'			200	_		E				
	11:10	18831			003							
	11:15	1321-06 3			1000							
	11.20	18521-07 215'	, ,		500							
	11:40	W521-01	1,5%		200							
	11,45	· NS31-03 0.3'	3,		400							
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_	11.55	W531 -05 0-21	1 .		600							
	12:00		12,		010				1			
	12:05	W581-07	3,		110							
	13:10	W521 -060	-3,									
Sate:	ime:	Relinquished by:	Received by:	Via:	Jate Time	Remarks:	ij	May	Nonica	9	Peppin	Page
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Wal D	ARD	Mumanes		Courier	2/9/21 7:55	Wo#	#	28	20835914	7		9 of 6
	If necessary	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	subcontracted to other	accredited laboratories	s. This serves as notice of this	possibility. Any	sub-contra	cted data	will be clear	ly notate	d on the analytical report.	24



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

February 01, 2023

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

FAX

RE: North Pure Gold 8 Federal 006 West OrderNo.: 2301867

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 12 sample(s) on 1/24/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS21-04 0-3'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 9:00:00 AM

 Lab ID:
 2301867-001
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/26/2023 2:28:33 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/26/2023 2:28:33 PM
Surr: DNOP	104	69-147	%Rec	1	1/26/2023 2:28:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/31/2023 5:46:47 AM
Surr: BFB	99.2	37.7-212	%Rec	1	1/31/2023 5:46:47 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/31/2023 5:46:47 AM
Toluene	ND	0.049	mg/Kg	1	1/31/2023 5:46:47 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/31/2023 5:46:47 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/31/2023 5:46:47 AM
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	1/31/2023 5:46:47 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	99	60	mg/Kg	20	1/30/2023 2:14:32 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 17

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-09 0-8'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 9:30:00 AM

 Lab ID:
 2301867-002
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	1/26/2023 10:45:34 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/26/2023 10:45:34 PM
Surr: DNOP	134	69-147	%Rec	1	1/26/2023 10:45:34 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/31/2023 6:56:14 AM
Surr: BFB	100	37.7-212	%Rec	1	1/31/2023 6:56:14 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/31/2023 6:56:14 AM
Toluene	ND	0.046	mg/Kg	1	1/31/2023 6:56:14 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/31/2023 6:56:14 AM
Xylenes, Total	ND	0.092	mg/Kg	1	1/31/2023 6:56:14 AM
Surr: 4-Bromofluorobenzene	90.3	70-130	%Rec	1	1/31/2023 6:56:14 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	100	61	mg/Kg	20	1/29/2023 12:33:59 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 17

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-10 0-4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 10:00:00 AM

 Lab ID:
 2301867-003
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/26/2023 10:56:16 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/26/2023 10:56:16 PM
Surr: DNOP	109	69-147	%Rec	1	1/26/2023 10:56:16 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	1/31/2023 7:19:23 AM
Surr: BFB	99.9	37.7-212	%Rec	1	1/31/2023 7:19:23 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/31/2023 7:19:23 AM
Toluene	ND	0.047	mg/Kg	1	1/31/2023 7:19:23 AM
Ethylbenzene	ND	0.047	mg/Kg	1	1/31/2023 7:19:23 AM
Xylenes, Total	ND	0.093	mg/Kg	1	1/31/2023 7:19:23 AM
Surr: 4-Bromofluorobenzene	90.4	70-130	%Rec	1	1/31/2023 7:19:23 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/29/2023 12:46:19 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 17

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: WS23-11 3-4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 10:30:00 AM

 Lab ID:
 2301867-004
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/26/2023 11:07:00 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/26/2023 11:07:00 PM
Surr: DNOP	107	69-147	%Rec	1	1/26/2023 11:07:00 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/31/2023 7:42:34 AM
Surr: BFB	99.0	37.7-212	%Rec	1	1/31/2023 7:42:34 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/31/2023 7:42:34 AM
Toluene	ND	0.050	mg/Kg	1	1/31/2023 7:42:34 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/31/2023 7:42:34 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/31/2023 7:42:34 AM
Surr: 4-Bromofluorobenzene	91.0	70-130	%Rec	1	1/31/2023 7:42:34 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	110	60	mg/Kg	20	1/29/2023 12:58:41 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 17

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: WS23-12 3-8'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 11:00:00 AM

 Lab ID:
 2301867-005
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	1/26/2023 11:17:42 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	1/26/2023 11:17:42 PM
Surr: DNOP	121	69-147	%Rec	1	1/26/2023 11:17:42 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/31/2023 8:05:41 AM
Surr: BFB	97.8	37.7-212	%Rec	1	1/31/2023 8:05:41 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/31/2023 8:05:41 AM
Toluene	ND	0.046	mg/Kg	1	1/31/2023 8:05:41 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/31/2023 8:05:41 AM
Xylenes, Total	ND	0.092	mg/Kg	1	1/31/2023 8:05:41 AM
Surr: 4-Bromofluorobenzene	89.0	70-130	%Rec	1	1/31/2023 8:05:41 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	1/29/2023 1:11:01 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 5 of 17

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-09 5'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 11:30:00 AM

 Lab ID:
 2301867-006
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	ial Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/26/2023 11:28:22 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	1/26/2023 11:28:22 PM
Surr: DNOP	102	69-147	%Rec	1	1/26/2023 11:28:22 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	1/31/2023 8:28:52 AM
Surr: BFB	99.5	37.7-212	%Rec	1	1/31/2023 8:28:52 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/31/2023 8:28:52 AM
Toluene	ND	0.049	mg/Kg	1	1/31/2023 8:28:52 AM
Ethylbenzene	ND	0.049	mg/Kg	1	1/31/2023 8:28:52 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/31/2023 8:28:52 AM
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	1/31/2023 8:28:52 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	360	59	mg/Kg	20	1/29/2023 1:23:23 AM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-10 4.5'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 12:00:00 PM

 Lab ID:
 2301867-007
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	1/26/2023 11:39:02 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	1/26/2023 11:39:02 PM
Surr: DNOP	117	69-147	%Rec	1	1/26/2023 11:39:02 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/31/2023 8:51:58 AM
Surr: BFB	99.0	37.7-212	%Rec	1	1/31/2023 8:51:58 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/31/2023 8:51:58 AM
Toluene	ND	0.048	mg/Kg	1	1/31/2023 8:51:58 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/31/2023 8:51:58 AM
Xylenes, Total	ND	0.097	mg/Kg	1	1/31/2023 8:51:58 AM
Surr: 4-Bromofluorobenzene	90.2	70-130	%Rec	1	1/31/2023 8:51:58 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	200	61	mg/Kg	20	1/29/2023 2:00:25 AM

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

Qualifiers:

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

ple pH Not In Range Page 7 of 17

Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-11 4.5'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 12:30:00 AM

 Lab ID:
 2301867-008
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	1/26/2023 11:49:39 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	1/26/2023 11:49:39 PM
Surr: DNOP	120	69-147	%Rec	1	1/26/2023 11:49:39 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/31/2023 9:15:14 AM
Surr: BFB	99.2	37.7-212	%Rec	1	1/31/2023 9:15:14 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/31/2023 9:15:14 AM
Toluene	ND	0.050	mg/Kg	1	1/31/2023 9:15:14 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/31/2023 9:15:14 AM
Xylenes, Total	ND	0.10	mg/Kg	1	1/31/2023 9:15:14 AM
Surr: 4-Bromofluorobenzene	89.9	70-130	%Rec	1	1/31/2023 9:15:14 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	150	60	mg/Kg	20	1/29/2023 2:12:45 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-12 4'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 1:00:00 PM

 Lab ID:
 2301867-009
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	1/27/2023 12:00:18 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/27/2023 12:00:18 AM
Surr: DNOP	122	69-147	%Rec	1	1/27/2023 12:00:18 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	1/31/2023 9:38:32 AM
Surr: BFB	99.1	37.7-212	%Rec	1	1/31/2023 9:38:32 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.023	mg/Kg	1	1/31/2023 9:38:32 AM
Toluene	ND	0.046	mg/Kg	1	1/31/2023 9:38:32 AM
Ethylbenzene	ND	0.046	mg/Kg	1	1/31/2023 9:38:32 AM
Xylenes, Total	ND	0.093	mg/Kg	1	1/31/2023 9:38:32 AM
Surr: 4-Bromofluorobenzene	89.1	70-130	%Rec	1	1/31/2023 9:38:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	95	59	mg/Kg	20	1/29/2023 2:25:05 AM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-13 3'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 1:30:00 PM

 Lab ID:
 2301867-010
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	1/27/2023 12:10:55 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	1/27/2023 12:10:55 AM
Surr: DNOP	104	69-147	%Rec	1	1/27/2023 12:10:55 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	1/31/2023 10:48:40 AM
Surr: BFB	100	37.7-212	%Rec	1	1/31/2023 10:48:40 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	1/31/2023 10:48:40 AM
Toluene	ND	0.048	mg/Kg	1	1/31/2023 10:48:40 AM
Ethylbenzene	ND	0.048	mg/Kg	1	1/31/2023 10:48:40 AM
Xylenes, Total	ND	0.095	mg/Kg	1	1/31/2023 10:48:40 AM
Surr: 4-Bromofluorobenzene	90.1	70-130	%Rec	1	1/31/2023 10:48:40 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/29/2023 2:37:26 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-14 3'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 2:00:00 PM

 Lab ID:
 2301867-011
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	1/27/2023 12:21:30 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	1/27/2023 12:21:30 AM
Surr: DNOP	110	69-147	%Rec	1	1/27/2023 12:21:30 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/31/2023 11:12:10 AM
Surr: BFB	102	37.7-212	%Rec	1	1/31/2023 11:12:10 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/31/2023 11:12:10 AM
Toluene	ND	0.050	mg/Kg	1	1/31/2023 11:12:10 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/31/2023 11:12:10 AM
Xylenes, Total	ND	0.099	mg/Kg	1	1/31/2023 11:12:10 AM
Surr: 4-Bromofluorobenzene	91.8	70-130	%Rec	1	1/31/2023 11:12:10 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/29/2023 2:49:47 AM

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

Qualifiers:

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

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Date Reported: 2/1/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-15 3'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/20/2023 2:30:00 PM

 Lab ID:
 2301867-012
 Matrix: SOIL
 Received Date: 1/24/2023 1:40:00 PM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGAI			Analyst: DGH		
Diesel Range Organics (DRO)	ND	8.4	mg/Kg	1	1/27/2023 12:42:24 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	1/27/2023 12:42:24 AM
Surr: DNOP	105	69-147	%Rec	1	1/27/2023 12:42:24 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	1/31/2023 11:35:39 AM
Surr: BFB	101	37.7-212	%Rec	1	1/31/2023 11:35:39 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	1/31/2023 11:35:39 AM
Toluene	ND	0.050	mg/Kg	1	1/31/2023 11:35:39 AM
Ethylbenzene	ND	0.050	mg/Kg	1	1/31/2023 11:35:39 AM
Xylenes, Total	ND	0.10	mg/Kg	1	1/31/2023 11:35:39 AM
Surr: 4-Bromofluorobenzene	90.0	70-130	%Rec	1	1/31/2023 11:35:39 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	1/29/2023 3:02:07 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

2301867 01-Feb-23

WO#:

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: MB-72880 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72880 RunNo: 94262

Prep Date: 1/28/2023 Analysis Date: 1/28/2023 SeqNo: 3404697 Units: mq/Kq

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-72880 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72880 RunNo: 94262

Prep Date: 1/28/2023 Analysis Date: 1/28/2023 SeqNo: 3404698 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Sample ID: MB-72897 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72897 RunNo: 94284

Prep Date: 1/30/2023 Analysis Date: 1/30/2023 SeqNo: 3406221 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-72897 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72897 RunNo: 94284

Prep Date: 1/30/2023 Analysis Date: 1/30/2023 SeqNo: 3406222 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.9 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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301867**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Project: North Pul	re Gold 8 F	ederai	006 West								
Sample ID: MB-72814	SampT	уре: МІ	BLK	TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: PBS	Batch ID: 72814			RunNo: 94191							
Prep Date: 1/25/2023	Analysis Date: 1/26/2023			SeqNo: 3401999			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) Surr: DNOP	ND 9.8	50	10.00		97.6	69	147				
Suil. DNOF	9.0		10.00		97.0	09	147				
Sample ID: LCS-72814	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72814			RunNo: 94191							
Prep Date: 1/25/2023	Analysis Date: 1/26/2023			SeqNo: 3402000 Units: mg/Kg				(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	59	10	50.00	0	118	61.9	130				
Surr: DNOP	4.7		5.000		94.0	69	147				
Sample ID: MB-72830	SampT	уре: Мі	BLK	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics		
Client ID: PBS	Batch	ID: 72	830	F							
Prep Date: 1/25/2023	Analysis Da	ate: 1/	/26/2023	8	SeqNo: 3	402654	Units: %Re	С			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	10		10.00		100	69	147				
Sample ID: LCS-72830	SampType: LCS			TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: LCSS	Batch ID: 72830			F							
Prep Date: 1/25/2023	Analysis Da	ate: 1,	/26/2023	9	SeqNo: 34	402655	Units: %Re	С			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Surr: DNOP	4.5		5.000		90.4	69	147				
Sample ID: 2301867-002AMS	SampT	vne: MS		TestCode: EPA Method 8015M/D: Diesel Range Organics							
Client ID: WS23-09 0-8'	Batch ID: 72824			RunNo: 94207							
Prep Date: 1/25/2023	Analysis Date: 1/27/2023			SeqNo: 3403418 Units: mg/Kg							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	43	9.5	47.39	0	90.6	54.2	135				
Surr: DNOP	4.7		4.739		98.6	69	147				
Sample ID: 2301867-002AMSI) SampT	ype: M \$	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Range	e Organics		
Client ID: WS23-09 0-8'	Batch ID: 72824			RunNo: 94207							
OHOTE ID. 11023-03 0-0											
Prep Date: 1/25/2023	Analysis Da	ate: 1/	/27/2023	8	SeqNo: 3	403419	Units: mg/k	(g			
	Analysis Da	ate: 1/		SPK Ref Val	SeqNo: 3 4 %REC	403419 LowLimit	Units: mg/k HighLimit	(g %RPD	RPDLimit	Qual	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2301867 01-Feb-23

WO#:

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: 2301867-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: WS23-09 0-8' Batch ID: 72824 RunNo: 94207

Prep Date: 1/25/2023 Analysis Date: 1/27/2023 SeqNo: 3403419 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual Surr: DNOP 5.2 4.596 114 69 147 Λ Λ

Sample ID: LCS-72824 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 72824 RunNo: 94207

Prep Date: 1/25/2023 Analysis Date: 1/26/2023 SeqNo: 3403443 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) 48 10 50.00 0 96.6 61.9 130

Surr: DNOP 6.5 5.000 130 69 147

Sample ID: MB-72824 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 72824 RunNo: 94207

Prep Date: 1/25/2023 Analysis Date: 1/26/2023 SeqNo: 3403447 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 11 10.00 114 69 147

Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301867** *01-Feb-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: Ics-72809 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 72809 RunNo: 94272

Prep Date: 1/25/2023 Analysis Date: 1/31/2023 SeqNo: 3405391 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 0 113 72.3 137

 Gasoline Range Organics (GRO)
 28
 5.0
 25.00
 0
 113
 72.3
 137

 Surr: BFB
 1100
 1000
 111
 37.7
 212

Sample ID: mb-72809 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 72809 RunNo: 94272

Prep Date: 1/25/2023 Analysis Date: 1/31/2023 SeqNo: 3405393 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 1000 1000 100 37.7 212

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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301867**

01-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: LCS-72809	SampT	ype: LC	S	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSS	Batcl	n ID: 72 8	309	F	RunNo: 9	4272				
Prep Date: 1/25/2023	Analysis D	Date: 1/3	31/2023	8	SeqNo: 3	405429	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.025	1.000	0	90.6	80	120			
Toluene	0.91	0.050	1.000	0	91.4	80	120			
Ethylbenzene	0.89	0.050	1.000	0	89.2	80	120			
Xylenes, Total	2.7	0.10	3.000	0	89.0	80	120			
Surr: 4-Bromofluorobenzene	0.91		1.000		91.1	70	130			

Sample ID: mb-72809	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: PBS	Batcl	h ID: 72	809	F	RunNo: 9	4272				
Prep Date: 1/25/2023	Analysis D	Date: 1/	31/2023	8	SeqNo: 3	405431	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.91		1.000		91.0	70	130			

Sample ID: 2301867-001ams	SampT	ype: MS	;	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: WS21-04 0-3'	Batch	n ID: 72 8	309	F	RunNo: 94	4272				
Prep Date: 1/25/2023	Analysis D	ate: 1/3	31/2023	8	SeqNo: 3	405456	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9940	0	90.3	68.8	120			
Toluene	0.90	0.050	0.9940	0.01724	89.2	73.6	124			
Ethylbenzene	0.88	0.050	0.9940	0	88.5	72.7	129			
Xylenes, Total	2.6	0.099	2.982	0.02818	87.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.92		0.9940		92.1	70	130			

Sample ID: 2301867-001amsd	SampT	ype: MS	SD.	Tes	tCode: El	PA Method	8021B: Volat	tiles		
Client ID: WS21-04 0-3'	Batch	n ID: 72 8	309	F	RunNo: 94	4272				
Prep Date: 1/25/2023	Analysis D	oate: 1/3	31/2023	S	SeqNo: 3	405457	Units: mg/K	ζg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.89	0.025	0.9814	0	91.1	68.8	120	0.424	20	
Toluene	0.91	0.049	0.9814	0.01724	90.5	73.6	124	0.124	20	
Ethylbenzene	0.89	0.049	0.9814	0	90.9	72.7	129	1.30	20	
Xylenes, Total	2.7	0.098	2.944	0.02818	89.6	75.7	126	0.841	20	
Surr: 4-Bromofluorobenzene	0.90		0.9814		91.8	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

	Services, In	IC.			er: 230 1				tNo: 1
Received By:	Joseph Al	derette	1/24/20	23 1:40:00 P	М		J ⁴		
Completed By:	Desiree De	ominguez	1/24/20	23 2:16:49 P	М		TO		
Reviewed By:	Ser 1/2	4/23						•	
Chain of Cus	tody								
1. Is Chain of C	ustody compl	ete?			Yes		No 🗹	Not Present	
2. How was the	sample delive	ered?			Cour	<u>ier</u>			
<u>Log In</u>						_	_		
3. Was an atten	npt made to c	ool the samp	les?		Yes	V	No 🗆) na [
4. Were all sam	ples received	at a tempera	ture of >0° C	to 6.0°C	Yes	V	No 🗆	NA [
5. Sample(s) in	proper contain	ner(s)?			Yes	V	No 🗆]	
6. Sufficient sam	nple volume fo	or indicated te	est(s)?		Yes	V	No 🗌		
7. Are samples ((except VOA a	and ONG) pro	perly preserve	ed?	Yes	V	No 🗌		
8. Was preserva	itive added to	bottles?			Yes		No 🗹	NA [
9. Received at le	east 1 vial with	n headspace	<1/4" for AQ \	/OA?	Yes		No 🗌	NA 🛭	
10. Were any sar	nple containe	rs received b	roken?		Yes	Ш	No 🗹	# of preserved	
11. Does paperwo)		Yes	V	No 🗌	bottles checked for pH:	2 or >12 unless noted
12. Are matrices of	correctly ident	ified on Chai	n of Custody?		Yes	V	No 🗌	Adjusted?	
13. Is it clear wha	t analyses we	re requested	?		Yes	✓	No 🗌		11
14. Were all holdi	-				Yes	✓	No 🗌	Checked by	y: \$\int 1-24-
Special Handl									0
15. Was client no			vith this order	?	Yes		No 🗆	NA E	v
Person	Notified:			Date:		-		-	
By Who	om: [Via:	eМа	iil 🔲	Phone 🗌 Fa	x 🗌 In Person	
Regard	ing:								
Client I	nstructions:								
16. Additional re	marks:								
	nissing client in	nfo (on file) -	DAD 1/24/23						
17. Cooler Infor		On-4"	Continue	0. 111	0. 15		0: :=	0.1	
Cooler No	Temp °C	Condition Good	Seal Intact Not Present	Seal No Yogi	Seal Da	ite	Signed By		

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Rush 6 Day

Project Name: ★ Standard

(direct bill to Devon)

Mailing Address:

Vertex

Client:

Turn-Around Time:

Received CHSHI 384 2 CHSHOOL NACORD

ANALYSIS LABORATORY HALL ENVIRONMENTAL

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975

North Pure Gold 8 Federal #006, West

Project #:

Fax 505-345-4107

Phone #:	#			22E-02816-07	21			18			Ana	lysis	Analysis Request	st		
email	email or Fax#:			Project Manager:	ager:		()	(0			70		(40	hu		
QA/QC	QA/QC Package:			Kent Stallings	S		208			SN	S '7(neel		
☐ Standard	ndard		☐ Level 4 (Full Validation)	kstallings@vertex.ca	ertex.ca		s) s,			IIS0	PC		V/+C	-		
Accred	Accreditation:	□ Az C	☐ Az Compliance	Sampler:	L.Pullman		LMB			728	10°			1202		
□ NELAC	-AC	□ Other	er	On Ice:		ON [L /			10				11-1		
	EDD (Type)			# of Coolers;		769,	38.			018						
				Cooler Temp(including CF): ((including CF): (. 8	-6.2=1.6°c	TM			58 V				101116		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	7301867	BTEX /	`08:H9T 	EDB (W	id sHAq	В СКА 8 СГ.) F. В	V) 0928	S) 07S8	Jotal Co	 	
01/20/23	00:60	Soil	WS21-04 0-3'	1, 4oz jar		100 -	×	×) ×	_				
01/20/23	9:30	Soil	WS23-09 0-8'	1, 4oz jar		- 0DQ	×	×			×					
01/20/23	10:00	Soil	WS23-10 0-4'	1, 4oz jar		- 003	×	×			×					
01/20/23	10:30	Soil	WS23-11 3-4'	1, 4oz jar		- 00 v	×	×			×					
01/20/23	11:00	Soil	WS23-12 3-8'	1, 4oz jar		500	×	×			×					
01/20/23	11:30	Soil	BS23-09 5'	1, 4oz jar		900 -	×	×			×					
01/20/23	12:00	Soil	BS23-10 4.5'	1, 4oz jar		- 404	×	×			×					
01/20/23	12:30	Soil	BS23-11 4.5'	1, 4oz jar		- 008	×	×			×					
01/20/23	13:00	Soil	BS23-12 4'	1, 4oz jar		, 009	×	×			×					
01/20/23	13:30	Soil	BS23-13 3'	1, 4oz jar		010-	×	×			×					
01/20/23	14:00	Soil	BS23-14 3'	1, 4oz jar		110-	×	×			×					
01/20/23	14:30		BS23-15 3'	1, 4oz jar		210-	×	×			×					
Date:	Time:	Relinquist		Received by:	Via:	, Date Time	Remarks	arks:								
-3873	00,20	Salen Man	2	MAMMA	2	007 5153	Direc	t bill t	Direct bill to Devon, Dale Woodall	on, [Jale V	lood	II	7		
Date:	Time:	Relinquished by:		Received by:		⊢		stallin	∂\$(@\ 	erre	.ca 10		cc. kstallings@vertex.ca for rinal Kepon.	בו		
000	000 000	Cille	Culturary	Out.	Contract Contract	(-cy-cs /3:40										
	If a good on all					i	1			ı						

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



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

February 09, 2023

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

FAX:

RE: North Pure Gold 8 Federal 006 West OrderNo.: 2301A35

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 7 sample(s) on 1/27/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 2/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-16 2.5'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/25/2023 8:40:00 AM

 Lab ID:
 2301A35-001
 Matrix: SOIL
 Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/2/2023 2:58:53 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/2/2023 2:58:53 AM
Surr: DNOP	90.8	69-147	%Rec	1	2/2/2023 2:58:53 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/1/2023 8:07:55 PM
Surr: BFB	102	37.7-212	%Rec	1	2/1/2023 8:07:55 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/1/2023 8:07:55 PM
Toluene	ND	0.049	mg/Kg	1	2/1/2023 8:07:55 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/1/2023 8:07:55 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/1/2023 8:07:55 PM
Surr: 4-Bromofluorobenzene	90.7	70-130	%Rec	1	2/1/2023 8:07:55 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/2/2023 5:59:26 AM

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

Qualifiers:

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

Page 1 of 14

Date Reported: 2/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-17 2.5'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/25/2023 10:15:00 AM

 Lab ID:
 2301A35-002
 Matrix: SOIL
 Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/2/2023 5:37:25 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/2/2023 5:37:25 PM
Surr: DNOP	111	69-147	%Rec	1	2/2/2023 5:37:25 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	2/1/2023 5:58:00 PM
Surr: BFB	98.9	37.7-212	%Rec	1	2/1/2023 5:58:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/1/2023 5:58:00 PM
Toluene	ND	0.047	mg/Kg	1	2/1/2023 5:58:00 PM
Ethylbenzene	ND	0.047	mg/Kg	1	2/1/2023 5:58:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/1/2023 5:58:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	2/1/2023 5:58:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/2/2023 6:11:47 AM

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

Qualifiers:

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

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Date Reported: 2/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-18 2'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/25/2023 11:00:00 AM

 Lab ID:
 2301A35-003
 Matrix: SOIL
 Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/2/2023 6:09:13 PM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/2/2023 6:09:13 PM
Surr: DNOP	104	69-147	%Rec	1	2/2/2023 6:09:13 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/1/2023 6:58:00 PM
Surr: BFB	97.9	37.7-212	%Rec	1	2/1/2023 6:58:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	2/1/2023 6:58:00 PM
Toluene	ND	0.050	mg/Kg	1	2/1/2023 6:58:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/1/2023 6:58:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/1/2023 6:58:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	2/1/2023 6:58:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	2/2/2023 6:24:06 AM

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

Qualifiers:

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

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Date Reported: 2/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-19 2.5'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/25/2023 11:45:00 AM

 Lab ID:
 2301A35-004
 Matrix: SOIL
 Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/2/2023 6:19:54 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/2/2023 6:19:54 PM
Surr: DNOP	105	69-147	%Rec	1	2/2/2023 6:19:54 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/1/2023 7:57:00 PM
Surr: BFB	98.4	37.7-212	%Rec	1	2/1/2023 7:57:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	2/1/2023 7:57:00 PM
Toluene	ND	0.050	mg/Kg	1	2/1/2023 7:57:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/1/2023 7:57:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/1/2023 7:57:00 PM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	2/1/2023 7:57:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/2/2023 6:46:46 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-20 2.5'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/25/2023 12:55:00 PM

 Lab ID:
 2301A35-005
 Matrix: SOIL
 Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/2/2023 6:30:33 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/2/2023 6:30:33 PM
Surr: DNOP	124	69-147	%Rec	1	2/2/2023 6:30:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/1/2023 8:16:00 PM
Surr: BFB	98.3	37.7-212	%Rec	1	2/1/2023 8:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/1/2023 8:16:00 PM
Toluene	ND	0.048	mg/Kg	1	2/1/2023 8:16:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/1/2023 8:16:00 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/1/2023 8:16:00 PM
Surr: 4-Bromofluorobenzene	99.5	70-130	%Rec	1	2/1/2023 8:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/2/2023 6:59:06 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-21 2.5'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/25/2023 1:30:00 PM

 Lab ID:
 2301A35-006
 Matrix: SOIL
 Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	2/2/2023 6:41:10 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/2/2023 6:41:10 PM
Surr: DNOP	110	69-147	%Rec	1	2/2/2023 6:41:10 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/1/2023 8:36:00 PM
Surr: BFB	98.8	37.7-212	%Rec	1	2/1/2023 8:36:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.025	mg/Kg	1	2/1/2023 8:36:00 PM
Toluene	ND	0.050	mg/Kg	1	2/1/2023 8:36:00 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/1/2023 8:36:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/1/2023 8:36:00 PM
Surr: 4-Bromofluorobenzene	101	70-130	%Rec	1	2/1/2023 8:36:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/2/2023 7:11:26 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 2/9/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-22 3'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 1/25/2023 2:15:00 PM

 Lab ID:
 2301A35-007
 Matrix: SOIL
 Received Date: 1/27/2023 7:25:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/2/2023 6:51:46 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/2/2023 6:51:46 PM
Surr: DNOP	113	69-147	%Rec	1	2/2/2023 6:51:46 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/1/2023 8:56:00 PM
Surr: BFB	101	37.7-212	%Rec	1	2/1/2023 8:56:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/1/2023 8:56:00 PM
Toluene	ND	0.048	mg/Kg	1	2/1/2023 8:56:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/1/2023 8:56:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/1/2023 8:56:00 PM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	2/1/2023 8:56:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/2/2023 7:23:47 AM

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

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35 09-Feb-23

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 West

Sample ID: MB-72957 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 72957 RunNo: 94349

Prep Date: 2/1/2023 Analysis Date: 2/2/2023 SeqNo: 3408334 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Result

Chloride ND 1.5

Sample ID: LCS-72957 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 72957 RunNo: 94349

Prep Date: 2/1/2023 Analysis Date: 2/2/2023 SeqNo: 3408335 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte LowLimit HighLimit Qual

Chloride 15 15.00 97.7 110

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A35**

09-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Project: North Pu	re Gold 8 rede	erai 000 west							
Sample ID: LCS-72922	SampType:	LCS	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID:	72922	F	RunNo: 94	1350				
Prep Date: 1/31/2023	Analysis Date:	2/1/2023	5	SeqNo: 34	108369	Units: mg/K	g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10 50.00	0	85.5	61.9				
Surr: DNOP	5.4	5.000		108	69	147			
Sample ID: MB-72922	SampType:	MBLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID:	72922	RunNo: 94350						
Prep Date: 1/31/2023	Analysis Date:	2/1/2023	5	SeqNo: 34	108373	Units: mg/K	g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50		22.0	20	4.47			
Surr: DNOP	9.6	10.00		96.2	69	147			
Sample ID: LCS-72933	SampType:	LCS	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID:	72933	F	RunNo: 94	1358				
Prep Date: 2/1/2023	Analysis Date:	2/2/2023	9	SeqNo: 34	108806	Units: mg/K	g		
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	45	10 50.00	0	90.4	61.9	130			
Surr: DNOP	5.3	5.000		106	69	147			
Sample ID: MB-72933	SampType:	MBLK	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID:	72933	F	RunNo: 94	1358				
Prep Date: 2/1/2023	Analysis Date:	2/2/2023	S	SeqNo: 34	108811	Units: mg/K	g		
Analyte	Result PC	QL 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	10	10.00		103	69	147			
Sample ID: 2301A35-002AMS	SampType:	MS	Tes	stCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BS23-17 2.5'	Batch ID:	72933	RunNo: 94358						
Prep Date: 2/1/2023	Analysis Date:	2/2/2023	23 SeqNo: 3409636 Units: mg/Kg						
Analyte	Result PC	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	38	8.9 44.56	0	84.2	54.2	135			
Surr: DNOP	5.2	4.456		117	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A35**

Qual

09-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: 2301A35-002AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: BS23-17 2.5' Batch ID: 72933 RunNo: 94358

Prep Date: 2/1/2023 Analysis Date: 2/2/2023 SeqNo: 3409637 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Diesel Range Organics (DRO) 42 9.3 46.55 90.3 54.2 135 11.3 29.2 Surr: DNOP 5.4 4.655 115 69 147 0 0

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2301A35

09-Feb-23

Client:	Vertex Resources Services, Inc.
Project:	North Pure Gold 8 Federal 006 West

North Tur	c dold 6 l	cuciai	000 11 651							
Sample ID: LCS-72920	SampT	ype: LC	s	Tes	tCode: EP	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch	1D: 72 9	920	R	RunNo: 94	1333				
Prep Date: 1/31/2023	Analysis D	ate: 2/	1/2023	8	SeqNo: 34	107444	Units: mg/K	(g		
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	72.3	137			
Surr: BFB	1100		1000		113 37.7 212					
Sample ID: mb-72920	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	1D: 72 9	920	R	RunNo: 94333					
Prep Date: 1/31/2023	Analysis D	ate: 2/	1/2023	8	SeqNo: 34	107445	Units: mg/K	(g		
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		102	37.7	212			
Sample ID: Ics-72924	SampT	ype: LC	s	Tes	tCode: EP	PA Method	8015D: Gaso	line Range		
Client ID: LCSS	Batch	1D: 72 9	924	RunNo: 94327						
Prep Date: 1/31/2023	Analysis D	ate: 2/	1/2023	S	SeqNo: 34	107946	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	109	72.3	137			
Surr: BFB	1200		1000		116	37.7	212			
Sample ID: mb-72924	SampT	ype: ME	BLK	Tes	tCode: EP	PA Method	8015D: Gaso	line Range		
Client ID: PBS	Batch	1D: 72 9	924	R	RunNo: 94	1327				
Prep Date: 1/31/2023	Analysis D	ate: 2/	1/2023	S	SeqNo: 34	107948	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0	4000		405	07.7	040			
Surr: BFB	1000		1000		105	37.7	212			
Sample ID: 2301A35-002ams	SampT	ype: MS	3	Tes	tCode: EP	PA Method	8015D: Gaso	line Range		
Client ID: BS23-17 2.5'	Batch	1D: 72 9	924	R	RunNo: 94	1327				
Prep Date: 1/31/2023	Analysis D	ate: 2/	1/2023	8	SeqNo: 34	107950	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO) Surr: BFB	27	4.8	23.99	0	112	70	130			
	1100		959.7		113	37.7	212			
Sull. DFD										
Sample ID: 2301A35-002amsd	SampT	ype: MS	SD .	Tes	tCode: EP	PA Method	8015D: Gaso	line Range		
		ype: MS			tCode: EP		8015D: Gaso	line Range		
Sample ID: 2301A35-002amsd		n ID: 72 9	924	R		1327	8015D: Gaso Units: mg/K	•		

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A35 09-Feb-23**

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: 2301A35-002amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range
Client ID: BS23-17 2.5' Batch ID: 72924 RunNo: 94327

Prep Date: 1/31/2023 Analysis Date: 2/1/2023 SeqNo: 3407951 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 27 4.8 23.76 0 115 70 130 2.01 20 Surr: BFB 1200 950.6 122 37.7 212 0 0

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A35**

09-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: Ics-72920	SampT	Гуре: LC:	S	Tes	tCode: EF					
Client ID: LCSS	Batcl	h ID: 72 9)20	F	RunNo: 94	1333				
Prep Date: 1/31/2023	Analysis D	Date: 2/ 1	1/2023	5	SeqNo: 34	107456	Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.92	0.025	1.000	0	91.6	80	120			
Toluene	0.94	0.050	1.000	0	93.6	80	120			
Ethylbenzene	0.92	0.050	1.000	0	92.0	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.5	80	120			
Surr: 4-Bromofluorobenzene	0.94		1.000		94.1	70	130			

Sample ID: mb-72920	SampT	уре: МВ	BLK	Tes	tCode: EF	les				
Client ID: PBS	Batch	n ID: 72 9	920	F	RunNo: 94333					
Prep Date: 1/31/2023	Analysis D	Date: 2/ *	1/2023	SeqNo: 3407457			Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.93		1.000		93.4	70	130			

Sample ID: Ics-72924	Samp ⁻	Type: LC :	S	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batc	h ID: 72 9	924	F	RunNo: 94	1327						
Prep Date: 1/31/2023	Analysis [Date: 2/ 1	1/2023	SeqNo: 3408002 Units: I				: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val %REC LowLimit			HighLimit	%RPD	RPDLimit	Qual		
Benzene	0.96	0.025	1.000	0	95.6	80	120					
Toluene	0.97	0.050	1.000	0	97.1	80	120					
Ethylbenzene	0.97	0.050	1.000	0	97.5	80	120					
Xylenes, Total	2.9	0.10	3.000	0 97.9 80			120					
Surr: 4-Bromofluorobenzene	1.0		1.000	103 70			130					

Sample ID: mb-72924	Samp ¹	Гуре: МЕ	BLK	TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batc	h ID: 72 9	924	F	RunNo: 94	4327				
Prep Date: 1/31/2023	Analysis [Date: 2/	1/2023	SeqNo: 3408003 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		104	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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2301A35**

09-Feb-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: 2301A35-003ams	Samp	Гуре: М.S	i	Tes	les					
Client ID: BS23-18 2'	Batcl	Batch ID: 72924			RunNo: 94	1327				
Prep Date: 1/31/2023	Analysis [Date: 2/	1/2023	SeqNo: 3408006 Units: mg/Kg			g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	0.9872	0	94.0	68.8	120			
Toluene	0.96	0.049	0.9872	0	97.2	73.6	124			
Ethylbenzene	0.97	0.049	0.9872	0	98.0	72.7	129			
Xylenes, Total	2.9	0.099	2.962	0	98.5	75.7	126			
Surr: 4-Bromofluorobenzene	1.0		0.9872		102	70	130			

Sample ID: 2301A35-003amsd	I Samp	Гуре: МЅ	SD.	Tes						
Client ID: BS23-18 2'	Batc	h ID: 72 9	924	F	RunNo: 94	4327				
Prep Date: 1/31/2023	Analysis [Date: 2/	1/2023	9	SeqNo: 3408007 Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.95	0.025	0.9823	0	96.3	68.8	120	1.91	20	
Toluene	0.97	0.049	0.9823	0	98.7	73.6	124	1.07	20	
Ethylbenzene	0.98	0.049	0.9823	0	99.5	72.7	129	1.08	20	
Xylenes, Total	2.9	0.098	2.947	0	99.9	75.7	126	0.978	20	
Surr: 4-Bromofluorobenzene	1.0		0.9823		103	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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

Client Name:	Vertex Res Services, In		Work	Order Num	ber: 230	1A35			RcptNo	: 1
Received By:	Juan Roja	ıs	1/27/20	23 7:25:00	AM		Glean	3		
Completed By	Tracy Cas	arrubias	1/27/202	23 8:11:44	AM					
Reviewed By:	KPG	1.27.2	3							
Chain of Cu	ıstod <u>y</u>									
1. Is Chain of	Custody comp	lete?			Yes		No	V	Not Present	
2. How was th	ne sample deliv	ered?			<u>Cou</u>	rier				
<u>Log In</u> 3. Was an atte	empt made to o	ool the samp	es?		Yes	V	No		na 🗆	
4. Were all sa	mples received	at a tempera	ture of >0°C t	o 6.0°C	Yes	V	No		na 🗆	
5. Sample(s) i	n proper conta	iner(s)?			Yes	V	No			
6. Sufficient sa	ample volume f	or indicated te	est(s)?		Yes	\checkmark	No			
7. Are samples				ed?	Yes	✓	No			
8. Was preser	-				Yes		No	V	NA 🗆	
9. Received at	least 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No		NA 🗹	
10. Were any s	ample containe	ers received b	roken?		Yes		No	V	#	
						_		_	# of preserved bottles checked	
11. Does paper	work match bot pancies on cha				Yes	\checkmark	No		for pH: (<2 o	r>12 unless noted)
12. Are matrice:					Yes	V	No		Adjusted?	,,
13. Is it clear wi					Yes	✓	No			1
14. Were all hol	ding times able	to be met?			Yes	✓	No		Checked by:	1-27.23
	customer for a								U	
Special Hand							NI-		NA 🗹	
15. Was client	notined of all d	screpancies v	vith this order?		Yes		No		NA 💟	7
Perso	on Notified:			Date	:					
By W				Via:	☐ eM	ail 🗌	Phone [Fax	☐ In Person	
-	rding:									
Clien	t Instructions:	l.								
16. Additional	remarks:									
17. Cooler Inf										
Cooler I		Condition	Seal Intact	Seal No	Seal D	ate	Signed I	Зу		
1	0.5	Good	Yes	W. W.		1				
2	0.2	Good	Yes							

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i			(direct bill to Devon)	Project Name:						WWW	haller	nviron	ment	www.hallenvironmental.com		:		
Mailing	Mailing Address:	.; S:		North Pure G	old 8 Federa	North Pure Gold 8 Federal #006, West		4901	Haw	4901 Hawkins NE	1	nbnqı	erdue	Albuquerque, NM 87109	7109			
				Project #:				<u>e</u>	505-3	505-345-3975		Fax	505-	505-345-4107	7(
Phone #:	#			22E-02816-07	7				K		Ana		Requ	est	H			
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QA/QC Pack	QA/QC Package: □ Standard		☐ Level 4 (Full Validation)	Kent Stallings kstallings@vertex.ca	rfex.ca		.S08) s		6.00	SMIS	S 'ÞOd	- "		iəsdA\t				
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□ EDD (Ty	EDD (Type)			# of Coolers:		User'	3E \					'0	10V	<u>-</u> յ) ա				
				Cooler Temp(Including CF):	Including CF): O.	8-63=65	ЭTМ						-imə	nojilo		-		
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	(6.4-6.5 = 0.1 HEAL NO. 741/1875	X∃T8	.08:H9T 	8081 Pe M) BQ3	d sHAq	SCRA 8	V) 0928	S) 07S8	Total Co				
01/25/23	8:40	Soil	BS23-16 2.5'			100	×	×			-							
01/25/23	10:15	Soil	BS23-17 2.5'	1, 4oz jar		Coll	\vdash	×			×						-	
01/25/23	11:00	Soil	BS23-18 2'	1, 4oz jar		003	×	×			×						<u> </u>	
01/25/23	11:45	Soil	BS23-19 2.5'	1, 4oz jar		1,00	×	×			×						<u> </u>	
01/25/23	12:55	Soil	BS23-20 2.5'	1, 4oz jar		500	×	×			×						_	
01/25/23	13:30	Soil	BS23-21 2.5'	1, 4oz jar		900	×	×			×					_		
01/25/23	14:15	Soil	BS23-22 3'	1, 4oz jar		500%	×	×			×							
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Date:	Time:	Relinquished by:	be by.	Received by:	Via:		ဂ္ဂ န	tallin		cc. kstallings@vertex.ca for Final Report	ca fo	r Fin	al Re	oort				
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| PDV | WWW. | W. | W. | W. | COONTROLL |



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

March 07, 2023

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

FAX:

RE: North Pure Gold 8 Federal 006 West OrderNo.: 2302999

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 50 sample(s) on 2/23/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-23 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:30:00 AM

 Lab ID:
 2302999-001
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	2/27/2023 7:24:41 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/27/2023 7:24:41 PM
Surr: DNOP	91.8	69-147	%Rec	1	2/27/2023 7:24:41 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 2:05:56 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Т				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 12:52:20 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 12:52:20 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 12:52:20 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2023 12:52:20 AM
Surr: 1,2-Dichloroethane-d4	97.8	70-130	%Rec	1	3/2/2023 12:52:20 AM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	3/2/2023 12:52:20 AM
Surr: Dibromofluoromethane	99.1	70-130	%Rec	1	3/2/2023 12:52:20 AM
Surr: Toluene-d8	94.5	70-130	%Rec	1	3/2/2023 12:52:20 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	Ε				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 12:52:20 AM
Surr: BFB	99.3	70-130	%Rec	1	3/2/2023 12:52:20 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-24 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:30:00 AM

 Lab ID:
 2302999-002
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/27/2023 8:04:13 PM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	2/27/2023 8:04:13 PM
Surr: DNOP	98.4	69-147	%Rec	1	2/27/2023 8:04:13 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	65	60	mg/Kg	20	3/1/2023 2:31:39 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST .				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 2:13:49 AM
Toluene	ND	0.050	mg/Kg	1	3/2/2023 2:13:49 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2023 2:13:49 AM
Xylenes, Total	ND	0.10	mg/Kg	1	3/2/2023 2:13:49 AM
Surr: 1,2-Dichloroethane-d4	99.3	70-130	%Rec	1	3/2/2023 2:13:49 AM
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	3/2/2023 2:13:49 AM
Surr: Dibromofluoromethane	98.0	70-130	%Rec	1	3/2/2023 2:13:49 AM
Surr: Toluene-d8	95.9	70-130	%Rec	1	3/2/2023 2:13:49 AM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2023 2:13:49 AM
Surr: BFB	104	70-130	%Rec	1	3/2/2023 2:13:49 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-25 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:35:00 AM

 Lab ID:
 2302999-003
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/27/2023 8:17:56 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/27/2023 8:17:56 PM
Surr: DNOP	95.5	69-147	%Rec	1	2/27/2023 8:17:56 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	92	60	mg/Kg	20	3/1/2023 2:43:59 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 3:35:15 AM
Toluene	ND	0.050	mg/Kg	1	3/2/2023 3:35:15 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2023 3:35:15 AM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2023 3:35:15 AM
Surr: 1,2-Dichloroethane-d4	95.7	70-130	%Rec	1	3/2/2023 3:35:15 AM
Surr: 4-Bromofluorobenzene	102	70-130	%Rec	1	3/2/2023 3:35:15 AM
Surr: Dibromofluoromethane	96.5	70-130	%Rec	1	3/2/2023 3:35:15 AM
Surr: Toluene-d8	94.4	70-130	%Rec	1	3/2/2023 3:35:15 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2023 3:35:15 AM
Surr: BFB	106	70-130	%Rec	1	3/2/2023 3:35:15 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-26 0'

Project: North Pure Gold 8 Federal 006 West **Collection Date:** 2/20/2023 9:35:00 AM 2302999-004 Lab ID: Matrix: SOIL Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/27/2023 8:31:56 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/27/2023 8:31:56 PM
Surr: DNOP	102	69-147	%Rec	1	2/27/2023 8:31:56 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	2/25/2023 3:07:59 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 4:02:25 AM
Toluene	ND	0.050	mg/Kg	1	3/2/2023 4:02:25 AM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2023 4:02:25 AM
Xylenes, Total	ND	0.10	mg/Kg	1	3/2/2023 4:02:25 AM
Surr: 1,2-Dichloroethane-d4	94.1	70-130	%Rec	1	3/2/2023 4:02:25 AM
Surr: 4-Bromofluorobenzene	96.0	70-130	%Rec	1	3/2/2023 4:02:25 AM
Surr: Dibromofluoromethane	100	70-130	%Rec	1	3/2/2023 4:02:25 AM
Surr: Toluene-d8	98.1	70-130	%Rec	1	3/2/2023 4:02:25 AM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2023 4:02:25 AM
Surr: BFB	102	70-130	%Rec	1	3/2/2023 4:02:25 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-27 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:40:00 AM

 Lab ID:
 2302999-005
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/27/2023 8:45:51 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/27/2023 8:45:51 PM
Surr: DNOP	97.8	69-147	%Rec	1	2/27/2023 8:45:51 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 3:20:23 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 4:29:35 AM
Toluene	ND	0.047	mg/Kg	1	3/2/2023 4:29:35 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/2/2023 4:29:35 AM
Xylenes, Total	ND	0.094	mg/Kg	1	3/2/2023 4:29:35 AM
Surr: 1,2-Dichloroethane-d4	89.8	70-130	%Rec	1	3/2/2023 4:29:35 AM
Surr: 4-Bromofluorobenzene	98.7	70-130	%Rec	1	3/2/2023 4:29:35 AM
Surr: Dibromofluoromethane	96.4	70-130	%Rec	1	3/2/2023 4:29:35 AM
Surr: Toluene-d8	94.1	70-130	%Rec	1	3/2/2023 4:29:35 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	<u> </u>				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/2/2023 4:29:35 AM
Surr: BFB	101	70-130	%Rec	1	3/2/2023 4:29:35 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-28 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:40:00 AM

 Lab ID:
 2302999-006
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/27/2023 9:00:09 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/27/2023 9:00:09 PM
Surr: DNOP	97.3	69-147	%Rec	1	2/27/2023 9:00:09 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	2/25/2023 3:57:36 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.023	mg/Kg	1	3/2/2023 4:56:42 AM
Toluene	ND	0.046	mg/Kg	1	3/2/2023 4:56:42 AM
Ethylbenzene	ND	0.046	mg/Kg	1	3/2/2023 4:56:42 AM
Xylenes, Total	ND	0.092	mg/Kg	1	3/2/2023 4:56:42 AM
Surr: 1,2-Dichloroethane-d4	88.8	70-130	%Rec	1	3/2/2023 4:56:42 AM
Surr: 4-Bromofluorobenzene	97.1	70-130	%Rec	1	3/2/2023 4:56:42 AM
Surr: Dibromofluoromethane	99.2	70-130	%Rec	1	3/2/2023 4:56:42 AM
Surr: Toluene-d8	94.0	70-130	%Rec	1	3/2/2023 4:56:42 AM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/2/2023 4:56:42 AM
Surr: BFB	101	70-130	%Rec	1	3/2/2023 4:56:42 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-29 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:45:00 AM

 Lab ID:
 2302999-007
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/27/2023 9:13:58 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/27/2023 9:13:58 PM
Surr: DNOP	103	69-147	%Rec	1	2/27/2023 9:13:58 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 4:10:01 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: JR
Benzene	ND	0.023	mg/Kg	1	3/2/2023 5:23:48 AM
Toluene	ND	0.046	mg/Kg	1	3/2/2023 5:23:48 AM
Ethylbenzene	ND	0.046	mg/Kg	1	3/2/2023 5:23:48 AM
Xylenes, Total	ND	0.093	mg/Kg	1	3/2/2023 5:23:48 AM
Surr: 1,2-Dichloroethane-d4	91.8	70-130	%Rec	1	3/2/2023 5:23:48 AM
Surr: 4-Bromofluorobenzene	97.5	70-130	%Rec	1	3/2/2023 5:23:48 AM
Surr: Dibromofluoromethane	96.9	70-130	%Rec	1	3/2/2023 5:23:48 AM
Surr: Toluene-d8	93.0	70-130	%Rec	1	3/2/2023 5:23:48 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/2/2023 5:23:48 AM
Surr: BFB	101	70-130	%Rec	1	3/2/2023 5:23:48 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-30 0'

Collection Date: 2/20/2023 9:45:00 AM **Project:** North Pure Gold 8 Federal 006 West Lab ID: 2302999-008 Matrix: SOIL Received Date: 2/23/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 8.8 mg/Kg 1 2/27/2023 9:27:46 PM Motor Oil Range Organics (MRO) ND 44 mg/Kg 1 2/27/2023 9:27:46 PM Surr: DNOP 97.1 69-147 %Rec 1 2/27/2023 9:27:46 PM **EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 60 2/25/2023 4:22:26 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR ND 3/2/2023 5:50:55 AM 0.024 mg/Kg 1 Toluene ND 0.048 mg/Kg 1 3/2/2023 5:50:55 AM Ethylbenzene ND 0.048 mg/Kg 1 3/2/2023 5:50:55 AM Xylenes, Total ND 0.097 mg/Kg 1 3/2/2023 5:50:55 AM Surr: 1,2-Dichloroethane-d4 101 70-130 %Rec 3/2/2023 5:50:55 AM 1 Surr: 4-Bromofluorobenzene 95.1 70-130 %Rec 1 3/2/2023 5:50:55 AM Surr: Dibromofluoromethane 99.8 70-130 %Rec 1 3/2/2023 5:50:55 AM Surr: Toluene-d8 94.6 70-130 %Rec 1 3/2/2023 5:50:55 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 3/2/2023 5:50:55 AM 4 8 1 Surr: BFB 102 70-130 %Rec 1 3/2/2023 5:50:55 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-31 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:50:00 AM

 Lab ID:
 2302999-009
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	2/27/2023 9:41:37 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/27/2023 9:41:37 PM
Surr: DNOP	98.1	69-147	%Rec	1	2/27/2023 9:41:37 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 4:34:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 6:18:03 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 6:18:03 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 6:18:03 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2023 6:18:03 AM
Surr: 1,2-Dichloroethane-d4	98.0	70-130	%Rec	1	3/2/2023 6:18:03 AM
Surr: 4-Bromofluorobenzene	99.6	70-130	%Rec	1	3/2/2023 6:18:03 AM
Surr: Dibromofluoromethane	103	70-130	%Rec	1	3/2/2023 6:18:03 AM
Surr: Toluene-d8	95.1	70-130	%Rec	1	3/2/2023 6:18:03 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 6:18:03 AM
Surr: BFB	104	70-130	%Rec	1	3/2/2023 6:18:03 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-32 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:50:00 AM

 Lab ID:
 2302999-010
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Result **RL Qual Units** DF **Date Analyzed Analyses EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: SB Diesel Range Organics (DRO) ND 9.4 mg/Kg 1 2/27/2023 9:55:45 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 2/27/2023 9:55:45 PM Surr: DNOP 102 69-147 %Rec 1 2/27/2023 9:55:45 PM **EPA METHOD 300.0: ANIONS** Analyst: CAS Chloride 300 60 3/1/2023 3:21:02 PM mg/Kg 20 **EPA METHOD 8260B: VOLATILES SHORT LIST** Analyst: JR 0.023 3/2/2023 6:45:11 AM ND mg/Kg 1 Toluene ND 0.047 mg/Kg 1 3/2/2023 6:45:11 AM Ethylbenzene ND 0.047 mg/Kg 1 3/2/2023 6:45:11 AM Xylenes, Total ND 0.093 mg/Kg 1 3/2/2023 6:45:11 AM Surr: 1,2-Dichloroethane-d4 94.6 70-130 %Rec 3/2/2023 6:45:11 AM 1 Surr: 4-Bromofluorobenzene 94.1 70-130 %Rec 1 3/2/2023 6:45:11 AM Surr: Dibromofluoromethane 98.1 70-130 %Rec 1 3/2/2023 6:45:11 AM Surr: Toluene-d8 92.1 70-130 %Rec 1 3/2/2023 6:45:11 AM **EPA METHOD 8015D MOD: GASOLINE RANGE** Analyst: JR Gasoline Range Organics (GRO) ND mg/Kg 3/2/2023 6:45:11 AM 47 1 Surr: BFB 97.0 70-130 %Rec 1 3/2/2023 6:45:11 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-33 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:55:00 AM

 Lab ID:
 2302999-011
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	2/27/2023 10:09:43 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/27/2023 10:09:43 PM
Surr: DNOP	99.7	69-147	%Rec	1	2/27/2023 10:09:43 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 4:59:40 PM
EPA METHOD 8260B: VOLATILES SHORT I	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 7:12:16 AM
Toluene	ND	0.048	mg/Kg	1	3/2/2023 7:12:16 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/2/2023 7:12:16 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/2/2023 7:12:16 AM
Surr: 1,2-Dichloroethane-d4	94.5	70-130	%Rec	1	3/2/2023 7:12:16 AM
Surr: 4-Bromofluorobenzene	95.0	70-130	%Rec	1	3/2/2023 7:12:16 AM
Surr: Dibromofluoromethane	94.7	70-130	%Rec	1	3/2/2023 7:12:16 AM
Surr: Toluene-d8	95.9	70-130	%Rec	1	3/2/2023 7:12:16 AM
EPA METHOD 8015D MOD: GASOLINE RAM	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/2/2023 7:12:16 AM
Surr: BFB	101	70-130	%Rec	1	3/2/2023 7:12:16 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-34 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 9:55:00 AM

 Lab ID:
 2302999-012
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/27/2023 10:23:37 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/27/2023 10:23:37 PM
Surr: DNOP	101	69-147	%Rec	1	2/27/2023 10:23:37 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 5:12:04 PM
EPA METHOD 8260B: VOLATILES SHORT LIST					Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 7:39:22 AM
Toluene	ND	0.048	mg/Kg	1	3/2/2023 7:39:22 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/2/2023 7:39:22 AM
Xylenes, Total	ND	0.096	mg/Kg	1	3/2/2023 7:39:22 AM
Surr: 1,2-Dichloroethane-d4	93.6	70-130	%Rec	1	3/2/2023 7:39:22 AM
Surr: 4-Bromofluorobenzene	98.1	70-130	%Rec	1	3/2/2023 7:39:22 AM
Surr: Dibromofluoromethane	99.0	70-130	%Rec	1	3/2/2023 7:39:22 AM
Surr: Toluene-d8	95.0	70-130	%Rec	1	3/2/2023 7:39:22 AM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/2/2023 7:39:22 AM
Surr: BFB	103	70-130	%Rec	1	3/2/2023 7:39:22 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-35 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:00:00 AM

 Lab ID:
 2302999-013
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/27/2023 10:37:37 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/27/2023 10:37:37 PM
Surr: DNOP	102	69-147	%Rec	1	2/27/2023 10:37:37 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 5:24:29 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 8:06:27 AM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 8:06:27 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 8:06:27 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2023 8:06:27 AM
Surr: 1,2-Dichloroethane-d4	96.9	70-130	%Rec	1	3/2/2023 8:06:27 AM
Surr: 4-Bromofluorobenzene	100	70-130	%Rec	1	3/2/2023 8:06:27 AM
Surr: Dibromofluoromethane	100	70-130	%Rec	1	3/2/2023 8:06:27 AM
Surr: Toluene-d8	95.9	70-130	%Rec	1	3/2/2023 8:06:27 AM
EPA METHOD 8015D MOD: GASOLINE RANG	SE .				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 8:06:27 AM
Surr: BFB	106	70-130	%Rec	1	3/2/2023 8:06:27 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-36 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:00:00 AM

 Lab ID:
 2302999-014
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	2/27/2023 10:51:30 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/27/2023 10:51:30 PM
Surr: DNOP	98.0	69-147	%Rec	1	2/27/2023 10:51:30 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 5:36:53 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 8:33:33 AM
Toluene	ND	0.047	mg/Kg	1	3/2/2023 8:33:33 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/2/2023 8:33:33 AM
Xylenes, Total	ND	0.094	mg/Kg	1	3/2/2023 8:33:33 AM
Surr: 1,2-Dichloroethane-d4	98.1	70-130	%Rec	1	3/2/2023 8:33:33 AM
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	3/2/2023 8:33:33 AM
Surr: Dibromofluoromethane	98.4	70-130	%Rec	1	3/2/2023 8:33:33 AM
Surr: Toluene-d8	95.6	70-130	%Rec	1	3/2/2023 8:33:33 AM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/2/2023 8:33:33 AM
Surr: BFB	99.3	70-130	%Rec	1	3/2/2023 8:33:33 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

 $ND \qquad Not \ Detected \ at \ the \ Reporting \ Limit$

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-37 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:05:00 AM

 Lab ID:
 2302999-015
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE C	RGANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/27/2023 11:05:24 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/27/2023 11:05:24 PM
Surr: DNOP	94.1	69-147	%Rec	1	2/27/2023 11:05:24 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 5:49:18 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.023	mg/Kg	1	3/2/2023 9:00:42 AM
Toluene	ND	0.046	mg/Kg	1	3/2/2023 9:00:42 AM
Ethylbenzene	ND	0.046	mg/Kg	1	3/2/2023 9:00:42 AM
Xylenes, Total	ND	0.093	mg/Kg	1	3/2/2023 9:00:42 AM
Surr: 1,2-Dichloroethane-d4	96.0	70-130	%Rec	1	3/2/2023 9:00:42 AM
Surr: 4-Bromofluorobenzene	96.4	70-130	%Rec	1	3/2/2023 9:00:42 AM
Surr: Dibromofluoromethane	97.7	70-130	%Rec	1	3/2/2023 9:00:42 AM
Surr: Toluene-d8	96.6	70-130	%Rec	1	3/2/2023 9:00:42 AM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/2/2023 9:00:42 AM
Surr: BFB	102	70-130	%Rec	1	3/2/2023 9:00:42 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-38 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:05:00 AM

 Lab ID:
 2302999-016
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/27/2023 11:19:23 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/27/2023 11:19:23 PM
Surr: DNOP	96.3	69-147	%Rec	1	2/27/2023 11:19:23 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	61	mg/Kg	20	2/25/2023 6:26:32 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 9:27:52 AM
Toluene	ND	0.047	mg/Kg	1	3/2/2023 9:27:52 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/2/2023 9:27:52 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/2/2023 9:27:52 AM
Surr: 1,2-Dichloroethane-d4	92.6	70-130	%Rec	1	3/2/2023 9:27:52 AM
Surr: 4-Bromofluorobenzene	98.1	70-130	%Rec	1	3/2/2023 9:27:52 AM
Surr: Dibromofluoromethane	95.6	70-130	%Rec	1	3/2/2023 9:27:52 AM
Surr: Toluene-d8	93.9	70-130	%Rec	1	3/2/2023 9:27:52 AM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/2/2023 9:27:52 AM
Surr: BFB	102	70-130	%Rec	1	3/2/2023 9:27:52 AM

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

Qualifiers:

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

popular Not In Range Page 16 of 65

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-39 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:10:00 AM

 Lab ID:
 2302999-017
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	11	9.0	mg/Kg	1	2/27/2023 11:33:01 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/27/2023 11:33:01 PM
Surr: DNOP	100	69-147	%Rec	1	2/27/2023 11:33:01 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/27/2023 8:16:00 PM
Surr: BFB	106	37.7-212	%Rec	1	2/27/2023 8:16:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/27/2023 8:16:00 PM
Toluene	ND	0.048	mg/Kg	1	2/27/2023 8:16:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/27/2023 8:16:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/27/2023 8:16:00 PM
Surr: 4-Bromofluorobenzene	96.7	70-130	%Rec	1	2/27/2023 8:16:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 6:38:57 PM

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

Qualifiers:

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

ple pH Not In Range Page 17 of 65

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-40 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:10:00 AM

 Lab ID:
 2302999-018
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/27/2023 11:46:56 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/27/2023 11:46:56 PM
Surr: DNOP	97.5	69-147	%Rec	1	2/27/2023 11:46:56 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/27/2023 8:35:00 PM
Surr: BFB	102	37.7-212	%Rec	1	2/27/2023 8:35:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/27/2023 8:35:00 PM
Toluene	ND	0.048	mg/Kg	1	2/27/2023 8:35:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/27/2023 8:35:00 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/27/2023 8:35:00 PM
Surr: 4-Bromofluorobenzene	96.2	70-130	%Rec	1	2/27/2023 8:35:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 6:51:21 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-41 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:15:00 AM

 Lab ID:
 2302999-019
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: SB				
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/28/2023 12:00:48 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/28/2023 12:00:48 AM
Surr: DNOP	100	69-147	%Rec	1	2/28/2023 12:00:48 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/27/2023 8:55:00 PM
Surr: BFB	102	37.7-212	%Rec	1	2/27/2023 8:55:00 PM
EPA METHOD 8021B: VOLATILES					Analyst: CCM
Benzene	ND	0.024	mg/Kg	1	2/27/2023 8:55:00 PM
Toluene	ND	0.048	mg/Kg	1	2/27/2023 8:55:00 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/27/2023 8:55:00 PM
Xylenes, Total	ND	0.096	mg/Kg	1	2/27/2023 8:55:00 PM
Surr: 4-Bromofluorobenzene	97.3	70-130	%Rec	1	2/27/2023 8:55:00 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 7:03:46 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-42 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:15:00 AM

 Lab ID:
 2302999-020
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: SB
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/28/2023 12:14:32 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/28/2023 12:14:32 AM
Surr: DNOP	97.8	69-147	%Rec	1	2/28/2023 12:14:32 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 7:16:10 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 3:06:12 PM
Toluene	ND	0.050	mg/Kg	1	3/2/2023 3:06:12 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2023 3:06:12 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/2/2023 3:06:12 PM
Surr: 1,2-Dichloroethane-d4	89.9	70-130	%Rec	1	3/2/2023 3:06:12 PM
Surr: 4-Bromofluorobenzene	97.8	70-130	%Rec	1	3/2/2023 3:06:12 PM
Surr: Dibromofluoromethane	94.7	70-130	%Rec	1	3/2/2023 3:06:12 PM
Surr: Toluene-d8	96.2	70-130	%Rec	1	3/2/2023 3:06:12 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2023 3:06:12 PM
Surr: BFB	102	70-130	%Rec	1	3/2/2023 3:06:12 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-43 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:20:00 AM

 Lab ID:
 2302999-021
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	2/27/2023 10:57:10 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/27/2023 10:57:10 PM
Surr: DNOP	90.0	69-147	%Rec	1	2/27/2023 10:57:10 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 7:53:23 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 4:27:35 PM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 4:27:35 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 4:27:35 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2023 4:27:35 PM
Surr: 1,2-Dichloroethane-d4	99.1	70-130	%Rec	1	3/2/2023 4:27:35 PM
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	3/2/2023 4:27:35 PM
Surr: Dibromofluoromethane	97.0	70-130	%Rec	1	3/2/2023 4:27:35 PM
Surr: Toluene-d8	101	70-130	%Rec	1	3/2/2023 4:27:35 PM
EPA METHOD 8015D MOD: GASOLINE RANG	3E				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 4:27:35 PM
Surr: BFB	103	70-130	%Rec	1	3/2/2023 4:27:35 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-44 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:20:00 AM

 Lab ID:
 2302999-022
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	2/27/2023 11:29:05 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	2/27/2023 11:29:05 PM
Surr: DNOP	88.4	69-147	%Rec	1	2/27/2023 11:29:05 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 8:55:26 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 5:49:08 PM
Toluene	ND	0.048	mg/Kg	1	3/2/2023 5:49:08 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/2/2023 5:49:08 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/2/2023 5:49:08 PM
Surr: 1,2-Dichloroethane-d4	95.4	70-130	%Rec	1	3/2/2023 5:49:08 PM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	3/2/2023 5:49:08 PM
Surr: Dibromofluoromethane	92.9	70-130	%Rec	1	3/2/2023 5:49:08 PM
Surr: Toluene-d8	97.6	70-130	%Rec	1	3/2/2023 5:49:08 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/2/2023 5:49:08 PM
Surr: BFB	103	70-130	%Rec	1	3/2/2023 5:49:08 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-45 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:25:00 AM

 Lab ID:
 2302999-023
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	2/27/2023 11:39:39 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/27/2023 11:39:39 PM
Surr: DNOP	85.1	69-147	%Rec	1	2/27/2023 11:39:39 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 9:07:50 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 6:16:19 PM
Toluene	ND	0.048	mg/Kg	1	3/2/2023 6:16:19 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/2/2023 6:16:19 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/2/2023 6:16:19 PM
Surr: 1,2-Dichloroethane-d4	91.0	70-130	%Rec	1	3/2/2023 6:16:19 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	3/2/2023 6:16:19 PM
Surr: Dibromofluoromethane	98.7	70-130	%Rec	1	3/2/2023 6:16:19 PM
Surr: Toluene-d8	101	70-130	%Rec	1	3/2/2023 6:16:19 PM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/2/2023 6:16:19 PM
Surr: BFB	104	70-130	%Rec	1	3/2/2023 6:16:19 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-46 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:25:00 AM

 Lab ID:
 2302999-024
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	2/27/2023 11:50:14 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/27/2023 11:50:14 PM
Surr: DNOP	87.6	69-147	%Rec	1	2/27/2023 11:50:14 PM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	59	mg/Kg	20	2/25/2023 9:20:14 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 6:43:28 PM
Toluene	ND	0.050	mg/Kg	1	3/2/2023 6:43:28 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2023 6:43:28 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/2/2023 6:43:28 PM
Surr: 1,2-Dichloroethane-d4	91.8	70-130	%Rec	1	3/2/2023 6:43:28 PM
Surr: 4-Bromofluorobenzene	95.2	70-130	%Rec	1	3/2/2023 6:43:28 PM
Surr: Dibromofluoromethane	95.3	70-130	%Rec	1	3/2/2023 6:43:28 PM
Surr: Toluene-d8	99.6	70-130	%Rec	1	3/2/2023 6:43:28 PM
EPA METHOD 8015D MOD: GASOLINE RANG	Ε				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2023 6:43:28 PM
Surr: BFB	106	70-130	%Rec	1	3/2/2023 6:43:28 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-47 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:30:00 AM

 Lab ID:
 2302999-025
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: JME
Diesel Range Organics (DRO)	250	50	mg/Kg	5	3/2/2023 3:08:12 PM
Motor Oil Range Organics (MRO)	420	250	mg/Kg	5	3/2/2023 3:08:12 PM
Surr: DNOP	99.7	69-147	%Rec	5	3/2/2023 3:08:12 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	270	60	mg/Kg	20	3/1/2023 3:33:24 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Г				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 7:10:34 PM
Toluene	ND	0.050	mg/Kg	1	3/2/2023 7:10:34 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2023 7:10:34 PM
Xylenes, Total	ND	0.10	mg/Kg	1	3/2/2023 7:10:34 PM
Surr: 1,2-Dichloroethane-d4	92.5	70-130	%Rec	1	3/2/2023 7:10:34 PM
Surr: 4-Bromofluorobenzene	96.6	70-130	%Rec	1	3/2/2023 7:10:34 PM
Surr: Dibromofluoromethane	95.0	70-130	%Rec	1	3/2/2023 7:10:34 PM
Surr: Toluene-d8	99.0	70-130	%Rec	1	3/2/2023 7:10:34 PM
EPA METHOD 8015D MOD: GASOLINE RANGE	≣				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2023 7:10:34 PM
Surr: BFB	103	70-130	%Rec	1	3/2/2023 7:10:34 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-48 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:30:00 AM

 Lab ID:
 2302999-026
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	2/28/2023 12:00:48 AM
Motor Oil Range Organics (MRO)	ND	42	mg/Kg	1	2/28/2023 12:00:48 AM
Surr: DNOP	90.7	69-147	%Rec	1	2/28/2023 12:00:48 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 9:45:03 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 7:37:43 PM
Toluene	ND	0.047	mg/Kg	1	3/2/2023 7:37:43 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/2/2023 7:37:43 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/2/2023 7:37:43 PM
Surr: 1,2-Dichloroethane-d4	90.3	70-130	%Rec	1	3/2/2023 7:37:43 PM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	3/2/2023 7:37:43 PM
Surr: Dibromofluoromethane	92.9	70-130	%Rec	1	3/2/2023 7:37:43 PM
Surr: Toluene-d8	96.7	70-130	%Rec	1	3/2/2023 7:37:43 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/2/2023 7:37:43 PM
Surr: BFB	103	70-130	%Rec	1	3/2/2023 7:37:43 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-49 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:35:00 AM

 Lab ID:
 2302999-027
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.5	mg/Kg	1	2/28/2023 12:11:22 AM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	2/28/2023 12:11:22 AM
Surr: DNOP	115	69-147	%Rec	1	2/28/2023 12:11:22 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 9:57:27 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 8:04:56 PM
Toluene	ND	0.047	mg/Kg	1	3/2/2023 8:04:56 PM
Ethylbenzene	ND	0.047	mg/Kg	1	3/2/2023 8:04:56 PM
Xylenes, Total	ND	0.095	mg/Kg	1	3/2/2023 8:04:56 PM
Surr: 1,2-Dichloroethane-d4	95.6	70-130	%Rec	1	3/2/2023 8:04:56 PM
Surr: 4-Bromofluorobenzene	96.5	70-130	%Rec	1	3/2/2023 8:04:56 PM
Surr: Dibromofluoromethane	96.0	70-130	%Rec	1	3/2/2023 8:04:56 PM
Surr: Toluene-d8	97.5	70-130	%Rec	1	3/2/2023 8:04:56 PM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/2/2023 8:04:56 PM
Surr: BFB	101	70-130	%Rec	1	3/2/2023 8:04:56 PM

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

Qualifiers:

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

ple pH Not In Range Page 27 of 65

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-50 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:35:00 AM

 Lab ID:
 2302999-028
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	25	9.0	mg/Kg	1	2/28/2023 12:21:59 AM
Motor Oil Range Organics (MRO)	74	45	mg/Kg	1	2/28/2023 12:21:59 AM
Surr: DNOP	99.6	69-147	%Rec	1	2/28/2023 12:21:59 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 10:09:51 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	S T				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 8:32:07 PM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 8:32:07 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 8:32:07 PM
Xylenes, Total	ND	0.097	mg/Kg	1	3/2/2023 8:32:07 PM
Surr: 1,2-Dichloroethane-d4	91.7	70-130	%Rec	1	3/2/2023 8:32:07 PM
Surr: 4-Bromofluorobenzene	95.9	70-130	%Rec	1	3/2/2023 8:32:07 PM
Surr: Dibromofluoromethane	95.4	70-130	%Rec	1	3/2/2023 8:32:07 PM
Surr: Toluene-d8	96.4	70-130	%Rec	1	3/2/2023 8:32:07 PM
EPA METHOD 8015D MOD: GASOLINE RANG	Ε				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 8:32:07 PM
Surr: BFB	103	70-130	%Rec	1	3/2/2023 8:32:07 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-51 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:40:00 AM

 Lab ID:
 2302999-029
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/28/2023 12:53:34 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 12:53:34 AM
Surr: DNOP	90.4	69-147	%Rec	1	2/28/2023 12:53:34 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 10:22:15 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 8:59:17 PM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 8:59:17 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 8:59:17 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2023 8:59:17 PM
Surr: 1,2-Dichloroethane-d4	100	70-130	%Rec	1	3/2/2023 8:59:17 PM
Surr: 4-Bromofluorobenzene	94.6	70-130	%Rec	1	3/2/2023 8:59:17 PM
Surr: Dibromofluoromethane	99.9	70-130	%Rec	1	3/2/2023 8:59:17 PM
Surr: Toluene-d8	97.3	70-130	%Rec	1	3/2/2023 8:59:17 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 8:59:17 PM
Surr: BFB	103	70-130	%Rec	1	3/2/2023 8:59:17 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-52 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:40:00 AM

 Lab ID:
 2302999-030
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	39	9.3	mg/Kg	1	2/28/2023 1:14:32 AM
Motor Oil Range Organics (MRO)	120	47	mg/Kg	1	2/28/2023 1:14:32 AM
Surr: DNOP	99.0	69-147	%Rec	1	2/28/2023 1:14:32 AM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	220	60	mg/Kg	20	3/1/2023 3:45:43 PM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 9:26:27 PM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 9:26:27 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 9:26:27 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2023 9:26:27 PM
Surr: 1,2-Dichloroethane-d4	96.4	70-130	%Rec	1	3/2/2023 9:26:27 PM
Surr: 4-Bromofluorobenzene	96.8	70-130	%Rec	1	3/2/2023 9:26:27 PM
Surr: Dibromofluoromethane	96.5	70-130	%Rec	1	3/2/2023 9:26:27 PM
Surr: Toluene-d8	99.7	70-130	%Rec	1	3/2/2023 9:26:27 PM
EPA METHOD 8015D MOD: GASOLINE RAN	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 9:26:27 PM
Surr: BFB	109	70-130	%Rec	1	3/2/2023 9:26:27 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-53 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:45:00 AM

 Lab ID:
 2302999-031
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	2/28/2023 1:45:41 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/28/2023 1:45:41 AM
Surr: DNOP	93.8	69-147	%Rec	1	2/28/2023 1:45:41 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 10:47:04 PM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 9:53:37 PM
Toluene	ND	0.050	mg/Kg	1	3/2/2023 9:53:37 PM
Ethylbenzene	ND	0.050	mg/Kg	1	3/2/2023 9:53:37 PM
Xylenes, Total	ND	0.099	mg/Kg	1	3/2/2023 9:53:37 PM
Surr: 1,2-Dichloroethane-d4	93.1	70-130	%Rec	1	3/2/2023 9:53:37 PM
Surr: 4-Bromofluorobenzene	94.1	70-130	%Rec	1	3/2/2023 9:53:37 PM
Surr: Dibromofluoromethane	95.6	70-130	%Rec	1	3/2/2023 9:53:37 PM
Surr: Toluene-d8	97.2	70-130	%Rec	1	3/2/2023 9:53:37 PM
EPA METHOD 8015D MOD: GASOLINE RANG	E				Analyst: JR
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/2/2023 9:53:37 PM
Surr: BFB	102	70-130	%Rec	1	3/2/2023 9:53:37 PM

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

Qualifiers:

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

ple pH Not In Range Page 31 of 65

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-54 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:45:00 AM

 Lab ID:
 2302999-032
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE O	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	2/28/2023 1:56:03 AM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	2/28/2023 1:56:03 AM
Surr: DNOP	95.9	69-147	%Rec	1	2/28/2023 1:56:03 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 11:24:18 PM
EPA METHOD 8260B: VOLATILES SHORT	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/2/2023 10:20:46 PM
Toluene	ND	0.048	mg/Kg	1	3/2/2023 10:20:46 PM
Ethylbenzene	ND	0.048	mg/Kg	1	3/2/2023 10:20:46 PM
Xylenes, Total	ND	0.096	mg/Kg	1	3/2/2023 10:20:46 PM
Surr: 1,2-Dichloroethane-d4	87.6	70-130	%Rec	1	3/2/2023 10:20:46 PM
Surr: 4-Bromofluorobenzene	95.4	70-130	%Rec	1	3/2/2023 10:20:46 PM
Surr: Dibromofluoromethane	92.0	70-130	%Rec	1	3/2/2023 10:20:46 PM
Surr: Toluene-d8	95.6	70-130	%Rec	1	3/2/2023 10:20:46 PM
EPA METHOD 8015D MOD: GASOLINE RA	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/2/2023 10:20:46 PM
Surr: BFB	104	70-130	%Rec	1	3/2/2023 10:20:46 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-55 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:50:00 AM

 Lab ID:
 2302999-033
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	2/28/2023 2:06:22 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/28/2023 2:06:22 AM
Surr: DNOP	95.1	69-147	%Rec	1	2/28/2023 2:06:22 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 11:36:43 PM
EPA METHOD 8260B: VOLATILES SHORT LI	ST				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 10:47:54 PM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 10:47:54 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 10:47:54 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2023 10:47:54 PM
Surr: 1,2-Dichloroethane-d4	92.1	70-130	%Rec	1	3/2/2023 10:47:54 PM
Surr: 4-Bromofluorobenzene	93.7	70-130	%Rec	1	3/2/2023 10:47:54 PM
Surr: Dibromofluoromethane	93.4	70-130	%Rec	1	3/2/2023 10:47:54 PM
Surr: Toluene-d8	97.0	70-130	%Rec	1	3/2/2023 10:47:54 PM
EPA METHOD 8015D MOD: GASOLINE RANG	GE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 10:47:54 PM
Surr: BFB	103	70-130	%Rec	1	3/2/2023 10:47:54 PM

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

Qualifiers:

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

ple pH Not In Range Page 33 of 65

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-56 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:50:00 AM

 Lab ID:
 2302999-034
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/28/2023 2:16:41 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/28/2023 2:16:41 AM
Surr: DNOP	94.5	69-147	%Rec	1	2/28/2023 2:16:41 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/25/2023 11:49:07 PM
EPA METHOD 8260B: VOLATILES SHORT LIST	Γ				Analyst: JR
Benzene	ND	0.025	mg/Kg	1	3/2/2023 11:15:03 PM
Toluene	ND	0.049	mg/Kg	1	3/2/2023 11:15:03 PM
Ethylbenzene	ND	0.049	mg/Kg	1	3/2/2023 11:15:03 PM
Xylenes, Total	ND	0.098	mg/Kg	1	3/2/2023 11:15:03 PM
Surr: 1,2-Dichloroethane-d4	97.4	70-130	%Rec	1	3/2/2023 11:15:03 PM
Surr: 4-Bromofluorobenzene	98.6	70-130	%Rec	1	3/2/2023 11:15:03 PM
Surr: Dibromofluoromethane	94.1	70-130	%Rec	1	3/2/2023 11:15:03 PM
Surr: Toluene-d8	96.0	70-130	%Rec	1	3/2/2023 11:15:03 PM
EPA METHOD 8015D MOD: GASOLINE RANGE					Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/2/2023 11:15:03 PM
Surr: BFB	102	70-130	%Rec	1	3/2/2023 11:15:03 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-57 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:55:00 AM

 Lab ID:
 2302999-035
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	2/28/2023 2:27:00 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/28/2023 2:27:00 AM
Surr: DNOP	96.0	69-147	%Rec	1	2/28/2023 2:27:00 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/26/2023 12:01:32 AM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.023	mg/Kg	1	3/3/2023 1:57:31 AM
Toluene	ND	0.047	mg/Kg	1	3/3/2023 1:57:31 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/3/2023 1:57:31 AM
Xylenes, Total	ND	0.094	mg/Kg	1	3/3/2023 1:57:31 AM
Surr: 1,2-Dichloroethane-d4	95.9	70-130	%Rec	1	3/3/2023 1:57:31 AM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	3/3/2023 1:57:31 AM
Surr: Dibromofluoromethane	93.3	70-130	%Rec	1	3/3/2023 1:57:31 AM
Surr: Toluene-d8	96.0	70-130	%Rec	1	3/3/2023 1:57:31 AM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/3/2023 1:57:31 AM
Surr: BFB	104	70-130	%Rec	1	3/3/2023 1:57:31 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-58 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 10:55:00 AM

 Lab ID:
 2302999-036
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/28/2023 2:37:20 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/28/2023 2:37:20 AM
Surr: DNOP	99.4	69-147	%Rec	1	2/28/2023 2:37:20 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/26/2023 12:13:56 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	Г				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/3/2023 2:24:35 AM
Toluene	ND	0.049	mg/Kg	1	3/3/2023 2:24:35 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/3/2023 2:24:35 AM
Xylenes, Total	ND	0.098	mg/Kg	1	3/3/2023 2:24:35 AM
Surr: 1,2-Dichloroethane-d4	93.4	70-130	%Rec	1	3/3/2023 2:24:35 AM
Surr: 4-Bromofluorobenzene	98.2	70-130	%Rec	1	3/3/2023 2:24:35 AM
Surr: Dibromofluoromethane	96.0	70-130	%Rec	1	3/3/2023 2:24:35 AM
Surr: Toluene-d8	98.4	70-130	%Rec	1	3/3/2023 2:24:35 AM
EPA METHOD 8015D MOD: GASOLINE RANGE	≣				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/3/2023 2:24:35 AM
Surr: BFB	105	70-130	%Rec	1	3/3/2023 2:24:35 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-59 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:00:00 AM

 Lab ID:
 2302999-037
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OF	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	2/28/2023 2:47:40 AM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	2/28/2023 2:47:40 AM
Surr: DNOP	102	69-147	%Rec	1	2/28/2023 2:47:40 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/26/2023 12:26:21 AM
EPA METHOD 8260B: VOLATILES SHORT L	IST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/3/2023 2:51:36 AM
Toluene	ND	0.047	mg/Kg	1	3/3/2023 2:51:36 AM
Ethylbenzene	ND	0.047	mg/Kg	1	3/3/2023 2:51:36 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/3/2023 2:51:36 AM
Surr: 1,2-Dichloroethane-d4	98.2	70-130	%Rec	1	3/3/2023 2:51:36 AM
Surr: 4-Bromofluorobenzene	99.4	70-130	%Rec	1	3/3/2023 2:51:36 AM
Surr: Dibromofluoromethane	95.2	70-130	%Rec	1	3/3/2023 2:51:36 AM
Surr: Toluene-d8	96.7	70-130	%Rec	1	3/3/2023 2:51:36 AM
EPA METHOD 8015D MOD: GASOLINE RAN	IGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/3/2023 2:51:36 AM
Surr: BFB	106	70-130	%Rec	1	3/3/2023 2:51:36 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-60 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:00:00 AM

 Lab ID:
 2302999-038
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/28/2023 2:58:01 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 2:58:01 AM
Surr: DNOP	101	69-147	%Rec	1	2/28/2023 2:58:01 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/26/2023 12:38:46 AM
EPA METHOD 8260B: VOLATILES SHORT LIS	ST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/3/2023 3:18:37 AM
Toluene	ND	0.048	mg/Kg	1	3/3/2023 3:18:37 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/3/2023 3:18:37 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/3/2023 3:18:37 AM
Surr: 1,2-Dichloroethane-d4	97.6	70-130	%Rec	1	3/3/2023 3:18:37 AM
Surr: 4-Bromofluorobenzene	94.5	70-130	%Rec	1	3/3/2023 3:18:37 AM
Surr: Dibromofluoromethane	93.4	70-130	%Rec	1	3/3/2023 3:18:37 AM
Surr: Toluene-d8	98.0	70-130	%Rec	1	3/3/2023 3:18:37 AM
EPA METHOD 8015D MOD: GASOLINE RANG	Ε				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/3/2023 3:18:37 AM
Surr: BFB	100	70-130	%Rec	1	3/3/2023 3:18:37 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc. Client Sample ID: BS23-61 0'

Project: North Pure Gold 8 Federal 006 West **Collection Date:** 2/20/2023 11:05:00 AM 2302999-039 Lab ID: Matrix: SOIL **Received Date: 2/23/2023 7:30:00 AM**

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OI	RGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	2/28/2023 3:08:24 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 3:08:24 AM
Surr: DNOP	91.6	69-147	%Rec	1	2/28/2023 3:08:24 AM
EPA METHOD 300.0: ANIONS					Analyst: JMT
Chloride	ND	60	mg/Kg	20	2/26/2023 12:51:11 AM
EPA METHOD 8260B: VOLATILES SHORT I	LIST				Analyst: JR
Benzene	ND	0.024	mg/Kg	1	3/3/2023 3:45:37 AM
Toluene	ND	0.048	mg/Kg	1	3/3/2023 3:45:37 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/3/2023 3:45:37 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/3/2023 3:45:37 AM
Surr: 1,2-Dichloroethane-d4	101	70-130	%Rec	1	3/3/2023 3:45:37 AM
Surr: 4-Bromofluorobenzene	95.3	70-130	%Rec	1	3/3/2023 3:45:37 AM
Surr: Dibromofluoromethane	94.7	70-130	%Rec	1	3/3/2023 3:45:37 AM
Surr: Toluene-d8	95.4	70-130	%Rec	1	3/3/2023 3:45:37 AM
EPA METHOD 8015D MOD: GASOLINE RAM	NGE				Analyst: JR
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/3/2023 3:45:37 AM
Surr: BFB	102	70-130	%Rec	1	3/3/2023 3:45:37 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-62 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:05:00 AM

 Lab ID:
 2302999-040
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	2/28/2023 3:18:48 AM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	2/28/2023 3:18:48 AM
Surr: DNOP	96.7	69-147	%Rec	1	2/28/2023 3:18:48 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/28/2023 7:16:26 PM
Surr: BFB	97.6	37.7-212	%Rec	1	2/28/2023 7:16:26 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/28/2023 7:16:26 PM
Toluene	ND	0.050	mg/Kg	1	2/28/2023 7:16:26 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/28/2023 7:16:26 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/28/2023 7:16:26 PM
Surr: 4-Bromofluorobenzene	89.0	70-130	%Rec	1	2/28/2023 7:16:26 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 10:06:11 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-63 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:10:00 AM

 Lab ID:
 2302999-041
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE (ORGANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	2/28/2023 5:04:44 AM
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	2/28/2023 5:04:44 AM
Surr: DNOP	91.2	69-147	%Rec	1	2/28/2023 5:04:44 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2023 8:26:51 PM
Surr: BFB	103	37.7-212	%Rec	1	2/28/2023 8:26:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/28/2023 8:26:51 PM
Toluene	ND	0.048	mg/Kg	1	2/28/2023 8:26:51 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2023 8:26:51 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/28/2023 8:26:51 PM
Surr: 4-Bromofluorobenzene	94.7	70-130	%Rec	1	2/28/2023 8:26:51 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 10:18:35 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-64 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:10:00 AM

 Lab ID:
 2302999-042
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	2/28/2023 5:15:21 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 5:15:21 AM
Surr: DNOP	87.6	69-147	%Rec	1	2/28/2023 5:15:21 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2023 9:37:28 PM
Surr: BFB	100	37.7-212	%Rec	1	2/28/2023 9:37:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/28/2023 9:37:28 PM
Toluene	ND	0.048	mg/Kg	1	2/28/2023 9:37:28 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2023 9:37:28 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/28/2023 9:37:28 PM
Surr: 4-Bromofluorobenzene	92.7	70-130	%Rec	1	2/28/2023 9:37:28 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 10:31:00 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-65 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:15:00 AM

 Lab ID:
 2302999-043
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	2/28/2023 5:26:02 AM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	2/28/2023 5:26:02 AM
Surr: DNOP	89.2	69-147	%Rec	1	2/28/2023 5:26:02 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	2/28/2023 10:00:51 PM
Surr: BFB	103	37.7-212	%Rec	1	2/28/2023 10:00:51 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/28/2023 10:00:51 PM
Toluene	ND	0.050	mg/Kg	1	2/28/2023 10:00:51 PM
Ethylbenzene	ND	0.050	mg/Kg	1	2/28/2023 10:00:51 PM
Xylenes, Total	ND	0.10	mg/Kg	1	2/28/2023 10:00:51 PM
Surr: 4-Bromofluorobenzene	95.1	70-130	%Rec	1	2/28/2023 10:00:51 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	61	mg/Kg	20	2/27/2023 10:43:25 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-66 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:15:00 AM

 Lab ID:
 2302999-044
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/1/2023 7:47:06 PM
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/1/2023 7:47:06 PM
Surr: DNOP	89.0	69-147	%Rec	1	3/1/2023 7:47:06 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/28/2023 10:24:21 PM
Surr: BFB	102	37.7-212	%Rec	1	2/28/2023 10:24:21 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/28/2023 10:24:21 PM
Toluene	ND	0.049	mg/Kg	1	2/28/2023 10:24:21 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/28/2023 10:24:21 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/28/2023 10:24:21 PM
Surr: 4-Bromofluorobenzene	94.0	70-130	%Rec	1	2/28/2023 10:24:21 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/27/2023 10:55:49 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-67 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:20:00 AM

 Lab ID:
 2302999-045
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	l Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	NICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/1/2023 8:26:55 PM
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/1/2023 8:26:55 PM
Surr: DNOP	107	69-147	%Rec	1	3/1/2023 8:26:55 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2023 10:47:53 PM
Surr: BFB	101	37.7-212	%Rec	1	2/28/2023 10:47:53 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/28/2023 10:47:53 PM
Toluene	ND	0.048	mg/Kg	1	2/28/2023 10:47:53 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2023 10:47:53 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/28/2023 10:47:53 PM
Surr: 4-Bromofluorobenzene	92.5	70-130	%Rec	1	2/28/2023 10:47:53 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 10:23:01 AM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-68 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:20:00 AM

 Lab ID:
 2302999-046
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/1/2023 8:41:09 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/1/2023 8:41:09 PM
Surr: DNOP	97.2	69-147	%Rec	1	3/1/2023 8:41:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2023 11:11:28 PM
Surr: BFB	99.6	37.7-212	%Rec	1	2/28/2023 11:11:28 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/28/2023 11:11:28 PM
Toluene	ND	0.048	mg/Kg	1	2/28/2023 11:11:28 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2023 11:11:28 PM
Xylenes, Total	ND	0.095	mg/Kg	1	2/28/2023 11:11:28 PM
Surr: 4-Bromofluorobenzene	90.5	70-130	%Rec	1	2/28/2023 11:11:28 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 11:00:13 AM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-69 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:25:00 AM

 Lab ID:
 2302999-047
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	Analyst: DGH				
Diesel Range Organics (DRO)	ND	8.8	mg/Kg	1	3/1/2023 8:55:24 PM
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/1/2023 8:55:24 PM
Surr: DNOP	96.5	69-147	%Rec	1	3/1/2023 8:55:24 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	2/28/2023 11:35:06 PM
Surr: BFB	100	37.7-212	%Rec	1	2/28/2023 11:35:06 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.025	mg/Kg	1	2/28/2023 11:35:06 PM
Toluene	ND	0.049	mg/Kg	1	2/28/2023 11:35:06 PM
Ethylbenzene	ND	0.049	mg/Kg	1	2/28/2023 11:35:06 PM
Xylenes, Total	ND	0.099	mg/Kg	1	2/28/2023 11:35:06 PM
Surr: 4-Bromofluorobenzene	91.3	70-130	%Rec	1	2/28/2023 11:35:06 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 12:02:15 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-70 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:25:00 AM

 Lab ID:
 2302999-048
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	3/3/2023 11:26:14 AM
Motor Oil Range Organics (MRO)	ND	50	mg/Kg	1	3/3/2023 11:26:14 AM
Surr: DNOP	94.0	69-147	%Rec	1	3/3/2023 11:26:14 AM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	2/28/2023 11:58:40 PM
Surr: BFB	101	37.7-212	%Rec	1	2/28/2023 11:58:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	2/28/2023 11:58:40 PM
Toluene	ND	0.048	mg/Kg	1	2/28/2023 11:58:40 PM
Ethylbenzene	ND	0.048	mg/Kg	1	2/28/2023 11:58:40 PM
Xylenes, Total	ND	0.097	mg/Kg	1	2/28/2023 11:58:40 PM
Surr: 4-Bromofluorobenzene	92.2	70-130	%Rec	1	2/28/2023 11:58:40 PM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 12:14:40 PM

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

Qualifiers:

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

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Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-71 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:30:00 AM

 Lab ID:
 2302999-049
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/1/2023 9:23:15 PM
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/1/2023 9:23:15 PM
Surr: DNOP	92.5	69-147	%Rec	1	3/1/2023 9:23:15 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/1/2023 12:22:16 AM
Surr: BFB	103	37.7-212	%Rec	1	3/1/2023 12:22:16 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/1/2023 12:22:16 AM
Toluene	ND	0.049	mg/Kg	1	3/1/2023 12:22:16 AM
Ethylbenzene	ND	0.049	mg/Kg	1	3/1/2023 12:22:16 AM
Xylenes, Total	ND	0.097	mg/Kg	1	3/1/2023 12:22:16 AM
Surr: 4-Bromofluorobenzene	93.3	70-130	%Rec	1	3/1/2023 12:22:16 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 12:27:04 PM

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

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Analytical Report Lab Order 2302999

Date Reported: 3/7/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-72 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 2/20/2023 11:30:00 AM

 Lab ID:
 2302999-050
 Matrix: SOIL
 Received Date: 2/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst: DGH
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/1/2023 9:37:09 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/1/2023 9:37:09 PM
Surr: DNOP	101	69-147	%Rec	1	3/1/2023 9:37:09 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/1/2023 1:09:23 AM
Surr: BFB	102	37.7-212	%Rec	1	3/1/2023 1:09:23 AM
EPA METHOD 8021B: VOLATILES					Analyst: JJP
Benzene	ND	0.024	mg/Kg	1	3/1/2023 1:09:23 AM
Toluene	ND	0.048	mg/Kg	1	3/1/2023 1:09:23 AM
Ethylbenzene	ND	0.048	mg/Kg	1	3/1/2023 1:09:23 AM
Xylenes, Total	ND	0.095	mg/Kg	1	3/1/2023 1:09:23 AM
Surr: 4-Bromofluorobenzene	93.1	70-130	%Rec	1	3/1/2023 1:09:23 AM
EPA METHOD 300.0: ANIONS					Analyst: NAI
Chloride	ND	60	mg/Kg	20	2/28/2023 12:39:29 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999** *07-Mar-23*

Client:	Vertex Resources Services, Inc.
Project:	North Pure Gold 8 Federal 006 West

Project:	Nor	th Pure Gold 8 Federal 006 West			
Sample ID:	MB-73384	SampType: mblk	TestCode: EPA Method 3	300.0: Anions	
Client ID:	PBS	Batch ID: 73384	RunNo: 94885		
Prep Date:	2/25/2023	Analysis Date: 2/25/2023	SeqNo: 3429588	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	imit Qual
Chloride		ND 1.5			
Sample ID:	LCS-73384	SampType: Ics	TestCode: EPA Method 3	300.0: Anions	
Client ID:	LCSS	Batch ID: 73384	RunNo: 94885		
Prep Date:	2/25/2023	Analysis Date: 2/25/2023	SeqNo: 3429589	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	imit Qual
Chloride		14 1.5 15.00	0 94.8 90	110	
Sample ID:	MB-73385	SampType: mblk	TestCode: EPA Method 3	300.0: Anions	
Client ID:	PBS	Batch ID: 73385	RunNo: 94885		
Prep Date:	2/25/2023	Analysis Date: 2/25/2023	SeqNo: 3429590	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	imit Qual
Chloride		ND 1.5			
Sample ID:	LCS-73385	SampType: Ics	TestCode: EPA Method 3	300.0: Anions	
Client ID:	LCSS	Batch ID: 73385	RunNo: 94885		
Prep Date:	2/25/2023	Analysis Date: 2/25/2023	SeqNo: 3429591	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	imit Qual
Chloride		14 1.5 15.00	0 93.5 90	110	
Sample ID:	MB-73405	SampType: mblk	TestCode: EPA Method 3	300.0: Anions	
Client ID:	PBS	Batch ID: 73405	RunNo: 94908		
Prep Date:	2/27/2023	Analysis Date: 2/27/2023	SeqNo: 3431077	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	imit Qual
Chloride		ND 1.5			
Sample ID:	LCS-73405	SampType: Ics	TestCode: EPA Method 3	300.0: Anions	
Client ID:	LCSS	Batch ID: 73405	RunNo: 94908		
Prep Date:	2/27/2023	Analysis Date: 2/27/2023	SeqNo: 3431078	Units: mg/Kg	
Analyte		Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDL	imit Qual
Chloride		14 1.5 15.00	0 92.7 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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2302999

WO#:

07-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: LCS-73413 SampType: Ics

Client ID:

LCSS Batch ID: 73413 RunNo: 94937

Prep Date: 2/28/2023 Analysis Date: 2/28/2023 SeqNo: 3432174 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

TestCode: EPA Method 300.0: Anions

Chloride 14 1.5 15.00 0 93.0 90 110

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2302999

WO#:

07-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: LCS-73356	SampType: L	CS	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 7:	3356	F	RunNo: 9 4	894				
Prep Date: 2/23/2023	Analysis Date: 2	/27/2023	9	SeqNo: 34	30271	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42 10	50.00	0	85.0	61.9	130			
Surr: DNOP	4.2	5.000		83.2	69	147			
Sample ID: LCS-73375	SampType: L	cs	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 7:	3375	F	RunNo: 9 4	894				
Prep Date: 2/24/2023	Analysis Date: 2	/27/2023	5	SeqNo: 34	30272	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46 10	50.00	0	92.3	61.9	130			
Surr: DNOP	4.8	5.000		96.2	69	147			
Sample ID: LCS-73381	SampType: L	cs	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: LCSS	Batch ID: 7:	3381	F	RunNo: 9 4	894				
Prep Date: 2/24/2023	Analysis Date: 2	/27/2023	5	SeqNo: 34	30275	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	42 10	50.00	0	84.7	61.9	130			
Surr: DNOP	4.7	5.000		93.1	69	147			
Sample ID: MB-73356	SampType: M	BLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 7:	3356	F	RunNo: 9 4	894				
Prep Date: 2/23/2023	Analysis Date: 2	/27/2023	5	SeqNo: 34	30277	Units: mg/K	g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND 10								
Motor Oil Range Organics (MRO)	ND 50								
Surr: DNOP	8.1	10.00		81.4	69	147			
Sample ID: MB-73375	SampType: M	BLK	Tes	tCode: EP	A Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch ID: 73	3375	F	RunNo: 94	894				
Prep Date: 2/24/2023	Analysis Date: 2	/27/2023	5	SeqNo: 34	30278	Units: mg/K	g		
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	10	10.00		103	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999** *07-Mar-23*

07-Ma

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

				_						
Sample ID: MB-73381		ype: ME		les	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: PBS	Batch	1D: 73	381	F	RunNo: 94	1894				
Prep Date: 2/24/2023	Analysis D	ate: 2/	27/2023	5	SeqNo: 34	130281	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.2		10.00		91.7	69	147			
Sample ID: 2302999-021AMS	SampT	ype: MS	3	Tes	tCode: EF	A Method	8015M/D: Die	sel Range	Organics	
Client ID: BS23-43 0'	Batch	1D: 73	375	RunNo: 94894						
Prep Date: 2/24/2023	Analysis D	ate: 2/ 2	27/2023	(SeqNo: 34	131142	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	37	9.0	44.96	0	82.8	54.2	135			
Surr: DNOP	3.7		4.496		83.2	69	147			
Sample ID: 2302999-021AMS	D SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID: BS23-43 0'	Batch	1D: 73	375	F	RunNo: 9 4	1894				
Client ID: BS23-43 0' Prep Date: 2/24/2023	Batch Analysis D				RunNo: 9 4 SeqNo: 3 4		Units: mg/K	ζg		
			27/2023				Units: mg/K HighLimit	k g %RPD	RPDLimit	Qual
Prep Date: 2/24/2023	Analysis D	ate: 2/ 2	27/2023	\$	SeqNo: 34	131143		_	RPDLimit 29.2	Qual
Prep Date: 2/24/2023 Analyte	Analysis D Result	PQL	27/2023 SPK value	SPK Ref Val	SeqNo: 3 4 %REC	131143 LowLimit	HighLimit	%RPD		Qual
Prep Date: 2/24/2023 Analyte Diesel Range Organics (DRO)	Analysis D Result 38 3.8	PQL	27/2023 SPK value 44.56 4.456	SPK Ref Val 0	SeqNo: 34 %REC 84.9 85.2	LowLimit 54.2 69	HighLimit 135	%RPD 1.58 0	29.2	Qual
Prep Date: 2/24/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP	Analysis D Result 38 3.8 SampT	PQL 8.9	27/2023 SPK value 44.56 4.456	SPK Ref Val 0	SeqNo: 34 %REC 84.9 85.2	LowLimit 54.2 69 PA Method	HighLimit 135 147	%RPD 1.58 0	29.2	Qual
Prep Date: 2/24/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-73400	Analysis D Result 38 3.8 SampT	PQL 8.9 Type: LC	27/2023 SPK value 44.56 4.456 S 400	SPK Ref Val 0 Tes	%REC 84.9 85.2 tCode: EF	LowLimit 54.2 69 PA Method 1924	HighLimit 135 147	%RPD 1.58 0 esel Range	29.2	Qual
Prep Date: 2/24/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-73400 Client ID: LCSS	Analysis D Result 38 3.8 SampT Batch	PQL 8.9 Type: LC	27/2023 SPK value 44.56 4.456 S 400 28/2023	SPK Ref Val 0 Tes	%REC 84.9 85.2 tCode: EF RunNo: 9 4	LowLimit 54.2 69 PA Method 1924	HighLimit 135 147 8015M/D: Die	%RPD 1.58 0 esel Range	29.2	Qual
Prep Date: 2/24/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-73400 Client ID: LCSS Prep Date: 2/27/2023	Analysis D Result 38 3.8 SampT Batch Analysis D	PQL 8.9 Type: LC o ID: 73 4	27/2023 SPK value 44.56 4.456 S 400 28/2023	SPK Ref Val 0 Tes	%REC 84.9 85.2 tCode: EF RunNo: 94	LowLimit 54.2 69 PA Method 4924 431562	HighLimit 135 147 8015M/D: Die Units: mg/K	%RPD 1.58 0 esel Range	29.2 0 Organics	
Prep Date: 2/24/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-73400 Client ID: LCSS Prep Date: 2/27/2023 Analyte	Analysis D Result 38 3.8 SampT Batch Analysis D Result	PQL 8.9 Type: LC 10: 734 PQL PQL PQL	27/2023 SPK value 44.56 4.456 S 400 28/2023 SPK value	SPK Ref Val 0 Tes F SPK Ref Val	%REC 84.9 85.2 tCode: EF RunNo: 94 SeqNo: 34	LowLimit 54.2 69 PA Method 1924 131562 LowLimit	HighLimit 135 147 8015M/D: Die Units: mg/K HighLimit	%RPD 1.58 0 esel Range	29.2 0 Organics	
Prep Date: 2/24/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-73400 Client ID: LCSS Prep Date: 2/27/2023 Analyte Diesel Range Organics (DRO)	Analysis D Result 38 3.8 SampT Batch Analysis D Result 45 4.3	PQL 8.9 Type: LC 10: 734 PQL PQL PQL	27/2023 SPK value 44.56 4.456 S 400 28/2023 SPK value 50.00 5.000	SPK Ref Val 0 Tes F SPK Ref Val	%REC 84.9 85.2 tCode: EF RunNo: 9 4 %REC 89.5 86.1	LowLimit 54.2 69 PA Method 1924 131562 LowLimit 61.9 69	HighLimit 135 147 8015M/D: Die Units: mg/K HighLimit 130	%RPD 1.58 0 esel Range %g %RPD	29.2 0 Organics	
Prep Date: 2/24/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP Sample ID: LCS-73400 Client ID: LCSS Prep Date: 2/27/2023 Analyte Diesel Range Organics (DRO) Surr: DNOP	Analysis D Result 38 3.8 SampT Batch Analysis D Result 45 4.3 SampT	PQL 8.9 Sype: LC 1D: 734 PQL 10	27/2023 SPK value 44.56 4.456 \$ 400 28/2023 SPK value 50.00 5.000	SPK Ref Val 0 Tes SPK Ref Val 0 Tes	%REC 84.9 85.2 tCode: EF RunNo: 9 4 %REC 89.5 86.1	LowLimit 54.2 69 PA Method 1924 LowLimit 61.9 69 PA Method	HighLimit 135 147 8015M/D: Die Units: mg/K HighLimit 130 147	%RPD 1.58 0 esel Range %g %RPD	29.2 0 Organics	

Qualifiers:

Analyte

Surr: DNOP

Diesel Range Organics (DRO)

Motor Oil Range Organics (MRO)

- 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 Quanitative Limit

PQL

10

50

10.00

Result

ND

ND

8.3

B Analyte detected in the associated Method Blank

83.2

LowLimit

69

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

SPK value SPK Ref Val %REC

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%RPD

HighLimit

147

RPDLimit

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999** *07-Mar-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID:	2302999-001AMS	SampT	уре: М.	3	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BS23-23 0'	Batch	ID: 73	356	F	RunNo: 94	4957				
Prep Date:	2/23/2023	Analysis D	ate: 2/ :	27/2023	5	SeqNo: 34	433149	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
•	Organics (DRO)	41	9.4	46.82	0	87.0	54.2	135			
Surr: DNOP		4.6		4.682		99.3	69	147			
Sample ID:	2302999-001AMSD	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BS23-23 0'	Batch	ID: 73 3	356	F	RunNo: 94957					
Prep Date:	2/23/2023	Analysis D	ate: 2/ 2	27/2023	S	SeqNo: 34	433150	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Organics (DRO)	42	9.4	47.21	0	89.2	54.2	135	3.36	29.2	
Surr: DNOP		4.9		4.721		104	69	147	0	0	
Sample ID:	2302999-044AMS	SampT	уре: М\$	5	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BS23-66 0'	Batch	ID: 73 4	100	F	RunNo: 94954					
Prep Date:	2/27/2023	Analysis D	ate: 3/	1/2023	5	SeqNo: 34	433974	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (DRO)	44	9.9	49.50	0	88.8	54.2	135			
Surr: DNOP		4.0		4.950		81.5	69	147			
Sample ID:	2302999-044AMSD	SampT	ype: MS	SD.	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	BS23-66 0'	Batch	ID: 73 4	100	F	RunNo: 94	4954				
Prep Date:	2/27/2023	Analysis D	ate: 3/	1/2023	5	SeqNo: 34	433975	Units: mg/K	g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (DRO)	48	9.8	48.92	0	99.1	54.2	135	9.74	29.2	
Surr: DNOP		4.5		4.892		92.8	69	147	0	0	
Sample ID:	MB-73474	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	PBS	Batch	ID: 73 4	174	F	RunNo: 94	4965				
Prep Date:	3/2/2023	Analysis D	ate: 3/ 2	2/2023	5	SeqNo: 34	434009	Units: %Rec	:		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		8.4		10.00		84.0	69	147			
Sample ID:	LCS-73474	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015M/D: Die	sel Range	Organics	
Client ID:	LCSS	Batch	ID: 73 4	174	F	RunNo: 94	4965				
Prep Date:	3/2/2023	Analysis D	ate: 3/ 2	2/2023	5	SeqNo: 34	434010	Units: %Rec	;		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP		4.5		5.000		90.1	69	147			

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2302999

WO#:

07-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: MB-73456 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 73456 RunNo: 94965

Prep Date: 3/1/2023 Analysis Date: 3/2/2023 SeqNo: 3434451 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 11 10.00 113 69 147

Sample ID: LCS-73456 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 73456 RunNo: 94965

Prep Date: 3/1/2023 Analysis Date: 3/2/2023 SeqNo: 3434452 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 5.0 5.000 100 69 147

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999**

07-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: Ics-73354 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 73354 RunNo: 94903	
Client ID: LCSS Batch ID: 73354 RunNo: 94903	
Prep Date: 2/23/2023 Analysis Date: 2/27/2023 SeqNo: 3430672 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	imit Qual
Gasoline Range Organics (GRO) 25 5.0 25.00 0 101 72.3 137	_
Surr: BFB 2200 1000 222 37.7 212	S
Sample ID: mb-73354 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS Batch ID: 73354 RunNo: 94903	
Prep Date: 2/23/2023 Analysis Date: 2/27/2023 SeqNo: 3430673 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	imit Qual
Gasoline Range Organics (GRO) ND 5.0	
Surr: BFB 1100 1000 106 37.7 212	
Sample ID: Ics-73369 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range	
Client ID: LCSS Batch ID: 73369 RunNo: 94910	
Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431995 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	imit Qual
Gasoline Range Organics (GRO) 24 5.0 25.00 0 94.1 72.3 137	
Surr: BFB 2000 1000 198 37.7 212	
Sample ID: mb-73369 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range	
Client ID: PBS Batch ID: 73369 RunNo: 94910	
Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431996 Units: mg/Kg	
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	imit Qual
Gasoline Range Organics (GRO) ND 5.0	
Surr: BFB 1000 1000 100 37.7 212	
Sample ID: 2302999-040ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range	
Client ID: BS23-62 0' Batch ID: 73369 RunNo: 94910	
Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431998 Units: mg/Kg	
	imit Qual
Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDL	
Gasoline Range Organics (GRO) 23 4.9 24.70 0 92.5 70 130	
· · · · · · · · · · · · · · · · · · ·	
Gasoline Range Organics (GRO) 23 4.9 24.70 0 92.5 70 130	
Gasoline Range Organics (GRO) 23 4.9 24.70 0 92.5 70 130 Surr: BFB 1900 988.1 196 37.7 212	
Gasoline Range Organics (GRO) 23 4.9 24.70 0 92.5 70 130 Surr: BFB 1900 988.1 196 37.7 212 Sample ID: 2302999-040amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range	

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 Quanitative Limit
- S % Recovery outside of standard limits. If undiluted results may be estimated.
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2302999

WO#:

07-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: 2302999-040amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range Client ID: BS23-62 0' Batch ID: 73369 RunNo: 94910 Prep Date: 2/24/2023 Analysis Date: 2/28/2023 SeqNo: 3431999 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 23 5.0 24.78 92.3 70 130 0.0371 20 Surr: BFB 2000 991.1 198 37.7 212 0 0

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999**

07-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: Ics-73354	Samp	Гуре: LC :	S	Tes	tCode: EF	les				
Client ID: LCSS	Batcl	Batch ID: 73354			RunNo: 94903					
Prep Date: 2/23/2023	Analysis [Date: 2/2	27/2023	5	430697	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	95.8	80	120			
Toluene	0.96	0.050	1.000	0	95.8	80	120			
Ethylbenzene	0.97	0.050	1.000	0	96.9	80	120			
Xylenes, Total	2.9	0.10	3.000	0	96.5	80	120			
Surr: 4-Bromofluorobenzene	0.97		1.000		96.8	70	130			

Sample ID: mb-73354	Samp1	уре: МЕ	BLK	Tes	tCode: EF	I 8021B: Volatiles						
Client ID: PBS	Batcl	n ID: 73 3	354	F	4903							
Prep Date: 2/23/2023	Analysis D	Date: 2/ 2	27/2023	2023 SeqNo: 3430698 Ut				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: LCS-73369	Samp	Гуре: LC :	S	Tes	tCode: EF	A Method	l 8021B: Volatiles				
Client ID: LCSS	Batc	h ID: 73 3	369	F	RunNo: 94	1910					
Prep Date: 2/24/2023	Analysis [Date: 2/2	28/2023	5	SeqNo: 34	32010	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.82	0.025	1.000	0	81.9	80	120				
Toluene	0.84	0.050	1.000	0	83.9	80	120				
Ethylbenzene	0.83	0.050	1.000	0	83.2	80	120				
Xylenes, Total	2.5	0.10	3.000	0	83.0	80	120				
Surr: 4-Bromofluorobenzene	0.93		1.000		93.3	70	130				

Sample ID: mb-73369	Samp	SampType: MBLK			tCode: EF						
Client ID: PBS	Batc	h ID: 73 3	369	F	RunNo: 94910						
Prep Date: 2/24/2023	Analysis [Analysis Date: 2/28/2023			SeqNo: 34	432011	Units: mg/K	/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	ND	0.025									
Toluene	ND	0.050									
Ethylbenzene	ND	0.050									
Xylenes, Total	ND	0.10									
Surr: 4-Bromofluorobenzene	0.92		1.000		91.7	70	130				

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 2302999 07-Mar-23

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 West

Sample ID: 2302999-041ams Client ID: BS23-63 0'	·	Гуре: МS h ID: 73 3			tCode: EF RunNo: 9 4					
Prep Date: 2/24/2023	Analysis [28/2023		SeqNo: 34		Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9515	0	86.8	68.8	120			
Toluene	0.85	0.048	0.9515	0.01703	87.6	73.6	124			
Ethylbenzene	0.84	0.048	0.9515	0	88.2	72.7	129			
Xylenes, Total	2.5	0.095	2.854	0	88.7	75.7	126			
Surr: 4-Bromofluorobenzene	0.89		0.9515		93.4	70	130			

Sample ID: 2302999-041amsd	Samp	Гуре: МЅ	SD	TestCode: EPA Method 8021B: Volatiles						
Client ID: BS23-63 0'	Batc	h ID: 73 3	369	F	RunNo: 94	4910				
Prep Date: 2/24/2023	Analysis I	Date: 2/ 2	28/2023		SeqNo: 34	432015	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.024	0.9506	0	81.2	68.8	120	6.77	20	
Toluene	0.80	0.048	0.9506	0.01703	82.1	73.6	124	6.47	20	
Ethylbenzene	0.79	0.048	0.9506	0	83.3	72.7	129	5.80	20	
Xylenes, Total	2.4	0.095	2.852	0	83.3	75.7	126	6.38	20	
Surr: 4-Bromofluorobenzene	0.94		0.9506		98.4	70	130	0	0	

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999** *07-Mar-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: 2302999-002ams	SampT	SampType: MS4			tCode: EF	PA Method	8260B: Volati	les Short	List	
Client ID: BS23-24 0'	Batcl	h ID: 733	52	F	RunNo: 94	4969				
Prep Date: 2/23/2023	Analysis Date: 3/2/2023			9	SeqNo: 34	433629	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	0.9960	0	90.6	75.8	123			
Toluene	0.98	0.050	0.9960	0	97.9	68.3	130			
Ethylbenzene	1.0	0.050	0.9960	0	102	76.6	132			
Xylenes, Total	3.0	0.10	2.988	0	100	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.46		0.4980		92.7	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.4980		95.7	70	130			
Surr: Dibromofluoromethane	0.47		0.4980		95.3	70	130			
Surr: Toluene-d8	0.48		0.4980		96.7	70	130			

Sample ID: 2302999-002amsd	Samp	Гуре: МЅ	D4	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	List	
Client ID: BS23-24 0'	Batc	h ID: 733	352	F	RunNo: 94	1969				
Prep Date: 2/23/2023	Analysis [Date: 3/2	2/2023	5	SeqNo: 34	133630	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.025	0.9960	0	100	75.8	123	9.99	20	
Toluene	1.0	0.050	0.9960	0	103	68.3	130	4.63	20	
Ethylbenzene	1.0	0.050	0.9960	0	102	76.6	132	0.400	20	
Xylenes, Total	3.1	0.10	2.988	0	105	74.7	132	4.49	20	
Surr: 1,2-Dichloroethane-d4	0.50		0.4980		99.9	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.48		0.4980		95.5	70	130	0	0	
Surr: Dibromofluoromethane	0.50		0.4980		101	70	130	0	0	
Surr: Toluene-d8	0.48		0.4980		97.1	70	130	0	0	

Sample ID: Ics-73352	Samp	Гуре: LC	S4	Tes	tCode: EF	PA Method	8260B: Volati	iles Short	List	
Client ID: BatchQC	Batc	h ID: 73 3	352	F	RunNo: 94	1969				
Prep Date: 2/23/2023	Analysis [Date: 3/	1/2023	5	SeqNo: 34	133645	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.9	80	120			
Toluene	1.0	0.050	1.000	0	101	80	120			
Ethylbenzene	1.0	0.050	1.000	0	104	80	120			
Xylenes, Total	3.1	0.10	3.000	0	102	80	120			
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.4	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		96.3	70	130			
Surr: Dibromofluoromethane	0.47		0.5000		94.0	70	130			
Surr: Toluene-d8	0.48		0.5000		95.4	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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999**

07-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: mb-73352	Samp	Гуре: МВ	BLK	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	_ist	
Client ID: PBS	Batcl	h ID: 733	352	F	RunNo: 94	1969				
Prep Date: 2/23/2023	Analysis [Analysis Date: 3/1/2023			SeqNo: 34	133646	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.49		0.5000		98.1	70	130			
Surr: 4-Bromofluorobenzene	0.49		0.5000		98.5	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.1	70	130			
Surr: Toluene-d8	0.48		0.5000		96.2	70	130			

Sample ID: 2302999-021ams	Samp ⁻	Гуре: МЅ	64	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	List	
Client ID: BS23-43 0'	Batc	h ID: 73 3	366	F	RunNo: 94	4998				
Prep Date: 2/24/2023	Analysis [Date: 3/2	2/2023	9	SeqNo: 34	435174	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9785	0	93.1	75.8	123			
Toluene	0.95	0.049	0.9785	0	97.1	68.3	130			
Ethylbenzene	0.98	0.049	0.9785	0	100	76.6	132			
Xylenes, Total	2.9	0.098	2.935	0	97.3	74.7	132			
Surr: 1,2-Dichloroethane-d4	0.48		0.4892		98.2	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.4892		93.3	70	130			
Surr: Dibromofluoromethane	0.48		0.4892		98.6	70	130			
Surr: Toluene-d8	0.48		0.4892		99.1	70	130			

Sample ID: 2302999-021amsd	SampT	ype: MS	D4	TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: BS23-43 0'	Batch	n ID: 733	866	F	RunNo: 94	1998				
Prep Date: 2/24/2023	Analysis D	ate: 3/2	2/2023	5	SeqNo: 34	135175	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.94	0.024	0.9775	0	96.6	75.8	123	3.56	20	•
Toluene	0.99	0.049	0.9775	0	102	68.3	130	4.57	20	
Ethylbenzene	1.0	0.049	0.9775	0	103	76.6	132	2.61	20	
Xylenes, Total	3.0	0.098	2.933	0	101	74.7	132	3.52	20	
Surr: 1,2-Dichloroethane-d4	0.47		0.4888		95.6	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.46		0.4888		94.1	70	130	0	0	
Surr: Dibromofluoromethane	0.49		0.4888		100	70	130	0	0	
Surr: Toluene-d8	0.48		0.4888		98.9	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 Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999** *07-Mar-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: Ics-73366	Samp1	ype: LC:	S4	Tes	tCode: EF	PA Method	8260B: Volati	les Short I	List	
Client ID: BatchQC	Batcl	n ID: 733	866	F	RunNo: 94	1998				
Prep Date: 2/24/2023	Analysis D	Date: 3/2	2/2023	5	SeqNo: 34	I35194	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.4	80	120			
Toluene	0.93	0.050	1.000	0	93.0	80	120			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80	120			
Xylenes, Total	2.8	0.10	3.000	0	92.7	80	120			
Surr: 1,2-Dichloroethane-d4	0.51		0.5000		102	70	130			
Surr: 4-Bromofluorobenzene	0.46		0.5000		92.1	70	130			
Surr: Dibromofluoromethane	0.48		0.5000		96.2	70	130			
Surr: Toluene-d8	0.50		0.5000		100	70	130			

Sample ID: mb-73366	Samp ⁻	Туре: МЕ	BLK	Tes	stCode: EF	PA Method	8260B: Volat	iles Short	List	
Client ID: PBS	Batc	h ID: 73 :	366	F	RunNo: 94	4998				
Prep Date: 2/24/2023	Analysis [Date: 3/ 3	2/2023	;	SeqNo: 34	435195	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.48		0.5000		96.0	70	130			
Surr: 4-Bromofluorobenzene	0.48		0.5000		95.4	70	130			
Surr: Dibromofluoromethane	0.49		0.5000		98.4	70	130			
Surr: Toluene-d8	0.49		0.5000		97.8	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
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

2302999

WO#:

07-Mar-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Commis ID:		Camar	·		Т	40 a day 5 5		00450.14			
	2302999-001ams		ype: MS					8015D Mod:	Gasoline R	ange	
Client ID:	BS23-23 0'		1D: 73			RunNo: 94			•		
Prep Date:	2/23/2023	Analysis D		2/2023		SeqNo: 34		Units: mg/k	v g		
Analyte	. O (ODO)	Result	PQL	SPK value		%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	e Organics (GRO)	21 490	4.9	24.27 485.4	0	87.8 101	65.9 70	123 130			
Oun: Bi B		400		700.7							
Sample ID:	2302999-001amsd	SampT	ype: MS	SD				8015D Mod:	Gasoline R	lange	
Client ID:	BS23-23 0'	Batch	1D: 73 3	352	F	RunNo: 94	4969				
Prep Date:	2/23/2023	Analysis D	ate: 3/ 2	2/2023	5	SeqNo: 34	433727	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	21	4.9	24.37	0	88.1	65.9	123	0.753	20	
Surr: BFB		490		487.3		101	70	130	0	0	
Sample ID:	lcs-73352	SampT	ype: LC	S	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline R	lange	
Client ID:	LCSS	Batch	1D: 73 3	352	F	RunNo: 94	4969				
Prep Date:	2/23/2023	Analysis D	ate: 3/	1/2023	9	SeqNo: 34	433743	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
,	e Organics (GRO)	23	5.0	25.00	0	92.2	70	130			
Surr: BFB		490		500.0		98.5	70	130			
Sample ID:	mb-73352	SampT	ype: ME	BLK	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline R	ange	
Client ID:	PBS	Batch	i ID: 73 3	352	F	RunNo: 9 4	4969			-	
Prep Date:	2/23/2023	Analysis D	ate: 3/	1/2023	Ş	SeqNo: 34	433744	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	ND	5.0			,,,,,		g			
Surr: BFB		510		500.0		102	70	130			
Sample ID:	2302999-020ams	SampT	уре: м .s	3	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline R	lange	
Client ID:	BS23-42 0'		i ID: 73 3			RunNo: 94				Ü	
Prep Date:	2/24/2023	Analysis D	ate: 3/ 2	2/2023	5	SeqNo: 34	435219	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	22	5.0	24.93	0	86.8	65.9	123			
Surr: BFB	•	510		498.5		101	70	130			
Sample ID:	2302999-020amsd	SampT	ype: MS	SD	Tes	tCode: EF	PA Method	8015D Mod:	Gasoline R	lange	
Client ID:	BS23-42 0'	•	D: 73 3			RunNo: 94		- 7-		J	
Prep Date:	2/24/2023	Analysis D				SeqNo: 34		Units: mg/k	(g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Analyte		I/G9UII	ΓŲL	JEN Value	OF N NEI VAI	/0INEU	LOWLIIIII	riigiiLiiiil	/0KFU	KEDLIIIII	Qual

Qualifiers:

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

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2302999** *07-Mar-23*

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

	2302999-020amsd	•	уре: МЅ					8015D Mod: (Gasoline R	ange	
Client ID:	BS23-42 0'	Batch	n ID: 73 3	366	F	RunNo: 94	1998				
Prep Date:	2/24/2023	Analysis D	Date: 3/2	2/2023	5	SeqNo: 34	135220	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	5.0	24.90	0	89.3	65.9	123	2.76	20	
Surr: BFB		500		498.0		101	70	130	0	0	
Sample ID:	lcs-73366	SampT	ype: LC	s	Tes	tCode: EF	PA Method	8015D Mod: (Gasoline R	ange	
Client ID:	LCSS	Batch	n ID: 73 3	366	F	RunNo: 94	1998				
Prep Date:	2/24/2023	Analysis D	Date: 3/2	2/2023	5	SeqNo: 34	135240	Units: mg/K	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	22	5.0	25.00	0	89.6	70	130			
Surr: BFB		510		500.0		102	70	130			
Sample ID:	mb-73366	SampT	уре: МЕ	BLK	TestCode: EPA Method 8015D Mod: Gasoline Range						
Client ID:	PBS	Batch	n ID: 73 3	366	RunNo: 94998						

Prep Date: 2/24/2023	Analysis D	Date: 3/2	2/2023	5	SeqNo: 34	135241	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	520		500.0		103	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 Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 65 of 65

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Released to Imaging: 3/19/2024 2:01:11 PM

	ertex Resources ervices, Inc.	Work Order Num	ber: 2302999		RcptNo: 1	
Received By:	Fracy Casarrubias	2/23/2023 7:30:00				
Completed By:	Fracy Casarrubias	2/23/2023 8:50:24	AM			
Reviewed By:	KPG	2.23.23	,			
Chain of Custo	<u>dy</u>					
1. Is Chain of Cust	ody complete?		Yes	No 🗹	Not Present	
2. How was the sai	mple delivered?		Courier			
<u>Log In</u>						
3. Was an attempt	made to cool the san	nples?	Yes 🗹	No 🗌	NA 🗌	
4. Were all samples	s received at a tempe	erature of >0° C to 6.0°C	Yes 🔽	No 🗆	na 🗆	
5. Sample(s) in pro	per container(s)?		Yes 🗹	No 🗌		
6. Sufficient sample	volume for indicated	test(s)?	Yes 🗹	No 🗆		
7. Are samples (exc	ept VOA and ONG)	properly preserved?	Yes 🗹	No 🗌		
8. Was preservative	e added to bottles?		Yes 🗌	No 🗹	NA 🗌	
9. Received at least	1 vial with headspace	ce <1/4" for AQ VOA?	Yes 🗌	No 🗆	NA 🗹	
10. Were any sample	e containers received	i broken?	Yes 🗌		# of preserved	
11.Does paperwork (Note discrepanc	match bottle labels? ies on chain of custo	dy)	Yes 🗸		oottles checked for pH:	unless noted)
12. Are matrices corr	ectly identified on Ch	nain of Custody?	Yes 🗹	No 🗌	Adjusted?	
13. Is it clear what ar	nalyses were request	ed?	Yes 🗹	No 🗆	The	alah
14. Were all holding to (If no, notify custo)	times able to be met? omer for authorization		Yes 🗹	No 🗆	Checked by:	2/18/2
Special Handling	g (if applicable)			, i		
15. Was client notifie	ed of all discrepancie	s with this order?	Yes 🗌	No 🗌	NA 🗹	
Person No	tified:	Date:				
By Whom:		Via:	☐ eMail ☐ P	hone 🗌 Fax 📗] In Person	
Regarding:	and the same of th					
Client Instr	uctions:					
16. Additional rema	rks:					
17. Cooler Informa		- 1011-1-1	0.10.	0: 10		
	Temp °C Conditio	n Seal Intact Seal No Yes Morty	Seal Date	Signed By		
	,000	. oo worty	1100			

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Client:		Vertex		X Standard	K Rush 5 000	50 BW			, –	A	ANAL	YSIS	S	A	OR	ABORATORY	2
		(direct bil	(direct bill to Devon)	Project Name:						§	v.hall	enviro	nme	www.hallenvironmental.com	ε		
Mailing Address:	ddress			North Pure G		8 Federal #006, West		4901	Hav	4901 Hawkins NE	삦	Albu	querq	ue, N	Albuquerque, NM 87109	0	
				Project #:				Tel.	505	Tel. 505-345-3975	975	Fa	× 50	Fax 505-345-4107	4107		
Phone #:				22E-02816-07							⋖	alys	s Re	Analysis Request	H	-	
email or Fax#:	ax#:			Project Manager:	er:		(1:					[⊅] OS	-	(jue	_		
QA/QC Package:	ckage:			Kent Stallings			S 0 8)		 s.g.:	SWI		O [¢] ' 3	_	sdA			
□ Standard	ard		☐ Level 4 (Full Validation)	kstallings@vertex.ca	tex.ca		s's					d 'z		/дue			
Accreditation:	tion:	☐ Az Co	mpliance	Sampler:	L.Pullman	K. No monday	IMT /					ON					
EDD (Type	7 7 70 9)			# of Coolers:			BE										
	- / 2 d f .			Cooler Temp(Including CF):	-	0-0.1-0.9%	TM										
Date T	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.	X∃TEX /	·08:H9T	99 1808 	M) 803 d sHA9	з АЯЭЯ	CI, F, E	V) 0828 8) 0728	O leto T			
	30	Soil	BS23-23 0'			001	×	×				×					
02/20/23	9:30	Soil	BS23-24 0'	1, 4oz jar		700	×	×				×					
02/20/23	9:35	Soil	BS23-25 0'	1, 4oz jar		503	×	×				×					
02/20/23	9:35	Soil	BS23-26 0'	1, 4oz jar		750	×	×				×					
02/20/23	9:40	Soil	BS23-27 0'	1, 4oz jar		603	×	×				×					
02/20/23	9:40	Soil	BS23-28 0'	1, 4oz jar		900	×	×	_			×			\dashv		
02/20/23	9:45	Soil	BS23-29 0'	1, 4oz jar		£99	×	×		\dashv		×	\dashv				
02/20/23	9:45	Soil	BS23-30 0'	1, 4oz jar		900	×	×		_		×	\dashv				
02/20/23	9:50	Soil	BS23-31 0'	1, 4oz jar		669	×	×		\dashv		×					
02/20/23	9:50	Soil	BS23-32 0'	1, 4oz jar		010	×	×		-		×	-				
02/20/23	9:55	Soil	BS23-33 0'	1, 4oz jar		01/10	×	×		\dashv		×	_				
02/20/23	9:55	Soil	BS23-34 0'	1, 4oz jar		219	×	×				×					
Date:	Time:	Relinquish	i	Received by:	Via:	Date Time	Re	Remarks			Č	14/2	= 0				
3	D0:4	である		JAMMAN	رجي/	122 3 70	<u> </u>	Direct bill to Devon, Dale woodall cc. kstallings@vertex.ca for Final	ings(evor Øver	ex.c	for	ogall Final	Direct bill to Devon, Dale Woodall cc. kstallings@vertex.ca for Final Report		•	
Date:	Time:	Relinquished by	led by:	Received by:	via. coon	3/25/23 T.30										_	4
72/22 190	210						_										,

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contral

Page 595 of 624 **ANALYSIS LABORATORY** HALL ENVIRONMENTAL KRush 5 Day Turn-Around Time: Standard Project Name: Receive Chall: 382 Chilitaty Record (direct bill to Devon) Vertex

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

North Pure Gold 8 Federal #006, West

Mailing Address:

							ī					-				
				Project #:				He H	Tel. 505-345-3975	45-39	75	Fax (505-34	505-345-4107		
Phone #:	#:			22E-02816-07							Ana	Analysis Request	Seque	st		H
email or Fax#:	r Fax#:			Project Manager			(1	(C	L		PO P		-	()ı		Г
QA/QC	QA/QC Package:			Kent Stallings			305		s,g	SN	S '*			nzeı		
□ Standard	dard		☐ Level 4 (Full Validation)	kstallings@vertex.ca	x.ca		3) s,		Dd.	VIS0	Od		V/1-			
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	EDD (Type)			# of Coolers:			BE T) III		
				Cooler Temp(including CF):	ding CF): 0	-0.1= 0.9-	ΙΤΜ							101110		
Date	Time	Matrix	Sample Name	Container Prese Type and # Type	Preservative Type	7202999	\ X3T8	108:H9T	8081 Pe EDB (Ma	(d εHA9	RCRA 8	v) 0928	S) 07S8	oO letoT		
02/20/23	10:00	Soil	BS23-35 0'	1, 4oz jar		510	×	×	_	₩						
02/20/23	10:00	Soil	BS23-36 0'	1, 4oz jar		0,14	×	×			×					
02/20/23	10:05	Soil	BS23-37 0'	1, 4oz jar		015	×	×			×					
02/20/23	10:05	Soil	BS23-38 0'	1, 4oz jar		310	×	×			×		-			
02/20/23	10:10	Soil	BS23-39 0'	1, 4oz jar		410	×	×			×					
02/20/23	10:10	Soil	BS23-40 0'	1, 4oz jar		018	×	×			×					
02/20/23	10:15	Soil	BS23-41 0'	1, 4oz jar		610	×	×			×					
02/20/23	10:15	Soil	BS23-42 0'	1, 4oz jar		070	×	×			×					
02/20/23	10:20	Soil	BS23-43 0'	1, 4oz jar)	120	×	×			×					
02/20/23	10:20	Soil	BS23-44 0'	1, 4oz jar)	120	×	×			×					
02/20/23	10:25	Soil	BS23-45 0'	1, 4oz jar)	613	×	×			×		-			
23	10:25	Soil	BS23-46 0'	1, 4oz jar)	h20	×	×			×		_			
Date:	Time:	Relinquished by		>	ia:	Date Time	Ren	Remarks:								
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Ŧ	necessary,	samples sub	If necessary, samples submitted to Hall Environmental may be subcontracted to other secret	untracted to other seeres	ted laboratories	S. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report	issod si	oility. An	/ sub-con	racted d	ata will b	e clearly	notated	on the analy	tical report.]

appraiones. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Page 596 of 624

HALL ENVIRONMENTAL K Rush 5 Daw Turn-Around Time: 💢 Standard Receive Crigff - 342 CUSTBC PRecord Vertex Client:

ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107

North Pure Gold 8 Federal #006, West

Project #:

Project Name:

(direct bill to Devon)

Mailing Address:

Phone #:	#:			22E-02816-07							Ana	Analysis Request	Requ	est			
email or Fax#:	r Fax#:			Project Manager:	er:		()	(0			0			(ju			-
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□ NELAC	AC	□ Other		On Ice:	∐ Yes □	HYDWY ON E	L /			10			(AC	기Ч)			
	EDD (Type)			# of Coolers:	1		38.			018)Λ-	ı.w			
				Cooler Temp(Including CF):	luding CF): 1.Q	-0.12 0.9	TM			58 y			imə	olilo			
Date	Time	Matrix	Sample Name	Container Programmer Type and #	Preservative Type	HEAL NO.	/ ХЭТ8	08:H9T	8081 Pe	d sHAq	RCRA 8	V) 0928	S) 07 <u>5</u> 8	Total Co			· ·
02/20/23	10:30	Soil	BS23-47 0'	1, 4oz jar	0	025	×	×			×						
02/20/23	10:30	Soil	BS23-48 0'	1, 4oz jar	0	220	×	×			×						
02/20/23	10:35	Soil	BS23-49 0'	1, 4oz jar	0	たの	×	×			×						
02/20/23	10:35	Soil	BS23-50 0'	1, 4oz jar	0	018	×	×			×						
02/20/23 10:40	10:40	Soil	BS23-51 0'	1, 4oz jar	0	620	×	×			×						
02/20/23	10:40	Soil	BS23-52 0'	1, 4oz jar	Ø	030	×	×			×						
02/20/23	10:45	Soil	BS23-53 0'	1, 4oz jar	3	08(×	×			×						
02/20/23	10:45	Soil	BS23-54 0'	1, 4oz jar	Ç	037	×	×			×						
02/20/23	10:50	Soil	BS23-55 0'	1, 4oz jar	3	033	×	×			×						
02/20/23	10:50	Soil	BS23-56 0'	1, 4oz jar	5	<i>ો</i> મ	×	×			×						
02/20/23	10:55	Soil	BS23-57 0'	1, 4oz jar	0	S.S.	×	×			×						_
02/20/23	10:55	Soil	BS23-58 0'	1, 4oz jar	0	<i>ব</i>	×	×			×						
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	f necessary.	all selumes	If necessary, samples submitted to Hall Environment may be subcontract	parage administratorio	11.3	ad Jaharatoriae This serves as notice of this passibility	lidisada a		odt og hettere vienele od like stale betendene den ver	hotoca	live, Otol	10000	24040	20 04+ 00 0	or located or	100	

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

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Client:		Vertex		X Standard	V Rush	W Rush 5 Dew	Ц			A	₹	ξ.	IS	2	ANALYSIS LABORATORY	RY
		(direct bil	(direct bill to Devon)	Project Name:		7				§	w.ha	llenv	ronn	www.hallenvironmental.com	com	
Mailing Address	dress:			North Pure Gold		8 Federal #006, West		4901	Hav	4901 Hawkins NE		- Alb	anbn	rque,	Albuquerque, NM 87109	
				Project #:				e He	505	Tel. 505-345-3975	3975	۳	Fax	05-3	505-345-4107	
Phone #:				22E-02816-07					-			Analysis		Request	st	
email or Fax#:	ax#:			Project Manager	jer:		(12			_		[†] OS		-	Oue	
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☐ Standard	p.		☐ Level 4 (Full Validation)	kstallings@vertex.ca	rtex.ca		s,g					d 'z				-
Accreditation:		☐ Az Col	Az Compliance Other	Sampler: On Ice:	L.Pullman , H	No Marty	IMT \	(O / DI	808\s 	(1.40a		ON "		(AC	Preso	
□ EDD (Type)				# of Coolers:			BE					1O ²	()/\-!		_
				Cooler Temp(including CF): 1	ncluding CF): 0	-0.12 0.9°C	TM					3r, 1	AO	wə	01110	
				Container	Preservative	HEAL No.	/ X3				AA:	E' E	۸) 09	S) 02	ISI C	
Date Ti	Time	Matrix	Sample Name	#	Туре	230	IT8		\rightarrow		_	Cl'	826	28	101	
02/20/23 1	11:00	Soil	BS23-59 0'	1, 4oz jar		03F	×	×	-	\dashv	\dashv	×				
02/20/23	11:00	Soil	BS23-60 0'	1, 4oz jar		030	×	×		_		×				
02/20/23	11:05	Soil	BS23-61 0'	1, 4oz jar		035	×	×		\dashv		×				
02/20/23	11:05	Soil	BS23-62 0'	1, 4oz jar		oto	×	×	-	-	_	×				
02/20/23	11:10	Soil	BS23-63 0'	1, 4oz jar		٥٨١	×	×		_		×		7		
02/20/23	11:10	Soil	BS23-64 0'	1, 4oz jar		240	×	×	\dashv			×				
02/20/23	11:15	Soil	BS23-65 0'	1, 4oz jar		043	×	×			_	×				
02/20/23	11:15	Soil	BS23-66 0'	1, 4oz jar		०१५	×	×		\dashv	_	×		1		
02/20/23	11:20	Soil	BS23-67 0'	1, 4oz jar		ods	×	×		_		×		\dashv		
02/20/23	11:20	Soil	BS23-68 0'	1, 4oz jar		0/0	×	×		-	_	×				
02/20/23	11:25	Soil	BS23-69 0'	1, 4oz jar		ماله	×	×		-		×				
23	11:25	Soil	BS23-70 0'	1, 4oz jar		040	×	×	\dashv	\dashv	_	×				
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con	900	alas				2/23/25 F.20										7
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Receive CingGR=3812CUSt6549 Record	Turn-Around Time:	Page 598 of 624
Client: Vertex	Standard Rush 5000	HALL ENVIRONMENTAL
(direct bill to Devon)		www.hallenvironmental.com
Mailing Address:	North Pure Gold 8 Federal #006. West	4901 Hawkins NF - Albuquerus NM 87109
	Project #:	
Phone #:	22E-02816-07	Analysis
email or Fax#:	Project Manager:	((
QA/QC Package:	Kent Stallings	SI SI SI SI SI SI SI SI SI SI SI SI SI S
☐ Standard ☐ Level 4 (Full Validation)	kstallings@vertex.ca	PO,
Accreditation: Az Compliance NELAC Other	lan , NK	7 / DR (1.4.1) (1.8270 (1.8270)
□ EDD (Type)	olers: \	AOV
	Cooler Temp(including CF): 1.0 -0.12 0.4 C	ioibe orthe y 83 BM io, N (AC)
Date Time Matrix Sample Name	Container Preservative HEAL No.	TEX / PH:801 DB (Mi AHs b) 250 (Ve 270 (Se 270 (Se)
Soil	5.50	88
02/20/23 11:30 Soil BS23-72 0'	1, 40z jar	×
Date: Time: Relinquehed by:	Via: Date Time	Remarks: Direct bill to Devon, Dale Woodall
Relinquished by:	actions Date Time	cc. kstallings@vertex.ca for Final Report
haps 1900 apren	4/23/21 7:34	9/0

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



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

May 26, 2023

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

FAX

RE: North Pure Gold 8 Federal 006 West OrderNo.: 2305B55

Dear Kent Stallings:

Hall Environmental Analysis Laboratory received 2 sample(s) on 5/23/2023 for the analyses presented in the following report.

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

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

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

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Analytical ReportLab Order **2305B55**

Date Reported: 5/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-47 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 5/19/2023 7:35:00 AM

 Lab ID:
 2305B55-001
 Matrix: SOIL
 Received Date: 5/23/2023 7:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORGA	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	5/24/2023 9:16:36 PM
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	5/24/2023 9:16:36 PM
Surr: DNOP	114	69-147	%Rec	1	5/24/2023 9:16:36 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2023 10:42:16 PM
Surr: BFB	85.6	15-244	%Rec	1	5/24/2023 10:42:16 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.025	mg/Kg	1	5/25/2023 12:49:00 PM
Toluene	ND	0.049	mg/Kg	1	5/25/2023 12:49:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/25/2023 12:49:00 PM
Xylenes, Total	ND	0.099	mg/Kg	1	5/25/2023 12:49:00 PM
Surr: 4-Bromofluorobenzene	87.9	39.1-146	%Rec	1	5/25/2023 12:49:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	5/24/2023 7:36:46 PM

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

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

QL Practical Quanitative Limit

S % Recovery outside of standard limits. If undiluted results may be estimated.

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 8

Analytical ReportLab Order **2305B55**

Date Reported: 5/26/2023

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: BS23-52 0'

 Project:
 North Pure Gold 8 Federal 006 West
 Collection Date: 5/19/2023 7:40:00 AM

 Lab ID:
 2305B55-002
 Matrix: SOIL
 Received Date: 5/23/2023 7:30:00 AM

Analyses	Result	RL Qua	al Units	DF	Date Analyzed
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst: PRD
Diesel Range Organics (DRO)	ND	8.7	mg/Kg	1	5/24/2023 9:27:33 PM
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	5/24/2023 9:27:33 PM
Surr: DNOP	118	69-147	%Rec	1	5/24/2023 9:27:33 PM
EPA METHOD 8015D: GASOLINE RANGE					Analyst: JJP
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/24/2023 11:05:40 PM
Surr: BFB	87.2	15-244	%Rec	1	5/24/2023 11:05:40 PM
EPA METHOD 8021B: VOLATILES					Analyst: KMN
Benzene	ND	0.024	mg/Kg	1	5/25/2023 1:10:00 PM
Toluene	ND	0.049	mg/Kg	1	5/25/2023 1:10:00 PM
Ethylbenzene	ND	0.049	mg/Kg	1	5/25/2023 1:10:00 PM
Xylenes, Total	ND	0.098	mg/Kg	1	5/25/2023 1:10:00 PM
Surr: 4-Bromofluorobenzene	86.5	39.1-146	%Rec	1	5/25/2023 1:10:00 PM
EPA METHOD 300.0: ANIONS					Analyst: CAS
Chloride	ND	60	mg/Kg	20	5/24/2023 9:53:17 PM

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

Qualifiers:

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

Page 2 of 8

Hall Environmental Analysis Laboratory, Inc.

26-May-23

2305B55

WO#:

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 West

Sample ID: MB-75144 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75144 RunNo: 96996

SeqNo: 3520026 Prep Date: 5/24/2023 Analysis Date: 5/24/2023 Units: mq/Kq

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Chloride ND 1.5

Sample ID: LCS-75144 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75144 RunNo: 96996

Prep Date: 5/24/2023 Analysis Date: 5/24/2023 SeqNo: 3520028 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Chloride 14 1.5 15.00 92.3 110

Sample ID: MB-75159 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 75159 RunNo: 96996

Prep Date: 5/24/2023 Analysis Date: 5/24/2023 SeqNo: 3520080 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-75159 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 75159 RunNo: 96996

Analysis Date: 5/24/2023 Prep Date: 5/24/2023 SeqNo: 3520082 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride 14 1.5 15.00 n 94.8 90 110

Qualifiers:

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

Page 3 of 8

Sample ID: 2305B55-002AMS

Hall Environmental Analysis Laboratory, Inc.

SampType: MS

WO#: **2305B55**

26-May-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

•	' ''						Ū	Ū	
Client ID: BS23-52 0'	Batch ID: 75	5133	F	RunNo: 9	7001				
Prep Date: 5/23/2023	Analysis Date: 5	/25/2023	\$	SeqNo: 3	519502	Units: mg/h	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	39 9.8	48.97	0	78.6	54.2	135			
Surr: DNOP	3.9	4.897		78.6	69	147			
Sample ID: 2305B55-002AN	ISD SampType: M	SD	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: BS23-52 0'	Batch ID: 75	5133	F	RunNo: 9	7001				
Prep Date: 5/23/2023	Analysis Date: 5	/25/2023	8	SeqNo: 3	519505	Units: mg/k	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	40 8.9	44.64	0	88.5	54.2	135	2.54	29.2	
Surr: DNOP	4.3	4.464		96.0	69	147	0	0	
Sample ID: LCS-75133	SampType: L (cs	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: LCSS	Batch ID: 75	5133	F	RunNo: 9	7001				
Prep Date: 5/23/2023	Analysis Date: 5	/24/2023	8	SeqNo: 3	519507	Units: mg/h	(g		
Analyte	Result PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	57 10	50.00	0	114	61.9	130			
Surr: DNOP	6.2	5.000		124	69	147			
Sample ID: LCS-75146	SampType: L (cs	Tes	tCode: El	PA Method	8015M/D: Di	esel Rang	e Organics	
Client ID: 1 000	Datab ID: 70		-		7004				

TestCode: EPA Method 8015M/D: Diesel Range Organics

Sample ID: LCS-75146	SampType: LCS	TestCode: EPA Method	8015M/D: Diesel Range	e Organics
Client ID: LCSS	Batch ID: 75146	RunNo: 97001		
Prep Date: 5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3519508	Units: %Rec	
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD	RPDLimit Qual
Surr: DNOP	5.0 5.000	100 69	147	

Sample ID: MB-75133	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015M/D: Die	esel Range	e Organics	
Client ID: PBS	Batch	ID: 75	133	F	RunNo: 9	7001				
Prep Date: 5/23/2023	Analysis D	ate: 5/	24/2023	8	SeqNo: 3	519510	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	9.5		10.00		94.9	69	147			

Sample ID: MB-75146	SampType: MBLK	TestCode: EPA Method	TestCode: EPA Method 8015M/D: Diesel Range Organics										
Client ID: PBS	Batch ID: 75146	RunNo: 97001											
Prep Date: 5/24/2023	Analysis Date: 5/24/2023	SeqNo: 3519511	Units: %Rec										
Analyte	Result PQL SPK value S	PK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual										

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- B Analyte detected in the associated Method Blank
- E Above Quantitation Range/Estimated Value
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **2305B55**

26-May-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: MB-75146 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 75146 RunNo: 97001

Prep Date: 5/24/2023 Analysis Date: 5/24/2023 SeqNo: 3519511 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 11 10.00 106 69 147

Qualifiers:

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

Page 5 of 8

Sample ID: mb-75127

Hall Environmental Analysis Laboratory, Inc.

SampType: MBLK

1900

2305B55 26-May-23

WO#:

Client: Vertex Resources Services, Inc. **Project:** North Pure Gold 8 Federal 006 West

Sample ID: Ics-75127 SampType: LCS				TestCode: EPA Method 8015D: Gasoline Range										
Client ID: LCSS Batch ID: 75127 RunNo: 96974														
Prep Date: 5/23/2023	Analysis D	oate: 5/ 2	24/2023	SeqNo: 3519391			Units: mg/K	(g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.3	70	130							
Surr: BFB	5000		1000		496	15	244			S				

Client ID: PBS Batch ID: 75127 RunNo: 96974 Prep Date: 5/23/2023 Analysis Date: 5/24/2023 SeqNo: 3519392 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 910 1000 90.8 15 244

TestCode: EPA Method 8015D: Gasoline Range

TestCode: EPA Method 8015D: Gasoline Range Sample ID: mb-75132 SampType: MBLK Client ID: PBS Batch ID: 75132 RunNo: 97020 Prep Date: 5/23/2023 Analysis Date: 5/25/2023 SeqNo: 3521524 Units: %Rec PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Surr: BFB 900 1000 90.2 15 244

Sample ID: Ics-75132 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 75132 RunNo: 97020 Analysis Date: 5/25/2023 Prep Date: 5/23/2023 SeqNo: 3521525 Units: %Rec Analyte Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

190

15

244

1000

Qualifiers:

Surr: BFB

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

Page 6 of 8

Hall Environmental Analysis Laboratory, Inc.

ND

ND

0.050

0.050

WO#: **2305B55**

26-May-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: LCS-75127	Samp1	ype: LC	s	Tes	PA Method	od 8021B: Volatiles									
Client ID: LCSS	Batc	h ID: 75	127	F	RunNo: 9										
Prep Date: 5/23/2023	Analysis [Date: 5/	24/2023	\$	SeqNo: 3	519397	Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	0.85	0.025	1.000	0	85.2	70	130								
Toluene	0.88	0.050	1.000	0	87.9	70	130								
Ethylbenzene	0.89	0.050	1.000	0	89.0	70	130								
Xylenes, Total	2.7	0.10	3.000	0	89.2	70	130								
Surr: 4-Bromofluorobenzene	0.99		1.000		99.1	39.1	146								
Sample ID: mb-75127	Tes	tCode: El	PA Method	8021B: Volat	iles										
Client ID: PBS	Batc	127	F	RunNo: 9											
Prep Date: 5/23/2023	Analysis [Date: 5/	24/2023	8	SeqNo: 3	519398	Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	ND	0.025													
Toluene	ND	0.050													
Ethylbenzene	ND	0.050													
Xylenes, Total	ND	0.10													
Surr: 4-Bromofluorobenzene	0.96		1.000		95.9	39.1	146								
Sample ID: mb-75127	Samp	уре: МЕ	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles							
Client ID: PBS	Batc	h ID: 75	127	F	RunNo: 9	7020									
Prep Date: 5/23/2023	Analysis [Date: 5/	25/2023	S	SeqNo: 3	520527	Units: mg/K	(g							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Benzene	ND	0.025						_							

Xylenes, Total Surr: 4-Bromofluorobenzene	ND 0.86	0.10	1.000		86.1	39.1	146						
Sample ID: Ics-75127	SampT	ype: LC	:s	Tes	tCode: E	PA Method	8021B: Vola						
Client ID: LCSS	F	RunNo: 9	7020										
Prep Date: 5/23/2023	Analysis D	Date: 5/	25/2023	5	SeqNo: 3	520528	Units: mg/Kg						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.87	0.025	1.000	0	86.7	70	130						
T.1	0.07	0.050	4 000	0	00.5	70	400						

20.120.10	0.0.	0.020		ū	00		.00	
Toluene	0.87	0.050	1.000	0	86.5	70	130	
Ethylbenzene	0.84	0.050	1.000	0	84.5	70	130	
Xylenes, Total	2.5	0.10	3.000	0	83.9	70	130	
Surr: 4-Bromofluorobenzene	0.87		1.000		86.5	39.1	146	

Qualifiers:

Benzene Toluene

Ethylbenzene

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

Page 7 of 8

Hall Environmental Analysis Laboratory, Inc.

WO#: **2305B55**

26-May-23

Client: Vertex Resources Services, Inc.

Project: North Pure Gold 8 Federal 006 West

Sample ID: mb-75132 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 75132 RunNo: 97020

Prep Date: 5/23/2023 Analysis Date: 5/25/2023 SeqNo: 3521548 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.86 1.000 86.2 39.1 146

Sample ID: Ics-75132 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 75132 RunNo: 97020

Prep Date: 5/23/2023 Analysis Date: 5/25/2023 SeqNo: 3521549 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.87 1.000 86.8 39.1 146

Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Above Quantitation Range/Estimated Value

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 8

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

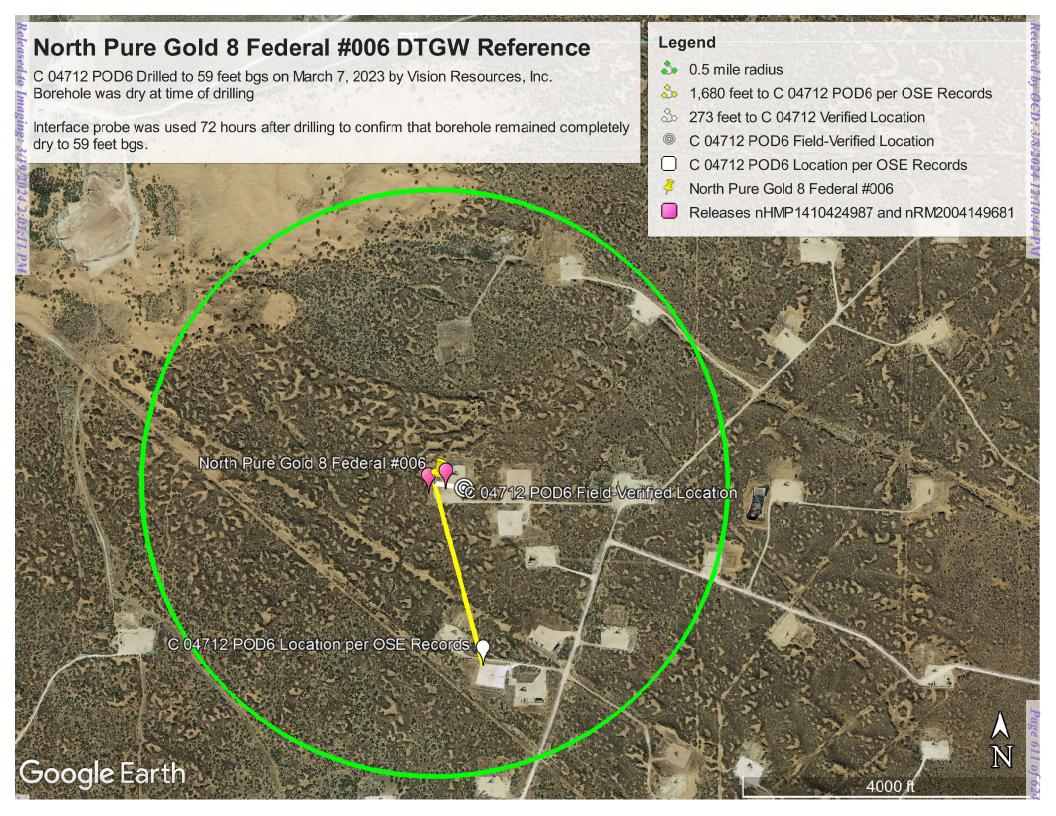
Released to Imaging: 3/19/2024 2:01:11 PM

Client Name:	Vertex Resources Services, Inc.	Work	Order Number	: 2305	B55			RcptNo:	1
Received By:	Tracy Casarrubia	as 5/23/20	23 7:30:00 AM	l					
Completed By:	Tracy Casarrubia	as 5/23/20	23 8:11:58 AM	[
Reviewed By:	M 5.23-8	23							
Chain of Cus	<u>tody</u>								
1. Is Chain of C	ustody complete?			Yes		No	✓	Not Present	
2. How was the	sample delivered?			Couri	<u>er</u>				
<u>Log In</u>									
3. Was an attem	pt made to cool the	samples?		Yes	✓	No [na 🗌	
4. Were all samp	oles received at a te	mperature of >0° C	to 6.0°C	Yes	V	No [na 🗆	
5. Sample(s) in	proper container(s)?	,		Yes	✓	No [
6. Sufficient sam	ple volume for indic	ated test(s)?		Yes	~	No [
7. Are samples (except VOA and ON	IG) properly preserv	ed?	Yes	✓	No [
8. Was preserva	tive added to bottles	s?		Yes		No 🛚	/	NA \square	
9. Received at le	ast 1 vial with heads	space <1/4" for AQ \	/OA?	Yes		No [NA 🗹	/
10. Were any sar	nple containers rece	eived broken?		Yes		No 🛭	✓	# of preserved bottles checked	
	ork match bottle labe ancies on chain of c			Yes	✓	No [for pH:	>12 unless note
12. Are matrices of	correctly identified or	n Chain of Custody?		Yes	✓	No [Adjusted?	
13. Is it clear wha	t analyses were requ	uested?		Yes	✓	No [_		
	ng times able to be i ustomer for authoriz			Yes	✓	No [Checked by:	123/23
Special Handl	ing (if applicab	le)							9, -0
15. Was client no	tified of all discrepa	ncies with this order	?	Yes		No [NA 🗹	
Person	Notified:	re Transcount de consentation à co	Date:				-		
By Who	om:		Via: [eMa	il 🗌 Pho	one 🔲 f	Fax	☐ In Person	
Regard	ing:							A STATE OF THE STA	
Client I	nstructions: Mailing	address, phone nu	mber and Emai	I are mi	ssing on C	Coc- TMC	C 5/23	3/23	
16. Additional re	marks:								
17. Cooler Infor	mation								
Cooler No	Temp °C Con	dition Seal Intact	Seal No S	Seal Da	te S	igned By	y		
1	5.4 Good	Yes	Morty						

Client:	ill to De	Vertex von-Harv	ard Divest, see Remarks)	Project Name: Standard X Rush_48-hour_ HALL ENVIRON ANALYSIS LABO www.hallenvironmental.com Analysis Request Tel. 505-345-3975 Fax 505-345-41 Analysis Request Analysis							M 871	m 1 87109									
Phone # email or QA/QC F	Fax#: Package:		□ Level 4 (Full Validation)	22E-02816-07 Project Manager: Kent Stallings kstallings@vertex.ca					(O / MRO)	PCB's		8270SIMS	A	PO ₄ , SO ₄	SIS	Keq	-				
□ NEL/	AC (Type)	□ Other	Sample Name	Sampler: On Ice: # of Coolers: Cooler Temp Container Type and #	L.Pullman Yes (including CF): 5.0 Preservative Type	HE	AL No.	BTEX / MTBE / TMB's (8021)	TPH:8015D(GRO / DRO / MRO)	8081 Pesticides/8082	EDB (Method 504.1)	PAHs by 8310 or 827	RCRA 8 Metals	CI, F, Br, NO ₃ , NO ₂ ,	8260 (VOA)	8270 (Semi-VOA)	Total Coliform (Present/Absent)				
05/19/23		Soil	BS23-47 0'	1, 4oz jar	,,,,,,	2305	000	X	Х			<u></u>		х	-00						
05/19/23	07:40	Soil	BS23-52 0'	1, 4oz jar		002		X	X					X							
Date: 5-19-13 Date: 5 70 75	Time: 10:00	Relinquish Relinquish	Julian.	Received by:	Via:	Date Date S/2		Har GL CC	vard Acci	l Div ount 7884	770	Site - 0100	- No	orth	Pure	G Go	old 8	Fede	eral #0)06	

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

APPENDIX F – Depth to Groundwater Drilling





New Mexico Office of the State Engineer

Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

X

C 04712 POD6 NA

4 08 23S 31E

613147 3575740

Driller License: 1833

Driller Company: VISION RESOURCES, INC

Driller Name:

JASON MALEY

Drill Start Date:

03/09/2023 **Drill Finish Date:** 03/09/2023

Plug Date:

03/14/2023

Log File Date:

Source:

04/04/2023

PCW Rcv Date:

Pipe Discharge Size:

Estimated Yield:

Pump Type: Casing Size:

Depth Well:

55 feet

Depth Water:

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

5/17/23 11:52 AM

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Water Right Summary



WR File Number: C 04712 Subbasin: CUB Cross Reference: -

Primary Purpose: MON MONITORING WELL

Primary Status: PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: VERTEX RESOURCES

User: HARVARD PETROLEUM COMPANY LLC

O

Contact: JUSTIN WARREN

Documents on File

				Status		From/				
	Trn #	Doc	File/Act	1	2	Transaction Desc.	To	Acres	Diversion	Consumptive
g <u>et</u> nages		EXPL	2023-02-21	PMT	APR	C 04712 POD1-6	T	0	0	

(NAD83 UTM in meters)

Current Points of Diversion

POD Number	Well Tag							Y	
C 04712 POD1	NA	1	4	1 31	23S	32E	620917	3570289	SDE SDE
C 04712 POD2	NA	4	4 4	4 17	23S	32E	623332	3574331	TOMCAT17

 $C 0^2$ C 04712 POD3 2 24 23S 31E 619651 3573877 TODD24 NA C 04712 POD4 NA 3 14 23S 31E 617535 3574316 TODD14 C 04712 POD5 NA 3 09 23S 31E 614393 3575754 NPG9 4 08 23S 31E 3575740 NPG8 C 04712 POD6 NA 613147

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

5/17/23 12:05 PM WATER RIGHT SUMMARY



New Mexico Office of the State Engineer

Transaction Summary

EXPL Permit To Explore

Transaction Number: 743189 **Transaction Desc:** C 04712 POD1-6 **File Date:** 12/14/2022

Primary Status: PMT Permit
Secondary Status: APR Approved

Person Assigned: ******

Applicant: VERTEX RESOURCES

User: HARVARD PETROLEUM COMPANY LLC

Contact: JUSTIN WARREN

Events					
e , chits	Date	Туре	Description	Comment	Processed By
get images	12/14/2022	APP	Application Received	*	*****
images get images	02/07/2023	TEC	Technical Report	*PLG PLN OPS C	*****
	02/21/2023	FTN	Finalize non-published Trans.		*****
	03/09/2023	QAT	Quality Assurance Completed	DATA	*****
	03/14/2023	QAT	Quality Assurance Completed	IMAGE	*****
	04/04/2023	LOG	Well Log Received	*C-4712-POD1 DRY	*****
	04/04/2023	DRY	Dry well log received	C-4712 POD1 DRY	*****
	04/04/2023	LOG	Well Log Received	*C-4712-POD2 DRY	*****
	04/04/2023	DRY	Dry well log received	C-4712-POD2 DRY	*****
	04/04/2023	LOG	Well Log Received	*C-4712-POD3 DRY	*****
	04/04/2023	DRY	Dry well log received	C-4712-POD3 DRY	*****
	04/04/2023	LOG	Well Log Received	*C-4712-POD4 DRY	*****
	04/04/2023	DRY	Dry well log received	C-4712-POD4 DRY	*****
	04/04/2023	LOG	Well Log Received	*C-4712-POD5 DRY	*****
	04/04/2023	DRY	Dry well log received	C-4712-POD5 DRY	*****

Well Log Received

*C-4712-POD6 DRY ******

04/04/2023

LOG

LGI

LGI

LGI

LGI

Well Log Image

Well Log Image

Well Log Image

Well Log Image

04/04/2023

04/04/2023

04/04/2023

04/04/2023

*PLG RECORD C-	*****
*PLG RECORD C-	*****
*PLG RECORD C-	*****
*PLG RECORD C-	*****

C-4712-POD6 DRY

04/04/2023	LGI	Well Log Image	*PLG RECORD C-	****
04/04/2023	LGI	Well Log Image	*PLG RECORD C-	****

Water Right Information				
WR File Nbr	Acres	Diversion	Consumptive	Purpose of Use
C 04712	0	0		MON MONITORING WELL
**Point of Diversion				
C 04712 POD2		623332	3574331 🌍	
C 04712 POD1		620917	3570289	
C 04712 POD3		619651	3573877	
C 04712 POD6		613090	3576220 🌑	
C 04712 POD4		617535	3574316	
C 04712 POD5		614393	3575754 🌍	

Conditions

- 1A Depth of the well shall not exceed the thickness of the valley fill.
- 4 No water shall be appropriated and beneficially used under this permit.
- B The well shall be drilled by a driller licensed in the State of New Mexico in accordance with 72-12-12 NMSA 1978. A licensed driller shall not be required for the construction of a well driven without the use of a drill rig, provided that the casing shall not exceed two and three-eighths (2 3/8) inches outside diameter.
- C The well driller must file the well record with the State Engineer and the applicant within 30 days after the well is drilled or driven. It is the well owner's responsibility to ensure that the well driller files the well record. The well driller may obtain the well record form from any District Office or the Office of the State Engineer website.
- The well authorized by this permit shall be plugged completely using the following method per Rules and Regulations Governing Well Driller Licensing, Construction, Repair and Plugging of Wells; Subsection C of 19.27.4.30 NMAC unless an alternative plugging method is proposed by the well owner and approved by the State Engineer upon completion of the permitted use. All pumping appurtenance shall be removed from the well prior to plugging. To plug a well, the entire well shall be filled from the bottom upwards to ground surface using a tremie pipe. The bottom of the tremie shall remain submerged in the sealant throughout the entire sealing process; other placement methods may be acceptable
- 7 The Permittee shall utilize the highest and best technology available to ensure conservation of water to the maximum extent practical.
- 16 Construction of a water well by anyone without a valid New Mexico Well Driller License is illegal, and the landowner shall bear the cost of plugging the well by a licensed New Mexico well driller. This does not apply to driven wells, the casing of which does not exceed two and three-eighths inches outside diameter.

Received by OCD: 3/8/2024 12:10:44 PM
The well shall be constructed, maintained, and operated to prevent inter-aquifer exchange of water and to prevent loss of hydraulic head between hydrogeologic zones.

- Q The State Engineer retains jurisdiction over this permit.
- R Pursuant to section 72-8-1 NMSA 1978, the permittee shall allow the State Engineer and OSE representatives entry upon private property for the performance of their respective duties, including access to the ditch or acequia to measure flow and also to the well for meter reading and water level measurement.

Action of the State Engineer

IS THE PERMITTEE'S RESPONSIBILITY TO OBTAIN ALL AUTHORIZATIONS AND PERMISSIONS TO DRILL ON PROPERTY OF OTHER OWNERSHIP BEFORE COMMENCING ACTIVITIES UNDER THIS PERMIT.

** See Image For Any Additional Conditions of Approval **

Approval Code: A - Approved **Action Date:** 02/21/2023 Log Due Date: 02/21/2024

State Engineer: Mike A. Hamman, P.

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

5/17/23 12:06 PM

TRANSACTION **SUMMARY**

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

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**

QUESTIONS

Action 321665

QUESTIONS

	Operator:	OGRID:
	DEVON ENERGY PRODUCTION COMPANY, LP	6137
	333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102		321665
		Action Type:
		[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites	
Incident ID (n#)	nHMP1410424987
Incident Name	NHMP1410424987 NORTH PURE GOLD 8 FEDERAL #006 @ 30-015-27618
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-27618] NORTH PURE GOLD 8 FEDERAL #006

Location of Release Source					
Please answer all the questions in this group.					
Site Name	NORTH PURE GOLD 8 FEDERAL #006				
Date Release Discovered	04/04/2014				
Surface Owner	Federal				

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

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Cause: Corrosion Producing Well Crude Oil Released: 5 BBL Recovered: 3 BBL Lost: 2 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Producing Well Produced Water Released: 25 BBL Recovered: 15 BBL Lost: 10 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	No
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Ea NIM 97505

QUESTIONS, Page 2

Action 321665

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462	a re, NIVI 6/505		
OUEST	IONS (continued)		
Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137 Action Number: 321665 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)		
QUESTIONS			
Nature and Volume of Release (continued)			
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.		
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes		
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.		
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.		
Initial Response The responsible party must undertake the following actions immediately unless they could create as	positive begand that would excell in injury		
The source of the release has been stopped	True		
The impacted area has been secured to protect human health and the environment	True		
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True		
All free liquids and recoverable materials have been removed and managed appropriately	True		
If all the actions described above have not been undertaken, explain why	Not answered.		
	Iliation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o ted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.		
to report and/or file certain release notifications and perform corrective actions for relethe OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required asses which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or		

No

I hereby agree and sign off to the above statement

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

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

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

QUESTIONS, Page 3

Action 321665

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	321665
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization		
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)	
What method was used to determine the depth to ground water	U.S. Geological Survey	
Did this release impact groundwater or surface water	No	
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:		
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)	
An occupied permanent residence, school, hospital, institution, or church	Between ½ and 1 (mi.)	
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between ½ and 1 (mi.)	
Any other fresh water well or spring	Between ½ and 1 (mi.)	
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)	
A wetland	Between 1 and 5 (mi.)	
A subsurface mine	Between 1 and 5 (mi.)	
An (non-karst) unstable area	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 5 (mi.)	
Did the release impact areas not on an exploration, development, production, or storage site	No	

Remediation Plan	
Please answer all the questions that apply or are indicated. This information must be pro	ovided to the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation plan approval with this submission	Yes
Attach a comprehensive report demonstrating the lateral and vertical extents of soil conta	amination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for eac	ch, in milligrams per kilograms.)
Chloride (EPA 300.0 or SM4500 Cl B)	1500
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	10
GRO+DRO (EPA SW-846 Method 8015M)	0
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes c which includes the anticipated timelines for beginning and completing the remediation.	completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	01/04/2023
On what date will (or did) the final sampling or liner inspection occur	01/10/2023
On what date will (or was) the remediation complete(d)	01/10/2023
What is the estimated surface area (in square feet) that will be reclaimed	0
What is the estimated volume (in cubic yards) that will be reclaimed	0
What is the estimated surface area (in square feet) that will be remediated	6855
What is the estimated volume (in cubic yards) that will be remediated	1487
These estimated dates and measurements are recognized to be the best guess or calculate	tion at the time of submission and may (be) change(d) over time as more remediation efforts are completed.
The OCD recognizes that proposed remediation measures may have to be minimally adju	usted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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

<u>District II</u> 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

<u>District III</u> 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

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

QUESTIONS, Page 4

Action 321665

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	321665
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)	Yes	
Which OCD approved facility will be used for off-site disposal	R360 Artesia LLC LANDFARM [fEEM0112340644]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

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

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

I hereby agree and sign off to the above statement

Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

Date: 03/08/2024

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

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

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

QUESTIONS, Page 5

Action 321665

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave. Oklahoma City, OK 73102	Action Number: 321665
Oklahoma City, OK 73102	
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

OUESTIONS

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

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

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

QUESTIONS, Page 6

Action 321665

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	321665
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	321626
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	02/16/2023
What was the (estimated) number of samples that were to be gathered	1
What was the sampling surface area in square feet	1

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	6855
What was the total volume (cubic yards) remediated	1487
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	6855
What was the total volume (in cubic yards) reclaimed	1487
Summarize any additional remediation activities not included by answers (above)	see report

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

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

Name: Dale Woodall
Title: EHS Professional
Email: Dale.Woodall@dvn.com
Date: 03/08/2024

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QUESTIONS, Page 7

Action 321665

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	321665
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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

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

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CONDITIONS

Action 321665

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
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	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	Remediation closure approved.	3/19/2024
amaxwell	The reclamation report will need to include: Executive Summary of the reclamation activities; Scaled Site Map including sampling locations; Analytical results including, but not limited to, results showing that any remaining impacts meet the reclamation standards and results to prove the backfill is non-waste containing; At least one (1) representative 5-point composite sample will need to be collected from the backfill material that will be used for the reclamation of the top four feet of the excavation. OCD reserves the right to request additional sampling if needed; pictures of the backfilled areas showing that the area is back, as nearly as practical, to the original condition or the final land use and maintain those areas to control dust and minimize erosion to the extent practical; pictures of the top layer, which is either the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater; and a revegetation plan.	3/19/2024