



Incident Number: nAB1732449577

Release Assessment and Closure

North Pure Gold 9 Federal #001

Section 09, Township 23 South, Range 31 East

API: 30-015-27178

County: Eddy

Vertex File Number: 25A-01165

Prepared for:

Devon Energy Production Company, LP

Prepared by:

Vertex Resource Services Inc.

Date:

September 2025

Devon Energy Production Company, LP
North Pure Gold 9 Federal #001

Release Assessment and Closure
September 2025

Release Assessment and Closure
North Pure Gold 9 Federal #001
Section 09, Township 23 South, Range 31 East
API: 30-015-27178
County: Eddy

Prepared for:

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

New Mexico Oil Conservation Division
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3101 Boyd Drive
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Lakin Pullman

Lakin Pullman, B.Sc.
ENVIRONMENTAL SPECIALIST, REPORTING

September 30, 2025

Date

Kent Stallings

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

September 30, 2025

Date

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1.0 Introduction

Devon Energy Production Company, LP (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct a Release Assessment and Closure for a crude oil release from 2017 that occurred at North Pure Gold 9 Federal #001 API 30-015-27178 (hereafter referred to as the "site"). Devon submitted initial C-141 Release Notification on November 17, 2017, to New Mexico Oil Conservation Division (NMOCD) District 2 (Appendix A). Incident ID number nAB1732449577 was given to the November 12, 2017, incident.

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 the release site will be completed following decommissioning of the oil and gas production pad as per NMAC 19.15.29.13.

2.0 Incident Description

NMOCD Incident nAB1732449577 (2RP-4491) occurred on November 12, 2017, when a heater treater fire tube developed a hole, releasing oil and causing it to catch fire. The incident was reported on November 17, 2017, and involved the release of 1/4 barrel (bbl) of crude oil around the production equipment on the pad. No crude oil was recovered during the initial cleanup. Additional details relevant to the release are presented in the C-141 Report.

3.0 Site Characteristics

The site is located approximately 18 miles east of Loving, New Mexico. The legal location for the site is Section 09, Township 23 South and Range 31 East in Eddy County, New Mexico. The release area is located on BLM property. An aerial photograph and site schematic are presented on Figure 1.

The location is typical of oil and gas exploration and production sites in the Permian Basin and is currently used for oil and gas production and storage. The following sections specifically describe the release area southwest of the constructed pad (Figure 1).

The surrounding landscape is associated with terraces, piedmonts, dune fields, and upland plains with elevations ranging between 2,842 and 4,500 feet. The climate is semiarid with average annual precipitation ranging between 8 and 13 inches. Using information from the United States Department of Agriculture, the dominant vegetation was determined to be grasses with shrubs. Dropseeds, threeawns, and bluegrasses dominate the historical plant community with shinnery oak and soapweed yucca (United States Department of Agriculture, Natural Resources Conservation Service, 2024). Limited to no vegetation is allowed to grow on the compacted production pad and access road.

The Geological Map of New Mexico (New Mexico Bureau of Geology and Mineral Resources, 2025) indicates the site's surface geology primarily comprises Qep - Eolian and piedmont deposits. Predominant soil texture on the site is fine sand (United States Department of Agriculture, Natural Resources Conservation Service, 2021). Additional soil characteristics include a drainage class of very high with negligible runoff. The karst geology potential for the site is low

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(United States Department of the Interior, Bureau of Land Management, 2018).

4.0 Closure Criteria Determination

The nearest depth to groundwater reference well to the site is exploratory borehole C 04712 POD5 located approximately 0.02 miles northeast of the site. Data from 2023 shows the NMOSE borehole was recorded dry at 55 feet below ground surface (bgs). Another exploratory borehole, C 04776 POD1, was drilled on December 13, 2023, located 0.27 miles from the site. The well was drilled to a depth of 105 feet and was recorded as being (New Mexico Office of the State Engineer, 2025). Information pertaining to the depth to groundwater determination is included with the Closure Criteria Research Documentation in Appendix B.

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 1.1 miles north of the site (United States Fish and Wildlife Service, 2025).

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. Further information supporting closure criteria determination is included below in Table 1.

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Table 1. Closure Criteria Determination			
Site Name: North Pure Gold 9 Federal #001			
Spill Coordinates: 32.3125916,-103.7849503		X: 614381	Y: 3575733
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>55	feet
	Distance between release and nearest DTGW reference	81	feet
		0.02	miles
	Date of nearest DTGW reference measurement	March 9, 2023	
1	Depth to Groundwater (next nearest reference)	>100	feet
	Distance between release and nearest DTGW reference	1,429	feet
		0.27	miles
	Date of nearest DTGW reference measurement	December 13, 2023	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,965	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	5,916	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	9,145	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	7,199	feet
	ii) Within 1000 feet of any fresh water well or spring	6,821	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	5,881	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	34,074	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest High Karst	13,768	feet
10	Within a 100-year Floodplain	>500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	39,500	feet
11	Soil Type	Fine sand	
12	Ecological Classification	Deep sand	
13	Geology	Eolian and piedmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria		<50'
		>100'	51-100'
			>100'

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 Impacted by a Release		
Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Limit
> 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

TDS – total dissolved solids

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

An initial site inspection of the release area was completed on May 10, 2019, which identified the area of the release specified in the initial C-141 Report and sampled the release area around the production equipment. Characterization of the impacted area was completed by Vertex between May 12, 2019, and August 20, 2021, including vertical and horizontal delineation and a background borehole. The impacted area was determined to be approximately 1,613 square feet. Characterization sample locations and area of impact are presented on Figure 1 and laboratory results are summarized in Table 3. Daily field reports (DFRs) documenting characterization are included in Appendix C. Characterization and remediation of multiple incidents were executed at the same site at the same time. The Daily field reports and laboratory reports also contain information specific to other incidents that may be considered extraneous to this incident.

On April 9, 2020, Vertex personnel supervised remedial activities which included an approximately 400 square foot excavation to a depth of 0.5 feet around sample points BH19-01 and TP19-03. The area around the production equipment, including BH19-02A, was treated in-situ with Remediate, a hydrocarbon bioremediation product. The bioremediation treatment area was approximately 2,279 square feet and encompassed the fenced-in area housing the production equipment. The excavation and bioremediation treatment areas are presented on Figure 2. Field screening results were used to identify areas requiring further remediation and consisted of analysis using a Photo Ionization Detector (volatile hydrocarbons), Dextil Petroflag using EPA SW-846 Method 9074 (extractable hydrocarbons), Quantabs and electrical conductivity meter (chlorides). Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management facility. DFRs documenting various phases of the remediation are presented in Appendix C.

Notifications that confirmation samples were being collected were provided to the NMOCD on April 6 and May 13, 2020 and are included in Appendix E. On April 9, 2020, confirmation 5-point composite samples were collected from the base and walls of the excavation in increments no greater than 200 square feet. The areas of the excavation base and wall

were approximately 400 and 42 square feet, respectively. On May 18, 2020, Vertex collected 9 five-point composite soil samples, from the bioremediation treatment area, each representative of no more than 200 square feet. The sampling consisted of five base samples and four sidewall samples of the treatment area, as presented on Figure 2. Laboratory results for all confirmation samples collected are presented in Table 4, and the laboratory data reports are included in Appendix D. It was determined that an insufficient number of confirmation samples were collected from the bioremediation treatment area during the first confirmation sampling event given the total square footage of 2,279 square feet.

Notifications that additional confirmation samples were being collected were provided to the NMOCD on April 29 and 30, 2025 and are included in Appendix E. Supplemental confirmation samples were staged and collected on May 1 and 2, 2025. The additional 5-point composite confirmation base samples were collected from the bioremediation treatment and historical impact areas by advancing five boreholes up to 2 feet bgs, collecting discrete samples from each borehole, 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 confirmation sampling event. This method was used to collect 7 additional confirmation base samples. Samples were submitted to the Eurofins Environment Testing 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). Confirmation sample locations are shown on Figure 2. Laboratory results for all borehole-derived confirmation samples collected are presented in Table 4, and the laboratory data reports are included in Appendix D. All confirmation samples collected and analyzed were below closure criteria for the site.

Upon completion of remedial actions, approximately 2,679 square feet and 177 cubic yards of the pad surface were remediated to closure criteria. Laboratory results for all confirmation samples collected from the remediation areas were below closure criteria. At time of facility decommissioning and deconstruction, the remediation depths of the former excavation area north of the production equipment and the fenced area housing the production equipment are estimated to be 2 and 4 feet bgs, respectively, to meet NMOCD requirements for reclamation. The total impact area includes the excavation, bioremediation area, entire fenced production equipment area, and covers approximately 4,100 square feet. The estimated volume of soil remaining to be removed to meet reclamation standards is 560 cubic yards. The excavation, bioremediation treatment area, fence enclosing production equipment, and corresponding confirmation sampling locations are shown on Figure 2.

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6.0 Closure Request

Vertex recommends no additional remediation action to address the release at North Pure Gold 9 Federal #001. Laboratory analyses of the confirmation samples showed constituent of concern concentration levels below NMOCD remediation closure criteria for areas where depth to groundwater is greater than 100 feet bgs as shown in Table 2. There are no anticipated risks to human, ecological or hydrological receptors associated with the release site. The excavation was 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.

Devon Energy Production Company, LP, requests that incident nAB1732449577 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 November 12, 2017, release at North Pure Gold 9 Federal #001.

Should you have any questions or concerns, please do not hesitate to contact the Project Manager Kent Stallings at 346.814.1413 or kstallings@vertexresource.com

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7.0 References

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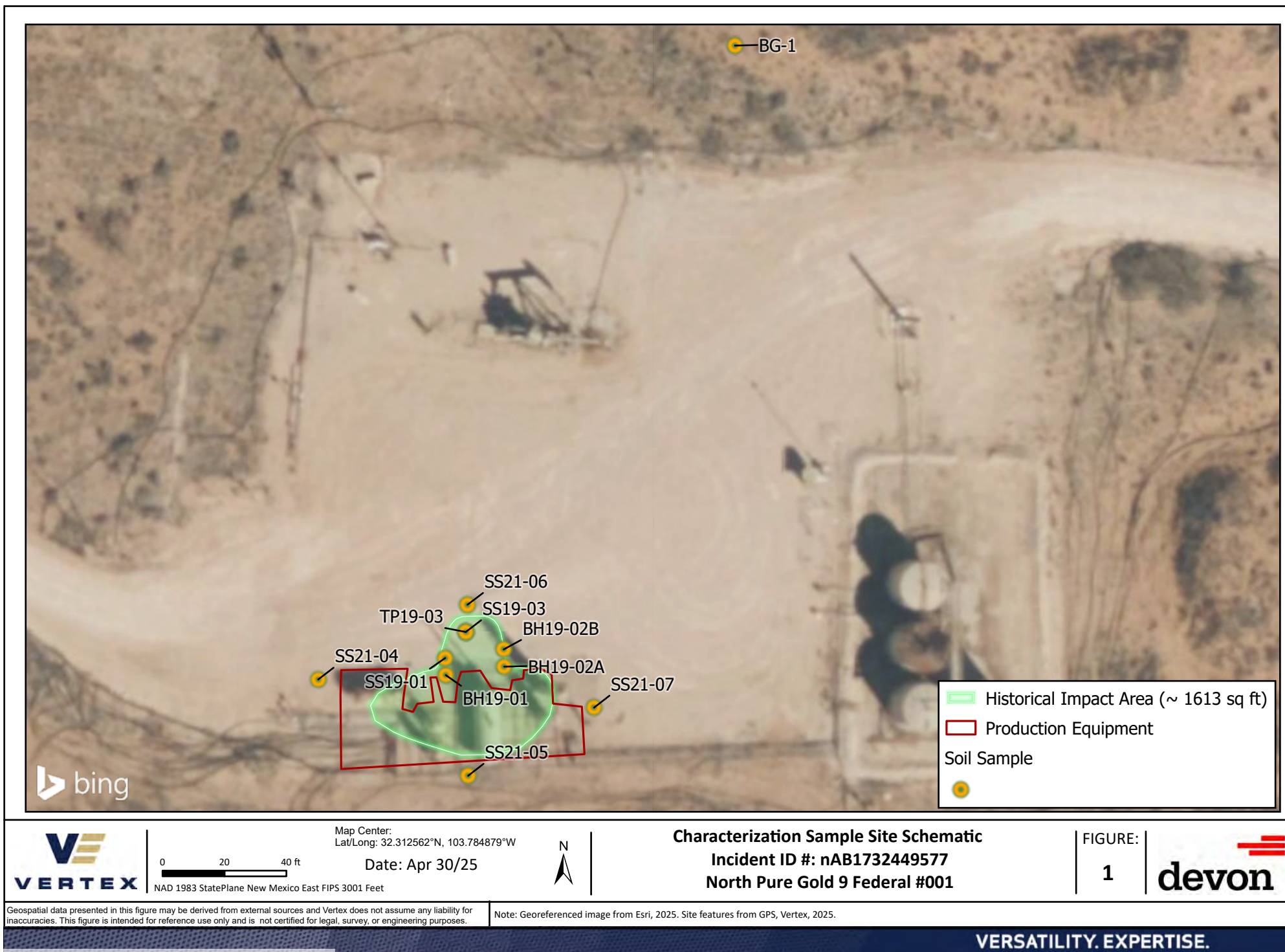
Release Assessment and Closure
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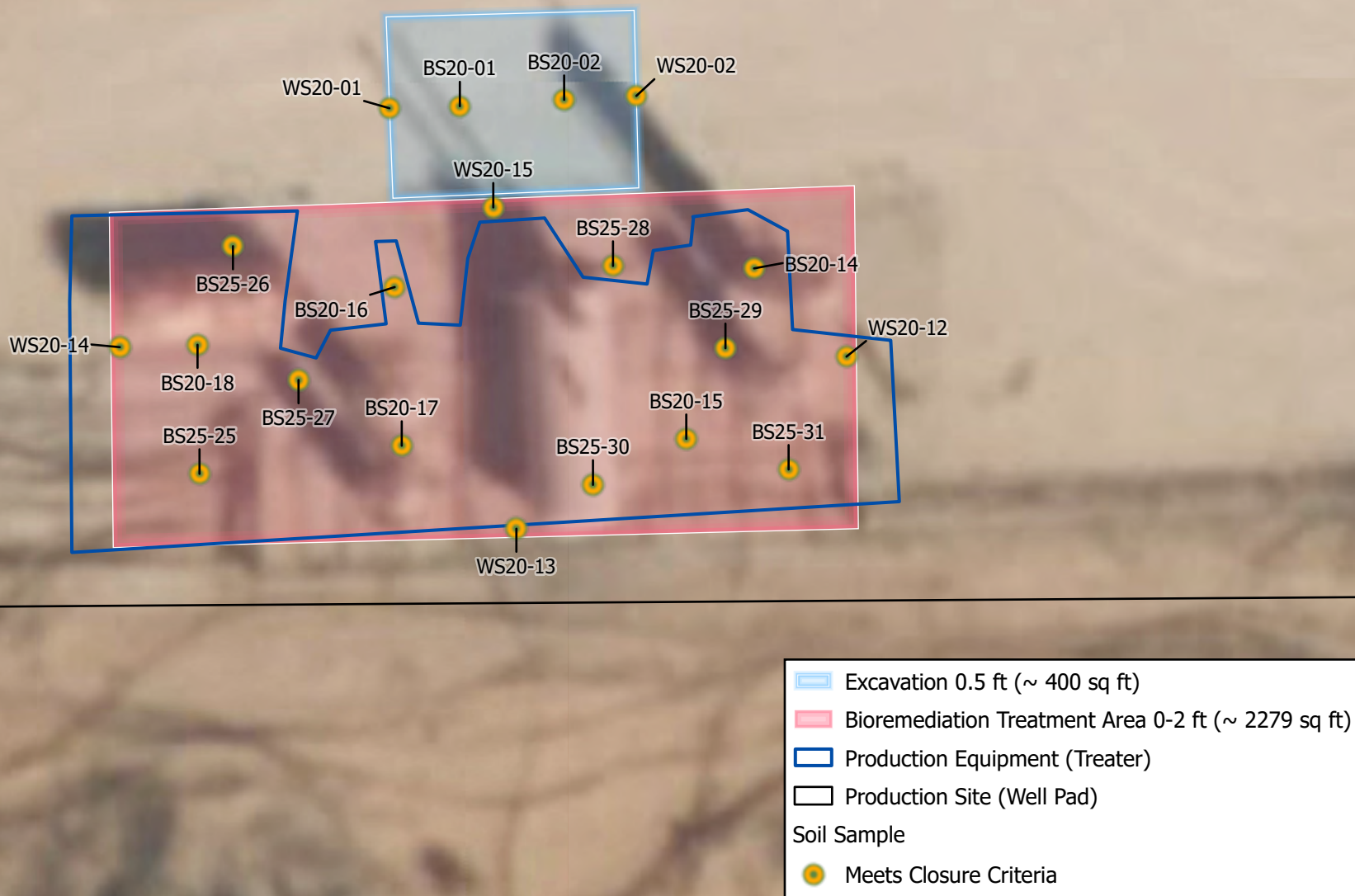
8.0 Limitations

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





Map Center:
Lat/Long: 32.312291°N, 103.785054°W
Date: May 19/25
NAD 1983 StatePlane New Mexico East FIPS 3001 Feet



Confirmation Sample Site Schematic
Incident ID #: nAB1732449577 North
Pure Gold 9 Federal #001

FIGURE:

2



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

Note: Georeferenced image from Esri, 2025. Site features from GPS, Vertex, 2025.

VERSATILITY. EXPERTISE.

TABLES

Client Name: North Pure Gold 9 Federal #001

Site Name: 25A-01165

NMOCD Tracking #: nAB1732449577

Project #: 25A-01165

Lab Reports: 19031, 1907D74 and 2108C52

Table 3. Initial Characterization Sample Field Screen and Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	Chloride Concentration (mg/kg)
Depth to Groundwater >100 feet bgs										
SS19-01	0	July 24, 2019	ND	3.2	ND	740	1,200	740	1,940	ND
BH19-01	2	May 12, 2019	ND	ND	ND	ND	ND	ND	ND	ND
BH19-02A	2	May 12, 2019	ND	ND	ND	2,030	1,140	2,030	3,170	ND
BH19-02B	0	July 24, 2019	ND	2.2	ND	650	1,100	650	1,750	ND
	2	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND
SS19-03	0	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND
TP19-03	2	May 12, 2019	ND	ND	ND	27.8	ND	27.8	27.8	ND
SS21-04	0	August 20, 2021	ND	ND	ND	ND	ND	ND	ND	ND
SS21-05	0	August 20, 2021	ND	ND	ND	ND	ND	ND	ND	ND
SS21-06	0	August 20, 2021	ND	ND	ND	ND	ND	ND	ND	ND
SS21-07	0	August 20, 2021	ND	ND	ND	ND	ND	ND	ND	ND
BG-1	0	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 24, 2019	ND	ND	ND	ND	ND	ND	ND	ND

"ND" Not Detected at the Reporting Limit

"- " indicates not analyzed/assessed

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

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

Client Name: North Pure Gold 9 Federal #001

Site Name: 25A-01165

NMOCD Tracking #: nAB1732449577

Project #: 25A-01165

Lab Reports: 2004607, 2005854, and 885-24275-1

Table 4. Confirmation Sample Field Screen and Laboratory Results										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene (mg/kg)	BTEX (Total) (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/kg)	Motor Oil Range Organics (MRO) (mg/kg)	(GRO + DRO) (mg/kg)	Total Petroleum Hydrocarbons (TPH) (mg/kg)	
										Chloride Concentration (mg/kg)
Depth to Groundwater >100 feet bgs										
BS20-01	0.5	April 9, 2020	ND	ND	ND	37	63	37	100	67
BS20-02	0.5	April 9, 2020	ND	ND	ND	270	350	270	620	ND
BS20-14	1-2	May 18, 2020	ND	ND	ND	1,000	1,500	1,000	2,500	ND
BS20-15	0-1	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	ND
BS20-16	0-1	May 18, 2020	ND	ND	ND	34	120	34	154	ND
BS20-17	0-1	May 18, 2020	ND	ND	ND	580	590	580	1,170	120
BS20-18	0-1	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	ND
BS25-25	0-2	May 2, 2025	ND	ND	ND	60	48	60	108	3,200
BS25-26	0-2	May 2, 2025	ND	ND	ND	ND	ND	ND	ND	150
BS25-27	0-2	May 2, 2025	ND	ND	ND	250	200	250	450	250
BS25-28	0-2	May 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-29	0-2	May 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-30	0-2	May 2, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BS25-31	0-2	May 2, 2025	ND	ND	ND	12	ND	12	12	61
WS20-01	0-0.5	April 9, 2020	ND	ND	ND	53	120	53	173	320
WS20-02	0-0.5	April 9, 2020	ND	ND	ND	250	230	250	480	72
WS20-12	0-2	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	120
WS20-13	0-1	May 18, 2020	ND	ND	ND	ND	ND	ND	ND	ND
WS20-14	0-1	May 18, 2020	ND	ND	ND	880	860	880	1,740	200
WS20-15	0-2	May 18, 2020	ND	ND	ND	17	77	17	94	ND

"ND" Not Detected at the Reporting Limit

"- " indicates not analyzed/assessed

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

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

APPENDIX A - NMOCD C-141 Report

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

ARTESIA DISTRICT
State of New Mexico
Energy Minerals and Natural Resources
NOV 17 2017
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141
Revised April 3, 2017

NOV 17 2017

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

RECEIVED

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Release Notification and Corrective Action

NAB1732449577

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Devon Energy Production Company	Contact	Randy Gladden, Superintendent
Address	6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No.	575-513-9463
Facility Name	North Pure Gold 9 Fed 1	Facility Type	Oil
Surface Owner	Federal	Mineral Owner	Federal
		API No.	30-015-27178

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
N	9	23S	31E					Eddy

Latitude_32.31236_ Longitude_-103.78506_ NAD83

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Fire/Oil	1/4bbl	0bbls
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery
Heater Treater	November 12, 2017 @ 7:45 AM MST	November 12, 2017 @ 7:45 AM MST
Was Immediate Notice Given?	If YES, To Whom?	
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	Shelly Tucker, BLM Mike Bratcher and Crystal Weaver, OCD	
By Whom?	Date and Hour	
Mike Shoemaker, EHS Representative	November 12, 2017 @ 2:17 PM MST	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.	
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	N/A	

If a Watercourse was Impacted, Describe Fully.*
N/A

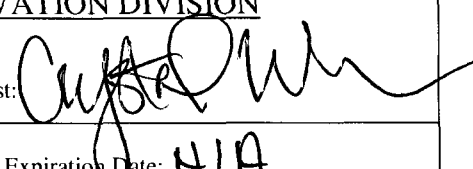
Describe Cause of Problem and Remedial Action Taken.*

Heater treater fire tube developed a hole releasing oil and causing it to catch fire. The fuel gas to the burners was shut off and the wells producing to the battery were shut in to stop the flow of oil and the fire department was contacted to extinguish the fire.

Describe Area Affected and Cleanup Action Taken.*

Approximately 1/4bbl oil was released in approximately a 20'x6' area. 0bbls were recovered. An environmental contractor will be contacted to assist with the delineation and remediation of the well pad surface.

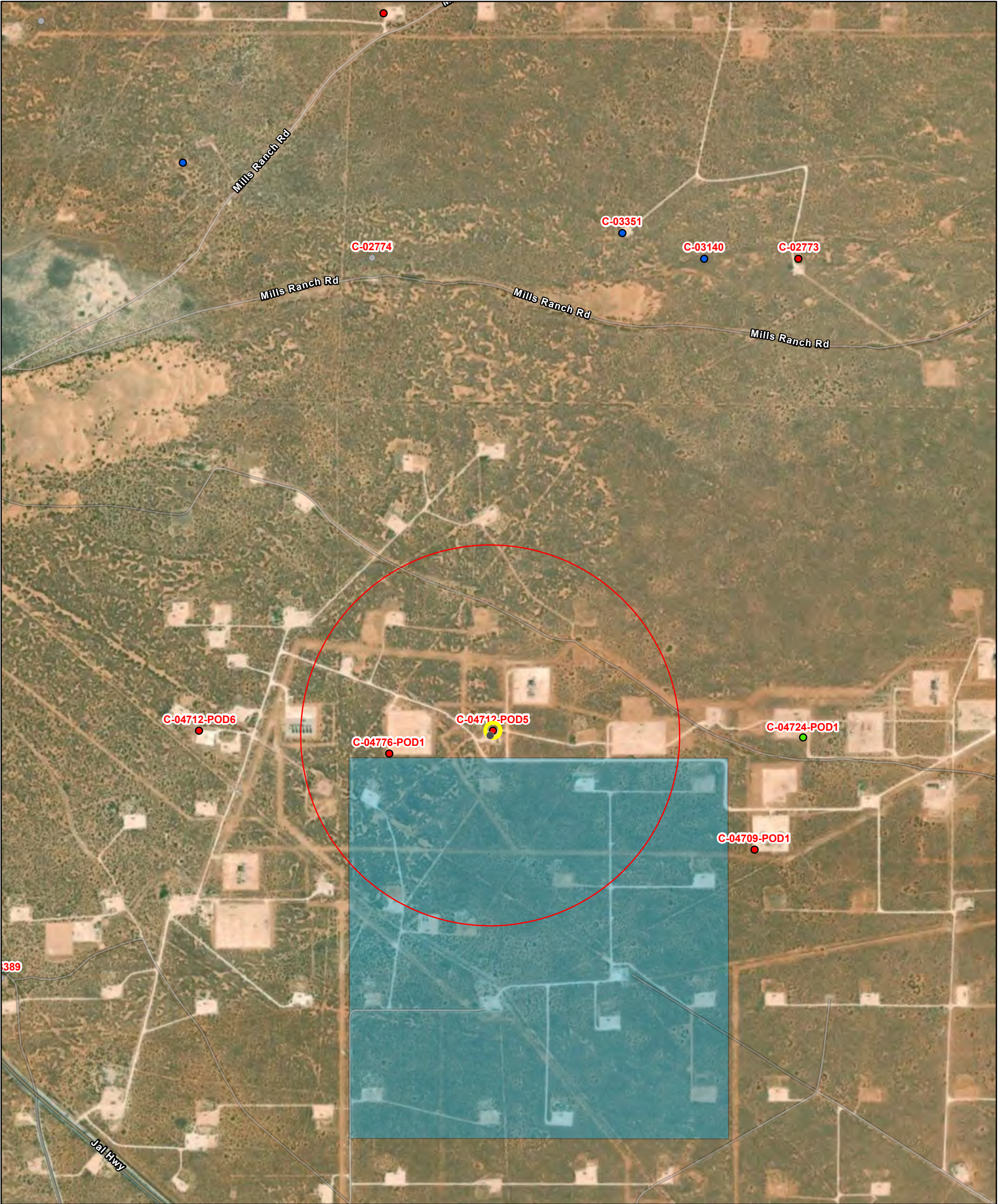
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger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

Signature: Sheila Fisher		OIL CONSERVATION DIVISION	
Printed Name: Sheila Fisher		Approved by Environmental Specialist: 	
Title: Field Admin Support		Approval Date: 11/20/17	Expiration Date: N/A
E-mail Address: Sheila.Fisher@dv.com		Conditions of Approval: See attached	
Date: 11/15/17 Phone: 575.748.1829		Attached <input checked="" type="checkbox"/> 2R-4491	

* Attach Additional Sheets If Necessary

APPENDIX B – Closure Criteria Research Documentation

OSE POD 0.5 miles

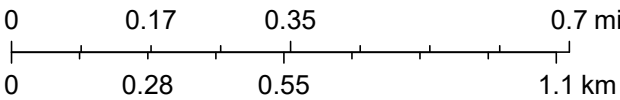


4/18/2025, 1:37:45 PM

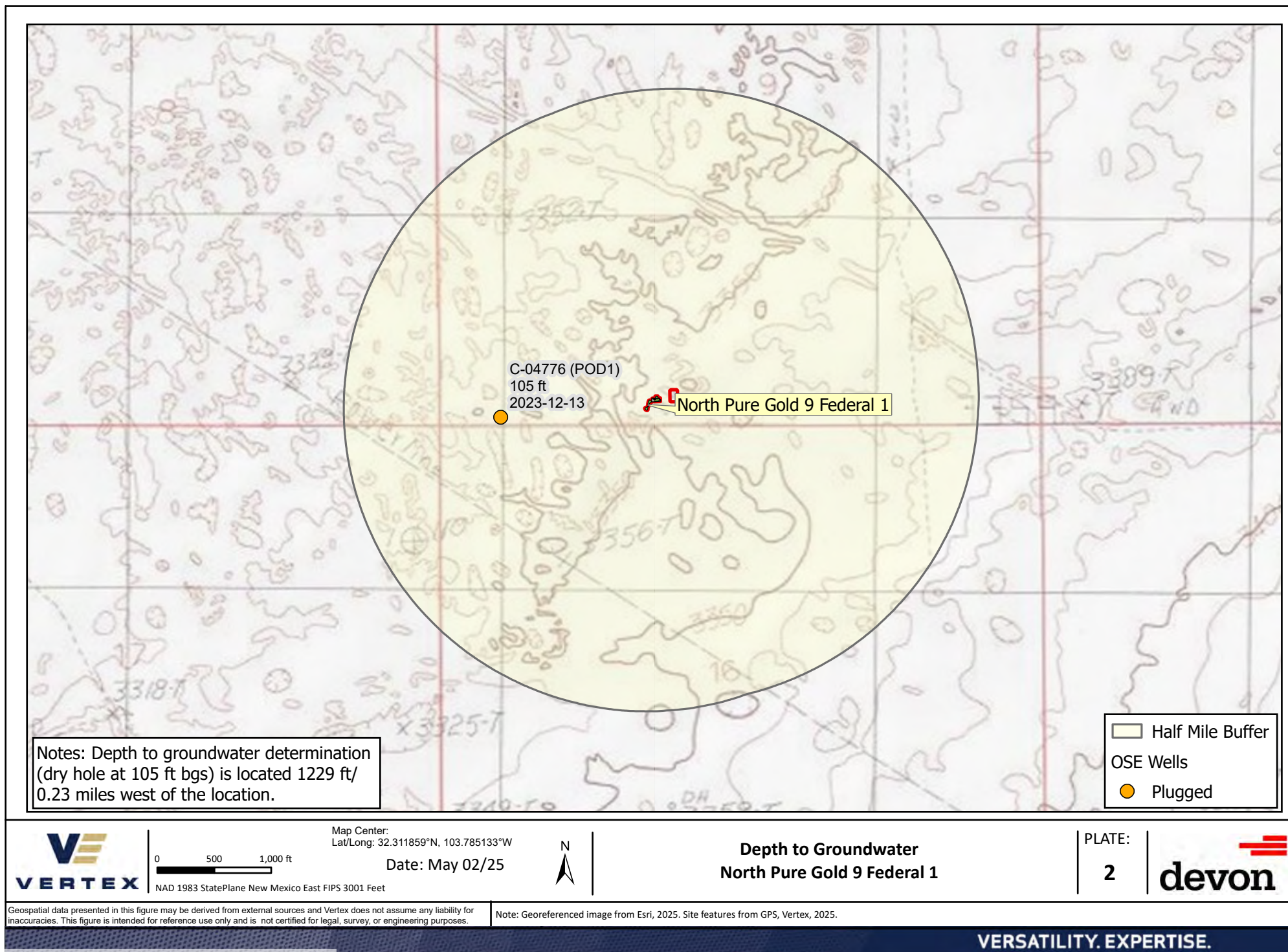
GIS WATERS PODs ●

- Active
- Pending
- Plugged
- OSE District Boundary
- New Mexico State Trust Lands
- Both Estates

1:18,056



Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, (c) OpenStreetMap contributors, and the GIS User Community, Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



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 smallest to largest)								(NAD83 UTM in meters)				(In feet)	(In feet)	(In feet)	
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 04712 POD5		CUB	ED	SE	SE	SW	09	23S	31E	614392.9	3575754.4		24	55		
C 04776 POD1		CUB	ED	SW	SW	SW	09	23S	31E	613953.1	3575651.8		435		105	
C 04709 POD1		CUB	ED	SW	NW	NW	15	23S	31E	615508.8	3575262.4		1222			
C 04712 POD6		CUB	ED	SW	SW	SE	08	23S	31E	613146.6	3575740.1		1234	55		
C 02774		CUB	ED	SW	NW	SW	04	23S	31E	613857.0	3577745.0 *		2079	1660		
C 03351		C	ED	SE	NW	SE	04	23S	31E	614916.6	3577861.1		2194	320	168	152
C 03140		CUB	ED	SE	NE	SE	04	23S	31E	615266.0	3577758.0 *		2209	684		
C 02773		CUB	ED	SE	NW	SW	03	23S	31E	615668.0	3577762.0 *		2402	880		
C 02777		CUB	ED	SE	SE	SE	10	23S	31E	616973.8	3575662.1		2593	890		
C 03749 POD1		CUB	ED		NE	NE	15	23S	31E	616973.8	3575662.1		2593	865	639	226
C 02664		CUB	ED	SW	SW	NE	05	23S	31E	613049.0	3578138.0 *		2749	4291	354	3937
C 02492		CUB	ED	SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		2814	135	85	50
C 02865		CUB	ED	SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		2814	174		
C 02492 POD2		C	ED	SW	NE	NE	07	23S	31E	611767.4	3576996.6		2903	400	125	275
C 04855 POD1		CUB	ED	NE	SW	SW	11	23S	31E	617417.6	3575936.7		3043	105		
C 04772 POD1		CUB	ED	NW	NW	NW	04	23S	31E	613895.0	3578780.5		3086	55		
C 02954 EXPL		CUB	ED	SW	NW	SE	20	23S	31E	613114.0	3572906.0 *		3097	905		
C 04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2		3457	55		
C 02776		CUB	ED	NE	NW	NW	05	23S	31E	612440.0	3578731.0 *		3571	661		
C 02767		CUB	ED	SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3656	785		
C 02768		CUB	ED	SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3656	787		
C 02725		CUB	ED	NW	NW	NW	05	23S	31E	612240.0	3578731.0 *		3684	532		
C 02775		CUB	ED	NW	NW	NW	05	23S	31E	612240.0	3578731.0 *		3684	529		
C 02769 POD2		CUB	ED	SE	NE	SE	33	22S	31E	615260.6	3579312.3		3685	753	428	325
C 02687		CUB	ED	SE	NE	SE	33	22S	31E	615246.0	3579364.0 *		3732	779		
C 03520 POD1		C	ED	SW	NW	NW	07	23S	31E	610732.6	3576905.8		3832	500		
C 02769		CUB	ED	NE	NE	SE	33	22S	31E	615246.0	3579564.0 *		3927	765		

(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 smallest to largest)

(NAD83 UTM in meters)

(In feet)

(In feet)

(In feet)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	Distance	Well Depth	Depth Water	Water Column
C 03139		CUB	ED	SE	NE	SE	01	23S	30E	610424.0	3577764.0 *		4447	425		
C 04774 POD1		CUB	ED	SE	NE	NE	23	23S	31E	618456.0	3573856.4		4486	105		
C 03222 EXPLORE		CUB	ED	NW	NW	SE	12	23S	30E	609833.0	3576349.0 *		4589	365		
C 02417		CUB	ED	SE	SE	SE	29	22S	31E	613623.0	3580554.0 *		4880	681		
C 02757		CUB	ED	SE	SE	SE	28	22S	31E	615232.0	3580571.0 *		4912	4057		

Average Depth to Water: **272 feet**

Minimum Depth: **85 feet**

Maximum Depth: **639 feet**

Record Count: 32

UTM Filters (in meters):

Easting: 614381
Northing: 3575733
Radius: 005000

* 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.


4/18/25 12:40 PM MST

Water Column/Average Depth to Water

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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04712 POD5	SE	SE	SW	09	23S	31E	614392.9	3575754.4	

* UTM location was derived from PLSS - see Help

Driller License:	1833	Driller Company:	VISION RESOURCES, INC
Driller Name:	JASON MALEY		
Drill Start Date:	2023-03-09	Drill Finish Date:	2023-03-09
Log File Date:	2023-04-04	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	6.00	Depth Well:	55
		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.

Water Right Summary



[get image](#)
[list](#)

WR File Number: C 04712		Subbasin: CUB	Cross Reference:
Primary Purpose: MON MONITORING WELL			
Primary Status: PMT Permit			
Total Acres:		Subfile:	Header:
Total Diversion: 0.000		Cause/Case:	
Owner:	VERTEX RESOURCES	Owner Class:	Owner
Owner:	HARVARD PETROLEUM COMPANY LLC	Owner Class:	User
Contact: JUSTIN WARREN			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
_get images	743189	EXPL	2023-02-21	PMT	APR	C 04712 POD1-6	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 04712 POD1	NA		NW	SE	NW	31	23S	32E	620917.2	3570289.2		SDE
C 04712 POD2	NA		SE	SE	SE	17	23S	32E	623331.9	3574331.5		TOMCAT17
C 04712 POD3	NA		SE	NW	NE	24	23S	31E	619650.7	3573877.9		TODD24
C 04712 POD4	NA		NW	SE	SW	14	23S	31E	617535.4	3574316.2		TODD14
C 04712 POD5	NA		SE	SE	SW	09	23S	31E	614392.9	3575754.4		NPG9
C 04712 POD6	NA		SW	SW	SE	08	23S	31E	613146.6	3575740.1		NPG8

* 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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER


www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) <u>C-04712 POD 5</u>		WELL TAG ID NO.		OSE FILE NO(S). <u>C-4712</u>			
	WELL OWNER NAME(S) <u>Harvard Petroleum Company</u>				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS <u>PO Box 936</u>				CITY <u>Reswell</u>	STATE <u>NM</u>	ZIP <u>88202</u>	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE <u>32</u>	MINUTES <u>18</u>	SECONDS <u>46.0</u>	N W	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84		
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. <u>1833</u>		NAME OF LICENSED DRILLER <u>Jason Maley</u>			NAME OF WELL DRILLING COMPANY <u>Vision Resources</u>		
	DRILLING STARTED <u>3-9-23</u>	DRILLING ENDED <u>3-9-23</u>	DEPTH OF COMPLETED WELL (FT) <u>55</u>	BORE HOLE DEPTH (FT) <u>55</u>	DEPTH WATER FIRST ENCOUNTERED (FT) <u>Dry</u>			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) <u>Dry</u>		DATE STATIC MEASURED <u>Dry</u>	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:				CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>			
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	<u>0 45</u>		<u>6"</u>	<u>2" PUC SH40</u>	<u>Thread</u>	<u>2"</u>	<u>SH40</u>	<u>—</u>
	<u>45 55</u>		<u>6"</u>	<u>2" PUC SH40 (Screen)</u>	<u>Thread</u>	<u>2"</u>	<u>SH40</u>	<u>102</u>
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)		AMOUNT (cubic feet)	METHOD OF PLACEMENT	
				<u>None Pulled & Plugged</u>				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. <u>C-4712-POD 5</u>	POD NO. <u>5</u>	TRN NO. <u>743189</u>
LOCATION <u>Mon 23.31.09.443</u>	WELL TAG ID NO. <u>—</u>	PAGE 1 OF 2

	DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	FROM	TO				
4. HYDROGEOLOGIC LOG OF WELL	0	20	20	White Caliche	Y (N)	
	20	45	25	Brown Fine Sand	Y (N)	
	45	55	10	Red Sandy Caliche	Y (N)	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm):	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY:					Dry	
5. TEST; RIG SUPERVISION	WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	MISCELLANEOUS INFORMATION: <div style="text-align: right;">USE DIT APR 4 2023 PM 1:23</div>					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:					
6. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME			3/24/23 DATE		

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	C-4712-POD5	POD NO.	5
LOCATION		TRN NO.	743189
man 23.31.09.443		WELL TAG ID NO.	—
		PAGE 2 OF 2	

Mike A. Hamman, P.E.
State Engineer



Roswell Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 743189
File Nbr: C 04712
Well File Nbr: C 04712 POD5

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Maret Thompson".


Maret Thompson
(575) 622-6521

drywell

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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
NA	C 04776 POD1	SW	SW	SW	09	23S	31E	613953.1	3575651.8	

* UTM location was derived from PLSS - see Help

Driller License:	1833	Driller Company:	VISION RESOURCES, INC
Driller Name:	JASON MALEY		
Drill Start Date:	2023-12-13	Drill Finish Date:	2023-12-13
Log File Date:	2024-01-12	PCW Rcv Date:	Source:
Pump Type:		Pipe Discharge Size:	Estimated Yield:
Casing Size:	2.00	Depth Well:	Depth Water:
			105

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.

Water Right Summary



[get image](#)
[list](#)

WR File Number:	C 04776	Subbasin:	CUB	Cross Reference:
Primary Purpose:	MON MONITORING WELL			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	0.000	Cause/Case:		
Owner:	DEVON ENERGY RESOURCES	Owner Class:	Owner	
Contact:	DALE WOODALL			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
_get images	751180	EXPL	2023-09-19	PMT	APR	C-4776 POD1	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tw	Rng	X	Y	Map	Other Location Desc
C 04776 POD1	NA		SW	SW	SW	09	23S	31E	613953.1	3575651.8		

* UTM location was derived from PLSS - see Help

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		MON		GW	

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.



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

Kolante Fed

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4776 Pod1		WELL TAG ID NO.		OSE FILE NO(S). CO4776			
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 205 E. Bender Road # 150				CITY Hobbs	STATE NM	ZIP 88240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 18	SECONDS 42.84	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND		
	LONGITUDE -103	47	22.2	W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 12-13-23		DRILLING ENDED 12-13-23		DEPTH OF COMPLETED WELL (FT) 105'	BORE HOLE DEPTH (FT) 105'	DEPTH WATER FIRST ENCOUNTERED (FT) Dry hole	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A	DATE STATIC MEASURED 12-16-23	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	95'	6"	2" PVC SCH40	Thread	2"	SCH40	N/A
	95'	105'	6"	2" PVC SCH40	Thread	2"	SCH40	.05
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				None Pulled and Plugged				

USE ON JAN 12 2024 PM 1:52

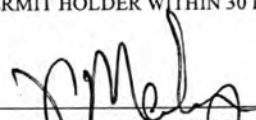
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-4776-POD1	POD NO. 1	TRN NO. 751180
LOCATION Expl 23.31.09.333	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL					
DEPTH (feet bgl)		THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER-BEARING ZONES (gpm)
FROM	TO				
0	5'	5'	Red Sand	Y ✓ N	
5'	20'	15'	Tan Fine Sand	Y ✓ N	
20'	40'	20'	Tan Fine sand with caliche rock	Y ✓ N	
40'	105'	65'	Red sand with medium rock	Y ✓ N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
				Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER – SPECIFY: Dry Hole				TOTAL ESTIMATED WELL YIELD (gpm): 0	

5. TEST; RIG SUPERVISION	
WELL TEST	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
MISCELLANEOUS INFORMATION:	
PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:	

6. SIGNATURE
THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING: <div style="text-align: center;">Jason Moley1/10/24</div> SIGNATURE OF DRILLER / PRINT SIGNEE NAME DATE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO. C-4776-POD 1	POD NO. 1	TRN NO. 751180	
LOCATION E-1 23.31.09.333	WELL TAG ID NO. _____		PAGE 2 OF 2

Mike A. Hamman, P.E.
State Engineer



well Office
1900 WEST SECOND STREET
ROSWELL, NM 88201

**STATE OF NEW MEXICO
OFFICE OF THE STATE ENGINEER**

Trn Nbr: 751180
File Nbr: C 04776
Well File Nbr: C 04776 POD1

Jan. 12, 2024

DALE WOODALL
DEVON ENERGY RESOURCES
205 E BENDER ROAD #150
HOBBS, NM 88240

Greetings:

The above numbered permit was issued in your name on 09/19/2023.

The Well Record was received in this office on 01/12/2024, stating that it had been completed on 12/13/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/18/2024.

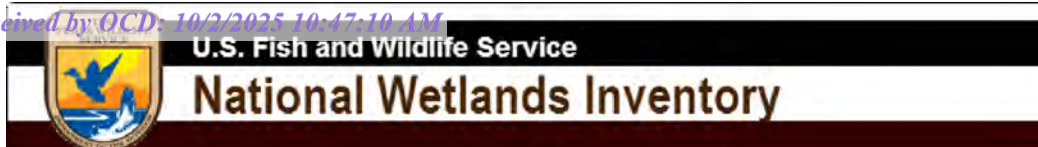
If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Maret Thompson".

Maret Thompson
(575) 622-6521

drywell

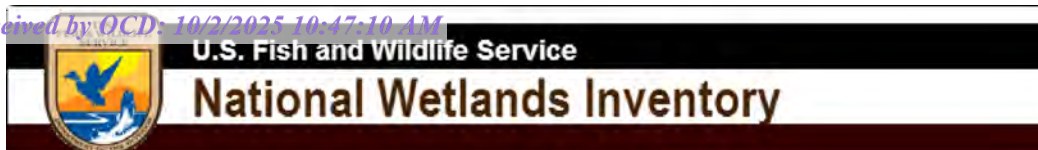


NPG 9 Fed 1 - Watercourse 5965 ft



May 14, 2025

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.



NPG 9 Fed 1 - Pond 5916 ft



U.S. Fish and Wildlife Service, National Standards and Support Team,
wetlands_team@fws.gov


May 14, 2025


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N Pure Gold 9 Feb 1

9,145 feet to nearest resident

Legend

 Resident

 Residence

 N Pure Gold



3000 ft

Active & Inactive Points of Diversion
(with Ownership Information)

(acre ft. per annum)				(R=POD has been replaced and no longer serves this file, C=the file is closed)						(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)							(NAD83 UTM in meters)		(meters)	
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tws	Range	X	Y	Map	Distance
C 04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C 04712 POD5	NA				SE	SE	SW	09	23S	31E	614392.9	3575754.4		24.5
C 04776	CUB	MON	0.000	DEVON ENERGY RESOURCES	ED	C 04776 POD1	NA				SW	SW	SW	09	23S	31E	613953.1	3575651.8		435.5
C 04709	CUB	MON	0.000	DEVON ENERGY	ED	C 04709 POD1	NA				SW	NW	NW	15	23S	31E	615508.8	3575262.4		1,222.0
C 04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C 04712 POD6	NA				SW	SW	SE	08	23S	31E	613146.6	3575740.1		1,234.4
C 04724	CUB	MON	0.000	DEVON ENERGY	ED	C 04724 POD1	NA				SE	SW	SW	10	23S	31E	615709.7	3575738.3		1,328.7
C 02774	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02774					SW	NW	SW	04	23S	31E	613857.0	3577745.0 *		2,079.1
C 03351	C	STK	3.000	BUREAU OF LAND MANAGEMENT	ED	C 03351				Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1		2,194.5
C 03140	CUB	MON	0.000	US DEPT OF ENERGY	ED	C 03140				Shallow	SE	NE	SE	04	23S	31E	615266.0	3577758.0 *		2,209.9
C 03389	C	STK	3.000	JIMMY MILLS 2005 GST TRUST	ED	C 03389					NW	NW	SW	17	23S	31E	612316.0	3574683.0		2,316.6
C 03394	C	PUB	0.000	JAMES HAMILTON CONSTRUCTION CO	ED	C 03389					NW	NW	SW	17	23S	31E	612316.0	3574683.0		2,316.6
C 02773	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02773					SE	NW	SW	03	23S	31E	615668.0	3577762.0 *		2,402.8
C 02777	CUB	MON	0.000	US DEPT OF ENERGY WIPP	ED	C 02777					SE	SE	SE	10	23S	31E	616973.8	3575662.1		2,593.8
C 03749	CUB	MON	0.000	US DEPARTMENT OF ENERGY	ED	C 03749 POD1				Shallow		NE	NE	15	23S	31E	616973.8	3575662.1		2,593.8
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD3	NA					NE	NE	07	23S	31E	612130.3	3577147.3		2,658.2
C 04897	CUB	MON	0.000	OXY USA INC.	ED	C 04897 POD1	NA				NW	NE	SW	21	23S	31E	614374.0	3573036.6		2,696.4
C 02664	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	C 02664				Shallow	SW	SW	NE	05	23S	31E	613049.0	3578138.0 *		2,749.2
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD5	NA				SE	SE	06	23S	31E	612138.8	3577393.1		2,789.9	
C 02492	CUB	COM	105.000	THE JIMMY MILLS GST TRUST	ED	C 02492				Shallow	SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		2,815.0
C 02865	CUB	EXP	0.000	STACY MILLS	ED	C 02865					SE	SE	SE	06	23S	31E	612056.0	3577320.0 *		2,815.0
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD2	NA					NE	NE	07	23S	31E	611893.1	3577123.1		2,849.9
					ED	C 04200 POD1	NA					NE	NE	07	23S	31E	611802.8	3577058.6		2,899.0
C 03668	C	STK	3.000	J T MILLS 2005 GST TRUST	ED	C 02492 POD2				Shallow	SW	NE	NE	07	23S	31E	611767.4	3576996.6		2,903.0
C 04200	CUB	EXP	0.000	JIMMY MILLS GST TRUST	ED	C 04200 POD4	NA				SE	SE	06	23S	31E	611996.2	3577521.8		2,981.1	
C 04855	CUB	MON	0.000	DEVON ENERGY PRODUCTION	ED	C 04855 POD1	NA				NE	SW	SW	11	23S	31E	617417.6	3575936.7		3,043.4
C 04772	CUB	MON	0.000	DEVON ENERGY RESOURCES	ED	C 04772 POD1	NA				NW	NW	NW	04	23S	31E	613895.0	3578780.5		3,086.0
C 02954	CUB	EXP	0.000	U.S. DEPARTMENT OF ENERGYCARLSBAD FIELD OFFICE, WIPP	ED	C 02954 EXPL				Shallow	SW	NW	SE	20	23S	31E	613114.0	3572906.0 *		3,097.9
C 04712	CUB	MON	0.000	HARVARD PETROLEUM COMPANY LLC	ED	C 04712 POD4	NA				NW	SE	SW	14	23S	31E	617535.4	3574316.2		3,458.0
C 02776	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02776					NE	NW	NW	05	23S	31E	612440.0	3578731.0 *		3,571.5
C 02767	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02767					SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3,656.4
C 02768	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02768					SE	NW	SE	33	22S	31E	614844.0	3579360.0 *		3,656.4
C 02725	CUB	MON	0.000	U.S. DEPT. OF ENERGY, WIPP	ED	C 02725					NW	NW	NW	05	23S	31E	612240.0	3578731.0 *		3,684.0
C 02775	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02775					NW	NW	NW	05	23S	31E	612240.0	3578731.0 *		3,684.0

(acre ft per annum)				(R=POD has been replaced and no longer serves this file, C=the file is closed)						(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest)						(NAD83 UTM in meters)				(meters)	
WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source	q64	q16	q4	Sec	Tw	Range	X	Y	Map	Distance	
C 02769	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02769 POD2				Artesian	SE	NE	SE	33	22S	31E	615260.6	3579312.3		3,685.8	
C 02687	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	C 02687					SE	NE	SE	33	22S	31E	615246.0	3579364.0 *		3,732.6	
C 03520	C	STK	0.000	SLASH 46, INC.	ED	C 03520 POD1					SW	NW	NW	07	23S	31E	610732.6	3576905.8		3,832.3	
C 02769	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02769					NE	NE	SE	33	22S	31E	615246.0	3579564.0 *		3,927.4	
C 03139	CUB	MON	0.000	US DEPT OF ENERGY	ED	C 03139					SE	NE	SE	01	23S	30E	610424.0	3577764.0 *		4,447.8	
C 04774	CUB	MON	0.000	DEVON ENGERGY RESOURCES	ED	C 04774 POD1	NA				SE	NE	NE	23	23S	31E	618456.0	3573856.4		4,486.3	
C 04553	CUB	MON	0.000	OXY USA INC	ED	C 04553 POD1	NA				SE	NW	SE	29	23S	31E	613255.5	3571369.8		4,506.0	
C 03222	CUB	MON	0.000	U.S. DEPART OF ENERGY	ED	C 03222 EXPLORE				Shallow	NW	NW	SE	12	23S	30E	609833.0	3576349.0 *		4,589.5	
C 04325	CUB	POL	0.000	XTO ENERGY INC	ED	C 04325 POD5	NA				SE	SE	NE	01	23S	30E	610375.9	3578216.3		4,712.5	
					ED	C 04325 POD13	NA				SE	SE	NE	01	23S	30E	610356.3	3578220.1		4,731.2	
					ED	C 04325 POD3	NA				SE	SE	NE	01	23S	30E	610362.7	3578231.5		4,731.7	
					ED	C 04325 POD16	NA				SE	SE	NE	01	23S	30E	610347.3	3578206.7		4,731.8	
					ED	C 04325 POD14	NA				SE	SE	NE	01	23S	30E	610346.7	3578215.7		4,737.0	
					ED	C 04325 POD4	NA				SE	SE	NE	01	23S	30E	610360.0	3578239.5		4,738.2	
					ED	C 04325 POD6	NA				SE	SE	NE	01	23S	30E	610360.0	3578239.5		4,738.2	
					ED	C 04325 POD10	NA				SE	SE	NE	01	23S	30E	610349.4	3578231.7		4,743.1	
					ED	C 04325 POD7	NA				SE	SE	NE	01	23S	30E	610345.5	3578227.4		4,744.2	
					ED	C 04325 POD12	NA				SE	SE	NE	01	23S	30E	610350.6	3578235.7		4,744.2	
					ED	C 04325 POD2	NA				SE	SE	NE	01	23S	30E	610349.6	3578234.8		4,744.6	
					ED	C 04325 POD1	NA				SE	SE	NE	01	23S	30E	610341.7	3578235.0		4,751.4	
					ED	C 04325 POD9	NA				SE	SE	NE	01	23S	30E	610339.4	3578232.8		4,752.2	
					ED	C 04325 POD15	NA				SE	SE	NE	01	23S	30E	610339.4	3578237.1		4,754.5	
					ED	C 04325 POD8	NA				SE	SE	NE	01	23S	30E	610334.0	3578228.5		4,754.5	
					ED	C 04325 POD11	NA				SE	SE	NE	01	23S	30E	610332.6	3578232.8		4,758.0	
C 02417	CUB	MON	0.000	U.S. DEPT. OF ENERGY	ED	C 02417				Artesian	SE	SE	SE	29	22S	31E	613623.0	3580554.0 *		4,880.2	
C 02757	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	C 02757					SE	SE	SE	28	22S	31E	615232.0	3580571.0 *		4,912.3	
C 02960	CUB	EXP	0.000	US DEPT. OF ENERGY CARLSBAD FIELD OFFICE, WIPP	ED	C 02960 EXPL					SW	SW	SW	31	22S	31E	610620.0	3578915.0 *		4,926.5	

Record Count: 59

Filters Applied:

UTM Filters (in meters):

Easting: 614381

Northing: 3575733

Radius: 005000

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.

Point of Diversion Summary

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

NAD83 UTM in meters

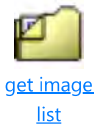
Well Tag	POD Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 02774	SW	NW	SW	04	23S	31E	613857.0	3577745.0 *	

* UTM location was derived from PLSS - see [Help](#)

Driller License:		Driller Company:	
Driller Name:		SANDIA NATIONAL LABS/USGS	
Drill Start Date:		Drill Finish Date:	1976-12-31
		Plug Date:	
Log File Date:		PCW Rcv Date:	
		Source:	
Pump Type:		Pipe Discharge Size:	
		Estimated Yield:	
Casing Size:		4.50	Depth Well:
		1660	Depth Water:

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Water Right Summary



WR File Number:	C 02774	Subbasin:	CUB	Cross Reference:
Primary Purpose:	MON MONITORING WELL			
Primary Status:	DCL Declaration			
Total Acres:	0.000	Subfile:	Header:	
Total Diversion:	0.000	Cause/Case:		
Owner:	U.S. DEPT. OF ENERGY - WIPP	Owner Class:	Owner	
Contact:	D.C. LYNN			

Documents on File

(acre-feet per annum)

Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
	195794	DCL	2000-11-06	DCL	PRC	C 02774	T	0.000	0.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 02774		SW	NW	SW	04	23S	31E	613857.0	3577745.0	*		

* UTM location was derived from PLSS - see Help

Source


Acres	Diversion	CU	Use	Priority	Source	Description
0.000	0.000		MON		GW	

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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 Nbr	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map
	C 03351	SE	NW	SE	04	23S	31E	614916.6	3577861.1	

* UTM location was derived from PLSS - see [Help](#)

Driller License:	421	Driller Company:	GLENN'S WATER WELL SERVICE
Driller Name:	GLENN, CLARK A. "CORKY" (LD)		
Drill Start Date:	2007-11-20	Drill Finish Date:	2007-11-20
Log File Date:	2007-12-04	PCW Rcv Date:	
Pump Type:		Pipe Discharge Size:	
Casing Size:	6.63	Depth Well:	320
		Depth Water:	168

Water Bearing Stratifications:

Top	Bottom	Description
240	265	Sandstone/Gravel/Conglomerate

Casing Perforations:

Top	Bottom
152	304

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Water Right Summary



[get image list](#)

WR File Number:	C 03351	Subbasin:	C	Cross Reference:
Primary Purpose:	STK 72-12-1 LIVESTOCK WATERING			
Primary Status:	PMT Permit			
Total Acres:		Subfile:		Header:
Total Diversion:	3.000	Cause/Case:		
Owner:	BUREAU OF LAND MANAGEMENT	Owner Class:	Owner	
Contact:	STEVE DALY			

Documents on File

(acre-feet per annum)

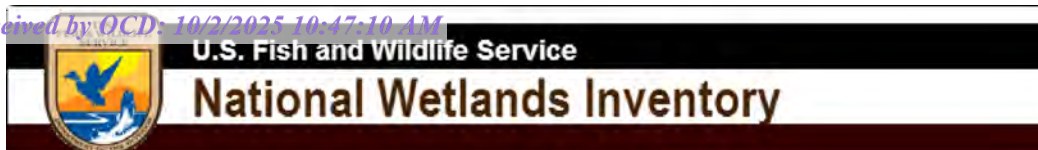
Transaction Images	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/To	Acres	Diversion	Consumptive
get images	469289	72121	2007-11-15	PMT	LOG	C 03351	T		3.000	

Current Points of Diversion

POD Number	Well Tag	Source	Q64	Q16	Q4	Sec	Tws	Rng	X	Y	Map	Other Location Desc
C 03351		Shallow	SE	NW	SE	04	23S	31E	614916.6	3577861.1		

* UTM location was derived from PLSS - see Help

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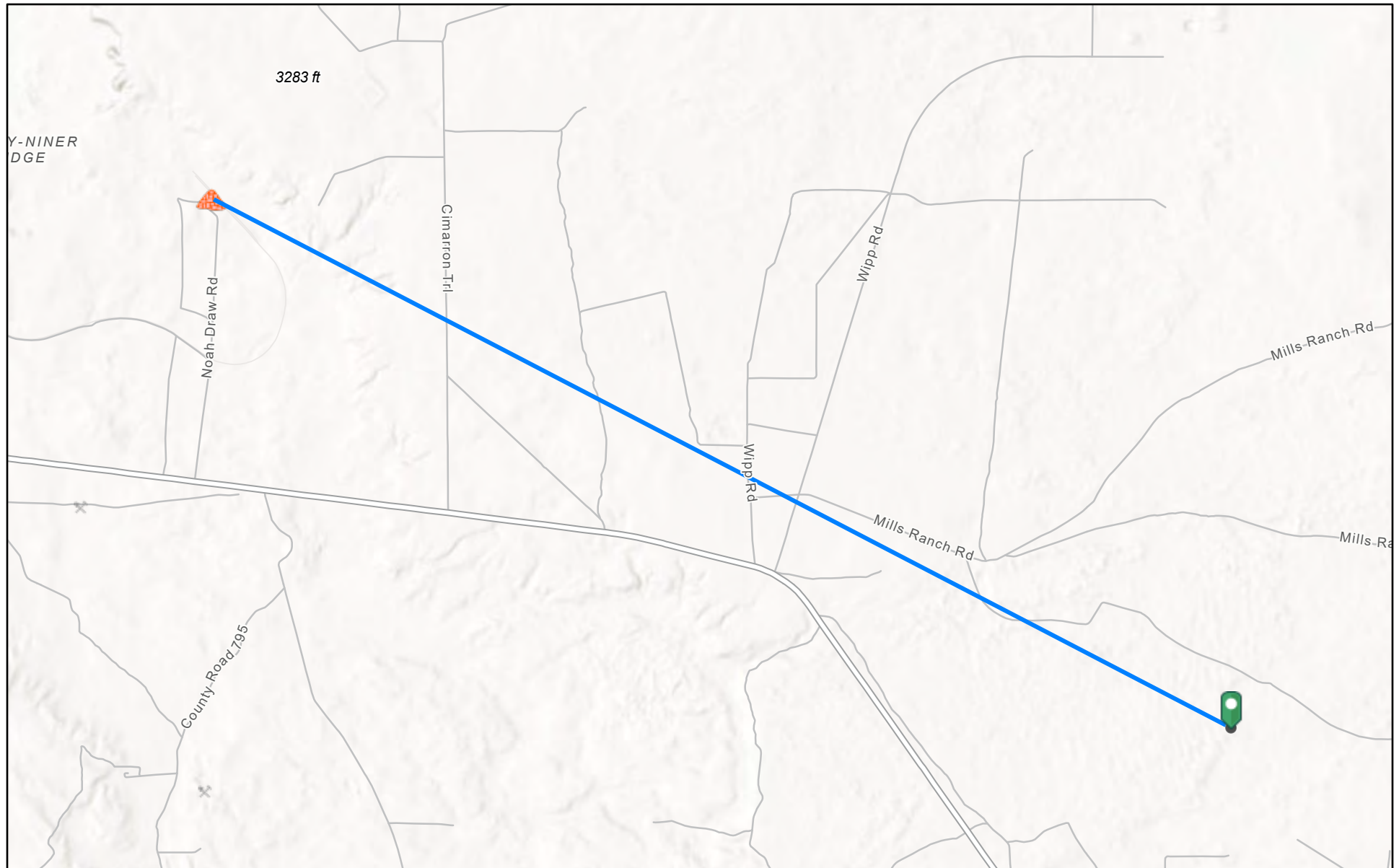
NPG 9 Fed 1 - Wetland 5881 ft



May 14, 2025

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North Pure Gold 9 Federal #001 - 34,074 feet from mine



1/26/2024, 7:31:01 AM

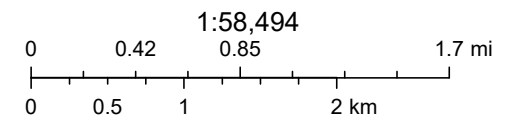
Registered Mines



Potash



Aggregate, Stone etc.



Texas Parks & Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri,

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (<http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795>)

North Pure Gold 9 Federal #001

13,768 feet from High Karst

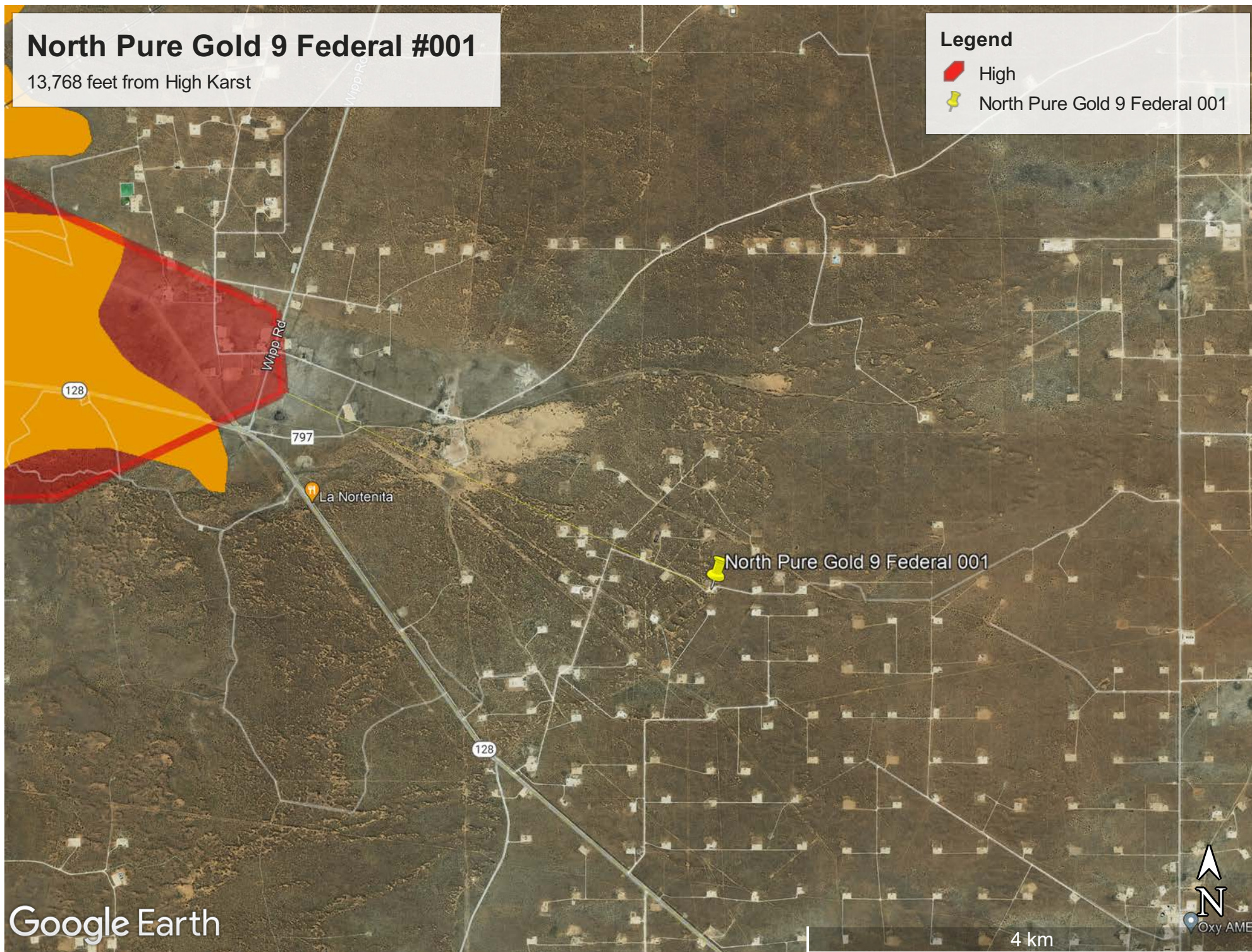
Legend



High



North Pure Gold 9 Federal 001



Google Earth

National Flood Hazard Layer FIRMette



103°47'25"W 32°19'1"N

























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

1:6,000

103°46'47"W 32°18'30"N

Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

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



The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 5/14/2025 at 7:05 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.

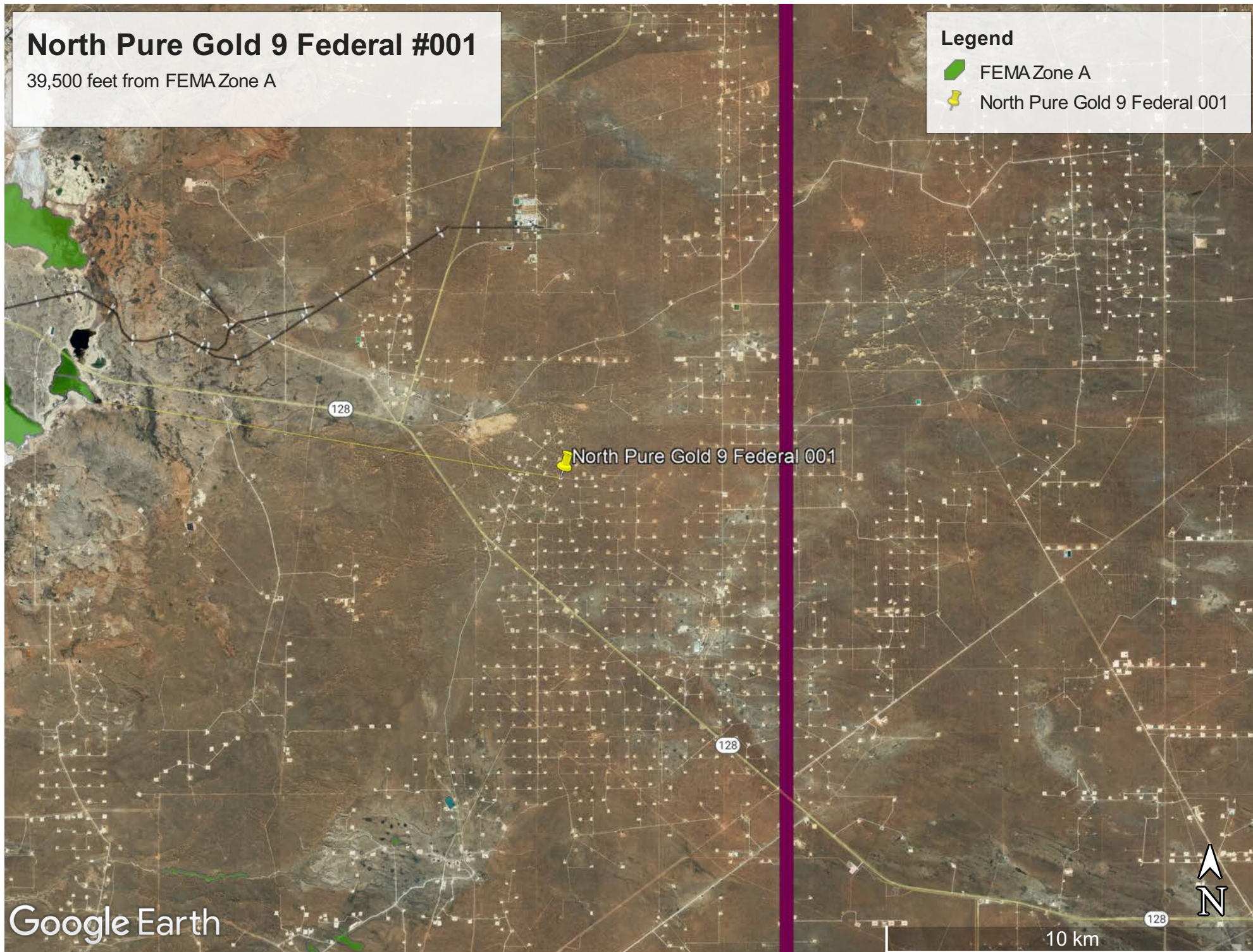
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

North Pure Gold 9 Federal #001

39,500 feet from FEMA Zone A

Legend

-  FEMA Zone A
-  North Pure Gold 9 Federal 001





United States
Department of
Agriculture

NRCS

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



January 25, 2024


Custom Soil Resource Report Soil Map



Custom Soil Resource Report

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

 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

 Slide or Slip


 Sodic Spot

 Spoil Area

 Stony Spot


 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails


 Interstate Highways

 US Routes

 Major Roads

 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 19, Sep 7, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Feb 7, 2020—May 12, 2020

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.

Custom Soil Resource Report

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
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
Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Ecological site: R070BD005NM - Deep Sand
Hydric soil rating: No

Description of Berino**Setting**

Landform: Plains, fan piedmonts
Landform position (three-dimensional): Riser

Custom Soil Resource Report

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
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 content: 40 percent
Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Ecological site: R070BD003NM - Loamy Sand
Hydric soil rating: No

Minor Components

Active dune land

Percent of map unit: 15 percent
Hydric soil rating: No

Ecological site R042XC005NM Deep Sand

Accessed: 04/23/2021

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.

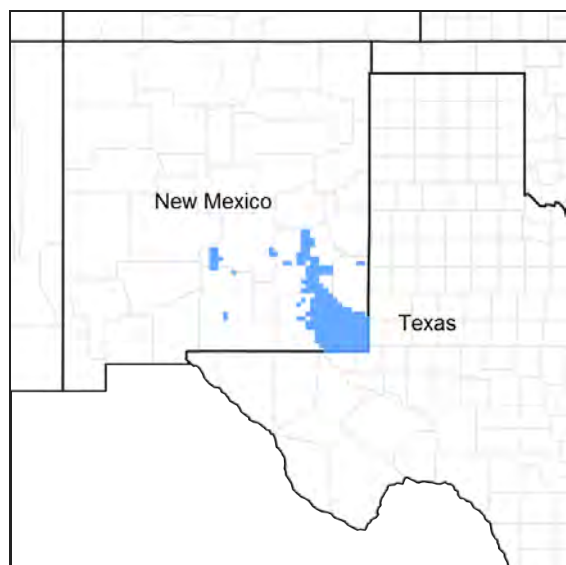


Figure 1. Mapped extent

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)

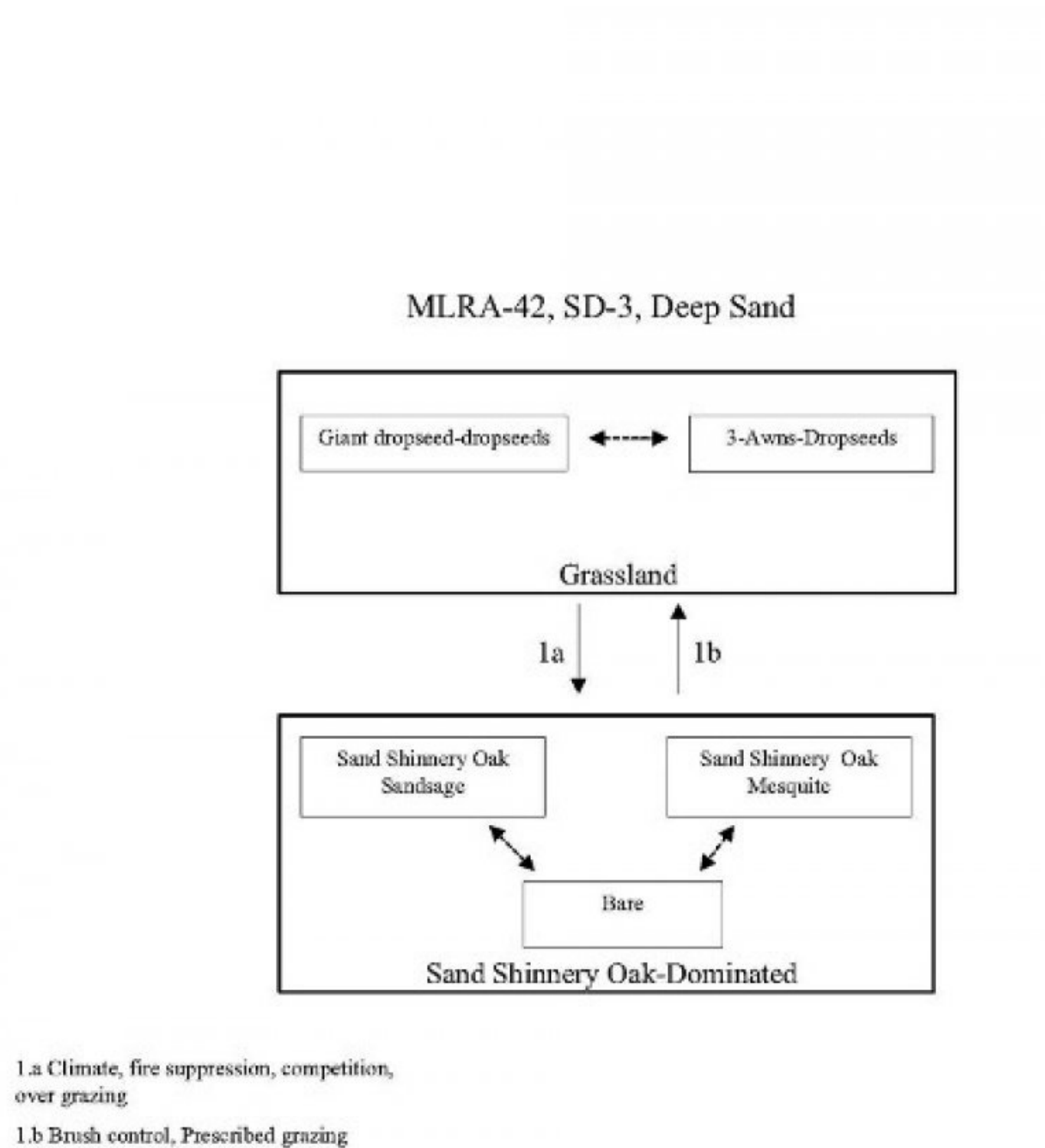


Figure 4.

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, almejitita 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:

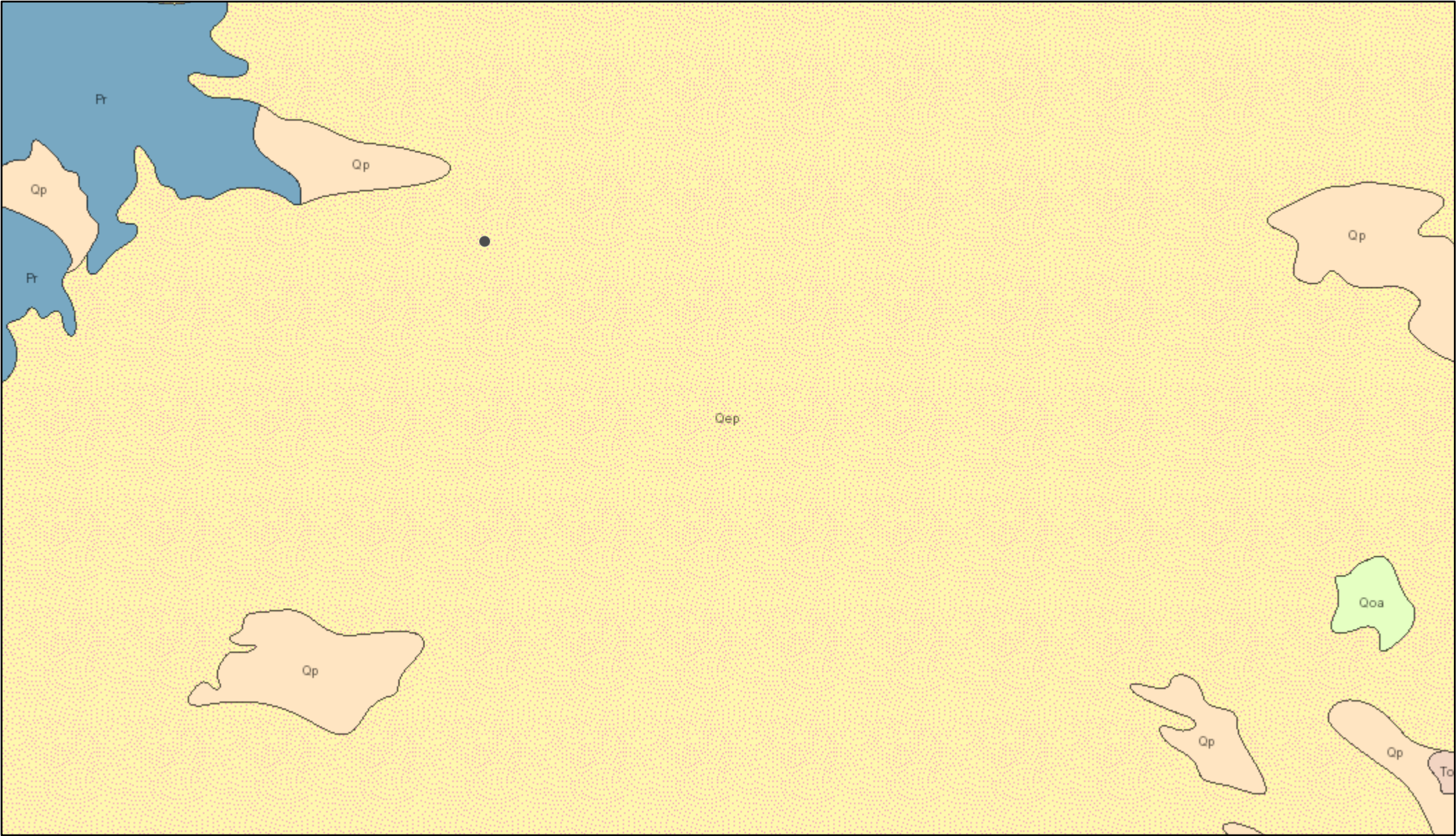
- Loss of grass and forb cover
- Surface soil erosion
- Bare patch expansion
- Increased shrub species abundance and composition

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	<i>Sporobolus contractus</i>	450–585	–
	sand dropseed	SPCR	<i>Sporobolus cryptandrus</i>	450–585	–
	mesa dropseed	SPFL2	<i>Sporobolus flexuosus</i>	450–585	–
	giant dropseed	SPGI	<i>Sporobolus giganteus</i>	450–585	–
2	Warm Season			65–104	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	65–104	–
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	65–104	–
3	Warm Season			39–91	
	threeawn	ARIST	<i>Aristida</i>	39–91	–
4	Warm Season			13–39	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	13–39	–
5	Warm Season			13–39	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	13–39	–
6	Warm Season			13–39	
	mat sandbur	CELO3	<i>Cenchrus longispinus</i>	13–39	–
7	Warm Season			13–39	
	Havard's panicgrass	PAHA2	<i>Panicum havardii</i>	13–39	–
8	Warm Season			13–65	
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	13–65	–
9	Other Annual Grasses			13–65	
	Grass, annual	2GA	<i>Grass, annual</i>	13–65	–
Shrub/Vine					
10	Shrub			65–130	
	Havard oak	QUHA3	<i>Quercus havardii</i>	65–130	–
11	Shrub			13–39	



7/27/2021, 2:44:08 PM

Lithologic Contacts

— Contact, Exposed

— Contact, Gradational

— Map Boundary

Faults

— Fault, Exposed

----- Fault, Concealed

~~~~ Shere Zone

Dikes

— Intermittent

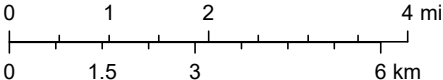
— <all other values>

— Dike

— Dike intruding fault

\* Volcanic Vents

1:144,448



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**



## Daily Site Visit Report

|                         |                          |                   |                    |
|-------------------------|--------------------------|-------------------|--------------------|
| Client:                 | Devon Energy Corporation | Inspection Date:  | 5/10/2019          |
| Site Location Name:     | North Pure Gold 9 Fed 1H | Report Run Date:  | 5/11/2019 12:15 AM |
| Project Owner:          | Amanda Davis             | File (Project) #: | 19E-00575          |
| Project Manager:        | Dennis Williams          | API #:            | 30-015-27178       |
| Client Contact Name:    | Amanda Davis             | Reference         | Historic Spills    |
| Client Contact Phone #: | (575) 748-0176           |                   |                    |

### Summary of Times

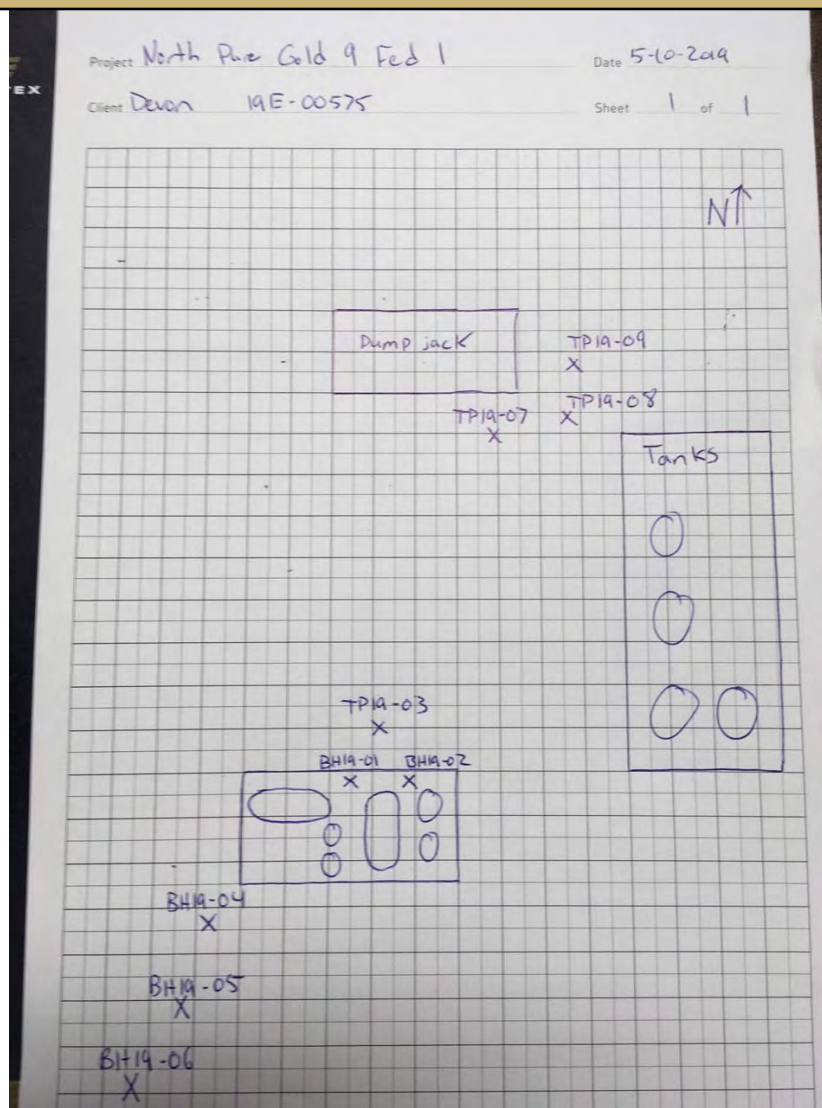
|                    |                   |
|--------------------|-------------------|
| Left Office        | 5/10/2019 7:45 AM |
| Arrived at Site    | 5/10/2019 8:45 AM |
| Departed Site      | 5/10/2019 3:30 PM |
| Returned to Office | 5/10/2019 4:15 PM |



## Daily Site Visit Report



## Site Sketch





# Daily Site Visit Report

## Summary of Daily Operations

**12:17** Fill out arrival, safety, and ground disturbance forms  
 Tailgate safety meeting  
 Begin taking and field screening samples from each spill area  
 Take pictures  
 Fill out DFR  
 Return to office

## Next Steps & Recommendations

1 Sample spill inside tank containment

## Sampling

### BH19-01

| Depth ft | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm   | Quantab<br>Reading ppm | Lab Analysis                                                                              | Picture | Trimble Location               | Marked On<br>Site Sketch? |
|----------|---------|-----------------------|------------------------|------------------------|-------------------------------------------------------------------------------------------|---------|--------------------------------|---------------------------|
| 2 ft.    | 0 ppm   | 49 ppm                | High (300-<br>6000ppm) | 274 ppm                | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |         | 32.31234057, -<br>103.78510568 | Yes                       |

### BH19-02

| Depth ft | VOC PID | Petro Flag<br>TPH ppm | Quantab<br>Range ppm   | Quantab<br>Reading ppm | Lab Analysis                                                                              | Picture | Trimble Location               | Marked On<br>Site Sketch? |
|----------|---------|-----------------------|------------------------|------------------------|-------------------------------------------------------------------------------------------|---------|--------------------------------|---------------------------|
| 2 ft.    | 0 ppm   | 575 ppm               | High (300-<br>6000ppm) | 309 ppm                | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |         | 32.31234799, -<br>103.78504484 | Yes                       |






# Daily Site Visit Report

| BH19-04  |         |                    |                    |                     |                                                                                           |         |                            |                        |  |
|----------|---------|--------------------|--------------------|---------------------|-------------------------------------------------------------------------------------------|---------|----------------------------|------------------------|--|
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm  | Quantab Reading ppm | Lab Analysis                                                                              | Picture | Trimble Location           | Marked On Site Sketch? |  |
| 2 ft.    | 9 ppm   | 760 ppm            | High (300-6000ppm) | 3968 ppm            | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |         | 32.31224441, -103.78527409 | Yes                    |  |
| BH19-05  |         |                    |                    |                     |                                                                                           |         |                            |                        |  |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm  | Quantab Reading ppm | Lab Analysis                                                                              | Picture | Trimble Location           | Marked On Site Sketch? |  |
| 0 ft.    | 7 ppm   | 146 ppm            | High (300-6000ppm) | 1269 ppm            | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |         | 32.31212367, -103.78531241 | Yes                    |  |
| BH19-06  |         |                    |                    |                     |                                                                                           |         |                            |                        |  |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm  | Quantab Reading ppm | Lab Analysis                                                                              | Picture | Trimble Location           | Marked On Site Sketch? |  |
| 2 ft.    | 9 ppm   | 33 ppm             | High (300-6000ppm) | 424 ppm             | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |         | 32.31208265, -103.78537964 | Yes                    |  |
| TP19-03  |         |                    |                    |                     |                                                                                           |         |                            |                        |  |
| Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm  | Quantab Reading ppm | Lab Analysis                                                                              | Picture | Trimble Location           | Marked On Site Sketch? |  |
| 2 ft.    | 2 ppm   | 169 ppm            | High (300-6000ppm) | 274 ppm             | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |         | 32.31237867, -103.78508475 | Yes                    |  |



## Daily Site Visit Report

| TP19-07 |          |         |                    |                    |                     |                                                                                           |                                                                                     |                            |                        |
|---------|----------|---------|--------------------|--------------------|---------------------|-------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------|------------------------|
|         | Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm  | Quantab Reading ppm | Lab Analysis                                                                              | Picture                                                                             | Trimble Location           | Marked On Site Sketch? |
|         | 4 ft.    | 11 ppm  | 1600 ppm           | High (300-6000ppm) | 2061 ppm            | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |  | 32.31260420, -103.78497668 | Yes                    |
| TP19-08 |          |         |                    |                    |                     |                                                                                           |                                                                                     |                            |                        |
|         | Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm  | Quantab Reading ppm | Lab Analysis                                                                              | Picture                                                                             | Trimble Location           | Marked On Site Sketch? |
|         | 4 ft.    | 7 ppm   | 1140 ppm           | High (300-6000ppm) | 1611 ppm            | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |  | 32.31259804, -103.78490309 | Yes                    |
| TP19-09 |          |         |                    |                    |                     |                                                                                           |                                                                                     |                            |                        |
|         | Depth ft | VOC PID | Petro Flag TPH ppm | Quantab Range ppm  | Quantab Reading ppm | Lab Analysis                                                                              | Picture                                                                             | Trimble Location           | Marked On Site Sketch? |
|         | 4 ft.    | 0 ppm   | 120 ppm            | High (300-6000ppm) | 274 ppm             | BTEX (EPA SW-846 Method 8021B/8260B), Chloride (EPA 300.0), TPH (EPA SW-846 Method 8015M) |  | 32.31264502, -103.78489604 | Yes                    |

## Daily Site Visit Report



## Site Photos

Viewing Direction: Northwest



Spill area around well head

Viewing Direction: Southeast



Spill area inside tank containment

Viewing Direction:



Standing fluids inside tank containment

Viewing Direction:





Standing fluids inside tank containment





## Daily Site Visit Report

| Viewing Direction:                                                                                                                                                                                                                                        | Viewing Direction: East                                                                                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Descriptive Photo<br/>Viewing Direction:<br/>Date: Standing fluids inside tank containment<br/>Created: 5/10/2019 8:01:27 PM<br/>Lat:32.418089, Long:-104.237006</p> |  <p>Descriptive Photo<br/>Viewing Direction: East<br/>Date: Instructions to hand dig inside containment<br/>Created: 5/10/2019 8:01:27 PM<br/>Lat:32.418089, Long:-104.237006</p> |
| Standing fluids inside tank containment                                                                                                                                                                                                                   | Instructions to hand dig inside containment                                                                                                                                                                                                                          |

# Daily Site Visit Report



## Depth Sample Photos

Sample Point ID: BH19-01



Depth: 2ft.

Sample Point ID: BH19-02



Depth: 2ft.

Sample Point ID: TP19-03



Depth: 2ft.

Sample Point ID: BH19-04



Depth: 2ft.



## Daily Site Visit Report

Sample Point ID: BH19-05



Depth: 0ft.

Sample Point ID: BH19-06



Depth: 2ft.

Sample Point ID: TP19-07



Depth: 4ft.

Sample Point ID: TP19-08

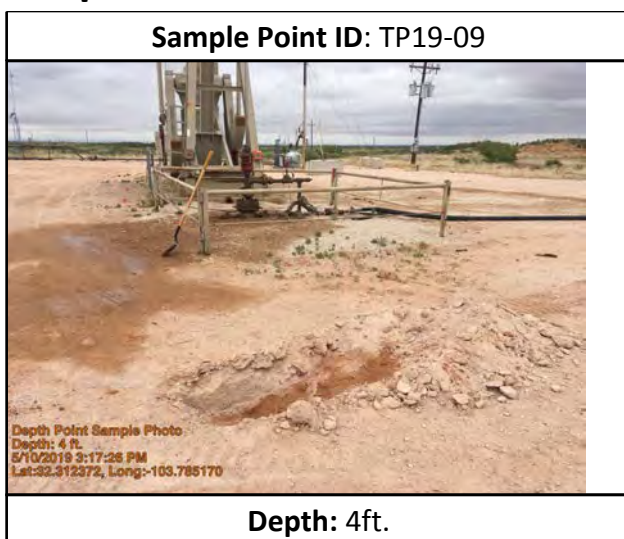


Depth: 4ft.





## Daily Site Visit Report





## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Jason Crabtree

**Signature:**

  
Signature



## Daily Site Visit Report

|                         |                          |                   |                    |
|-------------------------|--------------------------|-------------------|--------------------|
| Client:                 | Devon Energy Corporation | Inspection Date:  | 4/9/2020           |
| Site Location Name:     | North Pure Gold 9 Fed 1H | Report Run Date:  | 4/10/2020 12:01 AM |
| Project Owner:          | Amanda Davis             | File (Project) #: | 19E-00575          |
| Project Manager:        | Dennis Williams          | API #:            | 30-015-27178       |
| Client Contact Name:    | Amanda Davis             | Reference         | Historic Spills    |
| Client Contact Phone #: | (575) 748-0176           |                   |                    |

### Summary of Times

|                    |                   |
|--------------------|-------------------|
| Left Office        | 4/9/2020 9:45 AM  |
| Arrived at Site    | 4/9/2020 10:28 AM |
| Departed Site      | 4/9/2020 4:44 PM  |
| Returned to Office |                   |

### Summary of Daily Operations

**10:28** Complete hand excavation. Take confirmation samples of pasture area

**16:36** Pasture excavation was at depth of 1 ft no signs of staining or odor

### Next Steps & Recommendations

- 1 Send samples to lab for analysis
- 2 Start closure report

## Daily Site Visit Report



## Site Photos

Viewing Direction: East



Area hand excavated on pad in front of heater

Viewing Direction: North



Area of hand excavation under piping on south side of location

Viewing Direction: South



Pasture area where excavation occurred

Viewing Direction: Southwest



Pasture area where excavation occurred



## Daily Site Visit Report

Viewing Direction: West



Area of excavation in pasture

Viewing Direction: North



Pasture excavation



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Monica Peppin

**Signature:**



## Daily Site Visit Report

|                         |                          |                   |                   |
|-------------------------|--------------------------|-------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date:  | 5/18/2020         |
| Site Location Name:     | North Pure Gold 9 Fed 1H | Report Run Date:  | 5/28/2020 7:03 PM |
| Project Owner:          |                          | File (Project) #: |                   |
| Project Manager:        |                          | API #:            | 30-015-27178      |
| Client Contact Name:    | Amanda Davis             | Reference         |                   |
| Client Contact Phone #: | (575) 748-0176           |                   |                   |

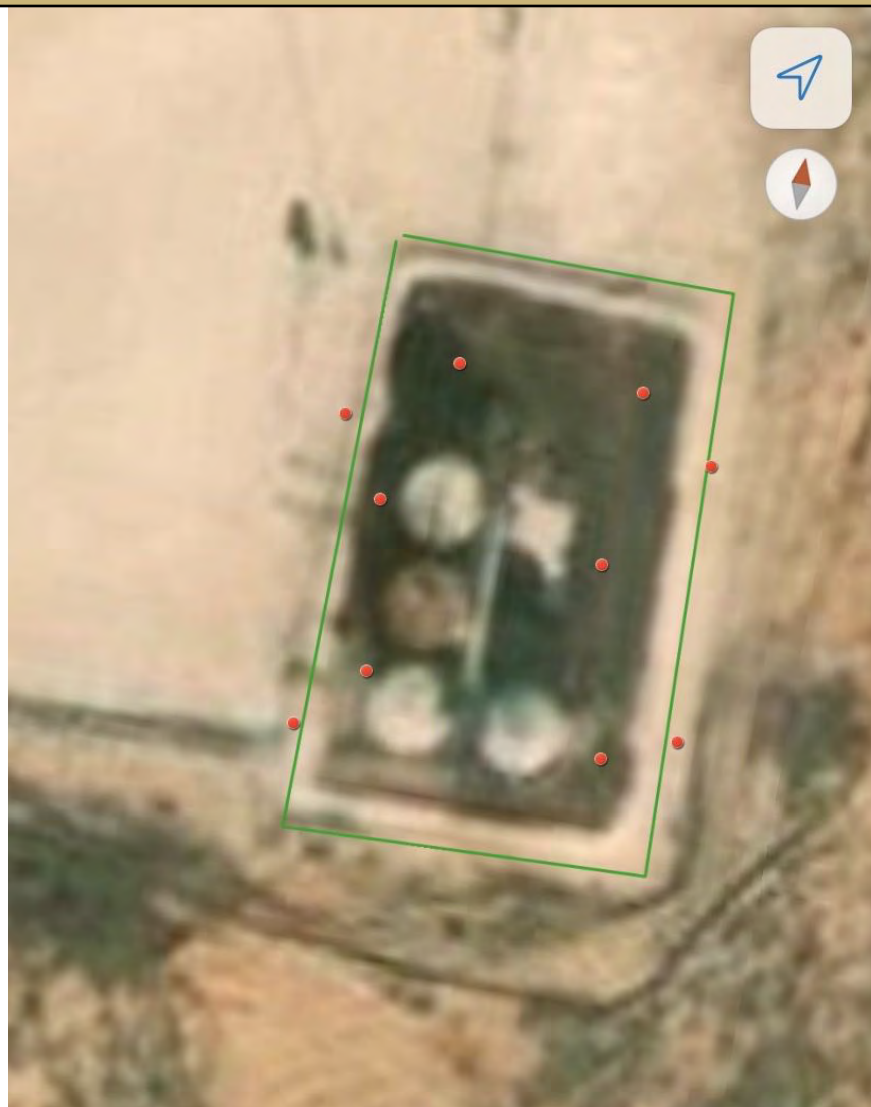
### Summary of Times

|                    |                    |
|--------------------|--------------------|
| Left Office        | 5/18/2020 10:11 AM |
| Arrived at Site    | 5/18/2020 10:11 AM |
| Departed Site      | 5/28/2020 3:30 PM  |
| Returned to Office | 5/18/2020 4:16 PM  |

## Daily Site Visit Report



### Site Sketch





## Daily Site Visit Report





## Daily Site Visit Report



### Summary of Daily Operations

**11:06** Collect confirmatory samples inside containment. Collect field screens to ensure passing.

### Next Steps & Recommendations

- 1** Submit confirmation samples for lab analysis.
- 2** Additional remediation if necessary
- 3** Submit closure report

## Daily Site Visit Report



## Site Photos

## Viewing Direction: East



Containment Area

## Viewing Direction: East



Remediated Area

## Viewing Direction: East



Area applied with Remediate





## Viewing Direction: South



Area applied with Remediate



## Daily Site Visit Report

|                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Viewing Direction: Southeast</b></p>  <p><b>Descriptive Photo</b><br/>Viewing Direction: Southeast<br/>Desc: Area applied with Remediat<br/>Created: 5/28/2020 11:04:50 AM<br/>Lat:32.385715, Long: -104.237921</p> <p>Area applied with Remediat</p> | <p><b>Viewing Direction: South</b></p>  <p><b>Descriptive Photo</b><br/>Viewing Direction: South<br/>Desc: Area applied with Remediat<br/>Created: 5/28/2020 11:23:21 AM<br/>Lat:32.385717, Long: -104.237882</p> <p>Area applied with Remediat</p>  |
| <p><b>Viewing Direction: West</b></p>  <p><b>Descriptive Photo</b><br/>Viewing Direction: West<br/>Desc: Area applied with Remediat<br/>Created: 5/28/2020 11:24:28 AM<br/>Lat:32.385685, Long: -104.237839</p> <p>Area applied with Remediat</p>          | <p><b>Viewing Direction: North</b></p>  <p><b>Descriptive Photo</b><br/>Viewing Direction: North<br/>Desc: Area applied with Remediat<br/>Created: 5/28/2020 11:28:20 AM<br/>Lat:32.385685, Long: -104.237839</p> <p>Area applied with Remediat</p> |



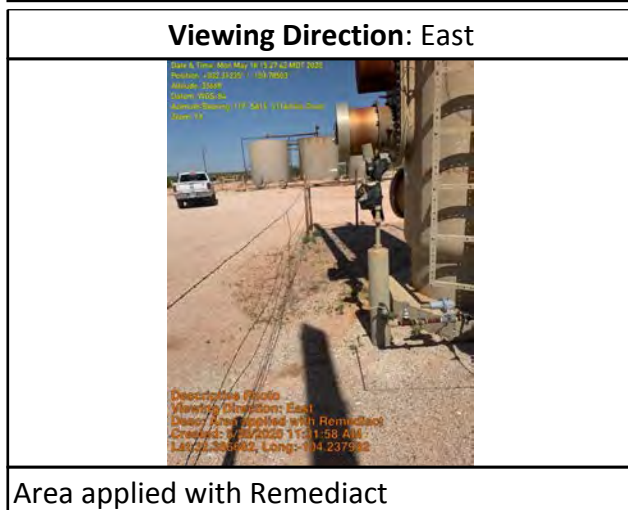
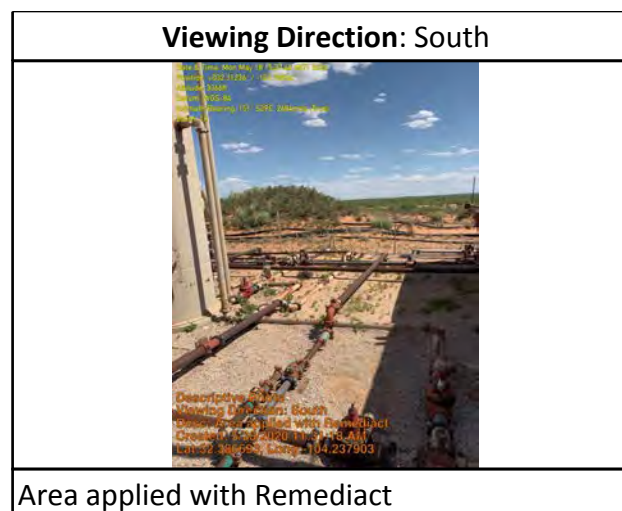
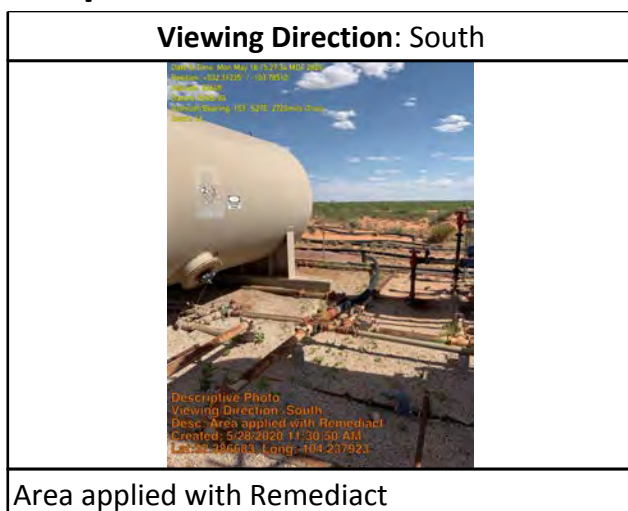
## Daily Site Visit Report

|                                                                              |                                                                          |
|------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <p><b>Viewing Direction: South</b></p> <p>Area adjacent to containment</p>   | <p><b>Viewing Direction: South</b></p> <p>Well pad</p>                   |
| <p><b>Viewing Direction: Southeast</b></p> <p>Area applied with Remediat</p> | <p><b>Viewing Direction: South</b></p> <p>Area applied with Remediat</p> |





## Daily Site Visit Report



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Kevin Smith

**Signature:**

A handwritten signature in black ink, appearing to read 'Kevin Smith', written over a thin horizontal line.

Signature



## Daily Site Visit Report

|                         |                          |                  |                   |
|-------------------------|--------------------------|------------------|-------------------|
| Client:                 | Devon Energy Corporation | Inspection Date: | 5/1/2025          |
| Site Location Name:     | North Pure Gold 9 Fed 1H | Report Run Date: | 5/2/2025 12:03 AM |
| Client Contact Name:    | Jim Raley                | API #:           | 30-015-27178      |
| Client Contact Phone #: | 575-748-0176             |                  |                   |
| Unique Project ID       |                          | Project Owner:   |                   |
| Project Reference #     |                          | Project Manager: |                   |

### Summary of Times

|                 |                  |
|-----------------|------------------|
| Arrived at Site | 5/1/2025 7:10 AM |
| Departed Site   | 5/1/2025 4:30 PM |

## Daily Site Visit Report



Site Sketch

Site Sketch



## Daily Site Visit Report



### Field Notes

**8:02** Line sweep has been completed. Confirmation samples will be collected.

**8:14** Confirmation sites have been marked with a white flag

**15:54** Work scope: to conduct confirmation sampling (5 boreholes per sample)

### Next Steps & Recommendations

**1** Send confirmations samples to lab for lab analysis. Once lab analysis has been completed we can begin to decide what the next step is.

## Daily Site Visit Report



## Site Photos

## Viewing Direction: Southeast



BS25-24 - 5 boreholes per base sample at 1ft.

## Viewing Direction: Southeast



BS25-23 - 5 boreholes per base sample at 1ft.

## Viewing Direction: Southwest



BS24-22 - 5 boreholes per base sample at 1ft.





## Viewing Direction: Southeast



BS25-21 - 5 boreholes per base sample at 1ft.



## Daily Site Visit Report

|                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Viewing Direction: Southwest</b></p>  <p>BS25-20 - 5 boreholes per base sample at 1ft. Did not extend further to the west due to road traffic</p> | <p><b>Viewing Direction: Northwest</b></p>  <p>BS25-19 - 5 boreholes per base sample at 1ft. Did not extend further to the west due to road traffic</p> |
| <p><b>Viewing Direction: Southeast</b></p>  <p>BS25-26 - 5 boreholes per base sample at 1ft-2ft.</p>                                                   | <p><b>Viewing Direction: Southeast</b></p>  <p>BS25-27 - 5 boreholes per base sample at 1ft-2ft.</p>                                                   |





## Daily Site Visit Report

**Viewing Direction: Southeast**



BS25-25 - 5 boreholes per base sample at 1ft-2ft.

**Viewing Direction: Southeast**



BS25-30 - 5 boreholes per base sample at 1ft-2ft.

**Viewing Direction: Northwest**



BS25-28 - 5 boreholes per base sample at 1-2ft.

**Viewing Direction: Southeast**



BS25-31 - 5 boreholes per base sample at 1-2ft.





## Daily Site Visit Report

**Viewing Direction: Northwest**



BS25-29 - 5 boreholes per base sample at 1-2ft.

**Viewing Direction: South**



BS25-40 - 5 boreholes per base sample at 2ft.

**Viewing Direction: Northwest**



BS25-39 - 5 boreholes per base sample at 2ft.

**Viewing Direction: North**



BS25-32 - 5 boreholes per base sample at 2ft.



## Daily Site Visit Report

### Viewing Direction: South



BS25-60 - 5 boreholes per base sample at 2ft.

### Viewing Direction: Northwest



BS25-41 - 5 boreholes per base sample at 2ft.

### Viewing Direction: North



BS25-38 - 5 boreholes per base sample at 2ft.

### Viewing Direction: North



BS25-33 - 5 boreholes per base sample at 2ft.





## Daily Site Visit Report

### Viewing Direction: Northeast



BS25-34 - 5 boreholes per base sample at 2ft.

### Viewing Direction: East



BS25-35 - 5 boreholes per base sample at 2ft.

### Viewing Direction: South



BS25-36 - 5 boreholes per base sample at 2ft.

### Viewing Direction: West



BS25-37 - 5 boreholes per base sample at 2ft.



## Daily Site Visit Report

### Viewing Direction: South



BS25-42 - 5 boreholes per base sample at 2ft.

### Viewing Direction: East



BS25-59 - 5 boreholes per base sample at 2ft.

### Viewing Direction: East



BS25-43 - 5 boreholes per base sample at 2ft.

### Viewing Direction: West



BS25-45 - 5 boreholes per base sample at 2ft.





## Daily Site Visit Report

**Viewing Direction: North**



BS24-48 - 5 boreholes per base sample at 2ft.

**Viewing Direction: East**



BS25-51 - 5 boreholes per base sample at 2ft.

**Viewing Direction: South**



BS25-52 - 5 boreholes per base sample at 2ft.

**Viewing Direction: East**



BS25-49 - 5 boreholes per base sample at 2ft.



## Daily Site Visit Report

**Viewing Direction: South**



BS25-50 - 5 boreholes per base sample at 2ft.

**Viewing Direction: South**



BS25-58 - 5 boreholes per base sample at 2ft.

**Viewing Direction: West**



BS25-57 - 5 boreholes per base sample at 2ft.

**Viewing Direction: West**



BS25-56 - 5 boreholes per base sample at 2ft.





## Daily Site Visit Report

**Viewing Direction: West**



BS25-55 - 5 boreholes per base sample at 2ft.

**Viewing Direction: Northwest**



BS25-54 - 5 boreholes per base sample at 2ft.

**Viewing Direction: East**



BS25-53 - 5 boreholes per base sample at 2ft.

**Viewing Direction: East**



BS25-46 - 5 boreholes per base sample at 2ft.



## Daily Site Visit Report

### Viewing Direction: Northeast



Southeast side has been covered looking towards the northwest

### Viewing Direction: West



South side of pad has been covered where tanks and containment are present

### Viewing Direction: South



Site has been covered from the southwest side looking towards the south.

### Viewing Direction: Southeast



Site has been covered from the northwest site looking towards the southeast





## Daily Site Visit Report

### Viewing Direction: Southwest



Site has been covered from the northeast side looking towards the southwest

### Viewing Direction: Southwest



Site has been covered from the northeast side looking towards the southwest

### Viewing Direction: Northeast



Southeast side has been covered looking towards the northwest

### Viewing Direction: Southwest



Site has been covered from the southwest side looking towards the northeast



## Daily Site Visit Report

### Viewing Direction: Southeast



Site has been covered from the northwest site looking towards the southeast

### Viewing Direction: Southeast



Site has been covered from the northwest site looking towards the southeast

### Viewing Direction: Southeast



Site has been covered from the northeast side looking towards the southwest

## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Sharon Minnix

**Signature:**   
Signature

## **APPENDIX D – Laboratory Data Reports and Chain of Custody Forms**





## Analytical Report

### Report Summary

Client: Devon Energy - Carlsbad

Samples Received: 5/14/2019

Job Number: 19031-0001

Work Order: P905047

Project Name/Location: North Pure Gold 9 Fed #1

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a light blue horizontal line.

Date: 5/20/19

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.  
Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.  
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Envirotech, Inc, currently holds the appropriate and available Utah TNI certification NM009792018-1 for the data reported.



Devon Energy - Carlsbad  
6488 7 Rivers Hwy  
Artesia NM, 88210

Project Name: North Pure Gold 9 Fed #1  
Project Number: 19031-0001  
Project Manager: Amanda Davis

**Reported:**  
05/20/19 16:04

### Analytical Report for Samples

| Client Sample ID | Lab Sample ID | Matrix | Sampled  | Received | Container        |
|------------------|---------------|--------|----------|----------|------------------|
| BH19-01 2'       | P905047-01A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| BH19-02 2'       | P905047-02A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-03 2'       | P905047-03A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| BH19-04 2'       | P905047-04A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| BH19-05 0'       | P905047-05A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| BH19-06 2'       | P905047-06A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-07 4'       | P905047-07A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-08 4'       | P905047-08A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-09 4'       | P905047-09A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-10 1'       | P905047-10A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-11 1'       | P905047-11A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-12 1'       | P905047-12A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-13 1'       | P905047-13A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-14 2'       | P905047-14A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-15 2'       | P905047-15A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-16 6'       | P905047-16A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-17 2'       | P905047-17A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-18 8'       | P905047-18A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |
| TP19-19 8'       | P905047-19A   | Soil   | 05/12/19 | 05/14/19 | Glass Jar, 4 oz. |

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**BH19-01 2'**  
**P905047-01 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 103 %  |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |    |        |       |        |         |          |          |           |  |
|------------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | 91.7 % |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |    | 93.3 % |       | 50-200 | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**BH19-02 2'**  
**P905047-02 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|----|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Toluene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Ethylbenzene                               | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| p,m-Xylene                                 | ND | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| o-Xylene                                   | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Total Xylenes                              | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | <i>100 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/17/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |             |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|-------------|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | ND          | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | <b>2030</b> | 125           | mg/kg | 5             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | <b>1140</b> | 250           | mg/kg | 5             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |             | <i>90.5 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/17/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |             | <i>119 %</i>  |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/15/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-03 2'**  
**P905047-03 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 101 %  |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |      |        |       |        |         |          |          |           |  |
|------------------------------------------------|------|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND   | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | 27.8 | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | ND   | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |      | 93.2 % |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |      | 98.1 % |       | 50-200 | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**BH19-04 2'**  
**P905047-04 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 101 %  |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |      |        |       |        |         |          |          |           |  |
|------------------------------------------------|------|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND   | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | ND   | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | 65.5 | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |      | 92.1 % |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |      | 100 %  |       | 50-200 | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**BH19-05 0'**  
**P905047-05 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 101 %  |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |    |        |       |        |         |          |          |           |  |
|------------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | 92.9 % |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |    | 99.2 % |       | 50-200 | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**BH19-06 2'**  
**P905047-06 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|----|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Toluene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Ethylbenzene                               | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| p,m-Xylene                                 | ND | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| o-Xylene                                   | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Total Xylenes                              | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | <i>104 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/17/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |    |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|----|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/14/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/14/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | <i>91.1 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/17/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |    | <i>94.9 %</i> |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/14/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |             |      |       |   |         |          |          |                    |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>78.6</b> | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-07 4'**  
**P905047-07 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|----|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Toluene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Ethylbenzene                               | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| p,m-Xylene                                 | ND | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| o-Xylene                                   | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Total Xylenes                              | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | <i>103 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/17/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |    |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|----|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/14/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/14/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | <i>92.0 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/17/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |    | <i>111 %</i>  |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/14/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |             |      |       |   |         |          |          |                    |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>86.9</b> | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-08 4'**  
**P905047-08 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 103 %  |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |    |        |       |        |         |          |          |           |  |
|------------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | 92.0 % |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |    | 95.7 % |       | 50-200 | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |     |      |       |   |         |          |          |                    |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 202 | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|-----|------|-------|---|---------|----------|----------|--------------------|--|

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|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-09 4'**  
**P905047-09 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|----|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Toluene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Ethylbenzene                               | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| p,m-Xylene                                 | ND | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| o-Xylene                                   | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| Total Xylenes                              | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | <i>104 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/17/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |    |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|----|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/17/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/14/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/14/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | <i>93.0 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/17/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |    | <i>99.3 %</i> |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/14/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-10 1'**  
**P905047-10 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 103 %  |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |    |        |       |        |         |          |          |           |  |
|------------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | 92.2 % |       | 50-150 | 1920021 | 05/14/19 | 05/17/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |    | 93.3 % |       | 50-200 | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-11 1'**  
**P905047-11 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 103 %  |       | 50-150 | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |    |        |       |        |         |          |          |           |  |
|------------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | 91.2 % |       | 50-150 | 1920021 | 05/14/19 | 05/18/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |    | 91.1 % |       | 50-200 | 1920020 | 05/14/19 | 05/14/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                 |  |
|----------|----|------|-------|---|---------|----------|----------|-----------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA 300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|-----------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-12 1'**  
**P905047-12 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|----|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Toluene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Ethylbenzene                               | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| p,m-Xylene                                 | ND | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| o-Xylene                                   | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Total Xylenes                              | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | <i>104 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/18/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |    |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|----|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | <i>90.1 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/18/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |    | <i>99.2 %</i> |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/15/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                                    |
|-------------------------|------------------|--------------------------|------------------------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 | <b>Reported:</b><br>05/20/19 16:04 |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               |                                    |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             |                                    |

**TP19-13 1'**  
**P905047-13 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 104 %  |       | 50-150 | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |    |        |       |        |         |          |          |           |  |
|------------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | 90.6 % |       | 50-150 | 1920021 | 05/14/19 | 05/18/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |    | 103 %  |       | 50-200 | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-14 2'**  
**P905047-14 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|----|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Toluene                                    | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Ethylbenzene                               | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| p,m-Xylene                                 | ND | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| o-Xylene                                   | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Total Xylenes                              | ND | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | <i>104 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/18/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |    |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|----|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | <i>91.7 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/18/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |    | <i>99.1 %</i> |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/15/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |             |      |       |   |         |          |          |                    |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>3100</b> | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
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| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-15 2'**  
**P905047-15 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |    |        |       |        |         |          |          |           |  |
|--------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Toluene                                    | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Ethylbenzene                               | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| p,m-Xylene                                 | ND | 0.0500 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| o-Xylene                                   | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| Total Xylenes                              | ND | 0.0250 | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |    | 104 %  |       | 50-150 | 1920021 | 05/14/19 | 05/18/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |    |        |       |        |         |          |          |           |  |
|------------------------------------------------|----|--------|-------|--------|---------|----------|----------|-----------|--|
| Gasoline Range Organics (C6-C10)               | ND | 20.0   | mg/kg | 1      | 1920021 | 05/14/19 | 05/18/19 | EPA 8015D |  |
| Diesel Range Organics (C10-C28)                | ND | 25.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |
| Oil Range Organics (C28-C40)                   | ND | 50.0   | mg/kg | 1      | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |    | 91.8 % |       | 50-150 | 1920021 | 05/14/19 | 05/18/19 | EPA 8015D |  |
| <i>Surrogate: n-Nonane</i>                     |    | 94.0 % |       | 50-200 | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |  |

**Anions by 300.0/9056A**

|          |    |      |       |   |         |          |          |                    |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | ND | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|----|------|-------|---|---------|----------|----------|--------------------|--|

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|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-16 6'**  
**P905047-16 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |               |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|---------------|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND            | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Toluene                                    | <b>0.0324</b> | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Ethylbenzene                               | <b>0.148</b>  | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| p,m-Xylene                                 | <b>0.611</b>  | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| o-Xylene                                   | <b>0.221</b>  | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Total Xylenes                              | <b>0.832</b>  | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |               | <i>106 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/18/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |            |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|------------|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | ND         | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | <b>216</b> | 25.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | ND         | 50.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |            | <i>95.8 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/18/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |            | <i>99.6 %</i> |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/15/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |             |      |       |   |         |          |          |                    |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>32.3</b> | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|-------------|------|-------|---|---------|----------|----------|--------------------|--|

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|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-17 2'**  
**P905047-17 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |              |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|--------------|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND           | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Toluene                                    | ND           | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Ethylbenzene                               | <b>0.123</b> | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| p,m-Xylene                                 | <b>0.505</b> | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| o-Xylene                                   | <b>0.104</b> | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| Total Xylenes                              | <b>0.610</b> | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |              | <i>102 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/18/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |             |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|-------------|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | <b>22.2</b> | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/18/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | <b>926</b>  | 25.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | <b>199</b>  | 50.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |             | <i>93.1 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/18/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |             | <i>101 %</i>  |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/15/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |            |      |       |   |         |          |          |                    |  |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>144</b> | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-18 8'**  
**P905047-18 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |      |        |       |        |         |          |          |           |  |
|--------------------------------------------|------|--------|-------|--------|---------|----------|----------|-----------|--|
| Benzene                                    | 2.20 | 0.250  | mg/kg | 10     | 1920021 | 05/14/19 | 05/20/19 | EPA 8021B |  |
| Toluene                                    | 32.5 | 0.250  | mg/kg | 10     | 1920021 | 05/14/19 | 05/20/19 | EPA 8021B |  |
| Ethylbenzene                               | 14.3 | 0.250  | mg/kg | 10     | 1920021 | 05/14/19 | 05/20/19 | EPA 8021B |  |
| p,m-Xylene                                 | 62.6 | 0.500  | mg/kg | 10     | 1920021 | 05/14/19 | 05/20/19 | EPA 8021B |  |
| o-Xylene                                   | 19.3 | 0.250  | mg/kg | 10     | 1920021 | 05/14/19 | 05/20/19 | EPA 8021B |  |
| Total Xylenes                              | 81.9 | 0.250  | mg/kg | 10     | 1920021 | 05/14/19 | 05/20/19 | EPA 8021B |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |      | 95.4 % |       | 50-150 | 1920021 | 05/14/19 | 05/20/19 | EPA 8021B |  |

**Nonhalogenated Organics by 8015**

|                                                |       |       |       |        |         |          |          |           |       |
|------------------------------------------------|-------|-------|-------|--------|---------|----------|----------|-----------|-------|
| Gasoline Range Organics (C6-C10)               | 1270  | 200   | mg/kg | 10     | 1920021 | 05/14/19 | 05/20/19 | EPA 8015D |       |
| Diesel Range Organics (C10-C28)                | 14800 | 250   | mg/kg | 10     | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |       |
| Oil Range Organics (C28-C40)                   | 2430  | 500   | mg/kg | 10     | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D |       |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |       | 104 % |       | 50-150 | 1920021 | 05/14/19 | 05/20/19 | EPA 8015D |       |
| <i>Surrogate: n-Nonane</i>                     |       | 472 % |       | 50-200 | 1920020 | 05/14/19 | 05/15/19 | EPA 8015D | Surr2 |

**Anions by 300.0/9056A**

|          |      |      |       |   |         |          |          |                    |  |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | 1170 | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|------|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**TP19-19 8'**  
**P905047-19 (Solid)**

| Reporting |        |       |       |          |       |          |          |        |       |
|-----------|--------|-------|-------|----------|-------|----------|----------|--------|-------|
| Analyte   | Result | Limit | Units | Dilution | Batch | Prepared | Analyzed | Method | Notes |

**Volatile Organics by EPA 8021**

|                                            |               |              |       |               |                |                 |                 |                  |  |
|--------------------------------------------|---------------|--------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Benzene                                    | ND            | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/20/19        | EPA 8021B        |  |
| Toluene                                    | ND            | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/20/19        | EPA 8021B        |  |
| Ethylbenzene                               | <b>0.134</b>  | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/20/19        | EPA 8021B        |  |
| p,m-Xylene                                 | <b>0.0622</b> | 0.0500       | mg/kg | 1             | 1920021        | 05/14/19        | 05/20/19        | EPA 8021B        |  |
| o-Xylene                                   | <b>0.0383</b> | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/20/19        | EPA 8021B        |  |
| Total Xylenes                              | <b>0.100</b>  | 0.0250       | mg/kg | 1             | 1920021        | 05/14/19        | 05/20/19        | EPA 8021B        |  |
| <i>Surrogate: 4-Bromochlorobenzene-PID</i> |               | <i>110 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/20/19</i> | <i>EPA 8021B</i> |  |

**Nonhalogenated Organics by 8015**

|                                                |             |               |       |               |                |                 |                 |                  |  |
|------------------------------------------------|-------------|---------------|-------|---------------|----------------|-----------------|-----------------|------------------|--|
| Gasoline Range Organics (C6-C10)               | ND          | 20.0          | mg/kg | 1             | 1920021        | 05/14/19        | 05/20/19        | EPA 8015D        |  |
| Diesel Range Organics (C10-C28)                | <b>1210</b> | 25.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| Oil Range Organics (C28-C40)                   | <b>294</b>  | 50.0          | mg/kg | 1             | 1920020        | 05/14/19        | 05/15/19        | EPA 8015D        |  |
| <i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i> |             | <i>91.2 %</i> |       | <i>50-150</i> | <i>1920021</i> | <i>05/14/19</i> | <i>05/20/19</i> | <i>EPA 8015D</i> |  |
| <i>Surrogate: n-Nonane</i>                     |             | <i>120 %</i>  |       | <i>50-200</i> | <i>1920020</i> | <i>05/14/19</i> | <i>05/15/19</i> | <i>EPA 8015D</i> |  |

**Anions by 300.0/9056A**

|          |            |      |       |   |         |          |          |                    |  |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|
| Chloride | <b>259</b> | 20.0 | mg/kg | 1 | 1920026 | 05/15/19 | 05/15/19 | EPA<br>300.0/9056A |  |
|----------|------------|------|-------|---|---------|----------|----------|--------------------|--|

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

## Volatile Organics by EPA 8021 - Quality Control

## Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Batch 1920021 - Purge and Trap EPA 5030A

## Blank (1920021-BLK1)

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

|               |    |        |       |  |  |  |  |  |  |  |
|---------------|----|--------|-------|--|--|--|--|--|--|--|
| Benzene       | ND | 0.0250 | mg/kg |  |  |  |  |  |  |  |
| Toluene       | ND | 0.0250 | "     |  |  |  |  |  |  |  |
| Ethylbenzene  | ND | 0.0250 | "     |  |  |  |  |  |  |  |
| p,m-Xylene    | ND | 0.0500 | "     |  |  |  |  |  |  |  |
| o-Xylene      | ND | 0.0250 | "     |  |  |  |  |  |  |  |
| Total Xylenes | ND | 0.0250 | "     |  |  |  |  |  |  |  |

Surrogate: 4-Bromochlorobenzene-PID 8.24 " 8.00 103 50-150

## LCS (1920021-BS1)

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

|               |      |        |       |      |  |      |        |  |  |  |
|---------------|------|--------|-------|------|--|------|--------|--|--|--|
| Benzene       | 4.53 | 0.0250 | mg/kg | 5.00 |  | 90.7 | 70-130 |  |  |  |
| Toluene       | 4.93 | 0.0250 | "     | 5.00 |  | 98.7 | 70-130 |  |  |  |
| Ethylbenzene  | 4.93 | 0.0250 | "     | 5.00 |  | 98.6 | 70-130 |  |  |  |
| p,m-Xylene    | 10.2 | 0.0500 | "     | 10.0 |  | 102  | 70-130 |  |  |  |
| o-Xylene      | 4.97 | 0.0250 | "     | 5.00 |  | 99.3 | 70-130 |  |  |  |
| Total Xylenes | 15.2 | 0.0250 | "     | 15.0 |  | 101  | 70-130 |  |  |  |

Surrogate: 4-Bromochlorobenzene-PID 8.23 " 8.00 103 50-150

## Matrix Spike (1920021-MS1)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

|               |      |        |       |      |    |      |          |  |  |  |
|---------------|------|--------|-------|------|----|------|----------|--|--|--|
| Benzene       | 4.18 | 0.0250 | mg/kg | 5.00 | ND | 83.5 | 54.3-133 |  |  |  |
| Toluene       | 4.55 | 0.0250 | "     | 5.00 | ND | 91.0 | 61.4-130 |  |  |  |
| Ethylbenzene  | 4.55 | 0.0250 | "     | 5.00 | ND | 91.0 | 61.4-133 |  |  |  |
| p,m-Xylene    | 9.42 | 0.0500 | "     | 10.0 | ND | 94.2 | 63.3-131 |  |  |  |
| o-Xylene      | 4.58 | 0.0250 | "     | 5.00 | ND | 91.6 | 63.3-131 |  |  |  |
| Total Xylenes | 14.0 | 0.0250 | "     | 15.0 | ND | 93.3 | 63.3-131 |  |  |  |

Surrogate: 4-Bromochlorobenzene-PID 8.11 " 8.00 101 50-150

## Matrix Spike Dup (1920021-MSD1)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

|               |      |        |       |      |    |      |          |      |    |  |
|---------------|------|--------|-------|------|----|------|----------|------|----|--|
| Benzene       | 4.36 | 0.0250 | mg/kg | 5.00 | ND | 87.3 | 54.3-133 | 4.37 | 20 |  |
| Toluene       | 4.75 | 0.0250 | "     | 5.00 | ND | 95.1 | 61.4-130 | 4.38 | 20 |  |
| Ethylbenzene  | 4.76 | 0.0250 | "     | 5.00 | ND | 95.3 | 61.4-133 | 4.63 | 20 |  |
| p,m-Xylene    | 9.85 | 0.0500 | "     | 10.0 | ND | 98.5 | 63.3-131 | 4.49 | 20 |  |
| o-Xylene      | 4.79 | 0.0250 | "     | 5.00 | ND | 95.8 | 63.3-131 | 4.48 | 20 |  |
| Total Xylenes | 14.6 | 0.0250 | "     | 15.0 | ND | 97.6 | 63.3-131 | 4.49 | 20 |  |

Surrogate: 4-Bromochlorobenzene-PID 8.17 " 8.00 102 50-150

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch 1920020 - DRO Extraction EPA 3570

##### Blank (1920020-BLK1)

Prepared &amp; Analyzed: 05/14/19 1

|                                 |      |      |       |      |  |      |        |  |  |  |
|---------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | ND   | 25.0 | mg/kg |      |  |      |        |  |  |  |
| Oil Range Organics (C28-C40)    | ND   | 50.0 | "     |      |  |      |        |  |  |  |
| Surrogate: n-Nonane             | 47.3 |      | "     | 50.0 |  | 94.7 | 50-200 |  |  |  |

##### LCS (1920020-BS1)

Prepared &amp; Analyzed: 05/14/19 1

|                                 |      |      |       |      |  |      |        |  |  |  |
|---------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 461  | 25.0 | mg/kg | 500  |  | 92.2 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 46.9 |      | "     | 50.0 |  | 93.8 | 50-200 |  |  |  |

##### Matrix Spike (1920020-MS1)

Source: P905047-01

Prepared &amp; Analyzed: 05/14/19 1

|                                 |      |      |       |      |    |      |        |  |  |  |
|---------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Diesel Range Organics (C10-C28) | 492  | 25.0 | mg/kg | 500  | ND | 98.3 | 38-132 |  |  |  |
| Surrogate: n-Nonane             | 48.5 |      | "     | 50.0 |    | 97.1 | 50-200 |  |  |  |

##### Matrix Spike Dup (1920020-MSD1)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/15/19 1

|                                 |      |      |       |      |    |      |        |      |    |  |
|---------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Diesel Range Organics (C10-C28) | 443  | 25.0 | mg/kg | 500  | ND | 88.5 | 38-132 | 10.5 | 20 |  |
| Surrogate: n-Nonane             | 45.9 |      | "     | 50.0 |    | 91.8 | 50-200 |      |    |  |

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

### Nonhalogenated Organics by 8015 - Quality Control

#### Envirotech Analytical Laboratory

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

#### Batch 1920021 - Purge and Trap EPA 5030A

##### Blank (1920021-BLK1)

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

|                                         |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | ND   | 20.0 | mg/kg |      |  |      |        |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.37 |      | "     | 8.00 |  | 92.1 | 50-150 |  |  |  |

##### LCS (1920021-BS2)

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

|                                         |      |      |       |      |  |      |        |  |  |  |
|-----------------------------------------|------|------|-------|------|--|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 51.8 | 20.0 | mg/kg | 50.0 |  | 104  | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.50 |      | "     | 8.00 |  | 93.8 | 50-150 |  |  |  |

##### Matrix Spike (1920021-MS2)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

|                                         |      |      |       |      |    |      |        |  |  |  |
|-----------------------------------------|------|------|-------|------|----|------|--------|--|--|--|
| Gasoline Range Organics (C6-C10)        | 49.0 | 20.0 | mg/kg | 50.0 | ND | 97.9 | 70-130 |  |  |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.51 |      | "     | 8.00 |    | 93.8 | 50-150 |  |  |  |

##### Matrix Spike Dup (1920021-MSD2)

Source: P905047-01

Prepared: 05/14/19 1 Analyzed: 05/17/19 1

|                                         |      |      |       |      |    |      |        |      |    |  |
|-----------------------------------------|------|------|-------|------|----|------|--------|------|----|--|
| Gasoline Range Organics (C6-C10)        | 47.4 | 20.0 | mg/kg | 50.0 | ND | 94.7 | 70-130 | 3.35 | 20 |  |
| Surrogate: 1-Chloro-4-fluorobenzene-FID | 7.50 |      | "     | 8.00 |    | 93.7 | 50-150 |      |    |  |

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|                         |                  |                          |                  |
|-------------------------|------------------|--------------------------|------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 |                  |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               | <b>Reported:</b> |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             | 05/20/19 16:04   |

**Anions by 300.0/9056A - Quality Control****Envirotech Analytical Laboratory**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch 1920026 - Anion Extraction EPA 300.0/9056A****Blank (1920026-BLK1)**

Prepared: 05/15/19 0 Analyzed: 05/15/19 1

Chloride ND 20.0 mg/kg

**LCS (1920026-BS1)**

Prepared: 05/15/19 0 Analyzed: 05/15/19 1

Chloride 251 20.0 mg/kg 250 100 90-110

**Matrix Spike (1920026-MS1)****Source: P905047-01**

Prepared: 05/15/19 0 Analyzed: 05/15/19 1

Chloride 272 20.0 mg/kg 250 ND 109 80-120

**Matrix Spike Dup (1920026-MSD1)****Source: P905047-01**

Prepared: 05/15/19 0 Analyzed: 05/15/19 1

Chloride 273 20.0 mg/kg 250 ND 109 80-120 0.400 20

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|                         |                  |                          |                                    |
|-------------------------|------------------|--------------------------|------------------------------------|
| Devon Energy - Carlsbad | Project Name:    | North Pure Gold 9 Fed #1 | <b>Reported:</b><br>05/20/19 16:04 |
| 6488 7 Rivers Hwy       | Project Number:  | 19031-0001               |                                    |
| Artesia NM, 88210       | Project Manager: | Amanda Davis             |                                    |

### Notes and Definitions

Surr2      The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

DET      Analyte DETECTED

ND      Analyte NOT DETECTED at or above the reporting limit

NR      Not Reported

RPD      Relative Percent Difference

\*\*      Methods marked with \*\* are non-accredited methods.

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Pura Gold 9 Fed #1  
 Client: Duron Energy  
 Project: ~~Elmer Felt~~  
 Project Manager: Amanda Davis  
 Address: 6498 7 Rivers Highway  
 City, State, Zip: Artesia, NM, 88210  
 Phone: 575 748 0176  
 Email: amanda.davis@dmn.com

Report Attention  
 Report due by: 7 days  
 Attention: Dennis Williams  
 Address: 213 5 Mesa St  
 City, State, Zip: Carlsbad, NM, 88220  
 Phone: 575-361-1137  
 Email: dwilliams@Vertex.ca  
Permian@Vertex.ca

| Lab Use Only        |                 |              |             |             |                |           |     |      |       | TAT     |    | EPA Program |  |  |
|---------------------|-----------------|--------------|-------------|-------------|----------------|-----------|-----|------|-------|---------|----|-------------|--|--|
| Lab WO#             |                 | Job Number   |             | 1D          | 3D             | RCRA      | CWA | SDWA | State |         |    |             |  |  |
| P905047             |                 | 19031-0001   |             |             |                |           |     |      | NM    | CO      | UT | AZ          |  |  |
| Analysis and Method |                 |              |             |             |                |           |     |      |       | Remarks |    |             |  |  |
| DRO/ORO by 8015     | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TPH 418.1 |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |
| ✓                   | ✓               | ✓            |             |             | ✓              |           |     |      |       |         |    |             |  |  |

| Time Sampled | Date Sampled | Matrix | No Containers | Sample ID  | Lab Number |
|--------------|--------------|--------|---------------|------------|------------|
| 1:05 PM      | 05-12-2019   | Soil   |               | BH19-01 2' | 1          |
| 1:15 PM      | 05-12-2019   | Soil   |               | BH19-02 2' | 2          |
| 1:25 PM      | 05-12-2019   | Soil   |               | TP19-03 2' | 3          |
| 1:35 PM      | 05-12-2019   | Soil   |               | BH19-04 2' | 4          |
| 1:45 PM      | 05-12-2019   | Soil   |               | BH19-05 0' | 5          |
| 1:55 PM      | 05-12-2019   | Soil   |               | BH19-06 2' | 6          |
| 2:05 PM      | 05-12-2019   | Soil   |               | TP19-07 4' | 7          |
| 2:15 PM      | 05-12-2019   | Soil   |               | TP19-08 4' | 8          |
| 2:25 PM      | 05-12-2019   | Soil   |               | TP19-09 4' | 9          |
| 2:35 PM      | 05-12-2019   | Soil   |               | TP19-10 1' | 10         |

## Additional Instructions:

Bill Vertex - Per Client 5/14/19 *[Signature]*

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jason Crabtree

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

| Relinquished by: (Signature) |  | Date      | Time    | Received by: (Signature) |  | Date      | Time    | Lab Use Only                  |    |    |
|------------------------------|--|-----------|---------|--------------------------|--|-----------|---------|-------------------------------|----|----|
| <i>[Signature]</i>           |  | 5-12-2019 | 4:00 PM | <i>[Signature]</i>       |  | 5-12-2019 | 4:00 PM | Received on ice: <u>Y</u> / N |    |    |
| <i>[Signature]</i>           |  | 5-13-19   | 12:15   | <i>[Signature]</i>       |  | 5-13-19   | 12:15   | T1                            | T2 | T3 |
|                              |  |           |         |                          |  |           |         | AVG Temp °C <u>4</u>          |    |    |

Sample Matrix: S - Soil, Sp - Solid, Sg - Sludge, A - Aqueous, O - Other: Permian  
 Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Client: Devon Energy

Project: North Pure gold 9 Fed #1

Project Manager: Amanda Davis

Address: 6488 7 Rivers Hwy

City, State, Zip: Artesia, NM, 88210

Phone: 575 748-0176

mail: amanda.davis@devon.com

Report Attention

Report due by: 7 days

Attention: Dennis Williams

Address: 213 S mesa st

City, State, Zip: Carlsbad, NM, 88220

Phone: 575 361-1137

Email: dwilliams@vertex.cc

Permaien@vertex.cc

Lab Use Only

Lab WO# P905047

Job Number 19031-0001

TAT

1D

3D

EPA Program

RCRA

CWA

SDWA

Analysis and Method

State

NM

CO

UT

AZ

| Time Sampled | Date Sampled | Matrix | No Containers | Sample ID  | Lab Number | DRO/ORO by 8015 | GRO/DRO by 8015 | BTEX by 8021 | VOC by 8260 | Metals 6010 | Chloride 300.0 | TPH 418.1 | Remarks |
|--------------|--------------|--------|---------------|------------|------------|-----------------|-----------------|--------------|-------------|-------------|----------------|-----------|---------|
| 11:35 AM     | 05-12-2019   | Soil   |               | TP19-11 1' | 11         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |
| 11:45 AM     | 05-12-2019   | Soil   |               | TP19-12 1' | 12         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |
| 11:55 AM     | 05-12-2019   | Soil   |               | TP19-13 1' | 13         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |
| 12:05 PM     | 05-12-2019   | Soil   |               | TP19-14 2' | 14         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |
| 12:15 PM     | 05-12-2019   | Soil   |               | TP19-15 2' | 15         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |
| 12:25 PM     | 05-12-2019   | Soil   |               | TP19-16 6' | 16         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |
| 12:35 PM     | 05-12-2019   | Soil   |               | TP19-17 2' | 17         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |
| 12:45 PM     | 05-12-2019   | Soil   |               | TP19-18 8' | 18         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |
| 12:55 PM     | 05-12-2019   | Soil   |               | TP19-19 8' | 19         | ✓               | ✓               | ✓            |             |             | ✓              |           |         |

Additional Instructions: Bill Vertex - Perchart 5/14/19 JAM

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: Jason Crabtree

Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6°C on subsequent days.

Relinquished by: (Signature) [Signature]

Date 5-12-2019

Time 4:00 PM

Received by: (Signature) [Signature]

Date 5-12-2019

Time 4:00 PM

Relinquished by: (Signature) [Signature]

Date 5-13-19

Time 12:15

Received by: (Signature) Courtney Stovall

Date 5-13-19

Time 12:15

Lab Use Only

Received on ice: Y / N

T1

T2

T3

AVG Temp °C

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other

Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.





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

August 27, 2021

Brandon Schafer

Vertex Resources Services, Inc.

3101 Boyd Drive

Carlsbad, NM 88220

TEL: (505) 506-0040

FAX

RE: North Pure Gold 9 Federal 1H

OrderNo.: 2108C52

Dear Brandon Schafer:

Hall Environmental Analysis Laboratory received 4 sample(s) on 8/24/2021 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2108C52

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS21-04 0.0'

Project: North Pure Gold 9 Federal 1H

Collection Date: 8/20/2021 10:00:00 AM

Lab ID: 2108C52-001

Matrix: SOIL

Received Date: 8/24/2021 7:15:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.2    |      | mg/Kg | 1  | 8/25/2021 12:20:07 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 8/25/2021 12:20:07 PM |
| Surr: DNOP                                       | 125    | 70-130 |      | %Rec  | 1  | 8/25/2021 12:20:07 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.6    |      | mg/Kg | 1  | 8/25/2021 8:56:00 PM  |
| Surr: BFB                                        | 84.5   | 70-130 |      | %Rec  | 1  | 8/25/2021 8:56:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>    |
| Benzene                                          | ND     | 0.023  |      | mg/Kg | 1  | 8/25/2021 8:56:00 PM  |
| Toluene                                          | ND     | 0.046  |      | mg/Kg | 1  | 8/25/2021 8:56:00 PM  |
| Ethylbenzene                                     | ND     | 0.046  |      | mg/Kg | 1  | 8/25/2021 8:56:00 PM  |
| Xylenes, Total                                   | ND     | 0.093  |      | mg/Kg | 1  | 8/25/2021 8:56:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 77.7   | 70-130 |      | %Rec  | 1  | 8/25/2021 8:56:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/25/2021 6:05:55 PM  |

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

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

## Analytical Report

Lab Order 2108C52

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS21-05 0.0'

Project: North Pure Gold 9 Federal 1H

Collection Date: 8/20/2021 10:15:00 AM

Lab ID: 2108C52-002

Matrix: SOIL

Received Date: 8/24/2021 7:15:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.3    |      | mg/Kg | 1  | 8/25/2021 12:29:54 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 46     |      | mg/Kg | 1  | 8/25/2021 12:29:54 PM |
| Surr: DNOP                                       | 123    | 70-130 |      | %Rec  | 1  | 8/25/2021 12:29:54 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.9    |      | mg/Kg | 1  | 8/25/2021 9:17:00 PM  |
| Surr: BFB                                        | 86.5   | 70-130 |      | %Rec  | 1  | 8/25/2021 9:17:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/25/2021 9:17:00 PM  |
| Toluene                                          | ND     | 0.049  |      | mg/Kg | 1  | 8/25/2021 9:17:00 PM  |
| Ethylbenzene                                     | ND     | 0.049  |      | mg/Kg | 1  | 8/25/2021 9:17:00 PM  |
| Xylenes, Total                                   | ND     | 0.097  |      | mg/Kg | 1  | 8/25/2021 9:17:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 79.0   | 70-130 |      | %Rec  | 1  | 8/25/2021 9:17:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/25/2021 6:43:10 PM  |

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

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

## Analytical Report

Lab Order 2108C52

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS21-06 0.0'

Project: North Pure Gold 9 Federal 1H

Collection Date: 8/20/2021 10:30:00 AM

Lab ID: 2108C52-003

Matrix: SOIL

Received Date: 8/24/2021 7:15:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 8/25/2021 12:39:41 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 8/25/2021 12:39:41 PM |
| Surr: DNOP                                       | 123    | 70-130 |      | %Rec  | 1  | 8/25/2021 12:39:41 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>mb</b>    |
| Gasoline Range Organics (GRO)                    | ND     | 4.7    |      | mg/Kg | 1  | 8/25/2021 9:37:00 PM  |
| Surr: BFB                                        | 89.1   | 70-130 |      | %Rec  | 1  | 8/25/2021 9:37:00 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>mb</b>    |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/25/2021 9:37:00 PM  |
| Toluene                                          | ND     | 0.047  |      | mg/Kg | 1  | 8/25/2021 9:37:00 PM  |
| Ethylbenzene                                     | ND     | 0.047  |      | mg/Kg | 1  | 8/25/2021 9:37:00 PM  |
| Xylenes, Total                                   | ND     | 0.095  |      | mg/Kg | 1  | 8/25/2021 9:37:00 PM  |
| Surr: 4-Bromofluorobenzene                       | 79.7   | 70-130 |      | %Rec  | 1  | 8/25/2021 9:37:00 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/25/2021 6:55:35 PM  |

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

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



## Analytical Report

Lab Order 2108C52

Date Reported: 8/27/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Vertex Resources Services, Inc.

Client Sample ID: SS21-07 0.0'

Project: North Pure Gold 9 Federal 1H

Collection Date: 8/20/2021 10:45:00 AM

Lab ID: 2108C52-004

Matrix: SOIL

Received Date: 8/24/2021 7:15:00 AM

| Analyses                                         | Result | RL     | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|--------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |        |      |       |    | Analyst: <b>SB</b>    |
| Diesel Range Organics (DRO)                      | ND     | 9.4    |      | mg/Kg | 1  | 8/25/2021 12:49:31 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47     |      | mg/Kg | 1  | 8/25/2021 12:49:31 PM |
| Surr: DNOP                                       | 126    | 70-130 |      | %Rec  | 1  | 8/25/2021 12:49:31 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |        |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8    |      | mg/Kg | 1  | 8/25/2021 7:58:43 PM  |
| Surr: BFB                                        | 111    | 70-130 |      | %Rec  | 1  | 8/25/2021 7:58:43 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |        |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024  |      | mg/Kg | 1  | 8/25/2021 7:58:43 PM  |
| Toluene                                          | ND     | 0.048  |      | mg/Kg | 1  | 8/25/2021 7:58:43 PM  |
| Ethylbenzene                                     | ND     | 0.048  |      | mg/Kg | 1  | 8/25/2021 7:58:43 PM  |
| Xylenes, Total                                   | ND     | 0.096  |      | mg/Kg | 1  | 8/25/2021 7:58:43 PM  |
| Surr: 4-Bromofluorobenzene                       | 103    | 70-130 |      | %Rec  | 1  | 8/25/2021 7:58:43 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |        |      |       |    | Analyst: <b>VP</b>    |
| Chloride                                         | ND     | 60     |      | mg/Kg | 20 | 8/25/2021 7:08:00 PM  |

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108C52

27-Aug-21

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 9 Federal 1H

|                      |                          |                                                                      |
|----------------------|--------------------------|----------------------------------------------------------------------|
| Sample ID: MB-62179  | SampType: MBLK           | TestCode: EPA Method 300.0: Anions                                   |
| Client ID: PBS       | Batch ID: 62179          | RunNo: 80774                                                         |
| Prep Date: 8/25/2021 | Analysis Date: 8/25/2021 | SeqNo: 2850756 Units: mg/Kg                                          |
| Analyte              | Result                   | PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | ND                       | 1.5                                                                  |

|                      |                          |                                                                      |
|----------------------|--------------------------|----------------------------------------------------------------------|
| Sample ID: LCS-62179 | SampType: LCS            | TestCode: EPA Method 300.0: Anions                                   |
| Client ID: LCSS      | Batch ID: 62179          | RunNo: 80774                                                         |
| Prep Date: 8/25/2021 | Analysis Date: 8/25/2021 | SeqNo: 2850757 Units: mg/Kg                                          |
| Analyte              | Result                   | PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | 14                       | 1.5 15.00 0 95.1 90 110                                              |

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108C52  
27-Aug-21

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 9 Federal 1H

|                             |                          |                                                     |              |             |      |          |           |      |          |      |
|-----------------------------|--------------------------|-----------------------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: LCS-62161        | SampType: LCS            | TestCode: EPA Method 8015M/D: Diesel Range Organics |              |             |      |          |           |      |          |      |
| Client ID: LCSS             | Batch ID: 62161          | RunNo: 80792                                        |              |             |      |          |           |      |          |      |
| Prep Date: 8/24/2021        | Analysis Date: 8/25/2021 | SeqNo: 2850637                                      | Units: mg/Kg |             |      |          |           |      |          |      |
| Analyte                     | Result                   | PQL                                                 | SPK value    | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 49                       | 10                                                  | 50.00        | 0           | 98.9 | 68.9     | 141       |      |          |      |
| Surr: DNOP                  | 5.6                      |                                                     | 5.000        |             | 112  | 70       | 130       |      |          |      |

|                                |                          |                                                     |              |             |      |          |           |      |          |      |
|--------------------------------|--------------------------|-----------------------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: MB-62161            | SampType: MBLK           | TestCode: EPA Method 8015M/D: Diesel Range Organics |              |             |      |          |           |      |          |      |
| Client ID: PBS                 | Batch ID: 62161          | RunNo: 80792                                        |              |             |      |          |           |      |          |      |
| Prep Date: 8/24/2021           | Analysis Date: 8/25/2021 | SeqNo: 2850638                                      | 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  | 70       | 130       |      |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2108C52

27-Aug-21

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 9 Federal 1H

| Sample ID: <b>mb-62158</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>62158</b>          |     | RunNo: <b>80778</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b>   | Analysis Date: <b>8/25/2021</b> |     | SeqNo: <b>2850793</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                              |             | 104                 | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-62158</b>   | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>62158</b>          |     | RunNo: <b>80778</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b>   | Analysis Date: <b>8/25/2021</b> |     | SeqNo: <b>2850794</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 28                              | 5.0 | 25.00                                             | 0           | 111                 | 78.6     | 131       |      |          |      |
| Surr: BFB                     | 1200                            |     | 1000                                              |             | 116                 | 70       | 130       |      |          |      |

| Sample ID: <b>2108c52-004ams</b> | SampType: <b>MS</b>             |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>SS21-07 0.0'</b>   | Batch ID: <b>62158</b>          |     | RunNo: <b>80778</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b>      | Analysis Date: <b>8/25/2021</b> |     | SeqNo: <b>2850796</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 27                              | 4.9 | 24.37                                             | 0           | 112                 | 61.3     | 114       |      |          |      |
| Surr: BFB                        | 1200                            |     | 974.7                                             |             | 121                 | 70       | 130       |      |          |      |

| Sample ID: <b>2108c52-004amsd</b> | SampType: <b>MSD</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-----------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>SS21-07 0.0'</b>    | Batch ID: <b>62158</b>          |     | RunNo: <b>80778</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b>       | Analysis Date: <b>8/25/2021</b> |     | SeqNo: <b>2850797</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 29                              | 4.9 | 24.49                                             | 0           | 120                 | 61.3     | 114       | 6.86 | 20       | S    |
| Surr: BFB                         | 1200                            |     | 979.4                                             |             | 123                 | 70       | 130       | 0    | 0        |      |

| Sample ID: <b>mb-62156</b>    | SampType: <b>MBLK</b>           |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>62156</b>          |     | RunNo: <b>80776</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b>   | Analysis Date: <b>8/25/2021</b> |     | SeqNo: <b>2850947</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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                                              |             | 90.1                | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-62156</b> | SampType: <b>LCS</b>            |     | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |             |                     |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|---------------------------------------------------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>62156</b>          |     | RunNo: <b>80776</b>                               |             |                     |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b> | Analysis Date: <b>8/25/2021</b> |     | SeqNo: <b>2850948</b>                             |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value                                         | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

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



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2108C52  
27-Aug-21

Client: Vertex Resources Services, Inc.  
Project: North Pure Gold 9 Federal 1H

|                               |                          |                                            |              |             |      |          |           |      |          |      |
|-------------------------------|--------------------------|--------------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: lcs-62156          | SampType: LCS            | TestCode: EPA Method 8015D: Gasoline Range |              |             |      |          |           |      |          |      |
| Client ID: LCSS               | Batch ID: 62156          | RunNo: 80776                               |              |             |      |          |           |      |          |      |
| Prep Date: 8/24/2021          | Analysis Date: 8/25/2021 | SeqNo: 2850948                             | 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           | 108  | 78.6     | 131       |      |          |      |
| Surr: BFB                     | 1100                     |                                            | 1000         |             | 112  | 70       | 130       |      |          |      |

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix
- B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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

WO#: 2108C52

27-Aug-21

**Client:** Vertex Resources Services, Inc.**Project:** North Pure Gold 9 Federal 1H

| Sample ID: <b>mb-62158</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>62158</b>          | RunNo: <b>80778</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b> | Analysis Date: <b>8/25/2021</b> | SeqNo: <b>2850826</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| 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     |             | 98.0 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-62158</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>62158</b>          | RunNo: <b>80778</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b> | Analysis Date: <b>8/25/2021</b> | SeqNo: <b>2850827</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.88                            | 0.025                                        | 1.000     | 0           | 88.0 | 80       | 120       |      |          |      |
| Toluene                     | 0.90                            | 0.050                                        | 1.000     | 0           | 89.7 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.91                            | 0.050                                        | 1.000     | 0           | 90.6 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000     | 0           | 90.7 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.0                             |                                              | 1.000     |             | 101  | 70       | 130       |      |          |      |

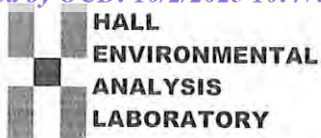
| Sample ID: <b>mb-62156</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>62156</b>          | RunNo: <b>80776</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b> | Analysis Date: <b>8/25/2021</b> | SeqNo: <b>2850971</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| 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  | 0.81                            |                                              | 1.000     |             | 80.8 | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-62156</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>62156</b>          | RunNo: <b>80776</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>8/24/2021</b> | Analysis Date: <b>8/25/2021</b> | SeqNo: <b>2850972</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.84                            | 0.025                                        | 1.000     | 0           | 83.6 | 80       | 120       |      |          |      |
| Toluene                     | 0.86                            | 0.050                                        | 1.000     | 0           | 85.8 | 80       | 120       |      |          |      |
| Ethylbenzene                | 0.89                            | 0.050                                        | 1.000     | 0           | 88.6 | 80       | 120       |      |          |      |
| Xylenes, Total              | 2.7                             | 0.10                                         | 3.000     | 0           | 88.9 | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.84                            |                                              | 1.000     |             | 84.3 | 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 Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

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



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

## Sample Log-In Check List

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

Work Order Number: **2108C52**

RcptNo: 1

Received By: **Cheyenne Cason** 8/24/2021 7:15:00 AM

Completed By: **Sean Livingston** 8/24/2021 9:09:01 AM

Reviewed By: **NOG 8/24/21**

*Handwritten signatures: Cason, Sean Livingston*

Chain of Custody

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

Log In

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

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted?

Checked by: **SPA 8-24-21**

Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 3.3     | Good      |             |         |           |           |







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

August 05, 2019

Dennis Williams

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 888210

TEL: (575) 748-0176

FAX

RE: North Pure Gold 9 Fed 1

OrderNo.: 1907D74

Dear Dennis Williams:

Hall Environmental Analysis Laboratory received 44 sample(s) on 7/26/2019 for the analyses presented in the following report.

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

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-01 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:30:00 AM

Lab ID: 1907D74-001

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JME          |
| Diesel Range Organics (DRO)                      | 740    | 95       |      | mg/Kg | 10 | 7/29/2019 7:33:22 PM  |
| Motor Oil Range Organics (MRO)                   | 1200   | 470      |      | mg/Kg | 10 | 7/29/2019 7:33:22 PM  |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10 | 7/29/2019 7:33:22 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)                    | ND     | 46       | D    | mg/Kg | 10 | 7/30/2019 11:02:04 PM |
| Surr: BFB                                        | 102    | 73.8-119 | D    | %Rec  | 10 | 7/30/2019 11:02:04 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: NSB          |
| Benzene                                          | ND     | 0.23     | D    | mg/Kg | 10 | 7/30/2019 11:02:04 PM |
| Toluene                                          | 1.1    | 0.46     | D    | mg/Kg | 10 | 7/30/2019 11:02:04 PM |
| Ethylbenzene                                     | ND     | 0.46     | D    | mg/Kg | 10 | 7/30/2019 11:02:04 PM |
| Xylenes, Total                                   | 2.1    | 0.92     | D    | mg/Kg | 10 | 7/30/2019 11:02:04 PM |
| Surr: 4-Bromofluorobenzene                       | 98.9   | 80-120   | D    | %Rec  | 10 | 7/30/2019 11:02:04 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/30/2019 10:35:32 PM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-02 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:35:00 AM

Lab ID: 1907D74-002

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JME          |
| Diesel Range Organics (DRO)                      | 650    | 93       |      | mg/Kg | 10 | 7/29/2019 8:22:11 PM  |
| Motor Oil Range Organics (MRO)                   | 1100   | 460      |      | mg/Kg | 10 | 7/29/2019 8:22:11 PM  |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10 | 7/29/2019 8:22:11 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)                    | ND     | 46       | D    | mg/Kg | 10 | 7/30/2019 11:25:37 PM |
| Surr: BFB                                        | 105    | 73.8-119 | D    | %Rec  | 10 | 7/30/2019 11:25:37 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: NSB          |
| Benzene                                          | ND     | 0.23     | D    | mg/Kg | 10 | 7/30/2019 11:25:37 PM |
| Toluene                                          | 0.70   | 0.46     | D    | mg/Kg | 10 | 7/30/2019 11:25:37 PM |
| Ethylbenzene                                     | ND     | 0.46     | D    | mg/Kg | 10 | 7/30/2019 11:25:37 PM |
| Xylenes, Total                                   | 1.5    | 0.92     | D    | mg/Kg | 10 | 7/30/2019 11:25:37 PM |
| Surr: 4-Bromofluorobenzene                       | 104    | 80-120   | D    | %Rec  | 10 | 7/30/2019 11:25:37 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/30/2019 10:47:56 PM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-02 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:40:00 AM

Lab ID: 1907D74-003

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JME          |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 7/29/2019 9:11:17 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 7/29/2019 9:11:17 PM  |
| Surr: DNOP                                       | 100    | 70-130   |      | %Rec  | 1  | 7/29/2019 9:11:17 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 7/30/2019 11:49:09 PM |
| Surr: BFB                                        | 93.9   | 73.8-119 |      | %Rec  | 1  | 7/30/2019 11:49:09 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: NSB          |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/30/2019 11:49:09 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 7/30/2019 11:49:09 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 7/30/2019 11:49:09 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 7/30/2019 11:49:09 PM |
| Surr: 4-Bromofluorobenzene                       | 94.3   | 80-120   |      | %Rec  | 1  | 7/30/2019 11:49:09 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/30/2019 11:00:21 PM |

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

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

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## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-03 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:45:00 AM

Lab ID: 1907D74-004

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JME          |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 7/29/2019 9:35:49 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 7/29/2019 9:35:49 PM  |
| Surr: DNOP                                       | 101    | 70-130   |      | %Rec  | 1  | 7/29/2019 9:35:49 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 7/31/2019 12:12:41 AM |
| Surr: BFB                                        | 93.7   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 12:12:41 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: NSB          |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 7/31/2019 12:12:41 AM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 7/31/2019 12:12:41 AM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 7/31/2019 12:12:41 AM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 7/31/2019 12:12:41 AM |
| Surr: 4-Bromofluorobenzene                       | 93.5   | 80-120   |      | %Rec  | 1  | 7/31/2019 12:12:41 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/30/2019 11:12:45 PM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-04 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:50:00 AM

Lab ID: 1907D74-005

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: JME          |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 7/29/2019 10:00:32 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 7/29/2019 10:00:32 PM |
| Surr: DNOP                                       | 104    | 70-130   |      | %Rec  | 1  | 7/29/2019 10:00:32 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: NSB          |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 7/31/2019 12:36:12 AM |
| Surr: BFB                                        | 92.1   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 12:36:12 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: NSB          |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 7/31/2019 12:36:12 AM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 7/31/2019 12:36:12 AM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 7/31/2019 12:36:12 AM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 7/31/2019 12:36:12 AM |
| Surr: 4-Bromofluorobenzene                       | 91.7   | 80-120   |      | %Rec  | 1  | 7/31/2019 12:36:12 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/30/2019 11:25:11 PM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-06 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 9:55:00 AM

Lab ID: 1907D74-006

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 10       |      | mg/Kg | 1  | 7/29/2019 1:06:50 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 7/29/2019 1:06:50 PM  |
| Surr: DNOP                                       | 89.9   | 70-130   |      | %Rec  | 1  | 7/29/2019 1:06:50 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 7/31/2019 12:59:42 AM |
| Surr: BFB                                        | 94.3   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 12:59:42 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/31/2019 12:59:42 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 12:59:42 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 12:59:42 AM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 7/31/2019 12:59:42 AM |
| Surr: 4-Bromofluorobenzene                       | 94.3   | 80-120   |      | %Rec  | 1  | 7/31/2019 12:59:42 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/30/2019 11:37:35 PM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-07 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:00:00 AM

Lab ID: 1907D74-007

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 7/29/2019 2:13:20 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 7/29/2019 2:13:20 PM  |
| Surr: DNOP                                       | 96.1   | 70-130   |      | %Rec  | 1  | 7/29/2019 2:13:20 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 7/31/2019 1:23:18 AM  |
| Surr: BFB                                        | 92.9   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 1:23:18 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/31/2019 1:23:18 AM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 1:23:18 AM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 1:23:18 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 7/31/2019 1:23:18 AM  |
| Surr: 4-Bromofluorobenzene                       | 92.5   | 80-120   |      | %Rec  | 1  | 7/31/2019 1:23:18 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/30/2019 11:50:00 PM |

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

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



## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-07 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:05:00 AM

Lab ID: 1907D74-008

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 7/29/2019 2:35:23 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 7/29/2019 2:35:23 PM  |
| Surr: DNOP                                       | 94.7   | 70-130   |      | %Rec  | 1  | 7/29/2019 2:35:23 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 7/31/2019 1:46:55 AM  |
| Surr: BFB                                        | 96.9   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 1:46:55 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/31/2019 1:46:55 AM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 7/31/2019 1:46:55 AM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 7/31/2019 1:46:55 AM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 7/31/2019 1:46:55 AM  |
| Surr: 4-Bromofluorobenzene                       | 96.0   | 80-120   |      | %Rec  | 1  | 7/31/2019 1:46:55 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | 170    | 61       |      | mg/Kg | 20 | 7/31/2019 12:02:24 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-08 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:10:00 AM

Lab ID: 1907D74-009

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 7/29/2019 3:19:39 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 7/29/2019 3:19:39 PM  |
| Surr: DNOP                                       | 96.6   | 70-130   |      | %Rec  | 1  | 7/29/2019 3:19:39 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 7/31/2019 2:10:31 AM  |
| Surr: BFB                                        | 99.1   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 2:10:31 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 7/31/2019 2:10:31 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 7/31/2019 2:10:31 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 7/31/2019 2:10:31 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 7/31/2019 2:10:31 AM  |
| Surr: 4-Bromofluorobenzene                       | 98.7   | 80-120   |      | %Rec  | 1  | 7/31/2019 2:10:31 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 61       |      | mg/Kg | 20 | 7/31/2019 12:14:48 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-08 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:15:00 AM

Lab ID: 1907D74-010

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 7/29/2019 3:41:47 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 7/29/2019 3:41:47 PM  |
| Surr: DNOP                                       | 97.3   | 70-130   |      | %Rec  | 1  | 7/29/2019 3:41:47 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 7/31/2019 2:34:07 AM  |
| Surr: BFB                                        | 94.9   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 2:34:07 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 7/31/2019 2:34:07 AM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 7/31/2019 2:34:07 AM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 7/31/2019 2:34:07 AM  |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 7/31/2019 2:34:07 AM  |
| Surr: 4-Bromofluorobenzene                       | 94.7   | 80-120   |      | %Rec  | 1  | 7/31/2019 2:34:07 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 12:52:01 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-09 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:20:00 AM

Lab ID: 1907D74-011

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 8.6      |      | mg/Kg | 1  | 7/30/2019 2:32:18 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 43       |      | mg/Kg | 1  | 7/30/2019 2:32:18 PM |
| Surr: DNOP                                       | 98.8   | 70-130   |      | %Rec  | 1  | 7/30/2019 2:32:18 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 7/31/2019 3:21:17 AM |
| Surr: BFB                                        | 105    | 73.8-119 |      | %Rec  | 1  | 7/31/2019 3:21:17 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/31/2019 3:21:17 AM |
| Toluene                                          | 0.050  | 0.047    |      | mg/Kg | 1  | 7/31/2019 3:21:17 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 3:21:17 AM |
| Xylenes, Total                                   | 0.23   | 0.095    |      | mg/Kg | 1  | 7/31/2019 3:21:17 AM |
| Surr: 4-Bromofluorobenzene                       | 97.0   | 80-120   |      | %Rec  | 1  | 7/31/2019 3:21:17 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 1:04:26 AM |

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

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



## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-09 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:25:00 AM

Lab ID: 1907D74-012

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 7/29/2019 4:26:07 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 7/29/2019 4:26:07 PM |
| Surr: DNOP                                       | 98.1   | 70-130   |      | %Rec  | 1  | 7/29/2019 4:26:07 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 7/31/2019 3:44:58 AM |
| Surr: BFB                                        | 97.3   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 3:44:58 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 7/31/2019 3:44:58 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 3:44:58 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 3:44:58 AM |
| Xylenes, Total                                   | ND     | 0.094    |      | mg/Kg | 1  | 7/31/2019 3:44:58 AM |
| Surr: 4-Bromofluorobenzene                       | 96.8   | 80-120   |      | %Rec  | 1  | 7/31/2019 3:44:58 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 1:16:50 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-10 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:30:00 AM

Lab ID: 1907D74-013

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.7      |      | mg/Kg | 1  | 7/29/2019 4:48:22 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 7/29/2019 4:48:22 PM |
| Surr: DNOP                                       | 104    | 70-130   |      | %Rec  | 1  | 7/29/2019 4:48:22 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 7/31/2019 4:08:46 AM |
| Surr: BFB                                        | 97.0   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 4:08:46 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 7/31/2019 4:08:46 AM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 4:08:46 AM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 4:08:46 AM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 7/31/2019 4:08:46 AM |
| Surr: 4-Bromofluorobenzene                       | 97.2   | 80-120   |      | %Rec  | 1  | 7/31/2019 4:08:46 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 1:29:15 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-11 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:35:00 AM

Lab ID: 1907D74-014

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 8.9      |      | mg/Kg | 1  | 7/30/2019 3:22:35 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 44       |      | mg/Kg | 1  | 7/30/2019 3:22:35 PM |
| Surr: DNOP                                       | 107    | 70-130   |      | %Rec  | 1  | 7/30/2019 3:22:35 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 7/31/2019 4:32:24 AM |
| Surr: BFB                                        | 94.7   | 73.8-119 |      | %Rec  | 1  | 7/31/2019 4:32:24 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/31/2019 4:32:24 AM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 7/31/2019 4:32:24 AM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 7/31/2019 4:32:24 AM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 7/31/2019 4:32:24 AM |
| Surr: 4-Bromofluorobenzene                       | 94.0   | 80-120   |      | %Rec  | 1  | 7/31/2019 4:32:24 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | ND     | 59       |      | mg/Kg | 20 | 7/31/2019 2:06:29 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-12 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:40:00 AM

Lab ID: 1907D74-015

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 290    | 95       |      | mg/Kg | 10 | 7/29/2019 5:33:05 PM |
| Motor Oil Range Organics (MRO)                   | 590    | 470      |      | mg/Kg | 10 | 7/29/2019 5:33:05 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10 | 7/29/2019 5:33:05 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 24       | D    | mg/Kg | 5  | 7/31/2019 4:55:59 AM |
| Surr: BFB                                        | 105    | 73.8-119 | D    | %Rec  | 5  | 7/31/2019 4:55:59 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.12     | D    | mg/Kg | 5  | 7/31/2019 4:55:59 AM |
| Toluene                                          | ND     | 0.24     | D    | mg/Kg | 5  | 7/31/2019 4:55:59 AM |
| Ethylbenzene                                     | ND     | 0.24     | D    | mg/Kg | 5  | 7/31/2019 4:55:59 AM |
| Xylenes, Total                                   | ND     | 0.48     | D    | mg/Kg | 5  | 7/31/2019 4:55:59 AM |
| Surr: 4-Bromofluorobenzene                       | 103    | 80-120   | D    | %Rec  | 5  | 7/31/2019 4:55:59 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | 95     | 59       |      | mg/Kg | 20 | 7/31/2019 2:43:42 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-13 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:45:00 AM

Lab ID: 1907D74-016

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 240    | 99       |      | mg/Kg | 10 | 7/29/2019 5:55:41 PM |
| Motor Oil Range Organics (MRO)                   | 500    | 490      |      | mg/Kg | 10 | 7/29/2019 5:55:41 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10 | 7/29/2019 5:55:41 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 23       | D    | mg/Kg | 5  | 7/30/2019 2:09:52 PM |
| Surr: BFB                                        | 113    | 73.8-119 | D    | %Rec  | 5  | 7/30/2019 2:09:52 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.12     | D    | mg/Kg | 5  | 7/30/2019 2:09:52 PM |
| Toluene                                          | ND     | 0.23     | D    | mg/Kg | 5  | 7/30/2019 2:09:52 PM |
| Ethylbenzene                                     | ND     | 0.23     | D    | mg/Kg | 5  | 7/30/2019 2:09:52 PM |
| Xylenes, Total                                   | ND     | 0.46     | D    | mg/Kg | 5  | 7/30/2019 2:09:52 PM |
| Surr: 4-Bromofluorobenzene                       | 100    | 80-120   | D    | %Rec  | 5  | 7/30/2019 2:09:52 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | 110    | 59       |      | mg/Kg | 20 | 7/31/2019 3:45:44 AM |

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

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



## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-14 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:50:00 AM

Lab ID: 1907D74-017

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 5100   | 890      |      | mg/Kg | 100 | 7/29/2019 6:18:11 PM |
| Motor Oil Range Organics (MRO)                   | 7700   | 4400     |      | mg/Kg | 100 | 7/29/2019 6:18:11 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 100 | 7/29/2019 6:18:11 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 230      | D    | mg/Kg | 50  | 7/30/2019 2:32:44 PM |
| Surr: BFB                                        | 113    | 73.8-119 | D    | %Rec  | 50  | 7/30/2019 2:32:44 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 1.1      | D    | mg/Kg | 50  | 7/30/2019 2:32:44 PM |
| Toluene                                          | ND     | 2.3      | D    | mg/Kg | 50  | 7/30/2019 2:32:44 PM |
| Ethylbenzene                                     | ND     | 2.3      | D    | mg/Kg | 50  | 7/30/2019 2:32:44 PM |
| Xylenes, Total                                   | ND     | 4.6      | D    | mg/Kg | 50  | 7/30/2019 2:32:44 PM |
| Surr: 4-Bromofluorobenzene                       | 99.5   | 80-120   | D    | %Rec  | 50  | 7/30/2019 2:32:44 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 97     | 60       |      | mg/Kg | 20  | 7/31/2019 3:58:09 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-15 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 10:55:00 AM

Lab ID: 1907D74-018

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 170    | 8.6      |      | mg/Kg | 1  | 7/31/2019 8:15:31 PM |
| Motor Oil Range Organics (MRO)                   | 280    | 43       |      | mg/Kg | 1  | 7/31/2019 8:15:31 PM |
| Surr: DNOP                                       | 110    | 70-130   |      | %Rec  | 1  | 7/31/2019 8:15:31 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 9.7      |      | mg/Kg | 2  | 7/31/2019 6:03:14 PM |
| Surr: BFB                                        | 101    | 73.8-119 |      | %Rec  | 2  | 7/31/2019 6:03:14 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.048    |      | mg/Kg | 2  | 7/31/2019 6:03:14 PM |
| Toluene                                          | 0.13   | 0.097    |      | mg/Kg | 2  | 7/31/2019 6:03:14 PM |
| Ethylbenzene                                     | ND     | 0.097    |      | mg/Kg | 2  | 7/31/2019 6:03:14 PM |
| Xylenes, Total                                   | 0.25   | 0.19     |      | mg/Kg | 2  | 7/31/2019 6:03:14 PM |
| Surr: 4-Bromofluorobenzene                       | 97.2   | 80-120   |      | %Rec  | 2  | 7/31/2019 6:03:14 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 4:10:34 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-16 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:00:00 AM

Lab ID: 1907D74-019

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 18000  | 940      |      | mg/Kg | 100 | 7/29/2019 7:03:22 PM |
| Motor Oil Range Organics (MRO)                   | 13000  | 4700     |      | mg/Kg | 100 | 7/29/2019 7:03:22 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 100 | 7/29/2019 7:03:22 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 480      | D    | mg/Kg | 100 | 7/30/2019 3:18:31 PM |
| Surr: BFB                                        | 115    | 73.8-119 | D    | %Rec  | 100 | 7/30/2019 3:18:31 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 2.4      | D    | mg/Kg | 100 | 7/30/2019 3:18:31 PM |
| Toluene                                          | ND     | 4.8      | D    | mg/Kg | 100 | 7/30/2019 3:18:31 PM |
| Ethylbenzene                                     | ND     | 4.8      | D    | mg/Kg | 100 | 7/30/2019 3:18:31 PM |
| Xylenes, Total                                   | ND     | 9.7      | D    | mg/Kg | 100 | 7/30/2019 3:18:31 PM |
| Surr: 4-Bromofluorobenzene                       | 101    | 80-120   | D    | %Rec  | 100 | 7/30/2019 3:18:31 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 1600   | 60       |      | mg/Kg | 20  | 7/31/2019 4:22:58 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-16 '2

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:05:00 AM

Lab ID: 1907D74-020

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 12000  | 1000     |      | mg/Kg | 100 | 7/29/2019 7:26:00 PM |
| Motor Oil Range Organics (MRO)                   | 9600   | 5000     |      | mg/Kg | 100 | 7/29/2019 7:26:00 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 100 | 7/29/2019 7:26:00 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 490      | D    | mg/Kg | 100 | 7/30/2019 3:41:25 PM |
| Surr: BFB                                        | 126    | 73.8-119 | SD   | %Rec  | 100 | 7/30/2019 3:41:25 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 2.4      | D    | mg/Kg | 100 | 7/30/2019 3:41:25 PM |
| Toluene                                          | ND     | 4.9      | D    | mg/Kg | 100 | 7/30/2019 3:41:25 PM |
| Ethylbenzene                                     | ND     | 4.9      | D    | mg/Kg | 100 | 7/30/2019 3:41:25 PM |
| Xylenes, Total                                   | ND     | 9.8      | D    | mg/Kg | 100 | 7/30/2019 3:41:25 PM |
| Surr: 4-Bromofluorobenzene                       | 104    | 80-120   | D    | %Rec  | 100 | 7/30/2019 3:41:25 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>CAS</b>  |
| Chloride                                         | 6800   | 300      |      | mg/Kg | 100 | 8/1/2019 5:33:46 PM  |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-16 4'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:10:00 AM

Lab ID: 1907D74-021

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 8300   | 96       |      | mg/Kg | 10 | 7/30/2019 4:12:49 PM |
| Motor Oil Range Organics (MRO)                   | 2500   | 480      |      | mg/Kg | 10 | 7/30/2019 4:12:49 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10 | 7/30/2019 4:12:49 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | 2000   | 230      |      | mg/Kg | 50 | 7/30/2019 4:04:17 PM |
| Surr: BFB                                        | 300    | 73.8-119 | S    | %Rec  | 50 | 7/30/2019 4:04:17 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 1.2      | D    | mg/Kg | 50 | 7/31/2019 6:26:58 PM |
| Toluene                                          | 16     | 2.3      | D    | mg/Kg | 50 | 7/31/2019 6:26:58 PM |
| Ethylbenzene                                     | 7.5    | 2.3      | D    | mg/Kg | 50 | 7/31/2019 6:26:58 PM |
| Xylenes, Total                                   | 68     | 4.7      | D    | mg/Kg | 50 | 7/31/2019 6:26:58 PM |
| Surr: 4-Bromofluorobenzene                       | 109    | 80-120   | D    | %Rec  | 50 | 7/31/2019 6:26:58 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | 200    | 60       |      | mg/Kg | 20 | 7/31/2019 4:47:47 AM |

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

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



## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: SS19-17 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:15:00 AM

Lab ID: 1907D74-022

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 3800   | 950      |      | mg/Kg | 100 | 7/29/2019 8:10:34 PM |
| Motor Oil Range Organics (MRO)                   | 5100   | 4800     |      | mg/Kg | 100 | 7/29/2019 8:10:34 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 100 | 7/29/2019 8:10:34 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 240      | D    | mg/Kg | 50  | 7/30/2019 4:27:22 PM |
| Surr: BFB                                        | 114    | 73.8-119 | D    | %Rec  | 50  | 7/30/2019 4:27:22 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 1.2      | D    | mg/Kg | 50  | 7/30/2019 4:27:22 PM |
| Toluene                                          | ND     | 2.4      | D    | mg/Kg | 50  | 7/30/2019 4:27:22 PM |
| Ethylbenzene                                     | ND     | 2.4      | D    | mg/Kg | 50  | 7/30/2019 4:27:22 PM |
| Xylenes, Total                                   | ND     | 4.7      | D    | mg/Kg | 50  | 7/30/2019 4:27:22 PM |
| Surr: 4-Bromofluorobenzene                       | 101    | 80-120   | D    | %Rec  | 50  | 7/30/2019 4:27:22 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 1400   | 60       |      | mg/Kg | 20  | 7/31/2019 5:00:11 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:20:00 AM

Lab ID: 1907D74-023

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 9400   | 910      |      | mg/Kg | 100 | 7/29/2019 8:32:44 PM |
| Motor Oil Range Organics (MRO)                   | 6000   | 4600     |      | mg/Kg | 100 | 7/29/2019 8:32:44 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 100 | 7/29/2019 8:32:44 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 460      | D    | mg/Kg | 100 | 7/30/2019 4:50:17 PM |
| Surr: BFB                                        | 118    | 73.8-119 | D    | %Rec  | 100 | 7/30/2019 4:50:17 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 2.3      | D    | mg/Kg | 100 | 7/30/2019 4:50:17 PM |
| Toluene                                          | ND     | 4.6      | D    | mg/Kg | 100 | 7/30/2019 4:50:17 PM |
| Ethylbenzene                                     | ND     | 4.6      | D    | mg/Kg | 100 | 7/30/2019 4:50:17 PM |
| Xylenes, Total                                   | ND     | 9.2      | D    | mg/Kg | 100 | 7/30/2019 4:50:17 PM |
| Surr: 4-Bromofluorobenzene                       | 105    | 80-120   | D    | %Rec  | 100 | 7/30/2019 4:50:17 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 490    | 61       |      | mg/Kg | 20  | 7/31/2019 5:12:35 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:25:00 AM

Lab ID: 1907D74-024

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 8000   | 980      |      | mg/Kg | 100 | 7/29/2019 8:54:59 PM |
| Motor Oil Range Organics (MRO)                   | 6000   | 4900     |      | mg/Kg | 100 | 7/29/2019 8:54:59 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 100 | 7/29/2019 8:54:59 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 470      | D    | mg/Kg | 100 | 7/30/2019 5:13:09 PM |
| Surr: BFB                                        | 127    | 73.8-119 | SD   | %Rec  | 100 | 7/30/2019 5:13:09 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 2.3      | D    | mg/Kg | 100 | 7/30/2019 5:13:09 PM |
| Toluene                                          | ND     | 4.7      | D    | mg/Kg | 100 | 7/30/2019 5:13:09 PM |
| Ethylbenzene                                     | ND     | 4.7      | D    | mg/Kg | 100 | 7/30/2019 5:13:09 PM |
| Xylenes, Total                                   | ND     | 9.4      | D    | mg/Kg | 100 | 7/30/2019 5:13:09 PM |
| Surr: 4-Bromofluorobenzene                       | 106    | 80-120   | D    | %Rec  | 100 | 7/30/2019 5:13:09 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>CAS</b>  |
| Chloride                                         | 6500   | 300      |      | mg/Kg | 100 | 8/1/2019 5:46:11 PM  |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 4'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:30:00 AM

Lab ID: 1907D74-025

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 7700   | 99       |      | mg/Kg | 10  | 7/30/2019 5:03:05 PM |
| Motor Oil Range Organics (MRO)                   | 2100   | 500      |      | mg/Kg | 10  | 7/30/2019 5:03:05 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10  | 7/30/2019 5:03:05 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | 1900   | 470      |      | mg/Kg | 100 | 7/30/2019 5:36:07 PM |
| Surr: BFB                                        | 204    | 73.8-119 | S    | %Rec  | 100 | 7/30/2019 5:36:07 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 2.3      | D    | mg/Kg | 100 | 7/31/2019 6:50:41 PM |
| Toluene                                          | 14     | 4.7      | D    | mg/Kg | 100 | 7/31/2019 6:50:41 PM |
| Ethylbenzene                                     | 6.4    | 4.7      | D    | mg/Kg | 100 | 7/31/2019 6:50:41 PM |
| Xylenes, Total                                   | 70     | 9.3      | D    | mg/Kg | 100 | 7/31/2019 6:50:41 PM |
| Surr: 4-Bromofluorobenzene                       | 101    | 80-120   | D    | %Rec  | 100 | 7/31/2019 6:50:41 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 130    | 60       |      | mg/Kg | 20  | 7/31/2019 6:02:13 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 6'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:35:00 AM

Lab ID: 1907D74-026

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 8300   | 98       |      | mg/Kg | 10  | 7/31/2019 9:00:14 PM |
| Motor Oil Range Organics (MRO)                   | 2800   | 490      |      | mg/Kg | 10  | 7/31/2019 9:00:14 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10  | 7/31/2019 9:00:14 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | 1900   | 480      |      | mg/Kg | 100 | 7/30/2019 7:30:28 PM |
| Surr: BFB                                        | 195    | 73.8-119 | S    | %Rec  | 100 | 7/30/2019 7:30:28 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 2.4      | D    | mg/Kg | 100 | 7/31/2019 8:48:39 PM |
| Toluene                                          | 19     | 4.8      | D    | mg/Kg | 100 | 7/31/2019 8:48:39 PM |
| Ethylbenzene                                     | 8.5    | 4.8      | D    | mg/Kg | 100 | 7/31/2019 8:48:39 PM |
| Xylenes, Total                                   | 78     | 9.7      | D    | mg/Kg | 100 | 7/31/2019 8:48:39 PM |
| Surr: 4-Bromofluorobenzene                       | 100    | 80-120   | D    | %Rec  | 100 | 7/31/2019 8:48:39 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 210    | 60       |      | mg/Kg | 20  | 7/31/2019 6:14:37 AM |

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

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



## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 8'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:40:00 AM

Lab ID: 1907D74-027

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 11000  | 470      |      | mg/Kg | 50  | 7/30/2019 7:09:13 PM |
| Motor Oil Range Organics (MRO)                   | 3000   | 2400     |      | mg/Kg | 50  | 7/30/2019 7:09:13 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50  | 7/30/2019 7:09:13 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | 2400   | 480      |      | mg/Kg | 100 | 7/30/2019 7:53:18 PM |
| Surr: BFB                                        | 211    | 73.8-119 | S    | %Rec  | 100 | 7/30/2019 7:53:18 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | 2.7    | 2.4      | D    | mg/Kg | 100 | 7/31/2019 9:12:14 PM |
| Toluene                                          | 34     | 4.8      | D    | mg/Kg | 100 | 7/31/2019 9:12:14 PM |
| Ethylbenzene                                     | 13     | 4.8      | D    | mg/Kg | 100 | 7/31/2019 9:12:14 PM |
| Xylenes, Total                                   | 95     | 9.7      | D    | mg/Kg | 100 | 7/31/2019 9:12:14 PM |
| Surr: 4-Bromofluorobenzene                       | 103    | 80-120   | D    | %Rec  | 100 | 7/31/2019 9:12:14 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 250    | 61       |      | mg/Kg | 20  | 7/31/2019 6:27:01 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 10'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:45:00 AM

Lab ID: 1907D74-028

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 11000  | 470      |      | mg/Kg | 50  | 7/30/2019 7:34:16 PM |
| Motor Oil Range Organics (MRO)                   | 3300   | 2400     |      | mg/Kg | 50  | 7/30/2019 7:34:16 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50  | 7/30/2019 7:34:16 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | 2300   | 490      |      | mg/Kg | 100 | 7/30/2019 8:16:04 PM |
| Surr: BFB                                        | 201    | 73.8-119 | S    | %Rec  | 100 | 7/30/2019 8:16:04 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | 3.2    | 2.5      | D    | mg/Kg | 100 | 7/31/2019 9:35:49 PM |
| Toluene                                          | 38     | 4.9      | D    | mg/Kg | 100 | 7/31/2019 9:35:49 PM |
| Ethylbenzene                                     | 15     | 4.9      | D    | mg/Kg | 100 | 7/31/2019 9:35:49 PM |
| Xylenes, Total                                   | 97     | 9.9      | D    | mg/Kg | 100 | 7/31/2019 9:35:49 PM |
| Surr: 4-Bromofluorobenzene                       | 105    | 80-120   | D    | %Rec  | 100 | 7/31/2019 9:35:49 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 410    | 59       |      | mg/Kg | 20  | 7/31/2019 6:39:26 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 12'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:50:00 AM

Lab ID: 1907D74-029

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|-----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 13000  | 470      |      | mg/Kg | 50  | 7/30/2019 7:59:26 PM |
| Motor Oil Range Organics (MRO)                   | 4000   | 2300     |      | mg/Kg | 50  | 7/30/2019 7:59:26 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50  | 7/30/2019 7:59:26 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | 2100   | 480      |      | mg/Kg | 100 | 7/30/2019 8:38:52 PM |
| Surr: BFB                                        | 198    | 73.8-119 | S    | %Rec  | 100 | 7/30/2019 8:38:52 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 2.4      | D    | mg/Kg | 100 | 7/31/2019 9:59:24 PM |
| Toluene                                          | 29     | 4.8      | D    | mg/Kg | 100 | 7/31/2019 9:59:24 PM |
| Ethylbenzene                                     | 16     | 4.8      | D    | mg/Kg | 100 | 7/31/2019 9:59:24 PM |
| Xylenes, Total                                   | 96     | 9.6      | D    | mg/Kg | 100 | 7/31/2019 9:59:24 PM |
| Surr: 4-Bromofluorobenzene                       | 110    | 80-120   | D    | %Rec  | 100 | 7/31/2019 9:59:24 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>  |
| Chloride                                         | 720    | 60       |      | mg/Kg | 20  | 7/31/2019 6:51:50 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 14'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 11:55:00 AM

Lab ID: 1907D74-030

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 9400   | 470      |      | mg/Kg | 50  | 7/30/2019 8:24:34 PM  |
| Motor Oil Range Organics (MRO)                   | 2900   | 2400     |      | mg/Kg | 50  | 7/30/2019 8:24:34 PM  |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50  | 7/30/2019 8:24:34 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 1700   | 490      |      | mg/Kg | 100 | 7/30/2019 9:01:40 PM  |
| Surr: BFB                                        | 179    | 73.8-119 | S    | %Rec  | 100 | 7/30/2019 9:01:40 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 2.4      | D    | mg/Kg | 100 | 7/31/2019 10:22:59 PM |
| Toluene                                          | 18     | 4.9      | D    | mg/Kg | 100 | 7/31/2019 10:22:59 PM |
| Ethylbenzene                                     | 10     | 4.9      | D    | mg/Kg | 100 | 7/31/2019 10:22:59 PM |
| Xylenes, Total                                   | 66     | 9.7      | D    | mg/Kg | 100 | 7/31/2019 10:22:59 PM |
| Surr: 4-Bromofluorobenzene                       | 99.5   | 80-120   | D    | %Rec  | 100 | 7/31/2019 10:22:59 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>   |
| Chloride                                         | 800    | 60       |      | mg/Kg | 20  | 7/31/2019 7:04:14 AM  |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 16'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:00:00 PM

Lab ID: 1907D74-031

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 9500   | 490      |      | mg/Kg | 50  | 7/30/2019 8:49:41 PM  |
| Motor Oil Range Organics (MRO)                   | 2600   | 2400     |      | mg/Kg | 50  | 7/30/2019 8:49:41 PM  |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50  | 7/30/2019 8:49:41 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 2200   | 480      |      | mg/Kg | 100 | 7/30/2019 9:24:21 PM  |
| Surr: BFB                                        | 186    | 73.8-119 | S    | %Rec  | 100 | 7/30/2019 9:24:21 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Benzene                                          | 2.6    | 2.4      | D    | mg/Kg | 100 | 7/31/2019 10:46:34 PM |
| Toluene                                          | 35     | 4.8      | D    | mg/Kg | 100 | 7/31/2019 10:46:34 PM |
| Ethylbenzene                                     | 17     | 4.8      | D    | mg/Kg | 100 | 7/31/2019 10:46:34 PM |
| Xylenes, Total                                   | 90     | 9.5      | D    | mg/Kg | 100 | 7/31/2019 10:46:34 PM |
| Surr: 4-Bromofluorobenzene                       | 101    | 80-120   | D    | %Rec  | 100 | 7/31/2019 10:46:34 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>   |
| Chloride                                         | 580    | 61       |      | mg/Kg | 20  | 7/31/2019 7:16:38 AM  |

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

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



## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 18'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:05:00 PM

Lab ID: 1907D74-032

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 9900   | 470      |      | mg/Kg | 50  | 7/30/2019 9:39:24 PM  |
| Motor Oil Range Organics (MRO)                   | 2500   | 2400     |      | mg/Kg | 50  | 7/30/2019 9:39:24 PM  |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50  | 7/30/2019 9:39:24 PM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 2000   | 490      |      | mg/Kg | 100 | 7/30/2019 9:47:09 PM  |
| Surr: BFB                                        | 188    | 73.8-119 | S    | %Rec  | 100 | 7/30/2019 9:47:09 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 2.4      | D    | mg/Kg | 100 | 7/31/2019 11:10:07 PM |
| Toluene                                          | 25     | 4.9      | D    | mg/Kg | 100 | 7/31/2019 11:10:07 PM |
| Ethylbenzene                                     | 13     | 4.9      | D    | mg/Kg | 100 | 7/31/2019 11:10:07 PM |
| Xylenes, Total                                   | 78     | 9.8      | D    | mg/Kg | 100 | 7/31/2019 11:10:07 PM |
| Surr: 4-Bromofluorobenzene                       | 99.4   | 80-120   | D    | %Rec  | 100 | 7/31/2019 11:10:07 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>   |
| Chloride                                         | 560    | 60       |      | mg/Kg | 20  | 7/31/2019 7:29:02 AM  |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 20'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:10:00 PM

Lab ID: 1907D74-033

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 480    | 37       |      | mg/Kg | 4   | 8/2/2019 8:12:49 AM   |
| Motor Oil Range Organics (MRO)                   | 240    | 190      |      | mg/Kg | 4   | 8/2/2019 8:12:49 AM   |
| Surr: DNOP                                       | 119    | 70-130   |      | %Rec  | 4   | 8/2/2019 8:12:49 AM   |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 19     | 4.6      |      | mg/Kg | 1   | 7/30/2019 10:09:58 PM |
| Surr: BFB                                        | 260    | 73.8-119 | S    | %Rec  | 1   | 7/30/2019 10:09:58 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 2.3      | D    | mg/Kg | 100 | 7/31/2019 11:33:40 PM |
| Toluene                                          | ND     | 4.6      | D    | mg/Kg | 100 | 7/31/2019 11:33:40 PM |
| Ethylbenzene                                     | ND     | 4.6      | D    | mg/Kg | 100 | 7/31/2019 11:33:40 PM |
| Xylenes, Total                                   | ND     | 9.3      | D    | mg/Kg | 100 | 7/31/2019 11:33:40 PM |
| Surr: 4-Bromofluorobenzene                       | 93.5   | 80-120   | D    | %Rec  | 100 | 7/31/2019 11:33:40 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>MRA</b>   |
| Chloride                                         | 580    | 59       |      | mg/Kg | 20  | 7/31/2019 7:41:27 AM  |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-18 22'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:15:00 PM

Lab ID: 1907D74-034

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 920    | 9.6      |      | mg/Kg | 1  | 7/31/2019 10:29:05 PM |
| Motor Oil Range Organics (MRO)                   | 360    | 48       |      | mg/Kg | 1  | 7/31/2019 10:29:05 PM |
| Surr: DNOP                                       | 220    | 70-130   | S    | %Rec  | 1  | 7/31/2019 10:29:05 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 39     | 4.7      |      | mg/Kg | 1  | 7/30/2019 10:32:41 PM |
| Surr: BFB                                        | 339    | 73.8-119 | S    | %Rec  | 1  | 7/30/2019 10:32:41 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/31/2019 11:57:17 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 11:57:17 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 7/31/2019 11:57:17 PM |
| Xylenes, Total                                   | 0.29   | 0.094    |      | mg/Kg | 1  | 7/31/2019 11:57:17 PM |
| Surr: 4-Bromofluorobenzene                       | 106    | 80-120   |      | %Rec  | 1  | 7/31/2019 11:57:17 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 560    | 60       |      | mg/Kg | 20 | 7/31/2019 11:30:54 AM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-19 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:20:00 PM

Lab ID: 1907D74-035

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF  | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|-----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |     | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 5500   | 520      |      | mg/Kg | 50  | 7/30/2019 10:54:15 PM |
| Motor Oil Range Organics (MRO)                   | 2800   | 2600     |      | mg/Kg | 50  | 7/30/2019 10:54:15 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50  | 7/30/2019 10:54:15 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 230      |      | mg/Kg | 50  | 7/30/2019 10:55:25 PM |
| Surr: BFB                                        | 124    | 73.8-119 | S    | %Rec  | 50  | 7/30/2019 10:55:25 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |     | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 1.2      |      | mg/Kg | 50  | 7/30/2019 10:55:25 PM |
| Toluene                                          | ND     | 2.3      |      | mg/Kg | 50  | 7/30/2019 10:55:25 PM |
| Ethylbenzene                                     | ND     | 2.3      |      | mg/Kg | 50  | 7/30/2019 10:55:25 PM |
| Xylenes, Total                                   | ND     | 4.6      |      | mg/Kg | 50  | 7/30/2019 10:55:25 PM |
| Surr: 4-Bromofluorobenzene                       | 106    | 80-120   |      | %Rec  | 50  | 7/30/2019 10:55:25 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |     | Analyst: <b>CAS</b>   |
| Chloride                                         | 9800   | 600      |      | mg/Kg | 200 | 8/1/2019 6:35:50 PM   |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-19 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:25:00 PM

Lab ID: 1907D74-036

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 7700   | 500      |      | mg/Kg | 50 | 7/30/2019 11:19:12 PM |
| Motor Oil Range Organics (MRO)                   | 3300   | 2500     |      | mg/Kg | 50 | 7/30/2019 11:19:12 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50 | 7/30/2019 11:19:12 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 240      | D    | mg/Kg | 50 | 7/31/2019 12:03:41 AM |
| Surr: BFB                                        | 131    | 73.8-119 | SD   | %Rec  | 50 | 7/31/2019 12:03:41 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 1.2      | D    | mg/Kg | 50 | 7/31/2019 12:03:41 AM |
| Toluene                                          | 2.5    | 2.4      | D    | mg/Kg | 50 | 7/31/2019 12:03:41 AM |
| Ethylbenzene                                     | ND     | 2.4      | D    | mg/Kg | 50 | 7/31/2019 12:03:41 AM |
| Xylenes, Total                                   | 5.2    | 4.8      | D    | mg/Kg | 50 | 7/31/2019 12:03:41 AM |
| Surr: 4-Bromofluorobenzene                       | 106    | 80-120   | D    | %Rec  | 50 | 7/31/2019 12:03:41 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 81     | 60       |      | mg/Kg | 20 | 7/31/2019 12:45:20 PM |

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

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



## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-19 4'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:30:00 PM

Lab ID: 1907D74-037

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 2400   | 94       |      | mg/Kg | 10 | 7/30/2019 11:44:05 PM |
| Motor Oil Range Organics (MRO)                   | 1100   | 470      |      | mg/Kg | 10 | 7/30/2019 11:44:05 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10 | 7/30/2019 11:44:05 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 230      | D    | mg/Kg | 50 | 7/31/2019 12:26:28 AM |
| Surr: BFB                                        | 127    | 73.8-119 | SD   | %Rec  | 50 | 7/31/2019 12:26:28 AM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 1.2      | D    | mg/Kg | 50 | 7/31/2019 12:26:28 AM |
| Toluene                                          | 2.5    | 2.3      | D    | mg/Kg | 50 | 7/31/2019 12:26:28 AM |
| Ethylbenzene                                     | ND     | 2.3      | D    | mg/Kg | 50 | 7/31/2019 12:26:28 AM |
| Xylenes, Total                                   | 6.1    | 4.6      | D    | mg/Kg | 50 | 7/31/2019 12:26:28 AM |
| Surr: 4-Bromofluorobenzene                       | 105    | 80-120   | D    | %Rec  | 50 | 7/31/2019 12:26:28 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 440    | 60       |      | mg/Kg | 20 | 7/31/2019 12:57:45 PM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-19 6'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:35:00 PM

Lab ID: 1907D74-038

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.1      |      | mg/Kg | 1  | 7/31/2019 12:08:57 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 7/31/2019 12:08:57 AM |
| Surr: DNOP                                       | 90.3   | 70-130   |      | %Rec  | 1  | 7/31/2019 12:08:57 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 8/1/2019 12:20:56 AM  |
| Surr: BFB                                        | 98.8   | 73.8-119 |      | %Rec  | 1  | 8/1/2019 12:20:56 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 8/1/2019 12:20:56 AM  |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 8/1/2019 12:20:56 AM  |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 8/1/2019 12:20:56 AM  |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 8/1/2019 12:20:56 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.7   | 80-120   |      | %Rec  | 1  | 8/1/2019 12:20:56 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 1:10:10 PM  |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-20 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:40:00 PM

Lab ID: 1907D74-039

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 8200   | 100      |      | mg/Kg | 10 | 7/31/2019 11:13:40 PM |
| Motor Oil Range Organics (MRO)                   | 4200   | 510      |      | mg/Kg | 10 | 7/31/2019 11:13:40 PM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 10 | 7/31/2019 11:13:40 PM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 250    | 240      |      | mg/Kg | 50 | 7/31/2019 1:11:58 AM  |
| Surr: BFB                                        | 136    | 73.8-119 | S    | %Rec  | 50 | 7/31/2019 1:11:58 AM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 1.2      |      | mg/Kg | 50 | 7/31/2019 1:11:58 AM  |
| Toluene                                          | ND     | 2.4      |      | mg/Kg | 50 | 7/31/2019 1:11:58 AM  |
| Ethylbenzene                                     | ND     | 2.4      |      | mg/Kg | 50 | 7/31/2019 1:11:58 AM  |
| Xylenes, Total                                   | 6.4    | 4.8      |      | mg/Kg | 50 | 7/31/2019 1:11:58 AM  |
| Surr: 4-Bromofluorobenzene                       | 105    | 80-120   |      | %Rec  | 50 | 7/31/2019 1:11:58 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 4100   | 150      |      | mg/Kg | 50 | 8/1/2019 5:58:36 PM   |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-20 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:45:00 PM

Lab ID: 1907D74-040

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 7700   | 480      |      | mg/Kg | 50 | 7/31/2019 12:58:31 AM |
| Motor Oil Range Organics (MRO)                   | 2700   | 2400     |      | mg/Kg | 50 | 7/31/2019 12:58:31 AM |
| Surr: DNOP                                       | 0      | 70-130   | S    | %Rec  | 50 | 7/31/2019 12:58:31 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Gasoline Range Organics (GRO)                    | 66     | 4.7      |      | mg/Kg | 1  | 7/29/2019 2:30:50 PM  |
| Surr: BFB                                        | 478    | 73.8-119 | S    | %Rec  | 1  | 7/29/2019 2:30:50 PM  |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/29/2019 2:30:50 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 7/29/2019 2:30:50 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 7/29/2019 2:30:50 PM  |
| Xylenes, Total                                   | 1.3    | 0.095    |      | mg/Kg | 1  | 7/29/2019 2:30:50 PM  |
| Surr: 4-Bromofluorobenzene                       | 103    | 80-120   |      | %Rec  | 1  | 7/29/2019 2:30:50 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 210    | 60       |      | mg/Kg | 20 | 7/31/2019 1:34:58 PM  |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-20 4'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:50:00 PM

Lab ID: 1907D74-041

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 600    | 47       |      | mg/Kg | 5  | 8/2/2019 8:56:54 AM  |
| Motor Oil Range Organics (MRO)                   | 330    | 240      |      | mg/Kg | 5  | 8/2/2019 8:56:54 AM  |
| Surr: DNOP                                       | 104    | 70-130   |      | %Rec  | 5  | 8/2/2019 8:56:54 AM  |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | 7.4    | 4.6      |      | mg/Kg | 1  | 7/29/2019 3:18:10 PM |
| Surr: BFB                                        | 174    | 73.8-119 | S    | %Rec  | 1  | 7/29/2019 3:18:10 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 7/29/2019 3:18:10 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 7/29/2019 3:18:10 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 7/29/2019 3:18:10 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 7/29/2019 3:18:10 PM |
| Surr: 4-Bromofluorobenzene                       | 98.7   | 80-120   |      | %Rec  | 1  | 7/29/2019 3:18:10 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 1:47:22 PM |

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

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



## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BH19-20 6'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 12:55:00 PM

Lab ID: 1907D74-042

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | 130    | 9.2      |      | mg/Kg | 1  | 7/31/2019 1:48:00 AM |
| Motor Oil Range Organics (MRO)                   | 59     | 46       |      | mg/Kg | 1  | 7/31/2019 1:48:00 AM |
| Surr: DNOP                                       | 98.1   | 70-130   |      | %Rec  | 1  | 7/31/2019 1:48:00 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 7/29/2019 4:29:08 PM |
| Surr: BFB                                        | 106    | 73.8-119 |      | %Rec  | 1  | 7/29/2019 4:29:08 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/29/2019 4:29:08 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 7/29/2019 4:29:08 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 7/29/2019 4:29:08 PM |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 7/29/2019 4:29:08 PM |
| Surr: 4-Bromofluorobenzene                       | 92.3   | 80-120   |      | %Rec  | 1  | 7/29/2019 4:29:08 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 1:59:47 PM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BG-1 0'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 1:00:00 PM

Lab ID: 1907D74-043

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 7/31/2019 2:12:47 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 47       |      | mg/Kg | 1  | 7/31/2019 2:12:47 AM |
| Surr: DNOP                                       | 91.0   | 70-130   |      | %Rec  | 1  | 7/31/2019 2:12:47 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 7/29/2019 6:03:28 PM |
| Surr: BFB                                        | 92.4   | 73.8-119 |      | %Rec  | 1  | 7/29/2019 6:03:28 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 7/29/2019 6:03:28 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 7/29/2019 6:03:28 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 7/29/2019 6:03:28 PM |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 7/29/2019 6:03:28 PM |
| Surr: 4-Bromofluorobenzene                       | 91.4   | 80-120   |      | %Rec  | 1  | 7/29/2019 6:03:28 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 2:12:11 PM |

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

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

## Analytical Report

Lab Order 1907D74

Date Reported: 8/5/2019

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BG-1 2'

Project: North Pure Gold 9 Fed 1

Collection Date: 7/24/2019 1:05:00 PM

Lab ID: 1907D74-044

Matrix: SOIL

Received Date: 7/26/2019 8:45:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 7/31/2019 2:37:43 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 7/31/2019 2:37:43 AM |
| Surr: DNOP                                       | 91.7   | 70-130   |      | %Rec  | 1  | 7/31/2019 2:37:43 AM |
| <b>EPA METHOD 8015D: GASOLINE RANGE</b>          |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 7/29/2019 6:27:04 PM |
| Surr: BFB                                        | 92.6   | 73.8-119 |      | %Rec  | 1  | 7/29/2019 6:27:04 PM |
| <b>EPA METHOD 8021B: VOLATILES</b>               |        |          |      |       |    | Analyst: <b>NSB</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 7/29/2019 6:27:04 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 7/29/2019 6:27:04 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 7/29/2019 6:27:04 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 7/29/2019 6:27:04 PM |
| Surr: 4-Bromofluorobenzene                       | 92.2   | 80-120   |      | %Rec  | 1  | 7/29/2019 6:27:04 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>  |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 7/31/2019 2:24:36 PM |

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

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

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

WO#: 1907D74

05-Aug-19

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>MB-46495</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46495</b>          | RunNo: <b>61775</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/30/2019</b> | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2094150</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-46495</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46495</b>          | RunNo: <b>61775</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/30/2019</b> | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2094151</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 95.4 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-46498</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46498</b>          | RunNo: <b>61775</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/30/2019</b> | Analysis Date: <b>7/31/2019</b> | SeqNo: <b>2094182</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-46498</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46498</b>          | RunNo: <b>61775</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/30/2019</b> | Analysis Date: <b>7/31/2019</b> | SeqNo: <b>2094183</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| 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: <b>MB-46511</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46511</b>          | RunNo: <b>61780</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2019</b> | Analysis Date: <b>7/31/2019</b> | SeqNo: <b>2095324</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-46511</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46511</b>          | RunNo: <b>61780</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/31/2019</b> | Analysis Date: <b>7/31/2019</b> | SeqNo: <b>2095326</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 94.0 | 90       | 110       |      |          |      |

**Qualifiers:**

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

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

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

WO#: 1907D74

05-Aug-19

**Client:** Devon Energy**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>1907D74-006AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>SS19-06 0'</b>     | Batch ID: <b>46426</b>          | RunNo: <b>61704</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>      | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2091850</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 48                              | 9.4                                                        | 47.17     | 0           | 102  | 57       | 142       |      |          |      |
| Surr: DNOP                       | 4.2                             |                                                            | 4.717     |             | 88.7 | 70       | 130       |      |          |      |

| Sample ID: <b>1907D74-006AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>SS19-06 0'</b>      | Batch ID: <b>46426</b>          | RunNo: <b>61704</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>       | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2091851</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 51                              | 9.7                                                        | 48.36     | 0           | 105  | 57       | 142       | 4.57 | 20       |      |
| Surr: DNOP                        | 4.3                             |                                                            | 4.836     |             | 88.0 | 70       | 130       | 0    | 0        |      |

| Sample ID: <b>LCS-46426</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46426</b>          | RunNo: <b>61704</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2091854</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 54                              | 10                                                         | 50.00     | 0           | 107  | 63.9     | 124       |      |          |      |
| Surr: DNOP                  | 4.5                             |                                                            | 5.000     |             | 90.3 | 70       | 130       |      |          |      |

| Sample ID: <b>MB-46426</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>46426</b>          | RunNo: <b>61704</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>    | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2091855</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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     |             | 92.4 | 70       | 130       |      |          |      |

| Sample ID: <b>MB-46412</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46412</b>          | RunNo: <b>61730</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092548</b> Units: <b>%Rec</b>                   |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 9.7                             |                                                            | 10.00     |             | 97.2 | 70       | 130       |      |          |      |

| Sample ID: <b>MB-46425</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46425</b>          | RunNo: <b>61730</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092549</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

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



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

WO#: 1907D74

05-Aug-19

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>MB-46425</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>46425</b>          | RunNo: <b>61730</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>    | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092549</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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                     | 8.8                             |                                                            | 10.00     |             | 87.7 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-46412</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46412</b>          | RunNo: <b>61730</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092550</b> Units: <b>%Rec</b>                   |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 3.8                             |                                                            | 5.000     |             | 76.9 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-46425</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46425</b>          | RunNo: <b>61730</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092551</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 50                              | 10                                                         | 50.00     | 0           | 101  | 63.9     | 124       |      |          |      |
| Surr: DNOP                  | 4.1                             |                                                            | 5.000     |             | 82.8 | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-46434</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46434</b>          | RunNo: <b>61732</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/29/2019</b> | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2093469</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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 | 63.9     | 124       |      |          |      |
| Surr: DNOP                  | 4.2                             |                                                            | 5.000     |             | 83.1 | 70       | 130       |      |          |      |

| Sample ID: <b>MB-46434</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>46434</b>          | RunNo: <b>61732</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/29/2019</b>    | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2093470</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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                     | 8.9                             |                                                            | 10.00     |             | 88.6 | 70       | 130       |      |          |      |

**Qualifiers:**

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

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

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

WO#: 1907D74

05-Aug-19

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>LCS-46481</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46481</b>          |     |           | RunNo: <b>61770</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>7/30/2019</b> | Analysis Date: <b>7/31/2019</b> |     |           | SeqNo: <b>2094814</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.8                             |     | 5.000     |                                                            | 96.3               | 70       | 130       |      |          |      |

| Sample ID: <b>MB-46481</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46481</b>          |     |           | RunNo: <b>61770</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>7/30/2019</b> | Analysis Date: <b>7/31/2019</b> |     |           | SeqNo: <b>2094815</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 9.9                             |     | 10.00     |                                                            | 98.8               | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-46512</b> | SampType: <b>LCS</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46512</b>         |     |           | RunNo: <b>61831</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>7/31/2019</b> | Analysis Date: <b>8/1/2019</b> |     |           | SeqNo: <b>2096582</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.0                            |     | 5.000     |                                                            | 79.1               | 70       | 130       |      |          |      |

| Sample ID: <b>MB-46512</b>  | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46512</b>         |     |           | RunNo: <b>61831</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>7/31/2019</b> | Analysis Date: <b>8/1/2019</b> |     |           | SeqNo: <b>2096583</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 8.8                            |     | 10.00     |                                                            | 87.8               | 70       | 130       |      |          |      |

| Sample ID: <b>LCS-46536</b> | SampType: <b>LCS</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|-----------------------------|--------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46536</b>         |     |           | RunNo: <b>61831</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>8/1/2019</b>  | Analysis Date: <b>8/2/2019</b> |     |           | SeqNo: <b>2097810</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                         | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 4.9                            |     | 5.000     |                                                            | 98.4               | 70       | 130       |      |          |      |

| Sample ID: <b>MB-46536</b> | SampType: <b>MBLK</b>          |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |          |           |      |          |      |
|----------------------------|--------------------------------|-----|-----------|------------------------------------------------------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>      | Batch ID: <b>46536</b>         |     |           | RunNo: <b>61831</b>                                        |                    |          |           |      |          |      |
| Prep Date: <b>8/1/2019</b> | Analysis Date: <b>8/2/2019</b> |     |           | SeqNo: <b>2097812</b>                                      | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                    | Result                         | PQL | SPK value | SPK Ref Val                                                | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                 | 13                             |     | 10.00     |                                                            | 133                | 70       | 130       |      |          | S    |

**Qualifiers:**

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

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

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

WO#: 1907D74

05-Aug-19

**Client:** Devon Energy**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>MB-46422</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>46422</b>          | RunNo: <b>61712</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>   | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092021</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| 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      |             | 89.3                | 73.8     | 119       |      |          |      |

| Sample ID: <b>LCS-46422</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>46422</b>          | RunNo: <b>61712</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>   | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092022</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24                              | 5.0                                               | 25.00     | 0           | 94.6                | 80.1     | 123       |      |          |      |
| Surr: BFB                     | 1000                            |                                                   | 1000      |             | 104                 | 73.8     | 119       |      |          |      |

| Sample ID: <b>1907D74-041AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|---------------------|----------|-----------|------|----------|------|
| Client ID: <b>BH19-20 4'</b>     | Batch ID: <b>46422</b>          | RunNo: <b>61712</b>                               |           |             |                     |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>      | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092025</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 32                              | 4.6                                               | 23.04     | 7.407       | 106                 | 69.1     | 142       |      |          |      |
| Surr: BFB                        | 1700                            |                                                   | 921.7     |             | 181                 | 73.8     | 119       |      |          | S    |

| Sample ID: <b>1907D74-041AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                     |          |           |       |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|---------------------|----------|-----------|-------|----------|------|
| Client ID: <b>BH19-20 4'</b>      | Batch ID: <b>46422</b>          | RunNo: <b>61712</b>                               |           |             |                     |          |           |       |          |      |
| Prep Date: <b>7/26/2019</b>       | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092026</b>                             |           |             | Units: <b>mg/Kg</b> |          |           |       |          |      |
| Analyte                           | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC                | LowLimit | HighLimit | %RPD  | RPDLimit | Qual |
| Gasoline Range Organics (GRO)     | 31                              | 4.8                                               | 23.83     | 7.407       | 101                 | 69.1     | 142       | 0.959 | 20       |      |
| Surr: BFB                         | 1600                            |                                                   | 953.3     |             | 167                 | 73.8     | 119       | 0     | 0        | S    |

| Sample ID: <b>MB-46417</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46417</b>          | RunNo: <b>61712</b>                               |           |             |                    |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092033</b>                             |           |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 920                             |                                                   | 1000      |             | 92.0               | 73.8     | 119       |      |          |      |

| Sample ID: <b>LCS-46417</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |                    |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|--------------------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46417</b>          | RunNo: <b>61712</b>                               |           |             |                    |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092035</b>                             |           |             | Units: <b>%Rec</b> |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC               | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: BFB                   | 1000                            |                                                   | 1000      |             | 100                | 73.8     | 119       |      |          |      |

**Qualifiers:**

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

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

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

WO#: 1907D74

05-Aug-19

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>MB-46420</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>46420</b>          | RunNo: <b>61757</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>   | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2093528</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0                                               |           |             |      |          |           |      |          |      |
| Surr: BFB                     | 930                             |                                                   | 1000      |             | 93.0 | 73.8     | 119       |      |          |      |

| Sample ID: <b>LCS-46420</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>46420</b>          | RunNo: <b>61757</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>   | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2093529</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 24                              | 5.0                                               | 25.00     | 0           | 94.2 | 80.1     | 123       |      |          |      |
| Surr: BFB                     | 1100                            |                                                   | 1000      |             | 110  | 73.8     | 119       |      |          |      |

| Sample ID: <b>MB-46421</b>    | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>46421</b>          | RunNo: <b>61758</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>   | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2093613</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 500                                               |           |             |      |          |           |      |          |      |
| Surr: BFB                     | 100000                          |                                                   | 100000    |             | 101  | 73.8     | 119       |      |          |      |

| Sample ID: <b>LCS-46421</b>   | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015D: Gasoline Range</b> |           |             |      |          |           |      |          |      |
|-------------------------------|---------------------------------|---------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>46421</b>          | RunNo: <b>61758</b>                               |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b>   | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2093614</b> Units: <b>mg/Kg</b>         |           |             |      |          |           |      |          |      |
| Analyte                       | Result                          | PQL                                               | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 26                              | 5.0                                               | 25.00     | 0           | 103  | 80.1     | 123       |      |          |      |
| Surr: BFB                     | 1200                            |                                                   | 1000      |             | 124  | 73.8     | 119       |      |          | S    |

**Qualifiers:**

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

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

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

WO#: 1907D74

05-Aug-19

**Client:** Devon Energy**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>MB-46422</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46422</b>          | RunNo: <b>61712</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092074</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| 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     |             | 88.8 | 80       | 120       |      |          |      |

| Sample ID: <b>LCS-46422</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46422</b>          | RunNo: <b>61712</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092075</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.96                            | 0.025                                        | 1.000     | 0           | 96.2 | 80       | 120       |      |          |      |
| Toluene                     | 1.0                             | 0.050                                        | 1.000     | 0           | 101  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.0                             | 0.050                                        | 1.000     | 0           | 101  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.0                             | 0.10                                         | 3.000     | 0           | 101  | 80       | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.96                            |                                              | 1.000     |             | 95.7 | 80       | 120       |      |          |      |

| Sample ID: <b>MB-46417</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46417</b>          | RunNo: <b>61712</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092081</b> Units: <b>%Rec</b>     |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 0.91                            |                                              | 1.000     |             | 91.2 | 80       | 120       |      |          |      |

| Sample ID: <b>LCS-46417</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46417</b>          | RunNo: <b>61712</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/29/2019</b> | SeqNo: <b>2092082</b> Units: <b>%Rec</b>     |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                          | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 1.0                             |                                              | 1.000     |             | 99.9 | 80       | 120       |      |          |      |

| Sample ID: <b>MB-46420</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8021B: Volatiles</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|----------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46420</b>          | RunNo: <b>61757</b>                          |           |             |      |          |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/30/2019</b> | SeqNo: <b>2093575</b> Units: <b>mg/Kg</b>    |           |             |      |          |           |      |          |      |
| 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                                         |           |             |      |          |           |      |          |      |

**Qualifiers:**

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

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



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

WO#: 1907D74

05-Aug-19

**Client:** Devon Energy**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>MB-46420</b>  | SampType: <b>MBLK</b>           |     |           |             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|-------------|----------------------------------------------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46420</b>          |     |           |             | RunNo: <b>61757</b>                          |                     |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/30/2019</b> |     |           |             | SeqNo: <b>2093575</b>                        | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val | %REC                                         | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene  | 0.94                            |     | 1.000     |             | 94.3                                         | 80                  | 120       |      |          |      |

| Sample ID: <b>LCS-46420</b> | SampType: <b>LCS</b>            |       |           |             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |           |      |          |      |
|-----------------------------|---------------------------------|-------|-----------|-------------|----------------------------------------------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46420</b>          |       |           |             | RunNo: <b>61757</b>                          |                     |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/30/2019</b> |       |           |             | SeqNo: <b>2093576</b>                        | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value | SPK Ref Val | %REC                                         | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 1.0                             | 0.025 | 1.000     | 0           | 101                                          | 80                  | 120       |      |          |      |
| Toluene                     | 1.0                             | 0.050 | 1.000     | 0           | 102                                          | 80                  | 120       |      |          |      |
| Ethylbenzene                | 0.98                            | 0.050 | 1.000     | 0           | 98.5                                         | 80                  | 120       |      |          |      |
| Xylenes, Total              | 2.9                             | 0.10  | 3.000     | 0           | 97.6                                         | 80                  | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.89                            |       | 1.000     |             | 88.9                                         | 80                  | 120       |      |          |      |

| Sample ID: <b>MB-46421</b>  | SampType: <b>MBLK</b>           |     |           |             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|-------------|----------------------------------------------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>46421</b>          |     |           |             | RunNo: <b>61758</b>                          |                     |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/30/2019</b> |     |           |             | SeqNo: <b>2093643</b>                        | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val | %REC                                         | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | ND                              | 2.5 |           |             |                                              |                     |           |      |          |      |
| Toluene                     | ND                              | 5.0 |           |             |                                              |                     |           |      |          |      |
| Ethylbenzene                | ND                              | 5.0 |           |             |                                              |                     |           |      |          |      |
| Xylenes, Total              | ND                              | 10  |           |             |                                              |                     |           |      |          |      |
| Surr: 4-Bromofluorobenzene  | 86                              |     | 100.0     |             | 86.3                                         | 80                  | 120       |      |          |      |

| Sample ID: <b>LCS-46421</b> | SampType: <b>LCS</b>            |       |           |             | TestCode: <b>EPA Method 8021B: Volatiles</b> |                     |           |      |          |      |
|-----------------------------|---------------------------------|-------|-----------|-------------|----------------------------------------------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>46421</b>          |       |           |             | RunNo: <b>61758</b>                          |                     |           |      |          |      |
| Prep Date: <b>7/26/2019</b> | Analysis Date: <b>7/30/2019</b> |       |           |             | SeqNo: <b>2093644</b>                        | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                     | Result                          | PQL   | SPK value | SPK Ref Val | %REC                                         | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.87                            | 0.025 | 1.000     | 0           | 87.0                                         | 80                  | 120       |      |          |      |
| Toluene                     | 1.0                             | 0.050 | 1.000     | 0           | 101                                          | 80                  | 120       |      |          |      |
| Ethylbenzene                | 0.98                            | 0.050 | 1.000     | 0           | 97.7                                         | 80                  | 120       |      |          |      |
| Xylenes, Total              | 2.8                             | 0.10  | 3.000     | 0           | 95.0                                         | 80                  | 120       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 1.1                             |       | 1.000     |             | 106                                          | 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 Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

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



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

## Sample Log-In Check List

Client Name: DEVON ENERGY

Work Order Number: 1907D74

RcptNo: 1

Received By: Desiree Dominguez 7/26/2019 8:45:00 AM

Completed By: Michelle Garcia 7/26/2019 11:05:28 AM

Reviewed By: Danny Ferraro 7/26/2019

*DP*  
*Michelle Garcia*

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:  
( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: DAD 7/26/19

### Special Handling (if applicable)

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

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

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp °C | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|---------|-----------|-------------|---------|-----------|-----------|
| 1         | 4.0     | Good      | Yes         |         |           |           |

Released to Imaging: 10/6/2025 11:36:10 AM

Received by OCD: 10/2/2025 10:47:10 AM



Released to Imaging: 10/6/2025 11:36:10 AM

☐ Standard      ☐ Rush

Project #: 19E-00575

Project Manager: Dennis Williams  
Permitian@Vertex.ca; Amanda Davis  
Amanda.Davis@OVN.com

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC      ☐ Other


□ EDD (Type)

Sampler: Jason Crabtree

On Ice: ☒ Yes ☐ No

# of Coolers:

Cooler Temp (including CF):  $3.9 + 0.1 = 4.0^{\circ}\text{C}$ [illegible]

Received by:  Via: \_\_\_\_\_ Date: 7/25/19 Time: 1330

|          |
|----------|
| Remarks: |
|----------|

Received By: DB Via: Courier Date: 7/26/19 Time: 8:45

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 by OCD: 10/2/2025 10:47:10 AM

Page 202 of 343



## Chain-of-Custody Record

Client: Devon Energy

Mailing Address: 6489 7 Rivers HWY

Artesia, NM 88210

Phone #: 505-350-1336

email or Fax#: Amanda.Davis@OVN.com

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC      ☐ Other☐ EDD (Type)

**Turn-Around Time:**

5 day

☐ Standard      ☒ Rush

Project Name:

Project Name: North Pine Gold 9 Feb 1

Project #:

19E-00575

Project Manager: Dennis Williams

Permtian@Vertex.ca; Amanda Davis

Amanda.Davis@DVN.com

Sampler: Jason Crabtree

On Ice: ☒ Yes ☐ No

# of Coolers:

Cooler Temp (including CF):  $3.9 + 0.1 = 4.0^{\circ}\text{C}$ Container  
Type and #Preservative  
Type

HEAL No. 907074

## HALL ENVIRONMENTAL ANALYSIS LABORATORY


[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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


## Analysis Request

[illegible]

|                  |                  |                                                                                                         |
|------------------|------------------|---------------------------------------------------------------------------------------------------------|
| Date:<br>7-25-19 | Time:<br>1:20 PM | Relinquished by:<br> |
|------------------|------------------|---------------------------------------------------------------------------------------------------------|

Received by: [Signature] Via: 7-11 Date 1/15/00 Time 1830

Remarks:

|          |       |                                                                                     |
|----------|-------|-------------------------------------------------------------------------------------|
| Date:    | Time: | Relinquished by:                                                                    |
| 12/25/19 | 1900  |  |

Received by 7/26/19 Via: 7/26/19 Date 7/26/19 Time 8:45



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

April 21, 2020

Amanda Davis

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: North Pure Gold 9 Federal 1 Pad

OrderNo.: 2004607

Dear Amanda Davis:

Hall Environmental Analysis Laboratory received 4 sample(s) on 4/14/2020 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2004607

Date Reported: 4/21/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-01 0.5'

Project: North Pure Gold 9 Federal 1 Pad

Collection Date: 4/9/2020 11:00:00 AM

Lab ID: 2004607-001

Matrix: SOIL

Received Date: 4/14/2020 8:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: CLP          |
| Diesel Range Organics (DRO)                      | 37     | 9.6      |      | mg/Kg | 1  | 4/19/2020 1:30:02 PM  |
| Motor Oil Range Organics (MRO)                   | 63     | 48       |      | mg/Kg | 1  | 4/19/2020 1:30:02 PM  |
| Surr: DNOP                                       | 98.6   | 55.1-146 |      | %Rec  | 1  | 4/19/2020 1:30:02 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: JMT          |
| Chloride                                         | 67     | 60       |      | mg/Kg | 20 | 4/17/2020 12:32:29 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: DJF          |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 4/17/2020 3:33:36 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 4/17/2020 3:33:36 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 4/17/2020 3:33:36 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 4/17/2020 3:33:36 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 90.4   | 70-130   |      | %Rec  | 1  | 4/17/2020 3:33:36 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.3   | 70-130   |      | %Rec  | 1  | 4/17/2020 3:33:36 PM  |
| Surr: Dibromofluoromethane                       | 97.4   | 70-130   |      | %Rec  | 1  | 4/17/2020 3:33:36 PM  |
| Surr: Toluene-d8                                 | 96.9   | 70-130   |      | %Rec  | 1  | 4/17/2020 3:33:36 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: DJF          |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 4/17/2020 3:33:36 PM  |
| Surr: BFB                                        | 99.9   | 70-130   |      | %Rec  | 1  | 4/17/2020 3:33:36 PM  |

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

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

## Analytical Report

Lab Order 2004607

Date Reported: 4/21/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-02 0.5'

Project: North Pure Gold 9 Federal 1 Pad

Collection Date: 4/9/2020 11:10:00 AM

Lab ID: 2004607-002

Matrix: SOIL

Received Date: 4/14/2020 8:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: CLP          |
| Diesel Range Organics (DRO)                      | 270    | 49       |      | mg/Kg | 5  | 4/19/2020 1:54:20 PM  |
| Motor Oil Range Organics (MRO)                   | 350    | 250      |      | mg/Kg | 5  | 4/19/2020 1:54:20 PM  |
| Surr: DNOP                                       | 101    | 55.1-146 |      | %Rec  | 5  | 4/19/2020 1:54:20 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: JMT          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 4/17/2020 12:44:50 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: DJF          |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 4/17/2020 5:02:38 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 4/17/2020 5:02:38 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 4/17/2020 5:02:38 PM  |
| Xylenes, Total                                   | ND     | 0.096    |      | mg/Kg | 1  | 4/17/2020 5:02:38 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 91.9   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:02:38 PM  |
| Surr: 4-Bromofluorobenzene                       | 94.5   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:02:38 PM  |
| Surr: Dibromofluoromethane                       | 96.0   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:02:38 PM  |
| Surr: Toluene-d8                                 | 93.8   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:02:38 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: DJF          |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 4/17/2020 5:02:38 PM  |
| Surr: BFB                                        | 101    | 70-130   |      | %Rec  | 1  | 4/17/2020 5:02:38 PM  |

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

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

## Analytical Report

Lab Order 2004607

Date Reported: 4/21/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-01 0-0.5'

Project: North Pure Gold 9 Federal 1 Pad

Collection Date: 4/9/2020 11:20:00 AM

Lab ID: 2004607-003

Matrix: SOIL

Received Date: 4/14/2020 8:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 53     | 9.1      |      | mg/Kg | 1  | 4/17/2020 8:23:35 AM  |
| Motor Oil Range Organics (MRO)                   | 120    | 46       |      | mg/Kg | 1  | 4/17/2020 8:23:35 AM  |
| Surr: DNOP                                       | 91.6   | 55.1-146 |      | %Rec  | 1  | 4/17/2020 8:23:35 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>JMT</b>   |
| Chloride                                         | 320    | 60       |      | mg/Kg | 20 | 4/17/2020 12:57:11 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 4/17/2020 5:32:05 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 4/17/2020 5:32:05 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 4/17/2020 5:32:05 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 4/17/2020 5:32:05 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 90.6   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:32:05 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.2   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:32:05 PM  |
| Surr: Dibromofluoromethane                       | 96.1   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:32:05 PM  |
| Surr: Toluene-d8                                 | 94.9   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:32:05 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 4/17/2020 5:32:05 PM  |
| Surr: BFB                                        | 99.0   | 70-130   |      | %Rec  | 1  | 4/17/2020 5:32:05 PM  |

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

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



## Analytical Report

Lab Order 2004607

Date Reported: 4/21/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-02 0-0.5'

Project: North Pure Gold 9 Federal 1 Pad

Collection Date: 4/9/2020 11:30:00 AM

Lab ID: 2004607-004

Matrix: SOIL

Received Date: 4/14/2020 8:20:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: CLP         |
| Diesel Range Organics (DRO)                      | 250    | 9.5      |      | mg/Kg | 1  | 4/19/2020 2:18:44 PM |
| Motor Oil Range Organics (MRO)                   | 230    | 47       |      | mg/Kg | 1  | 4/19/2020 2:18:44 PM |
| Surr: DNOP                                       | 101    | 55.1-146 |      | %Rec  | 1  | 4/19/2020 2:18:44 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: JMT         |
| Chloride                                         | 72     | 60       |      | mg/Kg | 20 | 4/17/2020 1:09:31 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: DJF         |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 4/17/2020 6:01:23 PM |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 4/17/2020 6:01:23 PM |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 4/17/2020 6:01:23 PM |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 4/17/2020 6:01:23 PM |
| Surr: 1,2-Dichloroethane-d4                      | 89.8   | 70-130   |      | %Rec  | 1  | 4/17/2020 6:01:23 PM |
| Surr: 4-Bromofluorobenzene                       | 96.2   | 70-130   |      | %Rec  | 1  | 4/17/2020 6:01:23 PM |
| Surr: Dibromofluoromethane                       | 94.8   | 70-130   |      | %Rec  | 1  | 4/17/2020 6:01:23 PM |
| Surr: Toluene-d8                                 | 93.8   | 70-130   |      | %Rec  | 1  | 4/17/2020 6:01:23 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: DJF         |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 4/17/2020 6:01:23 PM |
| Surr: BFB                                        | 99.5   | 70-130   |      | %Rec  | 1  | 4/17/2020 6:01:23 PM |

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

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

QC SUMMARY REPORT  
Hall Environmental Analysis Laboratory, Inc.

WO#: 2004607  
21-Apr-20

Client: Devon Energy  
Project: North Pure Gold 9 Federal 1 Pad

|                      |                          |                                                                      |
|----------------------|--------------------------|----------------------------------------------------------------------|
| Sample ID: MB-51876  | SampType: mblk           | TestCode: EPA Method 300.0: Anions                                   |
| Client ID: PBS       | Batch ID: 51876          | RunNo: 68197                                                         |
| Prep Date: 4/16/2020 | Analysis Date: 4/16/2020 | SeqNo: 2357951 Units: mg/Kg                                          |
| Analyte              | Result                   | PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | ND                       | 1.5                                                                  |

|                      |                          |                                                                      |
|----------------------|--------------------------|----------------------------------------------------------------------|
| Sample ID: LCS-51876 | SampType: lcs            | TestCode: EPA Method 300.0: Anions                                   |
| Client ID: LCSS      | Batch ID: 51876          | RunNo: 68197                                                         |
| Prep Date: 4/16/2020 | Analysis Date: 4/16/2020 | SeqNo: 2357952 Units: mg/Kg                                          |
| Analyte              | Result                   | PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual |
| Chloride             | 14                       | 1.5 15.00 0 93.6 90 110                                              |

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit

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

WO#: 2004607

21-Apr-20

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Federal 1 Pad

|                             |                                 |     |           |                                                            |      |                     |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-51816</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                     |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>51816</b>          |     |           | RunNo: <b>68169</b>                                        |      |                     |           |      |          |      |
| Prep Date: <b>4/15/2020</b> | Analysis Date: <b>4/17/2020</b> |     |           | SeqNo: <b>2358426</b>                                      |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 47                              | 10  | 50.00     | 0                                                          | 94.4 | 70                  | 130       |      |          |      |
| Surr: DNOP                  | 4.6                             |     | 5.000     |                                                            | 91.7 | 55.1                | 146       |      |          |      |

|                                |                                 |     |           |                                                            |      |                     |           |      |          |      |
|--------------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Sample ID: <b>MB-51816</b>     | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                     |           |      |          |      |
| Client ID: <b>PBS</b>          | Batch ID: <b>51816</b>          |     |           | RunNo: <b>68169</b>                                        |      |                     |           |      |          |      |
| Prep Date: <b>4/15/2020</b>    | Analysis Date: <b>4/17/2020</b> |     |           | SeqNo: <b>2358427</b>                                      |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                        | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)    | ND                              | 10  |           |                                                            |      |                     |           |      |          |      |
| Motor Oil Range Organics (MRO) | ND                              | 50  |           |                                                            |      |                     |           |      |          |      |
| Surr: DNOP                     | 6.0                             |     | 10.00     |                                                            | 60.2 | 55.1                | 146       |      |          |      |

|                             |                                 |     |           |                                                            |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID: <b>MB-51904</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>51904</b>          |     |           | RunNo: <b>68236</b>                                        |      |                    |           |      |          |      |
| Prep Date: <b>4/17/2020</b> | Analysis Date: <b>4/18/2020</b> |     |           | SeqNo: <b>2359844</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 12                              |     | 10.00     |                                                            | 116  | 55.1               | 146       |      |          |      |

|                             |                                 |     |           |                                                            |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-51904</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>51904</b>          |     |           | RunNo: <b>68236</b>                                        |      |                    |           |      |          |      |
| Prep Date: <b>4/17/2020</b> | Analysis Date: <b>4/18/2020</b> |     |           | SeqNo: <b>2359846</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.9                             |     | 5.000     |                                                            | 118  | 55.1               | 146       |      |          |      |

|                             |                                 |     |           |                                                            |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID: <b>LCS-51908</b> | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>51908</b>          |     |           | RunNo: <b>68236</b>                                        |      |                    |           |      |          |      |
| Prep Date: <b>4/17/2020</b> | Analysis Date: <b>4/19/2020</b> |     |           | SeqNo: <b>2360040</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.6                             |     | 5.000     |                                                            | 113  | 55.1               | 146       |      |          |      |

|                             |                                 |     |           |                                                            |      |                    |           |      |          |      |
|-----------------------------|---------------------------------|-----|-----------|------------------------------------------------------------|------|--------------------|-----------|------|----------|------|
| Sample ID: <b>MB-51908</b>  | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |      |                    |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>51908</b>          |     |           | RunNo: <b>68236</b>                                        |      |                    |           |      |          |      |
| Prep Date: <b>4/17/2020</b> | Analysis Date: <b>4/19/2020</b> |     |           | SeqNo: <b>2360063</b>                                      |      | Units: <b>%Rec</b> |           |      |          |      |
| Analyte                     | Result                          | PQL | SPK value | SPK Ref Val                                                | %REC | LowLimit           | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 11                              |     | 10.00     |                                                            | 114  | 55.1               | 146       |      |          |      |

**Qualifiers:**

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

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

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

WO#: 2004607

21-Apr-20

**Client:** Devon Energy**Project:** North Pure Gold 9 Federal 1 Pad

| Sample ID: <b>mb-51813</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>51813</b>          | RunNo: <b>68200</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>4/14/2020</b> | Analysis Date: <b>4/17/2020</b> | SeqNo: <b>2358013</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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 | 0.44                            |                                                         | 0.5000              |             | 87.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.48                            |                                                         | 0.5000              |             | 95.4 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.48                            |                                                         | 0.5000              |             | 96.7 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.48                            |                                                         | 0.5000              |             | 96.1 | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-51813</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>51813</b>          | RunNo: <b>68200</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>4/14/2020</b> | Analysis Date: <b>4/17/2020</b> | SeqNo: <b>2358014</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 0.94                            | 0.025                                                   | 1.000               | 0           | 94.3 | 80       | 120       |      |          |      |
| Toluene                     | 1.1                             | 0.050                                                   | 1.000               | 0           | 108  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.1                             | 0.050                                                   | 1.000               | 0           | 109  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.2                             | 0.10                                                    | 3.000               | 0           | 105  | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.43                            |                                                         | 0.5000              |             | 86.5 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.47                            |                                                         | 0.5000              |             | 94.3 | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.48                            |                                                         | 0.5000              |             | 96.7 | 70       | 130       |      |          |      |

| Sample ID: <b>2004607-001ams</b> | SampType: <b>MS4</b>            | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-01 0.5'</b>   | Batch ID: <b>51813</b>          | RunNo: <b>68222</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>4/14/2020</b>      | Analysis Date: <b>4/17/2020</b> | SeqNo: <b>2359347</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.88                            | 0.024                                                   | 0.9506              | 0           | 92.2 | 80       | 120       |      |          |      |
| Toluene                          | 0.97                            | 0.048                                                   | 0.9506              | 0           | 102  | 80       | 120       |      |          |      |
| Ethylbenzene                     | 0.99                            | 0.048                                                   | 0.9506              | 0           | 104  | 80       | 120       |      |          |      |
| Xylenes, Total                   | 2.8                             | 0.095                                                   | 2.852               | 0           | 97.8 | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.42                            |                                                         | 0.4753              |             | 89.1 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.44                            |                                                         | 0.4753              |             | 93.5 | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.46                            |                                                         | 0.4753              |             | 96.2 | 70       | 130       |      |          |      |

| Sample ID: <b>2004607-001amsd</b> | SampType: <b>MSD4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-01 0.5'</b>    | Batch ID: <b>51813</b>          | RunNo: <b>68222</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>4/14/2020</b>       | Analysis Date: <b>4/17/2020</b> | SeqNo: <b>2359348</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004607

21-Apr-20

Client: Devon Energy

Project: North Pure Gold 9 Federal 1 Pad

|                             |        |                          |           |                                                  |      |              |           |       |          |      |
|-----------------------------|--------|--------------------------|-----------|--------------------------------------------------|------|--------------|-----------|-------|----------|------|
| Sample ID: 2004607-001amsd  |        | SampType: MSD4           |           | TestCode: EPA Method 8260B: Volatiles Short List |      |              |           |       |          |      |
| Client ID: BS20-01 0.5'     |        | Batch ID: 51813          |           | RunNo: 68222                                     |      |              |           |       |          |      |
| Prep Date: 4/14/2020        |        | Analysis Date: 4/17/2020 |           | SeqNo: 2359348                                   |      | Units: mg/Kg |           |       |          |      |
| Analyte                     | Result | PQL                      | SPK value | SPK Ref Val                                      | %REC | LowLimit     | HighLimit | %RPD  | RPDLimit | Qual |
| Benzene                     | 0.91   | 0.023                    | 0.9337    | 0                                                | 97.7 | 80           | 120       | 4.01  | 20       |      |
| Toluene                     | 0.97   | 0.047                    | 0.9337    | 0                                                | 104  | 80           | 120       | 0.172 | 20       |      |
| Ethylbenzene                | 0.97   | 0.047                    | 0.9337    | 0                                                | 104  | 80           | 120       | 1.84  | 20       |      |
| Xylenes, Total              | 2.8    | 0.093                    | 2.801     | 0                                                | 99.8 | 80           | 120       | 0.298 | 20       |      |
| Surr: 1,2-Dichloroethane-d4 | 0.43   |                          | 0.4669    |                                                  | 91.5 | 70           | 130       | 0     | 0        |      |
| Surr: Dibromofluoromethane  | 0.44   |                          | 0         |                                                  | 0    | 0.5          | 70        | 0     | 130      |      |
| Surr: Toluene-d8            | 0.44   |                          | 0.4669    |                                                  | 94.0 | 70           | 130       | 0     | 0        |      |

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 8 of 9



QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2004607

21-Apr-20

Client: Devon Energy

Project: North Pure Gold 9 Federal 1 Pad

|                               |                          |                                                |              |             |      |          |           |      |          |      |
|-------------------------------|--------------------------|------------------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: mb-51813           | SampType: MBLK           | TestCode: EPA Method 8015D Mod: Gasoline Range |              |             |      |          |           |      |          |      |
| Client ID: PBS                | Batch ID: 51813          | RunNo: 68200                                   |              |             |      |          |           |      |          |      |
| Prep Date: 4/14/2020          | Analysis Date: 4/17/2020 | SeqNo: 2358041                                 | 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                     | 500                      |                                                | 500.0        |             | 100  | 70       | 130       |      |          |      |

|                               |                          |                                                |              |             |      |          |           |      |          |      |
|-------------------------------|--------------------------|------------------------------------------------|--------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: lcs-51813          | SampType: LCS            | TestCode: EPA Method 8015D Mod: Gasoline Range |              |             |      |          |           |      |          |      |
| Client ID: LCSS               | Batch ID: 51813          | RunNo: 68200                                   |              |             |      |          |           |      |          |      |
| Prep Date: 4/14/2020          | Analysis Date: 4/16/2020 | SeqNo: 2358042                                 | Units: mg/Kg |             |      |          |           |      |          |      |
| Analyte                       | Result                   | PQL                                            | SPK value    | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21                       | 5.0                                            | 25.00        | 0           | 82.5 | 70       | 130       |      |          |      |
| Surr: BFB                     | 490                      |                                                | 500.0        |             | 98.5 | 70       | 130       |      |          |      |

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 9 of 9



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

## Sample Log-In Check List

Client Name: DEVON ENERGY

Work Order Number: 2004607

RcptNo: 1

Received By: **Isaiah Ortiz** 4/14/2020 8:20:00 AMCompleted By: **John Caldwell** 4/14/2020 8:54:39 AMReviewed By: **JE 4/14/20***IO**John Caldwell*

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: **DAD 4/14/20**

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 4.3                     | Good      |             |         |           |           |

Released to Imaging: 10/6/2025 11:36:10 AM

Turn-Around Time: 5 Day

☒ Standard      ☐ Rush

Project Name: North Pure Gold 9 Federal 1 Pad

Project #: 19E-00575

Project Manager:  
Natalie Gordon

Phone #:

email or Fax#:

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ NELAC      ☐ Other☐ EDD (Type)

Sampler: MJP

On Ice: ☒ Yes ☐ No

# of Coolers: 1

Cooler Temp (including CF): 41.3.0 K / 41.3 °C (°C)

Container  
Type and #Preservative  
Type

HEAL No. 004607

| Date | Time | Matrix | Sample Name |
|------|------|--------|-------------|
|------|------|--------|-------------|

|     |       |      |                |
|-----|-------|------|----------------|
| 4/9 | 11:00 | 50:1 | BS20-01 0.5'   |
| ↓   | 11:10 | ↓    | BS20-02 0.5'   |
| ↓   | 11:20 | ↓    | WS20-01 0-0.5' |
| ↓   | 11:30 | ↓    | WS20-02 0-0.5' |

|     |     |      |
|-----|-----|------|
| 402 | ice | -001 |
|     |     | -002 |
|     |     | -003 |
|     |     | -004 |

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)


4901 Hawkins NE - Albuquerque, NM 87109

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

## Analysis Request

[illegible]

|         |       |
|---------|-------|
| Date:   | Time: |
| 4/13/20 | 1300  |

Relinquished by: 


Received by: Sh Via: \_\_\_\_\_

Date      Time  
4/13/20 1300

|          |                      |
|----------|----------------------|
| Remarks: | Direct bill<br>Devon |
|----------|----------------------|

CC: Natalie Gordon

|         |       |
|---------|-------|
| Date:   | Time: |
| 4/13/20 | 19:10 |

Relinquished by: 

|              |      |         |       |
|--------------|------|---------|-------|
| Received by: | Via: | Date    | Time  |
| T. Q.        | ccv  | 4/14/20 | 18:20 |

W/O #: 20713715





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

May 29, 2020

Natalie Gordon

Devon Energy

6488 Seven Rivers Highway

Artesia, NM 88210

TEL: (505) 350-1336

FAX

RE: North Pure Gold 9 Fed 1

OrderNo.: 2005854

Dear Natalie Gordon:

Hall Environmental Analysis Laboratory received 19 sample(s) on 5/20/2020 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](http://www.hallenvironmental.com) or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

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

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

Sincerely,

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

Andy Freeman

Laboratory Manager

4901 Hawkins NE

Albuquerque, NM 87109

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-08 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 12:20:00 PM

Lab ID: 2005854-001

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 850    | 190      |      | mg/Kg | 20 | 5/23/2020 8:01:52 AM  |
| Motor Oil Range Organics (MRO)                   | 1100   | 950      |      | mg/Kg | 20 | 5/23/2020 8:01:52 AM  |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 20 | 5/23/2020 8:01:52 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/23/2020 10:03:04 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/23/2020 5:19:15 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 5/23/2020 5:19:15 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 5/23/2020 5:19:15 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 5/23/2020 5:19:15 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 89.3   | 70-130   |      | %Rec  | 1  | 5/23/2020 5:19:15 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.4   | 70-130   |      | %Rec  | 1  | 5/23/2020 5:19:15 PM  |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 5/23/2020 5:19:15 PM  |
| Surr: Toluene-d8                                 | 99.6   | 70-130   |      | %Rec  | 1  | 5/23/2020 5:19:15 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 5/23/2020 5:19:15 PM  |
| Surr: BFB                                        | 91.7   | 70-130   |      | %Rec  | 1  | 5/23/2020 5:19:15 PM  |

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

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



## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-09 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 12:31:00 PM

Lab ID: 2005854-002

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 2300   | 460      |      | mg/Kg | 50 | 5/23/2020 8:25:57 AM  |
| Motor Oil Range Organics (MRO)                   | 3700   | 2300     |      | mg/Kg | 50 | 5/23/2020 8:25:57 AM  |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 50 | 5/23/2020 8:25:57 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/23/2020 10:15:28 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/23/2020 5:47:46 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/23/2020 5:47:46 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/23/2020 5:47:46 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 5/23/2020 5:47:46 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 89.6   | 70-130   |      | %Rec  | 1  | 5/23/2020 5:47:46 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.1   | 70-130   |      | %Rec  | 1  | 5/23/2020 5:47:46 PM  |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 5/23/2020 5:47:46 PM  |
| Surr: Toluene-d8                                 | 103    | 70-130   |      | %Rec  | 1  | 5/23/2020 5:47:46 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/23/2020 5:47:46 PM  |
| Surr: BFB                                        | 93.6   | 70-130   |      | %Rec  | 1  | 5/23/2020 5:47:46 PM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-10 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 12:51:00 PM

Lab ID: 2005854-003

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 5/23/2020 8:50:07 AM |
| Motor Oil Range Organics (MRO)                   | ND     | 50       |      | mg/Kg | 1  | 5/23/2020 8:50:07 AM |
| Surr: DNOP                                       | 96.4   | 55.1-146 |      | %Rec  | 1  | 5/23/2020 8:50:07 AM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | 4000   | 150      |      | mg/Kg | 50 | 5/27/2020 1:17:58 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/23/2020 6:16:17 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 5/23/2020 6:16:17 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 5/23/2020 6:16:17 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 5/23/2020 6:16:17 PM |
| Surr: 1,2-Dichloroethane-d4                      | 88.0   | 70-130   |      | %Rec  | 1  | 5/23/2020 6:16:17 PM |
| Surr: 4-Bromofluorobenzene                       | 91.4   | 70-130   |      | %Rec  | 1  | 5/23/2020 6:16:17 PM |
| Surr: Dibromofluoromethane                       | 104    | 70-130   |      | %Rec  | 1  | 5/23/2020 6:16:17 PM |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 5/23/2020 6:16:17 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 5/23/2020 6:16:17 PM |
| Surr: BFB                                        | 92.5   | 70-130   |      | %Rec  | 1  | 5/23/2020 6:16:17 PM |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-11 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 1:06:00 PM

Lab ID: 2005854-004

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 350    | 93       |      | mg/Kg | 10 | 5/23/2020 9:14:14 AM  |
| Motor Oil Range Organics (MRO)                   | 600    | 460      |      | mg/Kg | 10 | 5/23/2020 9:14:14 AM  |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 10 | 5/23/2020 9:14:14 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/23/2020 11:05:06 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/23/2020 6:44:45 PM  |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 5/23/2020 6:44:45 PM  |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 5/23/2020 6:44:45 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 5/23/2020 6:44:45 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 93.0   | 70-130   |      | %Rec  | 1  | 5/23/2020 6:44:45 PM  |
| Surr: 4-Bromofluorobenzene                       | 92.0   | 70-130   |      | %Rec  | 1  | 5/23/2020 6:44:45 PM  |
| Surr: Dibromofluoromethane                       | 107    | 70-130   |      | %Rec  | 1  | 5/23/2020 6:44:45 PM  |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 5/23/2020 6:44:45 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 5/23/2020 6:44:45 PM  |
| Surr: BFB                                        | 92.3   | 70-130   |      | %Rec  | 1  | 5/23/2020 6:44:45 PM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-12 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 1:23:00 PM

Lab ID: 2005854-005

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 5/23/2020 9:38:28 AM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 5/23/2020 9:38:28 AM  |
| Surr: DNOP                                       | 121    | 55.1-146 |      | %Rec  | 1  | 5/23/2020 9:38:28 AM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/23/2020 11:17:31 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 5/23/2020 7:13:12 PM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 5/23/2020 7:13:12 PM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 5/23/2020 7:13:12 PM  |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 5/23/2020 7:13:12 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 89.2   | 70-130   |      | %Rec  | 1  | 5/23/2020 7:13:12 PM  |
| Surr: 4-Bromofluorobenzene                       | 91.1   | 70-130   |      | %Rec  | 1  | 5/23/2020 7:13:12 PM  |
| Surr: Dibromofluoromethane                       | 101    | 70-130   |      | %Rec  | 1  | 5/23/2020 7:13:12 PM  |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 5/23/2020 7:13:12 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 5/23/2020 7:13:12 PM  |
| Surr: BFB                                        | 92.5   | 70-130   |      | %Rec  | 1  | 5/23/2020 7:13:12 PM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-13 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 1:51:00 PM

Lab ID: 2005854-006

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: CLP          |
| Diesel Range Organics (DRO)                      | 21     | 9.7      |      | mg/Kg | 1  | 5/26/2020 8:04:33 PM  |
| Motor Oil Range Organics (MRO)                   | 89     | 48       |      | mg/Kg | 1  | 5/26/2020 8:04:33 PM  |
| Surr: DNOP                                       | 118    | 55.1-146 |      | %Rec  | 1  | 5/26/2020 8:04:33 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/23/2020 11:29:51 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: DJF          |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 5/23/2020 7:41:41 PM  |
| Toluene                                          | ND     | 0.046    |      | mg/Kg | 1  | 5/23/2020 7:41:41 PM  |
| Ethylbenzene                                     | ND     | 0.046    |      | mg/Kg | 1  | 5/23/2020 7:41:41 PM  |
| Xylenes, Total                                   | ND     | 0.092    |      | mg/Kg | 1  | 5/23/2020 7:41:41 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 91.8   | 70-130   |      | %Rec  | 1  | 5/23/2020 7:41:41 PM  |
| Surr: 4-Bromofluorobenzene                       | 91.4   | 70-130   |      | %Rec  | 1  | 5/23/2020 7:41:41 PM  |
| Surr: Dibromofluoromethane                       | 105    | 70-130   |      | %Rec  | 1  | 5/23/2020 7:41:41 PM  |
| Surr: Toluene-d8                                 | 105    | 70-130   |      | %Rec  | 1  | 5/23/2020 7:41:41 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: DJF          |
| Gasoline Range Organics (GRO)                    | ND     | 4.6      |      | mg/Kg | 1  | 5/23/2020 7:41:41 PM  |
| Surr: BFB                                        | 94.7   | 70-130   |      | %Rec  | 1  | 5/23/2020 7:41:41 PM  |

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

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



## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-14 12-24"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:00:00 PM

Lab ID: 2005854-007

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 1000   | 95       |      | mg/Kg | 10 | 5/22/2020 4:41:04 PM  |
| Motor Oil Range Organics (MRO)                   | 1500   | 470      |      | mg/Kg | 10 | 5/22/2020 4:41:04 PM  |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 10 | 5/22/2020 4:41:04 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/23/2020 11:42:16 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/23/2020 8:10:08 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/23/2020 8:10:08 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/23/2020 8:10:08 PM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 5/23/2020 8:10:08 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 90.6   | 70-130   |      | %Rec  | 1  | 5/23/2020 8:10:08 PM  |
| Surr: 4-Bromofluorobenzene                       | 90.8   | 70-130   |      | %Rec  | 1  | 5/23/2020 8:10:08 PM  |
| Surr: Dibromofluoromethane                       | 102    | 70-130   |      | %Rec  | 1  | 5/23/2020 8:10:08 PM  |
| Surr: Toluene-d8                                 | 103    | 70-130   |      | %Rec  | 1  | 5/23/2020 8:10:08 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/23/2020 8:10:08 PM  |
| Surr: BFB                                        | 93.9   | 70-130   |      | %Rec  | 1  | 5/23/2020 8:10:08 PM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-15 0-12"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:06:00 PM

Lab ID: 2005854-008

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: CLP          |
| Diesel Range Organics (DRO)                      | ND     | 9.4      |      | mg/Kg | 1  | 5/26/2020 9:17:22 PM  |
| Motor Oil Range Organics (MRO)                   | 58     | 47       |      | mg/Kg | 1  | 5/26/2020 9:17:22 PM  |
| Surr: DNOP                                       | 107    | 55.1-146 |      | %Rec  | 1  | 5/26/2020 9:17:22 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/23/2020 11:54:40 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: DJF          |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/23/2020 8:38:35 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 5/23/2020 8:38:35 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 5/23/2020 8:38:35 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 5/23/2020 8:38:35 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 87.2   | 70-130   |      | %Rec  | 1  | 5/23/2020 8:38:35 PM  |
| Surr: 4-Bromofluorobenzene                       | 93.8   | 70-130   |      | %Rec  | 1  | 5/23/2020 8:38:35 PM  |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 5/23/2020 8:38:35 PM  |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 5/23/2020 8:38:35 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: DJF          |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 5/23/2020 8:38:35 PM  |
| Surr: BFB                                        | 91.7   | 70-130   |      | %Rec  | 1  | 5/23/2020 8:38:35 PM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-16 0-12"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:20:00 PM

Lab ID: 2005854-009

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: CLP          |
| Diesel Range Organics (DRO)                      | 34     | 9.6      |      | mg/Kg | 1  | 5/26/2020 9:41:42 PM  |
| Motor Oil Range Organics (MRO)                   | 120    | 48       |      | mg/Kg | 1  | 5/26/2020 9:41:42 PM  |
| Surr: DNOP                                       | 87.2   | 55.1-146 |      | %Rec  | 1  | 5/26/2020 9:41:42 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA          |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/24/2020 12:07:05 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: DJF          |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 5/23/2020 9:06:59 PM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/23/2020 9:06:59 PM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/23/2020 9:06:59 PM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 5/23/2020 9:06:59 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 88.6   | 70-130   |      | %Rec  | 1  | 5/23/2020 9:06:59 PM  |
| Surr: 4-Bromofluorobenzene                       | 89.9   | 70-130   |      | %Rec  | 1  | 5/23/2020 9:06:59 PM  |
| Surr: Dibromofluoromethane                       | 102    | 70-130   |      | %Rec  | 1  | 5/23/2020 9:06:59 PM  |
| Surr: Toluene-d8                                 | 103    | 70-130   |      | %Rec  | 1  | 5/23/2020 9:06:59 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: DJF          |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/23/2020 9:06:59 PM  |
| Surr: BFB                                        | 91.0   | 70-130   |      | %Rec  | 1  | 5/23/2020 9:06:59 PM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-17 0-12"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:32:00 PM

Lab ID: 2005854-010

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 580    | 99       |      | mg/Kg | 10 | 5/22/2020 5:53:26 PM  |
| Motor Oil Range Organics (MRO)                   | 590    | 490      |      | mg/Kg | 10 | 5/22/2020 5:53:26 PM  |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 10 | 5/22/2020 5:53:26 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | 120    | 60       |      | mg/Kg | 20 | 5/24/2020 12:19:29 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/23/2020 9:35:31 PM  |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 5/23/2020 9:35:31 PM  |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 5/23/2020 9:35:31 PM  |
| Xylenes, Total                                   | ND     | 0.095    |      | mg/Kg | 1  | 5/23/2020 9:35:31 PM  |
| Surr: 1,2-Dichloroethane-d4                      | 90.5   | 70-130   |      | %Rec  | 1  | 5/23/2020 9:35:31 PM  |
| Surr: 4-Bromofluorobenzene                       | 90.5   | 70-130   |      | %Rec  | 1  | 5/23/2020 9:35:31 PM  |
| Surr: Dibromofluoromethane                       | 105    | 70-130   |      | %Rec  | 1  | 5/23/2020 9:35:31 PM  |
| Surr: Toluene-d8                                 | 103    | 70-130   |      | %Rec  | 1  | 5/23/2020 9:35:31 PM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 5/23/2020 9:35:31 PM  |
| Surr: BFB                                        | 92.5   | 70-130   |      | %Rec  | 1  | 5/23/2020 9:35:31 PM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: BS20-18 0-12"

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:34:00 PM

Lab ID: 2005854-011

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.9      |      | mg/Kg | 1  | 5/22/2020 6:17:50 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 5/22/2020 6:17:50 PM  |
| Surr: DNOP                                       | 116    | 55.1-146 |      | %Rec  | 1  | 5/22/2020 6:17:50 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/24/2020 12:31:53 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 5/23/2020 10:04:09 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/23/2020 10:04:09 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/23/2020 10:04:09 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 5/23/2020 10:04:09 PM |
| Surr: 1,2-Dichloroethane-d4                      | 89.9   | 70-130   |      | %Rec  | 1  | 5/23/2020 10:04:09 PM |
| Surr: 4-Bromofluorobenzene                       | 91.3   | 70-130   |      | %Rec  | 1  | 5/23/2020 10:04:09 PM |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 5/23/2020 10:04:09 PM |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 5/23/2020 10:04:09 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/23/2020 10:04:09 PM |
| Surr: BFB                                        | 90.5   | 70-130   |      | %Rec  | 1  | 5/23/2020 10:04:09 PM |

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

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



## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-08

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:46:00 PM

Lab ID: 2005854-012

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 5/22/2020 6:42:14 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 5/22/2020 6:42:14 PM  |
| Surr: DNOP                                       | 91.8   | 55.1-146 |      | %Rec  | 1  | 5/22/2020 6:42:14 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/24/2020 12:44:18 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 5/24/2020 1:23:48 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/24/2020 1:23:48 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/24/2020 1:23:48 AM  |
| Xylenes, Total                                   | ND     | 0.098    |      | mg/Kg | 1  | 5/24/2020 1:23:48 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 87.5   | 70-130   |      | %Rec  | 1  | 5/24/2020 1:23:48 AM  |
| Surr: 4-Bromofluorobenzene                       | 91.6   | 70-130   |      | %Rec  | 1  | 5/24/2020 1:23:48 AM  |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 5/24/2020 1:23:48 AM  |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 5/24/2020 1:23:48 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/24/2020 1:23:48 AM  |
| Surr: BFB                                        | 90.8   | 70-130   |      | %Rec  | 1  | 5/24/2020 1:23:48 AM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-09

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:51:00 PM

Lab ID: 2005854-013

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.5      |      | mg/Kg | 1  | 5/22/2020 7:06:39 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 5/22/2020 7:06:39 PM  |
| Surr: DNOP                                       | 61.1   | 55.1-146 |      | %Rec  | 1  | 5/22/2020 7:06:39 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 59       |      | mg/Kg | 20 | 5/24/2020 12:56:42 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/24/2020 2:49:22 AM  |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/24/2020 2:49:22 AM  |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/24/2020 2:49:22 AM  |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 5/24/2020 2:49:22 AM  |
| Surr: 1,2-Dichloroethane-d4                      | 90.9   | 70-130   |      | %Rec  | 1  | 5/24/2020 2:49:22 AM  |
| Surr: 4-Bromofluorobenzene                       | 90.2   | 70-130   |      | %Rec  | 1  | 5/24/2020 2:49:22 AM  |
| Surr: Dibromofluoromethane                       | 104    | 70-130   |      | %Rec  | 1  | 5/24/2020 2:49:22 AM  |
| Surr: Toluene-d8                                 | 101    | 70-130   |      | %Rec  | 1  | 5/24/2020 2:49:22 AM  |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/24/2020 2:49:22 AM  |
| Surr: BFB                                        | 90.3   | 70-130   |      | %Rec  | 1  | 5/24/2020 2:49:22 AM  |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-10

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:53:00 PM

Lab ID: 2005854-014

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.6      |      | mg/Kg | 1  | 5/22/2020 7:30:55 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 48       |      | mg/Kg | 1  | 5/22/2020 7:30:55 PM |
| Surr: DNOP                                       | 73.4   | 55.1-146 |      | %Rec  | 1  | 5/22/2020 7:30:55 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | 120    | 60       |      | mg/Kg | 20 | 5/24/2020 1:33:54 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 5/24/2020 3:17:46 AM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 5/24/2020 3:17:46 AM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 5/24/2020 3:17:46 AM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 5/24/2020 3:17:46 AM |
| Surr: 1,2-Dichloroethane-d4                      | 87.0   | 70-130   |      | %Rec  | 1  | 5/24/2020 3:17:46 AM |
| Surr: 4-Bromofluorobenzene                       | 89.9   | 70-130   |      | %Rec  | 1  | 5/24/2020 3:17:46 AM |
| Surr: Dibromofluoromethane                       | 103    | 70-130   |      | %Rec  | 1  | 5/24/2020 3:17:46 AM |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 5/24/2020 3:17:46 AM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 5/24/2020 3:17:46 AM |
| Surr: BFB                                        | 91.2   | 70-130   |      | %Rec  | 1  | 5/24/2020 3:17:46 AM |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-11

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 2:56:00 PM

Lab ID: 2005854-015

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: CLP         |
| Diesel Range Organics (DRO)                      | 530    | 93       |      | mg/Kg | 10 | 5/27/2020 3:19:29 PM |
| Motor Oil Range Organics (MRO)                   | 1100   | 460      |      | mg/Kg | 10 | 5/27/2020 3:19:29 PM |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 10 | 5/27/2020 3:19:29 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: MRA         |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/24/2020 1:46:19 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: DJF         |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 5/24/2020 9:12:12 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/24/2020 9:12:12 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/24/2020 9:12:12 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 5/24/2020 9:12:12 PM |
| Surr: 1,2-Dichloroethane-d4                      | 90.9   | 70-130   |      | %Rec  | 1  | 5/24/2020 9:12:12 PM |
| Surr: 4-Bromofluorobenzene                       | 94.2   | 70-130   |      | %Rec  | 1  | 5/24/2020 9:12:12 PM |
| Surr: Dibromofluoromethane                       | 92.2   | 70-130   |      | %Rec  | 1  | 5/24/2020 9:12:12 PM |
| Surr: Toluene-d8                                 | 96.0   | 70-130   |      | %Rec  | 1  | 5/24/2020 9:12:12 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: DJF         |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/24/2020 9:12:12 PM |
| Surr: BFB                                        | 102    | 70-130   |      | %Rec  | 1  | 5/24/2020 9:12:12 PM |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-12

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 3:00:00 PM

Lab ID: 2005854-016

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed        |
|--------------------------------------------------|--------|----------|------|-------|----|----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>  |
| Diesel Range Organics (DRO)                      | ND     | 9.0      |      | mg/Kg | 1  | 5/22/2020 8:19:59 PM |
| Motor Oil Range Organics (MRO)                   | ND     | 45       |      | mg/Kg | 1  | 5/22/2020 8:19:59 PM |
| Surr: DNOP                                       | 93.3   | 55.1-146 |      | %Rec  | 1  | 5/22/2020 8:19:59 PM |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>  |
| Chloride                                         | 120    | 60       |      | mg/Kg | 20 | 5/24/2020 1:58:44 AM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Benzene                                          | ND     | 0.024    |      | mg/Kg | 1  | 5/24/2020 9:41:38 PM |
| Toluene                                          | ND     | 0.048    |      | mg/Kg | 1  | 5/24/2020 9:41:38 PM |
| Ethylbenzene                                     | ND     | 0.048    |      | mg/Kg | 1  | 5/24/2020 9:41:38 PM |
| Xylenes, Total                                   | ND     | 0.097    |      | mg/Kg | 1  | 5/24/2020 9:41:38 PM |
| Surr: 1,2-Dichloroethane-d4                      | 89.9   | 70-130   |      | %Rec  | 1  | 5/24/2020 9:41:38 PM |
| Surr: 4-Bromofluorobenzene                       | 96.7   | 70-130   |      | %Rec  | 1  | 5/24/2020 9:41:38 PM |
| Surr: Dibromofluoromethane                       | 93.2   | 70-130   |      | %Rec  | 1  | 5/24/2020 9:41:38 PM |
| Surr: Toluene-d8                                 | 100    | 70-130   |      | %Rec  | 1  | 5/24/2020 9:41:38 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>  |
| Gasoline Range Organics (GRO)                    | ND     | 4.8      |      | mg/Kg | 1  | 5/24/2020 9:41:38 PM |
| Surr: BFB                                        | 104    | 70-130   |      | %Rec  | 1  | 5/24/2020 9:41:38 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 Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

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

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## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-13

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 3:02:00 PM

Lab ID: 2005854-017

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | ND     | 9.8      |      | mg/Kg | 1  | 5/22/2020 8:44:22 PM  |
| Motor Oil Range Organics (MRO)                   | ND     | 49       |      | mg/Kg | 1  | 5/22/2020 8:44:22 PM  |
| Surr: DNOP                                       | 106    | 55.1-146 |      | %Rec  | 1  | 5/22/2020 8:44:22 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>MRA</b>   |
| Chloride                                         | ND     | 59       |      | mg/Kg | 20 | 5/24/2020 2:11:09 AM  |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.023    |      | mg/Kg | 1  | 5/24/2020 10:10:45 PM |
| Toluene                                          | ND     | 0.047    |      | mg/Kg | 1  | 5/24/2020 10:10:45 PM |
| Ethylbenzene                                     | ND     | 0.047    |      | mg/Kg | 1  | 5/24/2020 10:10:45 PM |
| Xylenes, Total                                   | ND     | 0.093    |      | mg/Kg | 1  | 5/24/2020 10:10:45 PM |
| Surr: 1,2-Dichloroethane-d4                      | 91.3   | 70-130   |      | %Rec  | 1  | 5/24/2020 10:10:45 PM |
| Surr: 4-Bromofluorobenzene                       | 98.4   | 70-130   |      | %Rec  | 1  | 5/24/2020 10:10:45 PM |
| Surr: Dibromofluoromethane                       | 91.9   | 70-130   |      | %Rec  | 1  | 5/24/2020 10:10:45 PM |
| Surr: Toluene-d8                                 | 103    | 70-130   |      | %Rec  | 1  | 5/24/2020 10:10:45 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.7      |      | mg/Kg | 1  | 5/24/2020 10:10:45 PM |
| Surr: BFB                                        | 107    | 70-130   |      | %Rec  | 1  | 5/24/2020 10:10:45 PM |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-14

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 3:08:00 PM

Lab ID: 2005854-018

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>BRM</b>   |
| Diesel Range Organics (DRO)                      | 880    | 96       |      | mg/Kg | 10 | 5/22/2020 9:08:39 PM  |
| Motor Oil Range Organics (MRO)                   | 860    | 480      |      | mg/Kg | 10 | 5/22/2020 9:08:39 PM  |
| Surr: DNOP                                       | 0      | 55.1-146 | S    | %Rec  | 10 | 5/22/2020 9:08:39 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | 200    | 59       |      | mg/Kg | 20 | 5/26/2020 10:27:24 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 5/24/2020 10:40:20 PM |
| Toluene                                          | ND     | 0.049    |      | mg/Kg | 1  | 5/24/2020 10:40:20 PM |
| Ethylbenzene                                     | ND     | 0.049    |      | mg/Kg | 1  | 5/24/2020 10:40:20 PM |
| Xylenes, Total                                   | ND     | 0.099    |      | mg/Kg | 1  | 5/24/2020 10:40:20 PM |
| Surr: 1,2-Dichloroethane-d4                      | 91.7   | 70-130   |      | %Rec  | 1  | 5/24/2020 10:40:20 PM |
| Surr: 4-Bromofluorobenzene                       | 99.9   | 70-130   |      | %Rec  | 1  | 5/24/2020 10:40:20 PM |
| Surr: Dibromofluoromethane                       | 91.8   | 70-130   |      | %Rec  | 1  | 5/24/2020 10:40:20 PM |
| Surr: Toluene-d8                                 | 102    | 70-130   |      | %Rec  | 1  | 5/24/2020 10:40:20 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 4.9      |      | mg/Kg | 1  | 5/24/2020 10:40:20 PM |
| Surr: BFB                                        | 107    | 70-130   |      | %Rec  | 1  | 5/24/2020 10:40:20 PM |

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

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

## Analytical Report

Lab Order 2005854

Date Reported: 5/29/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy

Client Sample ID: WS20-15

Project: North Pure Gold 9 Fed 1

Collection Date: 5/18/2020 3:12:00 PM

Lab ID: 2005854-019

Matrix: SOIL

Received Date: 5/20/2020 9:50:00 AM

| Analyses                                         | Result | RL       | Qual | Units | DF | Date Analyzed         |
|--------------------------------------------------|--------|----------|------|-------|----|-----------------------|
| <b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b> |        |          |      |       |    | Analyst: <b>TOM</b>   |
| Diesel Range Organics (DRO)                      | 17     | 9.5      |      | mg/Kg | 1  | 5/27/2020 2:58:23 PM  |
| Motor Oil Range Organics (MRO)                   | 77     | 48       |      | mg/Kg | 1  | 5/27/2020 2:58:23 PM  |
| Surr: DNOP                                       | 116    | 55.1-146 |      | %Rec  | 1  | 5/27/2020 2:58:23 PM  |
| <b>EPA METHOD 300.0: ANIONS</b>                  |        |          |      |       |    | Analyst: <b>CAS</b>   |
| Chloride                                         | ND     | 60       |      | mg/Kg | 20 | 5/26/2020 11:04:27 PM |
| <b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>    |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Benzene                                          | ND     | 0.025    |      | mg/Kg | 1  | 5/24/2020 11:09:42 PM |
| Toluene                                          | ND     | 0.050    |      | mg/Kg | 1  | 5/24/2020 11:09:42 PM |
| Ethylbenzene                                     | ND     | 0.050    |      | mg/Kg | 1  | 5/24/2020 11:09:42 PM |
| Xylenes, Total                                   | ND     | 0.10     |      | mg/Kg | 1  | 5/24/2020 11:09:42 PM |
| Surr: 1,2-Dichloroethane-d4                      | 94.8   | 70-130   |      | %Rec  | 1  | 5/24/2020 11:09:42 PM |
| Surr: 4-Bromofluorobenzene                       | 97.9   | 70-130   |      | %Rec  | 1  | 5/24/2020 11:09:42 PM |
| Surr: Dibromofluoromethane                       | 98.6   | 70-130   |      | %Rec  | 1  | 5/24/2020 11:09:42 PM |
| Surr: Toluene-d8                                 | 96.9   | 70-130   |      | %Rec  | 1  | 5/24/2020 11:09:42 PM |
| <b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>      |        |          |      |       |    | Analyst: <b>DJF</b>   |
| Gasoline Range Organics (GRO)                    | ND     | 5.0      |      | mg/Kg | 1  | 5/24/2020 11:09:42 PM |
| Surr: BFB                                        | 99.6   | 70-130   |      | %Rec  | 1  | 5/24/2020 11:09:42 PM |

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

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

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

WO#: 2005854

29-May-20

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>MB-52667</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>52667</b>          | RunNo: <b>69127</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2020</b> | Analysis Date: <b>5/23/2020</b> | SeqNo: <b>2395515</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-52667</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>52667</b>          | RunNo: <b>69127</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2020</b> | Analysis Date: <b>5/23/2020</b> | SeqNo: <b>2395516</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 93.9 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-52670</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>52670</b>          | RunNo: <b>69129</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2020</b> | Analysis Date: <b>5/23/2020</b> | SeqNo: <b>2395565</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-52670</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>52670</b>          | RunNo: <b>69129</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/23/2020</b> | Analysis Date: <b>5/23/2020</b> | SeqNo: <b>2395566</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 92.4 | 90       | 110       |      |          |      |

| Sample ID: <b>MB-52701</b>  | SampType: <b>mblk</b>           | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>52701</b>          | RunNo: <b>69163</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/26/2020</b> | Analysis Date: <b>5/26/2020</b> | SeqNo: <b>2396888</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | ND                              | 1.5                                       |           |             |      |          |           |      |          |      |

| Sample ID: <b>LCS-52701</b> | SampType: <b>lcs</b>            | TestCode: <b>EPA Method 300.0: Anions</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|-------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>52701</b>          | RunNo: <b>69163</b>                       |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/26/2020</b> | Analysis Date: <b>5/26/2020</b> | SeqNo: <b>2396889</b> Units: <b>mg/Kg</b> |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                       | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride                    | 14                              | 1.5                                       | 15.00     | 0           | 92.1 | 90       | 110       |      |          |      |

**Qualifiers:**

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

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

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

WO#: 2005854

29-May-20

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>MB-52630</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>52630</b>          | RunNo: <b>69011</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b>    | Analysis Date: <b>5/22/2020</b> | SeqNo: <b>2395783</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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     |             | 128  | 55.1     | 146       |      |          |      |

| Sample ID: <b>MB-52635</b>     | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|--------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>          | Batch ID: <b>52635</b>          | RunNo: <b>69011</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b>    | Analysis Date: <b>5/22/2020</b> | SeqNo: <b>2395784</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| 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     |             | 115  | 55.1     | 146       |      |          |      |

| Sample ID: <b>LCS-52630</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>52630</b>          | RunNo: <b>69011</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b> | Analysis Date: <b>5/23/2020</b> | SeqNo: <b>2395786</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52                              | 10                                                         | 50.00     | 0           | 104  | 70       | 130       |      |          |      |
| Surr: DNOP                  | 5.1                             |                                                            | 5.000     |             | 103  | 55.1     | 146       |      |          |      |

| Sample ID: <b>LCS-52635</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>      | Batch ID: <b>52635</b>          | RunNo: <b>69011</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b> | Analysis Date: <b>5/22/2020</b> | SeqNo: <b>2395787</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO) | 52                              | 10                                                         | 50.00     | 0           | 104  | 70       | 130       |      |          |      |
| Surr: DNOP                  | 4.9                             |                                                            | 5.000     |             | 97.7 | 55.1     | 146       |      |          |      |

| Sample ID: <b>2005854-006AMS</b> | SampType: <b>MS</b>             | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |           |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|------------------------------------------------------------|-----------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-13 12-24"</b> | Batch ID: <b>52635</b>          | RunNo: <b>69134</b>                                        |           |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b>      | Analysis Date: <b>5/26/2020</b> | SeqNo: <b>2397074</b> Units: <b>mg/Kg</b>                  |           |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                        | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)      | 50                              | 8.9                                                        | 44.52     | 38.75       | 25.4 | 47.4     | 136       |      |          | S    |
| Surr: DNOP                       | 3.7                             |                                                            | 4.452     |             | 83.4 | 55.1     | 146       |      |          |      |

**Qualifiers:**

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

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



# QC SUMMARY REPORT

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2005854

29-May-20

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Fed 1

|                                   |                                 |                                                            |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|------------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: <b>2005854-006AMSD</b> | SampType: <b>MSD</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                     |             |      |          |           |      |          |      |
| Client ID: <b>BS20-13 12-24"</b>  | Batch ID: <b>52635</b>          | RunNo: <b>69134</b>                                        |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b>       | Analysis Date: <b>5/26/2020</b> | SeqNo: <b>2397075</b>                                      | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                        | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Diesel Range Organics (DRO)       | 49                              | 10                                                         | 49.95               | 38.75       | 19.9 | 47.4     | 136       | 2.82 | 43.4     | S    |
| Surr: DNOP                        | 4.2                             |                                                            | 4.995               |             | 83.4 | 55.1     | 146       | 0    | 0        |      |

|                             |                                 |                                                            |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: <b>MB-52681</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
| Client ID: <b>PBS</b>       | Batch ID: <b>52681</b>          | RunNo: <b>69134</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>5/26/2020</b> | Analysis Date: <b>5/27/2020</b> | SeqNo: <b>2397783</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 10                              |                                                            | 10.00              |             | 102  | 55.1     | 146       |      |          |      |

|                             |                                 |                                                            |                    |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|------------------------------------------------------------|--------------------|-------------|------|----------|-----------|------|----------|------|
| Sample ID: <b>LCS-52681</b> | SampType: <b>LCS</b>            | TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b> |                    |             |      |          |           |      |          |      |
| Client ID: <b>LCSS</b>      | Batch ID: <b>52681</b>          | RunNo: <b>69134</b>                                        |                    |             |      |          |           |      |          |      |
| Prep Date: <b>5/26/2020</b> | Analysis Date: <b>5/27/2020</b> | SeqNo: <b>2397784</b>                                      | Units: <b>%Rec</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                        | SPK value          | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: DNOP                  | 5.1                             |                                                            | 5.000              |             | 102  | 55.1     | 146       |      |          |      |

### Qualifiers:

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

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

WO#: 2005854

29-May-20

**Client:** Devon Energy**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>mb-52622</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>52622</b>          | RunNo: <b>69107</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b> | Analysis Date: <b>5/22/2020</b> | SeqNo: <b>2393966</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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 | 0.42                            |                                                         | 0.5000              |             | 84.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.47                            |                                                         | 0.5000              |             | 93.7 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.51                            |                                                         | 0.5000              |             | 103  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.47                            |                                                         | 0.5000              |             | 94.2 | 70       | 130       |      |          |      |

| Sample ID: <b>lcs-52622</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>52622</b>          | RunNo: <b>69107</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b> | Analysis Date: <b>5/22/2020</b> | SeqNo: <b>2393967</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 1.1                             | 0.025                                                   | 1.000               | 0           | 106  | 80       | 120       |      |          |      |
| Toluene                     | 0.95                            | 0.050                                                   | 1.000               | 0           | 95.4 | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.0                             | 0.050                                                   | 1.000               | 0           | 104  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.0                             | 0.10                                                    | 3.000               | 0           | 99.5 | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.41                            |                                                         | 0.5000              |             | 83.0 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.46                            |                                                         | 0.5000              |             | 91.5 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.51                            |                                                         | 0.5000              |             | 103  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.47                            |                                                         | 0.5000              |             | 94.4 | 70       | 130       |      |          |      |

| Sample ID: <b>mb-52634</b>  | SampType: <b>MBLK</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>PBS</b>       | Batch ID: <b>52634</b>          | RunNo: <b>69117</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b> | Analysis Date: <b>5/23/2020</b> | SeqNo: <b>2394351</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| 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 | 0.45                            |                                                         | 0.5000              |             | 89.6 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.46                            |                                                         | 0.5000              |             | 92.5 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.52                            |                                                         | 0.5000              |             | 104  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.50                            |                                                         | 0.5000              |             | 100  | 70       | 130       |      |          |      |

**Qualifiers:**

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

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

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

WO#: 2005854

29-May-20

**Client:** Devon Energy**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>Ics-52634</b> | SampType: <b>LCS4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BatchQC</b>   | Batch ID: <b>52634</b>          | RunNo: <b>69117</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b> | Analysis Date: <b>5/23/2020</b> | SeqNo: <b>2394352</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                     | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                     | 1.0                             | 0.025                                                   | 1.000               | 0           | 99.6 | 80       | 120       |      |          |      |
| Toluene                     | 1.0                             | 0.050                                                   | 1.000               | 0           | 100  | 80       | 120       |      |          |      |
| Ethylbenzene                | 1.1                             | 0.050                                                   | 1.000               | 0           | 110  | 80       | 120       |      |          |      |
| Xylenes, Total              | 3.2                             | 0.10                                                    | 3.000               | 0           | 106  | 80       | 120       |      |          |      |
| Surr: 1,2-Dichloroethane-d4 | 0.46                            |                                                         | 0.5000              |             | 91.2 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene  | 0.45                            |                                                         | 0.5000              |             | 89.6 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane  | 0.52                            |                                                         | 0.5000              |             | 104  | 70       | 130       |      |          |      |
| Surr: Toluene-d8            | 0.51                            |                                                         | 0.5000              |             | 102  | 70       | 130       |      |          |      |

| Sample ID: <b>2005854-011ams</b> | SampType: <b>MS4</b>            | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|----------------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-18 0-12"</b>  | Batch ID: <b>52634</b>          | RunNo: <b>69117</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b>      | Analysis Date: <b>5/23/2020</b> | SeqNo: <b>2394354</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                          | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                          | 0.98                            | 0.024                                                   | 0.9756              | 0           | 101  | 71.1     | 115       |      |          |      |
| Toluene                          | 1.0                             | 0.049                                                   | 0.9756              | 0           | 103  | 79.6     | 132       |      |          |      |
| Ethylbenzene                     | 1.1                             | 0.049                                                   | 0.9756              | 0           | 110  | 83.8     | 134       |      |          |      |
| Xylenes, Total                   | 3.2                             | 0.098                                                   | 2.927               | 0           | 108  | 82.4     | 132       |      |          |      |
| Surr: 1,2-Dichloroethane-d4      | 0.43                            |                                                         | 0.4878              |             | 88.3 | 70       | 130       |      |          |      |
| Surr: 4-Bromofluorobenzene       | 0.45                            |                                                         | 0.4878              |             | 91.5 | 70       | 130       |      |          |      |
| Surr: Dibromofluoromethane       | 0.49                            |                                                         | 0.4878              |             | 101  | 70       | 130       |      |          |      |
| Surr: Toluene-d8                 | 0.49                            |                                                         | 0.4878              |             | 100  | 70       | 130       |      |          |      |

| Sample ID: <b>2005854-011amsd</b> | SampType: <b>MSD4</b>           | TestCode: <b>EPA Method 8260B: Volatiles Short List</b> |                     |             |      |          |           |      |          |      |
|-----------------------------------|---------------------------------|---------------------------------------------------------|---------------------|-------------|------|----------|-----------|------|----------|------|
| Client ID: <b>BS20-18 0-12"</b>   | Batch ID: <b>52634</b>          | RunNo: <b>69117</b>                                     |                     |             |      |          |           |      |          |      |
| Prep Date: <b>5/21/2020</b>       | Analysis Date: <b>5/24/2020</b> | SeqNo: <b>2394355</b>                                   | Units: <b>mg/Kg</b> |             |      |          |           |      |          |      |
| Analyte                           | Result                          | PQL                                                     | SPK value           | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene                           | 0.93                            | 0.023                                                   | 0.9217              | 0           | 101  | 71.1     | 115       | 5.48 | 20       |      |
| Toluene                           | 0.98                            | 0.046                                                   | 0.9217              | 0           | 106  | 79.6     | 132       | 3.06 | 20       |      |
| Ethylbenzene                      | 1.0                             | 0.046                                                   | 0.9217              | 0           | 112  | 83.8     | 134       | 3.14 | 20       |      |
| Xylenes, Total                    | 3.0                             | 0.092                                                   | 2.765               | 0           | 109  | 82.4     | 132       | 4.72 | 20       |      |
| Surr: 1,2-Dichloroethane-d4       | 0.41                            |                                                         | 0.4608              |             | 88.5 | 70       | 130       | 0    | 0        |      |
| Surr: 4-Bromofluorobenzene        | 0.41                            |                                                         | 0.4608              |             | 88.2 | 70       | 130       | 0    | 0        |      |
| Surr: Dibromofluoromethane        | 0.47                            |                                                         | 0.4608              |             | 103  | 70       | 130       | 0    | 0        |      |
| Surr: Toluene-d8                  | 0.47                            |                                                         | 0.4608              |             | 101  | 70       | 130       | 0    | 0        |      |

**Qualifiers:**

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

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

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

WO#: 2005854

29-May-20

**Client:** Devon Energy  
**Project:** North Pure Gold 9 Fed 1

| Sample ID: <b>mb-52622</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>52622</b>          |     |           | RunNo: <b>69107</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>5/21/2020</b>   | Analysis Date: <b>5/22/2020</b> |     |           | SeqNo: <b>2394004</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |           |                                                       |      |                     |           |      |          |      |
| Surr: BFB                     | 490                             |     | 500.0     |                                                       | 98.6 | 70                  | 130       |      |          |      |

| Sample ID: <b>lcs-52622</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>52622</b>          |     |           | RunNo: <b>69107</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>5/21/2020</b>   | Analysis Date: <b>5/22/2020</b> |     |           | SeqNo: <b>2394005</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 19                              | 5.0 | 25.00     | 0                                                     | 77.9 | 70                  | 130       |      |          |      |
| Surr: BFB                     | 480                             |     | 500.0     |                                                       | 96.5 | 70                  | 130       |      |          |      |

| Sample ID: <b>mb-52634</b>    | SampType: <b>MBLK</b>           |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>PBS</b>         | Batch ID: <b>52634</b>          |     |           | RunNo: <b>69117</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>5/21/2020</b>   | Analysis Date: <b>5/23/2020</b> |     |           | SeqNo: <b>2394380</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | ND                              | 5.0 |           |                                                       |      |                     |           |      |          |      |
| Surr: BFB                     | 460                             |     | 500.0     |                                                       | 92.6 | 70                  | 130       |      |          |      |

| Sample ID: <b>lcs-52634</b>   | SampType: <b>LCS</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>LCSS</b>        | Batch ID: <b>52634</b>          |     |           | RunNo: <b>69117</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>5/21/2020</b>   | Analysis Date: <b>5/23/2020</b> |     |           | SeqNo: <b>2394381</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                       | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21                              | 5.0 | 25.00     | 0                                                     | 84.0 | 70                  | 130       |      |          |      |
| Surr: BFB                     | 460                             |     | 500.0     |                                                       | 92.4 | 70                  | 130       |      |          |      |

| Sample ID: <b>2005854-012ams</b> | SampType: <b>MS</b>             |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|----------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>WS20-08</b>        | Batch ID: <b>52634</b>          |     |           | RunNo: <b>69117</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>5/21/2020</b>      | Analysis Date: <b>5/24/2020</b> |     |           | SeqNo: <b>2394384</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                          | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO)    | 22                              | 5.0 | 24.85     | 0                                                     | 87.2 | 70                  | 130       |      |          |      |
| Surr: BFB                        | 460                             |     | 497.0     |                                                       | 92.1 | 70                  | 130       |      |          |      |

| Sample ID: <b>2005854-012amsd</b> | SampType: <b>MSD</b>            |     |           | TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b> |      |                     |           |      |          |      |
|-----------------------------------|---------------------------------|-----|-----------|-------------------------------------------------------|------|---------------------|-----------|------|----------|------|
| Client ID: <b>WS20-08</b>         | Batch ID: <b>52634</b>          |     |           | RunNo: <b>69117</b>                                   |      |                     |           |      |          |      |
| Prep Date: <b>5/21/2020</b>       | Analysis Date: <b>5/24/2020</b> |     |           | SeqNo: <b>2394385</b>                                 |      | Units: <b>mg/Kg</b> |           |      |          |      |
| Analyte                           | Result                          | PQL | SPK value | SPK Ref Val                                           | %REC | LowLimit            | HighLimit | %RPD | RPDLimit | Qual |

**Qualifiers:**

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

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2005854

29-May-20

Client: Devon Energy

Project: North Pure Gold 9 Fed 1

|                               |        |                          |           |                                                |      |              |           |      |          |      |
|-------------------------------|--------|--------------------------|-----------|------------------------------------------------|------|--------------|-----------|------|----------|------|
| Sample ID: 2005854-012amsd    |        | SampType: MSD            |           | TestCode: EPA Method 8015D Mod: Gasoline Range |      |              |           |      |          |      |
| Client ID: WS20-08            |        | Batch ID: 52634          |           | RunNo: 69117                                   |      |              |           |      |          |      |
| Prep Date: 5/21/2020          |        | Analysis Date: 5/24/2020 |           | SeqNo: 2394385                                 |      | Units: mg/Kg |           |      |          |      |
| Analyte                       | Result | PQL                      | SPK value | SPK Ref Val                                    | %REC | LowLimit     | HighLimit | %RPD | RPDLimit | Qual |
| Gasoline Range Organics (GRO) | 21     | 4.6                      | 23.06     | 0                                              | 89.3 | 70           | 130       | 5.11 | 20       |      |
| Surr: BFB                     | 420    |                          | 461.3     |                                                | 92.1 | 70           | 130       | 0    | 0        |      |

Qualifiers:

- \*

Value exceeds Maximum Contaminant Level.
- D

Sample Diluted Due to Matrix
- H

Holding times for preparation or analysis exceeded
- ND

Not Detected at the Reporting Limit
- PQL

Practical Quantitative Limit
- S

% Recovery outside of range due to dilution or matrix
- B

Analyte detected in the associated Method Blank
- E

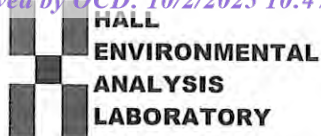
Value above quantitation range
- J

Analyte detected below quantitation limits
- P

Sample pH Not In Range
- RL

Reporting Limit





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

## Sample Log-In Check List

Client Name: **DEVON ENERGY**Work Order Number: **2005854**

RcptNo: 1

Received By: **Juan Rojas**

5/20/2020 9:50:00 AM

Completed By: **Desiree Dominguez**

5/20/2020 9:59:13 AM

Reviewed By: **JAS 5/20/20**

### Chain of Custody

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

### Log In

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

# of preserved  
bottles checked  
for pH:

( $<2$  or  $>12$  unless noted)

Adjusted? \_\_\_\_\_

Checked by: *gm 5/20/20*

### Special Handling (if applicable)

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

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

| Cooler No | Temp $^{\circ}\text{C}$ | Condition | Seal Intact | Seal No | Seal Date | Signed By |
|-----------|-------------------------|-----------|-------------|---------|-----------|-----------|
| 1         | 1.8                     | Good      | Not Present |         |           |           |
| 2         | 2.0                     | Good      | Not Present |         |           |           |
| 3         | 2.0                     | Good      | Not Present |         |           |           |
| 4         | 1.1                     | Good      | Not Present |         |           |           |

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







Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Ms. Sally Carttar  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 5/13/2025 4:43:57 PM

## JOB DESCRIPTION

North Pure Gold 9 Fed 1

## JOB NUMBER

885-24275-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109

# Eurofins Albuquerque

## Job Notes

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Environment Testing South Central, LLC Project Manager.

## Authorization



Generated  
5/13/2025 4:43:57 PM

Authorized for release by  
Andy Freeman, Business Unit Manager  
[andy.freeman@et.eurofinsus.com](mailto:andy.freeman@et.eurofinsus.com)  
(505)345-3975



Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Laboratory Job ID: 885-24275-1



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Definitions/Glossary

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Qualifiers

GC VOA

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |
| S1+       | Surrogate recovery exceeds control limits, high biased.                                                                                                   |

GC Semi VOA

| Qualifier | Qualifier Description                                                                                                                                               |
|-----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.           |
| D         | Surrogate or matrix spike recoveries were not obtained because the extract was diluted for analysis; also compounds analyzed at a dilution may be flagged with a D. |
| S1-       | Surrogate recovery exceeds control limits, low biased.                                                                                                              |

HPLC/IC

| Qualifier | Qualifier Description                                                                                                                                     |
|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4         | MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable. |

Glossary

| Abbreviation   | These commonly used abbreviations may or may not be present in this report.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| ☼              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: Vertex  
Project: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Job ID: 885-24275-1

Eurofins Albuquerque

**Job Narrative**  
**885-24275-1**

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

**Receipt**

The samples were received on 5/6/2025 7:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C.

**Gasoline Range Organics**

Method 8015D\_GRO: Surrogate recovery for the following sample was outside control limits: BS25-53 (2') (885-24275-32). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D\_GRO: Due to the high concentration of GRO, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 885-25670 and analytical batch 885-25791 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method 8015D\_GRO: Surrogate recovery for the following samples were outside control limits: (885-24275-A-32-B MS) and (885-24275-A-32-C MSD). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D\_GRO: Surrogate recovery for the following samples were outside control limits: BS25-39 (2') (885-24275-21), BS25-40 (2') (885-24275-22), BS25-41 (2') (885-24275-23), BS25-45 (2') (885-24275-25) and BS25-46 (2') (885-24275-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D\_GRO: Surrogate recovery for the following samples were outside control limits: BS25-55 (2') (885-24275-34), BS25-56 (2') (885-24275-35) and BS25-60 (2') (885-24275-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8015D\_GRO: Surrogate recovery for the following sample was outside control limits: BS25-54 (2') (885-24275-33). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: BS25-45 (2') (885-24275-25) and BS25-46 (2') (885-24275-26). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method 8021B: Surrogate recovery for the following sample was outside control limits: BS25-60 (2') (885-24275-39). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

**Diesel Range Organics**

Method 8015D\_DRO: Surrogate recovery for the following sample is outside the lower control limit: BS25-39 (2') (885-24275-21). Due to possible matrix effect, surrogate is outside lower control limit. MS/MSD have passing surrogate.

Method 8015D\_DRO: The following samples required a dilution due to the nature of the sample matrix: BS25-24 (1') (885-24275-6), BS25-40 (2') (885-24275-22), BS25-41 (2') (885-24275-23), BS25-45 (2') (885-24275-25), BS25-46 (2')

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## Case Narrative

Client: Vertex  
Project: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

### Job ID: 885-24275-1 (Continued)

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(885-24275-26) and BS25-48 (2') (885-24275-27). Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.

Method 8015D\_DRO: Surrogate recovery for the following samples is outside the upper control limit: BS25-53 (2') (885-24275-32), BS25-54 (2') (885-24275-33), BS25-55 (2') (885-24275-34), BS25-57 (2') (885-24275-36) and BS25-58 (2') (885-24275-37). These samples are diluted below calibration range for surrogate and matrix effect is also suspected. Therefore, these samples are reported.

Method 8015D\_DRO: The following samples were diluted due to the nature of the sample matrix: BS25-56 (2') (885-24275-35) and BS25-60 (2') (885-24275-39)

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### HPLC/IC

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-19 (1')

Lab Sample ID: 885-24275-1

Date Collected: 05/02/25 10:10

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 17:25 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 100       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 17:25 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 17:25 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 17:25 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 17:25 | 1       |
| Xylenes, Total              | ND        |           | 0.096    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 17:25 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 17:25 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 10       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 09:22 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 50       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 09:22 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 113       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/08/25 09:22 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 06:22 | 05/07/25 13:43 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-20 (1')

Lab Sample ID: 885-24275-2

Date Collected: 05/02/25 10:15

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:08 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 102       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 18:08 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:08 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:08 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:08 | 1       |
| Xylenes, Total              | ND        |           | 0.097    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:08 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 18:08 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.1      | mg/Kg |   | 05/07/25 12:36 | 05/08/25 09:54 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 46       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 09:54 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 109       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/08/25 09:54 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 10:55 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-21 (1')

Lab Sample ID: 885-24275-3

Date Collected: 05/02/25 10:20

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:30 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 109       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 18:30 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:30 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:30 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:30 | 1       |
| Xylenes, Total              | ND        |           | 0.096    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:30 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 18:30 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 1900      |           | 50       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 10:04 | 5       |
| Motor Oil Range Organics [C28-C40] | 1100      |           | 250      | mg/Kg |   | 05/07/25 12:36 | 05/08/25 10:04 | 5       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 130       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/08/25 10:04 | 5       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 75     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 11:25 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-22 (1')

Lab Sample ID: 885-24275-4

Date Collected: 05/02/25 10:25

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:51 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 104       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 18:51 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:51 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:51 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:51 | 1       |
| Xylenes, Total              | ND        |           | 0.096    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 18:51 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 18:51 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 130       |           | 9.4      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 09:28 | 1       |
| Motor Oil Range Organics [C28-C40] | 230       |           | 47       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 09:28 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 123       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 09:28 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 12:14 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-23 (1')

Lab Sample ID: 885-24275-5

Date Collected: 05/02/25 10:30

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:13 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 97        |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 19:13 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:13 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:13 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:13 | 1       |
| Xylenes, Total              | ND        |           | 0.099    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:13 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 93        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 19:13 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 250       |           | 9.5      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 09:52 | 1       |
| Motor Oil Range Organics [C28-C40] | 230       |           | 47       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 09:52 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 117       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 09:52 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 570    |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 12:24 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-24 (1')

Lab Sample ID: 885-24275-6

Date Collected: 05/02/25 10:35

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:35 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 103       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 19:35 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:35 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:35 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:35 | 1       |
| Xylenes, Total              | ND        |           | 0.096    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:35 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 94        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 19:35 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 2000      |           | 190      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 10:15 | 20      |
| Motor Oil Range Organics [C28-C40] | 2400      |           | 970      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 10:15 | 20      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | S1- D     | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 10:15 | 20      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|-----|-------|---|----------------|----------------|---------|
| Chloride | 13000  |           | 150 | mg/Kg |   | 05/07/25 08:40 | 05/09/25 10:40 | 50      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-25 (0-2')

Lab Sample ID: 885-24275-7

Date Collected: 05/02/25 10:40

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:56 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 110       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 19:56 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:56 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:56 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:56 | 1       |
| Xylenes, Total              | ND        |           | 0.099    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 19:56 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 19:56 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 60        |           | 9.6      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 11:02 | 1       |
| Motor Oil Range Organics [C28-C40] | 48        |           | 48       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 11:02 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 118       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 11:02 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 3200   |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 12:43 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-26 (0-2')

Lab Sample ID: 885-24275-8

Date Collected: 05/02/25 10:45

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.7      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:18 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 104       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 20:18 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:18 | 1       |
| Ethylbenzene                | ND        |           | 0.047    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:18 | 1       |
| Toluene                     | ND        |           | 0.047    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:18 | 1       |
| Xylenes, Total              | ND        |           | 0.095    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:18 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 20:18 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.8      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 11:25 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 49       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 11:25 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 120       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 11:25 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 150    |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 12:53 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-27 (0-2')

Lab Sample ID: 885-24275-9

Date Collected: 05/02/25 10:50

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.6      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:40 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 109       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 20:40 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:40 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:40 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:40 | 1       |
| Xylenes, Total              | ND        |           | 0.092    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 20:40 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 20:40 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 250       |           | 9.7      | mg/Kg |   | 05/07/25 12:36 | 05/08/25 11:18 | 1       |
| Motor Oil Range Organics [C28-C40] | 200       |           | 48       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 11:18 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 121       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/08/25 11:18 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 250    |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 13:03 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-28 (0-2')

Lab Sample ID: 885-24275-10

Date Collected: 05/02/25 10:55

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:02 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 104       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 21:02 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:02 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:02 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:02 | 1       |
| Xylenes, Total              | ND        |           | 0.096    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:02 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 21:02 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.5      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 11:49 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 11:49 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 114       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 11:49 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 13:13 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-29 (0-2')

Lab Sample ID: 885-24275-11

Date Collected: 05/02/25 11:00

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.7      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:24 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 101       |           | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 21:24 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:24 | 1       |
| Ethylbenzene                | ND        |           | 0.047    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:24 | 1       |
| Toluene                     | ND        |           | 0.047    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:24 | 1       |
| Xylenes, Total              | ND        |           | 0.093    | mg/Kg |   | 05/06/25 11:52 | 05/07/25 21:24 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 48 - 145 |       |   | 05/06/25 11:52 | 05/07/25 21:24 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.7      | mg/Kg |   | 05/07/25 12:36 | 05/08/25 11:40 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 49       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 11:40 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 117       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/08/25 11:40 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 13:23 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-30 (0-2')

Lab Sample ID: 885-24275-12

Date Collected: 05/02/25 11:05

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:24 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 100       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 13:24 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:24 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:24 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:24 | 1       |
| Xylenes, Total              | ND        |           | 0.097    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:24 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 13:24 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 39        |           | 9.3      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 12:36 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 46       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 12:36 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 120       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 12:36 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 13:33 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-31 (0-2')

Lab Sample ID: 885-24275-13

Date Collected: 05/02/25 11:10

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 5.0      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 14:29 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 101       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 14:29 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 14:29 | 1       |
| Ethylbenzene                | ND        |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 14:29 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 14:29 | 1       |
| Xylenes, Total              | ND        |           | 0.10     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 14:29 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 14:29 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 12        |           | 10       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 12:01 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 50       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 12:01 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 109       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/08/25 12:01 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 61     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 13:42 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-32 (2')

Lab Sample ID: 885-24275-14

Date Collected: 05/02/25 11:15

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:34 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 112       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 15:34 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:34 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:34 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:34 | 1       |
| Xylenes, Total              | ND        |           | 0.098    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:34 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 15:34 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 1100      |           | 19       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 12:12 | 2       |
| Motor Oil Range Organics [C28-C40] | 1100      |           | 95       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 12:12 | 2       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 129       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/08/25 12:12 | 2       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 170    |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 14:12 | 20      |

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-33 (2')

Lab Sample ID: 885-24275-15

Date Collected: 05/02/25 11:20

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 5.0      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:56 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 102       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 15:56 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:56 | 1       |
| Ethylbenzene                | ND        |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:56 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:56 | 1       |
| Xylenes, Total              | ND        |           | 0.099    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 15:56 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 15:56 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 230       |           | 9.9      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 12:59 | 1       |
| Motor Oil Range Organics [C28-C40] | 350       |           | 50       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 12:59 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 119       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 12:59 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 120    |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 14:22 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-34 (2')

Lab Sample ID: 885-24275-16

Date Collected: 05/02/25 11:25

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.6      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:17 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 99        |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 16:17 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:17 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:17 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:17 | 1       |
| Xylenes, Total              | ND        |           | 0.093    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:17 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 96        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 16:17 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 31        |           | 9.8      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 13:47 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 49       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 13:47 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 122       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 13:47 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 100    |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 14:32 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-35 (2')

Lab Sample ID: 885-24275-17

Date Collected: 05/02/25 11:30

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.9      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:39 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 102       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 16:39 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:39 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:39 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:39 | 1       |
| Xylenes, Total              | ND        |           | 0.098    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 16:39 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 16:39 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 110       |           | 9.6      | mg/Kg |   | 05/07/25 12:36 | 05/09/25 18:56 | 1       |
| Motor Oil Range Organics [C28-C40] | 190       |           | 48       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 18:56 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 127       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 18:56 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 14:41 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-36 (2')

Lab Sample ID: 885-24275-18

Date Collected: 05/02/25 11:35

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 5.0      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:01 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 106       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 17:01 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:01 | 1       |
| Ethylbenzene                | ND        |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:01 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:01 | 1       |
| Xylenes, Total              | ND        |           | 0.099    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:01 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 17:01 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 47        |           | 19       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 19:19 | 2       |
| Motor Oil Range Organics [C28-C40] | 170       |           | 94       | mg/Kg |   | 05/07/25 12:36 | 05/09/25 19:19 | 2       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 117       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/09/25 19:19 | 2       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 14:51 | 20      |

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-37 (2')

Lab Sample ID: 885-24275-19

Date Collected: 05/02/25 11:40

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:22 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 101       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 17:22 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:22 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:22 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:22 | 1       |
| Xylenes, Total              | ND        |           | 0.095    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:22 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 17:22 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.5      | mg/Kg |   | 05/07/25 12:36 | 05/08/25 13:07 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 47       | mg/Kg |   | 05/07/25 12:36 | 05/08/25 13:07 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 112       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/08/25 13:07 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 110    |           | 60 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 15:01 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-38 (2')

Lab Sample ID: 885-24275-20

Date Collected: 05/02/25 11:45

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.8      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:44 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 128       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 17:44 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:44 | 1       |
| Ethylbenzene                | ND        |           | 0.048    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:44 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:44 | 1       |
| Xylenes, Total              | ND        |           | 0.097    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 17:44 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 17:44 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 1200      |           | 19       | mg/Kg |   | 05/07/25 12:36 | 05/13/25 14:12 | 2       |
| Motor Oil Range Organics [C28-C40] | 1200      |           | 93       | mg/Kg |   | 05/07/25 12:36 | 05/13/25 14:12 | 2       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 114       |           | 62 - 134 |       |   | 05/07/25 12:36 | 05/13/25 14:12 | 2       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 15:20 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-39 (2')

Lab Sample ID: 885-24275-21

Date Collected: 05/02/25 11:50

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 75        |           | 4.8      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:06 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 218       | S1+       | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 18:06 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:06 | 1       |
| Ethylbenzene                | 0.13      |           | 0.048    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:06 | 1       |
| Toluene                     | ND        |           | 0.048    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:06 | 1       |
| Xylenes, Total              | 0.69      |           | 0.096    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:06 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 115       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 18:06 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 2600      |           | 47       | mg/Kg |   | 05/07/25 12:17 | 05/07/25 16:52 | 5       |
| Motor Oil Range Organics [C28-C40] | 2400      |           | 230      | mg/Kg |   | 05/07/25 12:17 | 05/07/25 16:52 | 5       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 58        | S1- D     | 62 - 134 |       |   | 05/07/25 12:17 | 05/07/25 16:52 | 5       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 180    |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 15:51 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-40 (2')

Lab Sample ID: 885-24275-22

Date Collected: 05/02/25 11:55

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 360       |           | 25       | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:49 | 5       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 242       | S1+       | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 18:49 | 5       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.12     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:49 | 5       |
| Ethylbenzene                | 1.1       |           | 0.25     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:49 | 5       |
| Toluene                     | ND        |           | 0.25     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:49 | 5       |
| Xylenes, Total              | 5.3       |           | 0.50     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 18:49 | 5       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 132       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 18:49 | 5       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 4100      |           | 98       | mg/Kg |   | 05/07/25 12:17 | 05/09/25 05:37 | 10      |
| Motor Oil Range Organics [C28-C40] | 2600      |           | 490      | mg/Kg |   | 05/07/25 12:17 | 05/09/25 05:37 | 10      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | S1- D     | 62 - 134 |       |   | 05/07/25 12:17 | 05/09/25 05:37 | 10      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 580    |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 16:22 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-41 (2')

Lab Sample ID: 885-24275-23

Date Collected: 05/02/25 12:00

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 370       |           | 24       | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:11 | 5       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 273       | S1+       | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 19:11 | 5       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.12     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:11 | 5       |
| Ethylbenzene                | 0.86      |           | 0.24     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:11 | 5       |
| Toluene                     | ND        |           | 0.24     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:11 | 5       |
| Xylenes, Total              | 3.2       |           | 0.48     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:11 | 5       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 132       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 19:11 | 5       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 4700      |           | 95       | mg/Kg |   | 05/07/25 12:17 | 05/09/25 06:00 | 10      |
| Motor Oil Range Organics [C28-C40] | 3300      |           | 470      | mg/Kg |   | 05/07/25 12:17 | 05/09/25 06:00 | 10      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | S1- D     | 62 - 134 |       |   | 05/07/25 12:17 | 05/09/25 06:00 | 10      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 16:33 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-43 (2')

Lab Sample ID: 885-24275-24

Date Collected: 05/02/25 12:05

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 5.0      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:32 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 113       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 19:32 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:32 | 1       |
| Ethylbenzene                | ND        |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:32 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:32 | 1       |
| Xylenes, Total              | ND        |           | 0.099    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:32 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 19:32 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 16        |           | 9.9      | mg/Kg |   | 05/07/25 12:17 | 05/09/25 08:19 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 49       | mg/Kg |   | 05/07/25 12:17 | 05/09/25 08:19 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 120       |           | 62 - 134 |       |   | 05/07/25 12:17 | 05/09/25 08:19 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 16:43 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-45 (2')

Lab Sample ID: 885-24275-25

Date Collected: 05/02/25 12:10

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 130       |           | 4.6      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:54 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 235       | S1+       | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 19:54 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:54 | 1       |
| Ethylbenzene                | 0.15      |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:54 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:54 | 1       |
| Xylenes, Total              | 1.1       |           | 0.092    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 19:54 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 148       | S1+       | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 19:54 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 4900      |           | 97       | mg/Kg |   | 05/07/25 12:17 | 05/09/25 06:23 | 10      |
| Motor Oil Range Organics [C28-C40] | 4000      |           | 480      | mg/Kg |   | 05/07/25 12:17 | 05/09/25 06:23 | 10      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | S1- D     | 62 - 134 |       |   | 05/07/25 12:17 | 05/09/25 06:23 | 10      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 16:53 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-46 (2')

Lab Sample ID: 885-24275-26

Date Collected: 05/02/25 12:15

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 60        |           | 4.6      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:16 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 275       | S1+       | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 20:16 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:16 | 1       |
| Ethylbenzene                | 0.16      |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:16 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:16 | 1       |
| Xylenes, Total              | 0.84      |           | 0.091    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:16 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 148       | S1+       | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 20:16 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 2800      |           | 98       | mg/Kg |   | 05/07/25 12:17 | 05/09/25 06:46 | 10      |
| Motor Oil Range Organics [C28-C40] | 2700      |           | 490      | mg/Kg |   | 05/07/25 12:17 | 05/09/25 06:46 | 10      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | S1- D     | 62 - 134 |       |   | 05/07/25 12:17 | 05/09/25 06:46 | 10      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 160    |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 17:24 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-48 (2')

Lab Sample ID: 885-24275-27

Date Collected: 05/02/25 12:20

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 24        |           | 4.9      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:38 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 153       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 20:38 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:38 | 1       |
| Ethylbenzene                | ND        |           | 0.049    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:38 | 1       |
| Toluene                     | ND        |           | 0.049    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:38 | 1       |
| Xylenes, Total              | 0.12      |           | 0.099    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 20:38 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 142       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 20:38 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 3000      |           | 97       | mg/Kg |   | 05/07/25 12:17 | 05/09/25 07:09 | 10      |
| Motor Oil Range Organics [C28-C40] | 2800      |           | 490      | mg/Kg |   | 05/07/25 12:17 | 05/09/25 07:09 | 10      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | S1- D     | 62 - 134 |       |   | 05/07/25 12:17 | 05/09/25 07:09 | 10      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 79     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 17:35 | 20      |

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-49 (2')

Lab Sample ID: 885-24275-28

Date Collected: 05/02/25 12:25

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.7      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:00 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 109       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 21:00 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:00 | 1       |
| Ethylbenzene                | ND        |           | 0.047    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:00 | 1       |
| Toluene                     | ND        |           | 0.047    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:00 | 1       |
| Xylenes, Total              | ND        |           | 0.093    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:00 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 21:00 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.8      | mg/Kg |   | 05/07/25 12:17 | 05/09/25 07:32 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 49       | mg/Kg |   | 05/07/25 12:17 | 05/09/25 07:32 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 118       |           | 62 - 134 |       |   | 05/07/25 12:17 | 05/09/25 07:32 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 17:45 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-50 (2')

Lab Sample ID: 885-24275-29

Date Collected: 05/02/25 12:30

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.6      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:21 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 108       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 21:21 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:21 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:21 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:21 | 1       |
| Xylenes, Total              | ND        |           | 0.093    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:21 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 101       |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 21:21 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 15        |           | 9.6      | mg/Kg |   | 05/07/25 12:17 | 05/09/25 07:55 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 05/07/25 12:17 | 05/09/25 07:55 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 111       |           | 62 - 134 |       |   | 05/07/25 12:17 | 05/09/25 07:55 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 76     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 17:55 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-51 (2')

Lab Sample ID: 885-24275-30

Date Collected: 05/02/25 12:35

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.6      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:43 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 101       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 21:43 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:43 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:43 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:43 | 1       |
| Xylenes, Total              | ND        |           | 0.093    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 21:43 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 21:43 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 18        |           | 9.5      | mg/Kg |   | 05/07/25 12:17 | 05/07/25 20:39 | 1       |
| Motor Oil Range Organics [C28-C40] | ND        |           | 48       | mg/Kg |   | 05/07/25 12:17 | 05/07/25 20:39 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 113       |           | 62 - 134 |       |   | 05/07/25 12:17 | 05/07/25 20:39 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 78     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 18:06 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-52 (2')

Lab Sample ID: 885-24275-31

Date Collected: 05/02/25 12:40

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.6      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 22:05 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 108       |           | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 22:05 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 22:05 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 22:05 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 22:05 | 1       |
| Xylenes, Total              | ND        |           | 0.092    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 22:05 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 22:05 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 550       |           | 9.7      | mg/Kg |   | 05/07/25 12:17 | 05/07/25 20:50 | 1       |
| Motor Oil Range Organics [C28-C40] | 730       |           | 48       | mg/Kg |   | 05/07/25 12:17 | 05/07/25 20:50 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 128       |           | 62 - 134 |       |   | 05/07/25 12:17 | 05/07/25 20:50 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | ND     |           | 60 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 18:16 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-53 (2')

Lab Sample ID: 885-24275-32

Date Collected: 05/02/25 12:45

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 160       |           | 4.8      | mg/Kg |   | 05/07/25 12:22 | 05/09/25 00:21 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 270       | S1+       | 35 - 166 |       |   | 05/07/25 12:22 | 05/09/25 00:21 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 00:21 | 1       |
| Ethylbenzene                | 0.37      |           | 0.048    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 00:21 | 1       |
| Toluene                     | 0.064     |           | 0.048    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 00:21 | 1       |
| Xylenes, Total              | 2.6       |           | 0.096    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 00:21 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 128       |           | 48 - 145 |       |   | 05/07/25 12:22 | 05/09/25 00:21 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 3300      |           | 93       | mg/Kg |   | 05/08/25 09:39 | 05/08/25 22:23 | 10      |
| Motor Oil Range Organics [C28-C40] | 1200      |           | 460      | mg/Kg |   | 05/08/25 09:39 | 05/08/25 22:23 | 10      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | D S1-     | 62 - 134 |       |   | 05/08/25 09:39 | 05/08/25 22:23 | 10      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 1300   |           | 60 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 18:57 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-54 (2')

Lab Sample ID: 885-24275-33

Date Collected: 05/02/25 12:50

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 240       |           | 9.4      | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:34 | 2       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 216       | S1+       | 35 - 166 |       |   | 05/07/25 12:22 | 05/09/25 19:34 | 2       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.047    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:34 | 2       |
| Ethylbenzene                | 0.31      |           | 0.094    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:34 | 2       |
| Toluene                     | ND        |           | 0.094    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:34 | 2       |
| Xylenes, Total              | 2.0       |           | 0.19     | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:34 | 2       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 119       |           | 48 - 145 |       |   | 05/07/25 12:22 | 05/09/25 19:34 | 2       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 3700      |           | 48       | mg/Kg |   | 05/08/25 09:39 | 05/08/25 22:34 | 5       |
| Motor Oil Range Organics [C28-C40] | 1500      |           | 240      | mg/Kg |   | 05/08/25 09:39 | 05/08/25 22:34 | 5       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | D S1-     | 62 - 134 |       |   | 05/08/25 09:39 | 05/08/25 22:34 | 5       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 830    |           | 60 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 19:49 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-55 (2')

Lab Sample ID: 885-24275-34

Date Collected: 05/02/25 12:55

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|--------------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 71               |                  | 9.6           | mg/Kg |   | 05/07/25 12:22  | 05/09/25 03:07  | 2              |
| <b>Surrogate</b>                     | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr)          | 175              | S1+              | 35 - 166      |       |   | 05/07/25 12:22  | 05/09/25 03:07  | 2              |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|-----------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Benzene                     | ND               |                  | 0.048         | mg/Kg |   | 05/07/25 12:22  | 05/09/25 03:07  | 2              |
| Ethylbenzene                | ND               |                  | 0.096         | mg/Kg |   | 05/07/25 12:22  | 05/09/25 03:07  | 2              |
| Toluene                     | ND               |                  | 0.096         | mg/Kg |   | 05/07/25 12:22  | 05/09/25 03:07  | 2              |
| Xylenes, Total              | 0.35             |                  | 0.19          | mg/Kg |   | 05/07/25 12:22  | 05/09/25 03:07  | 2              |
| <b>Surrogate</b>            | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| 4-Bromofluorobenzene (Surr) | 97               |                  | 48 - 145      |       |   | 05/07/25 12:22  | 05/09/25 03:07  | 2              |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result           | Qualifier        | RL            | Unit  | D | Prepared        | Analyzed        | Dil Fac        |
|------------------------------------|------------------|------------------|---------------|-------|---|-----------------|-----------------|----------------|
| Diesel Range Organics [C10-C28]    | 2900             |                  | 97            | mg/Kg |   | 05/08/25 09:39  | 05/08/25 22:45  | 10             |
| Motor Oil Range Organics [C28-C40] | 1300             |                  | 480           | mg/Kg |   | 05/08/25 09:39  | 05/08/25 22:45  | 10             |
| <b>Surrogate</b>                   | <b>%Recovery</b> | <b>Qualifier</b> | <b>Limits</b> |       |   | <b>Prepared</b> | <b>Analyzed</b> | <b>Dil Fac</b> |
| Di-n-octyl phthalate (Surr)        | 0                | D S1-            | 62 - 134      |       |   | 05/08/25 09:39  | 05/08/25 22:45  | 10             |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 410    |           | 60 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 20:20 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-56 (2')

Lab Sample ID: 885-24275-35

Date Collected: 05/02/25 13:00

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 230       |           | 5.0      | mg/Kg |   | 05/07/25 12:22 | 05/09/25 03:31 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 435       | S1+       | 35 - 166 |       |   | 05/07/25 12:22 | 05/09/25 03:31 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 03:31 | 1       |
| Ethylbenzene                | 0.49      |           | 0.050    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 03:31 | 1       |
| Toluene                     | ND        |           | 0.050    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 03:31 | 1       |
| Xylenes, Total              | 2.4       |           | 0.10     | mg/Kg |   | 05/07/25 12:22 | 05/09/25 03:31 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 135       |           | 48 - 145 |       |   | 05/07/25 12:22 | 05/09/25 03:31 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 5100      |           | 97       | mg/Kg |   | 05/08/25 09:39 | 05/13/25 15:47 | 10      |
| Motor Oil Range Organics [C28-C40] | 2300      |           | 480      | mg/Kg |   | 05/08/25 09:39 | 05/13/25 15:47 | 10      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | D S1-     | 62 - 134 |       |   | 05/08/25 09:39 | 05/13/25 15:47 | 10      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 160    |           | 60 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 20:31 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-57 (2')

Lab Sample ID: 885-24275-36

Date Collected: 05/02/25 13:05

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 11        |           | 4.6      | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:10 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 143       |           | 35 - 166 |       |   | 05/07/25 12:22 | 05/09/25 19:10 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:10 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:10 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:10 | 1       |
| Xylenes, Total              | ND        |           | 0.092    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 19:10 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 103       |           | 48 - 145 |       |   | 05/07/25 12:22 | 05/09/25 19:10 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 6600      |           | 200      | mg/Kg |   | 05/08/25 09:39 | 05/08/25 22:59 | 20      |
| Motor Oil Range Organics [C28-C40] | 3700      |           | 980      | mg/Kg |   | 05/08/25 09:39 | 05/08/25 22:59 | 20      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | D S1-     | 62 - 134 |       |   | 05/08/25 09:39 | 05/08/25 22:59 | 20      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 260    |           | 60 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 20:41 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-58 (2')

Lab Sample ID: 885-24275-37

Date Collected: 05/02/25 13:10

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.7      | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:18 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 123       |           | 35 - 166 |       |   | 05/07/25 12:22 | 05/09/25 04:18 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.024    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:18 | 1       |
| Ethylbenzene                | ND        |           | 0.047    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:18 | 1       |
| Toluene                     | ND        |           | 0.047    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:18 | 1       |
| Xylenes, Total              | ND        |           | 0.094    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:18 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98        |           | 48 - 145 |       |   | 05/07/25 12:22 | 05/09/25 04:18 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 840       |           | 20       | mg/Kg |   | 05/08/25 09:39 | 05/08/25 23:10 | 2       |
| Motor Oil Range Organics [C28-C40] | 720       |           | 98       | mg/Kg |   | 05/08/25 09:39 | 05/08/25 23:10 | 2       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | D S1-     | 62 - 134 |       |   | 05/08/25 09:39 | 05/08/25 23:10 | 2       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 160    |           | 60 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 20:51 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-59 (2')

Lab Sample ID: 885-24275-38

Date Collected: 05/02/25 13:15

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | ND        |           | 4.6      | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:42 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 112       |           | 35 - 166 |       |   | 05/07/25 12:22 | 05/09/25 04:42 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.023    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:42 | 1       |
| Ethylbenzene                | ND        |           | 0.046    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:42 | 1       |
| Toluene                     | ND        |           | 0.046    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:42 | 1       |
| Xylenes, Total              | ND        |           | 0.092    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 04:42 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99        |           | 48 - 145 |       |   | 05/07/25 12:22 | 05/09/25 04:42 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND        |           | 9.7      | mg/Kg |   | 05/08/25 09:39 | 05/13/25 14:59 | 1       |
| Motor Oil Range Organics [C28-C40] | 59        |           | 49       | mg/Kg |   | 05/08/25 09:39 | 05/13/25 14:59 | 1       |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 115       |           | 62 - 134 |       |   | 05/08/25 09:39 | 05/13/25 14:59 | 1       |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 81     |           | 60 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 21:02 | 20      |

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## Client Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-60 (2')

Lab Sample ID: 885-24275-39

Date Collected: 05/02/25 13:20

Matrix: Solid

Date Received: 05/06/25 07:40

## Method: SW846 8015M/D - Gasoline Range Organics (GRO) (GC)

| Analyte                              | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | 260       |           | 5.0      | mg/Kg |   | 05/07/25 12:22 | 05/09/25 05:06 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)          | 534       | S1+       | 35 - 166 |       |   | 05/07/25 12:22 | 05/09/25 05:06 | 1       |

## Method: SW846 8021B - Volatile Organic Compounds (GC)

| Analyte                     | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Benzene                     | ND        |           | 0.025    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 05:06 | 1       |
| Ethylbenzene                | 1.1       |           | 0.050    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 05:06 | 1       |
| Toluene                     | 0.23      |           | 0.050    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 05:06 | 1       |
| Xylenes, Total              | 8.4       |           | 0.099    | mg/Kg |   | 05/07/25 12:22 | 05/09/25 05:06 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 178       | S1+       | 48 - 145 |       |   | 05/07/25 12:22 | 05/09/25 05:06 | 1       |

## Method: SW846 8015M/D - Diesel Range Organics (DRO) (GC)

| Analyte                            | Result    | Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------|-----------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | 4900      |           | 98       | mg/Kg |   | 05/08/25 09:39 | 05/13/25 14:35 | 10      |
| Motor Oil Range Organics [C28-C40] | 2300      |           | 490      | mg/Kg |   | 05/08/25 09:39 | 05/13/25 14:35 | 10      |
| Surrogate                          | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 0         | D S1-     | 62 - 134 |       |   | 05/08/25 09:39 | 05/13/25 14:35 | 10      |

## Method: EPA 300.0 - Anions, Ion Chromatography

| Analyte  | Result | Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------|-----------|----|-------|---|----------------|----------------|---------|
| Chloride | 67     |           | 60 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 21:33 | 20      |

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## QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-25569/1-A

Matrix: Solid

Analysis Batch: 25650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25569

| Analyte                                 | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | ND              |                 | 5.0      | mg/Kg |   | 05/06/25 11:52 | 05/07/25 12:21 | 1       |
| Surrogate                               | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)             | 100             |                 | 35 - 166 |       |   | 05/06/25 11:52 | 05/07/25 12:21 | 1       |

Lab Sample ID: LCS 885-25569/2-A

Matrix: Solid

Analysis Batch: 25650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25569

| Analyte                                 | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | 25.0             | 28.0             |                  | mg/Kg |   | 112  | 70 - 130       |
| Surrogate                               | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 4-Bromofluorobenzene (Surr)             | 214              |                  | 35 - 166         |       |   |      |                |

Lab Sample ID: MB 885-25581/1-A

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25581

| Analyte                                 | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | ND              |                 | 5.0      | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:02 | 1       |
| Surrogate                               | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr)             | 100             |                 | 35 - 166 |       |   | 05/06/25 12:54 | 05/08/25 13:02 | 1       |

Lab Sample ID: LCS 885-25581/2-A

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25581

| Analyte                                 | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | 25.0             | 29.5             |                  | mg/Kg |   | 118  | 70 - 130       |
| Surrogate                               | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| 4-Bromofluorobenzene (Surr)             | 231              |                  | 35 - 166         |       |   |      |                |

Lab Sample ID: 885-24275-12 MS

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: BS25-30 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

| Analyte                                 | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|-----------------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Gasoline Range Organics<br>(GRO)-C6-C10 | ND               |                     | 24.4           | 28.8         |                 | mg/Kg |   | 118  | 70 - 130       |

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## QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-24275-12 MS

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: BS25-30 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 230       |           | 35 - 166 |

Lab Sample ID: 885-24275-12 MSD

Matrix: Solid

Analysis Batch: 25730

Client Sample ID: BS25-30 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

|                                      | Sample | Sample    | Spike | MSD    | MSD       |       |   |      | %Rec     | RPD |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD |
| Gasoline Range Organics (GRO)-C6-C10 | ND     |           | 24.2  | 28.6   |           | mg/Kg |   | 118  | 70 - 130 | 1   |

|                             | MSD       | MSD       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 225       |           | 35 - 166 |

Lab Sample ID: MB 885-25670/1-A

Matrix: Solid

Analysis Batch: 25791

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25670

|                                      | MB     | MB        |     |       |   |                |                |         |  |
|--------------------------------------|--------|-----------|-----|-------|---|----------------|----------------|---------|--|
| Analyte                              | Result | Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |  |
| Gasoline Range Organics (GRO)-C6-C10 | ND     |           | 5.0 | mg/Kg |   | 05/07/25 12:22 | 05/08/25 23:57 | 1       |  |

|                             | MB        | MB        |          |                |                |         |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 105       |           | 35 - 166 | 05/07/25 12:22 | 05/08/25 23:57 | 1       |

Lab Sample ID: LCS 885-25670/2-A

Matrix: Solid

Analysis Batch: 25791

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25670

|                                      |  |  | Spike | LCS    | LCS       |       |   |      |             |  |  |
|--------------------------------------|--|--|-------|--------|-----------|-------|---|------|-------------|--|--|
| Analyte                              |  |  | Added | Result | Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
| Gasoline Range Organics (GRO)-C6-C10 |  |  | 25.0  | 27.3   |           | mg/Kg | - | 109  | 70 - 130    |  |  |

|                             | LCS       | LCS       |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 211       |           | 35 - 166 |

Lab Sample ID: 885-24275-32 MS

Matrix: Solid

Analysis Batch: 25791

Client Sample ID: BS25-53 (2')

Prep Type: Total/NA

Prep Batch: 25670

|                                      | Sample | Sample    | Spike | MS     | MS        |       |   |      | %Rec     |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   |
| Gasoline Range Organics (GRO)-C6-C10 | 160    |           | 24.0  | 108    | 4         | mg/Kg |   | -206 | 70 - 130 |

|                             | MS        | MS        |          |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery | Qualifier | Limits   |
| 4-Bromofluorobenzene (Surr) | 310       | S1+       | 35 - 166 |

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## QC Sample Results

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

**Lab Sample ID: 885-24275-32 MSD**

**Matrix: Solid**

**Analysis Batch: 25791**

**Client Sample ID: BS25-53 (2')**

Prep Type: Total/NA

**Prep Batch: 25670**

| Analyte                              | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|--------------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 160           |                  | 23.7        | 105        | 4             | mg/Kg |   | -224 | 70 - 130    | 3   | 20        |
| Surrogate                            | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| 4-Bromofluorobenzene (Surr)          | 313           | S1+              | 35 - 166    |            |               |       |   |      |             |     |           |

**Method: 8021B - Volatile Organic Compounds (GC)**

**Lab Sample ID: MB 885-25569/1-A**

**Matrix: Solid**

**Analysis Batch: 25651**

**Client Sample ID: Method Blank**

Prep Type: Total/NA

Prep Batch: 25569

| Analyte                     | MB        | MB              | RL           | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------------|--------------|-------|---|----------------|----------------|---------|
|                             | Result    | Qualifier       |              |       |   |                |                |         |
| Benzene                     | ND        |                 | 0.025        | mg/Kg |   | 05/06/25 11:52 | 05/07/25 12:21 | 1       |
| Ethylbenzene                | ND        |                 | 0.050        | mg/Kg |   | 05/06/25 11:52 | 05/07/25 12:21 | 1       |
| Toluene                     | ND        |                 | 0.050        | mg/Kg |   | 05/06/25 11:52 | 05/07/25 12:21 | 1       |
| Xylenes, Total              | ND        |                 | 0.10         | mg/Kg |   | 05/06/25 11:52 | 05/07/25 12:21 | 1       |
| Surrogate                   | %Recovery | MB<br>Qualifier | MB<br>Limits |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 97        |                 | 48 - 145     |       |   | 05/06/25 11:52 | 05/07/25 12:21 | 1       |

**Lab Sample ID: LCS 885-25569/3-A**

**Matrix: Solid**

**Analysis Batch: 25651**

**Client Sample ID: Lab Control Sample**

Prep Type: Total/NA

Prep Batch: 25569

|                             | Spike     | LCS       | LCS       | %Rec  |   |              |
|-----------------------------|-----------|-----------|-----------|-------|---|--------------|
| Analyte                     | Added     | Result    | Qualifier | Unit  | D | %Rec Limits  |
| Benzene                     | 1.00      | 0.985     |           | mg/Kg | - | 98 70 - 130  |
| Ethylbenzene                | 1.00      | 0.988     |           | mg/Kg | - | 99 70 - 130  |
| m-Xylene & p-Xylene         | 2.00      | 2.00      |           | mg/Kg | - | 100 70 - 130 |
| o-Xylene                    | 1.00      | 0.976     |           | mg/Kg | - | 98 70 - 130  |
| Toluene                     | 1.00      | 0.973     |           | mg/Kg | - | 97 70 - 130  |
|                             | LCS       | LCS       |           |       |   |              |
| Surrogate                   | %Recovery | Qualifier | Limits    |       |   |              |
| 4-Bromofluorobenzene (Surr) | 98        |           | 48 - 145  |       |   |              |

**Lab Sample ID: MB 885-25581/1-A**

**Matrix: Solid**

**Analysis Batch: 25731**

**Client Sample ID: Method Blank**

Prep Type: Total/NA

**Prep Batch: 25581**

| Analyte                     | MB     | MB        | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------|-----------|----------|-------|---|----------------|----------------|---------|
|                             | Result | Qualifier |          |       |   |                |                |         |
| Benzene                     | ND     |           | 0.025    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:02 | 1       |
| Ethylbenzene                | ND     |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:02 | 1       |
| Toluene                     | ND     |           | 0.050    | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:02 | 1       |
| Xylenes, Total              | ND     |           | 0.10     | mg/Kg |   | 05/06/25 12:54 | 05/08/25 13:02 | 1       |
| Surrogate                   | MB     | MB        | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 99     |           | 48 - 145 |       |   | 05/06/25 12:54 | 05/08/25 13:02 | 1       |

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## QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCS 885-25581/3-A

Matrix: Solid

Analysis Batch: 25731

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25581

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
|                     |             |            |               |       |   |      |             |
| Benzene             | 1.00        | 0.995      |               | mg/Kg |   | 99   | 70 - 130    |
| Ethylbenzene        | 1.00        | 1.01       |               | mg/Kg |   | 101  | 70 - 130    |
| m-Xylene & p-Xylene | 2.00        | 2.03       |               | mg/Kg |   | 102  | 70 - 130    |
| o-Xylene            | 1.00        | 1.02       |               | mg/Kg |   | 102  | 70 - 130    |
| Toluene             | 1.00        | 0.980      |               | mg/Kg |   | 98   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 48 - 145 |

Lab Sample ID: 885-24275-13 MS

Matrix: Solid

Analysis Batch: 25731

Client Sample ID: BS25-31 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
|                     |               |                  |             |           |              |       |   |      |             |
| Benzene             | ND            |                  | 0.999       | 1.01      |              | mg/Kg |   | 101  | 70 - 130    |
| Ethylbenzene        | ND            |                  | 0.999       | 1.04      |              | mg/Kg |   | 104  | 70 - 130    |
| m-Xylene & p-Xylene | ND            |                  | 2.00        | 2.07      |              | mg/Kg |   | 104  | 70 - 130    |
| o-Xylene            | ND            |                  | 0.999       | 1.05      |              | mg/Kg |   | 105  | 70 - 130    |
| Toluene             | ND            |                  | 0.999       | 0.993     |              | mg/Kg |   | 99   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 100          |              | 48 - 145 |

Lab Sample ID: 885-24275-13 MSD

Matrix: Solid

Analysis Batch: 25731

Client Sample ID: BS25-31 (0-2')

Prep Type: Total/NA

Prep Batch: 25581

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD |       |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-------|
|                     |               |                  |             |            |               |       |   |      |             | RPD | Limit |
| Benzene             | ND            |                  | 0.993       | 1.00       |               | mg/Kg |   | 101  | 70 - 130    | 1   | 20    |
| Ethylbenzene        | ND            |                  | 0.993       | 1.04       |               | mg/Kg |   | 104  | 70 - 130    | 0   | 20    |
| m-Xylene & p-Xylene | ND            |                  | 1.99        | 2.06       |               | mg/Kg |   | 104  | 70 - 130    | 0   | 20    |
| o-Xylene            | ND            |                  | 0.993       | 1.04       |               | mg/Kg |   | 105  | 70 - 130    | 0   | 20    |
| Toluene             | ND            |                  | 0.993       | 0.991      |               | mg/Kg |   | 100  | 70 - 130    | 0   | 20    |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 102           |               | 48 - 145 |

Lab Sample ID: MB 885-25670/1-A

Matrix: Solid

Analysis Batch: 25790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25670

| Analyte        | MB Result | MB Qualifier | RL    | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|--------------|-------|-------|---|----------------|----------------|---------|
|                |           |              |       |       |   |                |                |         |
| Benzene        | ND        |              | 0.025 | mg/Kg |   | 05/07/25 12:22 | 05/08/25 23:57 | 1       |
| Ethylbenzene   | ND        |              | 0.050 | mg/Kg |   | 05/07/25 12:22 | 05/08/25 23:57 | 1       |
| Toluene        | ND        |              | 0.050 | mg/Kg |   | 05/07/25 12:22 | 05/08/25 23:57 | 1       |
| Xylenes, Total | ND        |              | 0.10  | mg/Kg |   | 05/07/25 12:22 | 05/08/25 23:57 | 1       |

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## QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-25670/1-A

Matrix: Solid

Analysis Batch: 25790

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25670

| MB MB                       |           | Qualifier | Limits   | Prepared |  | Analyzed       |                | Dil | Fac |
|-----------------------------|-----------|-----------|----------|----------|--|----------------|----------------|-----|-----|
| Surrogate                   | %Recovery |           |          |          |  |                |                |     |     |
| 4-Bromofluorobenzene (Surr) | 100       |           | 48 - 145 |          |  | 05/07/25 12:22 | 05/08/25 23:57 |     | 1   |

Lab Sample ID: LCS 885-25670/3-A

Matrix: Solid

Analysis Batch: 25790

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25670

| Analyte             | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec     |  |
|---------------------|----------------|---------------|------------------|-------|---|------|----------|--|
|                     |                |               |                  |       |   |      | Limits   |  |
| Benzene             | 1.00           | 1.03          |                  | mg/Kg |   | 103  | 70 - 130 |  |
| Ethylbenzene        | 1.00           | 1.00          |                  | mg/Kg |   | 100  | 70 - 130 |  |
| m-Xylene & p-Xylene | 2.00           | 2.14          |                  | mg/Kg |   | 107  | 70 - 130 |  |
| o-Xylene            | 1.00           | 1.01          |                  | mg/Kg |   | 101  | 70 - 130 |  |
| Toluene             | 1.00           | 1.00          |                  | mg/Kg |   | 100  | 70 - 130 |  |

| LCS LCS                     |           | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery |           |          |
| 4-Bromofluorobenzene (Surr) | 104       |           | 48 - 145 |

Lab Sample ID: 885-24275-33 MS

Matrix: Solid

Analysis Batch: 25865

Client Sample ID: BS25-54 (2')

Prep Type: Total/NA

Prep Batch: 25670

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec     |  |
|---------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------|--|
|                     |                  |                     |                |              |                 |       |   |      | Limits   |  |
| Benzene             | ND               |                     | 0.936          | 0.913        |                 | mg/Kg |   | 94   | 70 - 130 |  |
| Ethylbenzene        | 0.31             |                     | 0.936          | 1.28         |                 | mg/Kg |   | 103  | 70 - 130 |  |
| m-Xylene & p-Xylene | 2.0              |                     | 1.87           | 4.03         |                 | mg/Kg |   | 106  | 70 - 130 |  |
| o-Xylene            | ND               |                     | 0.936          | 0.911        |                 | mg/Kg |   | 97   | 70 - 130 |  |
| Toluene             | ND               |                     | 0.936          | 0.926        |                 | mg/Kg |   | 94   | 70 - 130 |  |

| MS MS                       |           | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery |           |          |
| 4-Bromofluorobenzene (Surr) | 128       |           | 48 - 145 |

Lab Sample ID: 885-24275-33 MSD

Matrix: Solid

Analysis Batch: 25865

Client Sample ID: BS25-54 (2')

Prep Type: Total/NA

Prep Batch: 25670

| Analyte             | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec     |  | RPD |       |
|---------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------|--|-----|-------|
|                     |                  |                     |                |               |                  |       |   |      | Limits   |  | RPD | Limit |
| Benzene             | ND               |                     | 0.942          | 0.873         |                  | mg/Kg |   | 90   | 70 - 130 |  | 5   | 20    |
| Ethylbenzene        | 0.31             |                     | 0.942          | 1.24          |                  | mg/Kg |   | 98   | 70 - 130 |  | 3   | 20    |
| m-Xylene & p-Xylene | 2.0              |                     | 1.88           | 4.03          |                  | mg/Kg |   | 106  | 70 - 130 |  | 0   | 20    |
| o-Xylene            | ND               |                     | 0.942          | 0.874         |                  | mg/Kg |   | 93   | 70 - 130 |  | 4   | 20    |
| Toluene             | ND               |                     | 0.942          | 0.883         |                  | mg/Kg |   | 89   | 70 - 130 |  | 5   | 20    |

| MSD MSD                     |           | Qualifier | Limits   |
|-----------------------------|-----------|-----------|----------|
| Surrogate                   | %Recovery |           |          |
| 4-Bromofluorobenzene (Surr) | 117       |           | 48 - 145 |

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## QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-25667/1-A

Matrix: Solid

Analysis Batch: 25662

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25667

| Analyte                            | MB<br>Result    | MB<br>Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|-----------------|-----------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND              |                 | 10       | mg/Kg |   | 05/07/25 12:17 | 05/07/25 16:31 | 1       |
| Motor Oil Range Organics [C28-C40] | ND              |                 | 50       | mg/Kg |   | 05/07/25 12:17 | 05/07/25 16:31 | 1       |
| Surrogate                          | MB<br>%Recovery | MB<br>Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 108             |                 | 62 - 134 |       |   | 05/07/25 12:17 | 05/07/25 16:31 | 1       |

Lab Sample ID: LCS 885-25667/2-A

Matrix: Solid

Analysis Batch: 25662

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25667

| Analyte                         | Spike<br>Added   | LCS<br>Result    | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------------------|------------------|------------------|------------------|-------|---|------|----------------|
| Diesel Range Organics [C10-C28] | 50.0             | 53.9             |                  | mg/Kg |   | 108  | 51 - 148       |
| Surrogate                       | LCS<br>%Recovery | LCS<br>Qualifier | Limits           |       |   |      |                |
| Di-n-octyl phthalate (Surr)     | 114              |                  | 62 - 134         |       |   |      |                |

Lab Sample ID: 885-24275-21 MS

Matrix: Solid

Analysis Batch: 25662

Client Sample ID: BS25-39 (2')

Prep Type: Total/NA

Prep Batch: 25667

| Analyte                         | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|---------------------------------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Diesel Range Organics [C10-C28] | 2600             |                     | 49.0           | 2740         | 4               | mg/Kg |   | 204  | 44 - 136       |
| Surrogate                       | MS<br>%Recovery  | MS<br>Qualifier     | Limits         |              |                 |       |   |      |                |
| Di-n-octyl phthalate (Surr)     | 98               |                     | 62 - 134       |              |                 |       |   |      |                |

Lab Sample ID: 885-24275-21 MSD

Matrix: Solid

Analysis Batch: 25662

Client Sample ID: BS25-39 (2')

Prep Type: Total/NA

Prep Batch: 25667

| Analyte                         | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|---------------------------------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Diesel Range Organics [C10-C28] | 2600             |                     | 46.6           | 2760          | 4                | mg/Kg |   | 276  | 44 - 136       | 1   | 32           |
| Surrogate                       | MSD<br>%Recovery | MSD<br>Qualifier    | Limits         |               |                  |       |   |      |                |     |              |
| Di-n-octyl phthalate (Surr)     | 124              |                     | 62 - 134       |               |                  |       |   |      |                |     |              |

Lab Sample ID: MB 885-25671/1-A

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25671

| Analyte                            | MB<br>Result | MB<br>Qualifier | RL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------------|-----------------|----|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND           |                 | 10 | mg/Kg |   | 05/07/25 12:36 | 05/08/25 09:02 | 1       |
| Motor Oil Range Organics [C28-C40] | ND           |                 | 50 | mg/Kg |   | 05/07/25 12:36 | 05/08/25 09:02 | 1       |

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## QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-25671/1-A

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25671

|                             | MB        | MB        |          |                |                |         |  |  |  |  |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|--|--|--|--|
| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |  |  |  |  |
| Di-n-octyl phthalate (Surr) | 125       |           | 62 - 134 | 05/07/25 12:36 | 05/08/25 09:02 | 1       |  |  |  |  |

Lab Sample ID: LCS 885-25671/2-A

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25671

| Analyte                         |               |               | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
|---------------------------------|---------------|---------------|-------------|------------|---------------|-------|---|------|-------------|--|--|
| Diesel Range Organics [C10-C28] |               |               | 50.0        | 54.5       |               | mg/Kg |   | 109  | 51 - 148    |  |  |
| Surrogate                       | LCS %Recovery | LCS Qualifier | Limits      |            |               |       |   |      |             |  |  |
| Di-n-octyl phthalate (Surr)     | 114           |               | 62 - 134    |            |               |       |   |      |             |  |  |

Lab Sample ID: 885-24275-1 MS

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: BS25-19 (1')

Prep Type: Total/NA

Prep Batch: 25671

| Analyte                         | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |  |  |
|---------------------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|--|--|
| Diesel Range Organics [C10-C28] | ND            |                  | 46.1        | 51.4      |              | mg/Kg |   | 111  | 44 - 136    |  |  |
| Surrogate                       | MS %Recovery  | MS Qualifier     | Limits      |           |              |       |   |      |             |  |  |
| Di-n-octyl phthalate (Surr)     | 123           |                  | 62 - 134    |           |              |       |   |      |             |  |  |

Lab Sample ID: 885-24275-1 MSD

Matrix: Solid

Analysis Batch: 25717

Client Sample ID: BS25-19 (1')

Prep Type: Total/NA

Prep Batch: 25671

| Analyte                         | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Diesel Range Organics [C10-C28] | ND            |                  | 49.8        | 56.3       |               | mg/Kg |   | 113  | 44 - 136    | 9   | 32        |
| Surrogate                       | MSD %Recovery | MSD Qualifier    | Limits      |            |               |       |   |      |             |     |           |
| Di-n-octyl phthalate (Surr)     | 126           |                  | 62 - 134    |            |               |       |   |      |             |     |           |

Lab Sample ID: MB 885-25724/1-A

Matrix: Solid

Analysis Batch: 25716

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25724

| Analyte                            | MB Result    | MB Qualifier | RL       | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|------------------------------------|--------------|--------------|----------|-------|---|----------------|----------------|---------|
| Diesel Range Organics [C10-C28]    | ND           |              | 10       | mg/Kg |   | 05/08/25 09:39 | 05/08/25 15:12 | 1       |
| Motor Oil Range Organics [C28-C40] | ND           |              | 50       | mg/Kg |   | 05/08/25 09:39 | 05/08/25 15:12 | 1       |
| Surrogate                          | MB %Recovery | MB Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| Di-n-octyl phthalate (Surr)        | 113          |              | 62 - 134 |       |   | 05/08/25 09:39 | 05/08/25 15:12 | 1       |

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## QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 885-25724/2-A

Matrix: Solid

Analysis Batch: 25716

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25724

|                             |           |           | Spike    | LCS    | LCS       |       |   |      | %Rec     |  |  |
|-----------------------------|-----------|-----------|----------|--------|-----------|-------|---|------|----------|--|--|
| Analyte                     |           |           | Added    | Result | Qualifier | Unit  | D | %Rec | Limits   |  |  |
| Diesel Range Organics       |           |           | 50.0     | 42.9   |           | mg/Kg |   | 86   | 51 - 148 |  |  |
| [C10-C28]                   |           |           |          |        |           |       |   |      |          |  |  |
|                             |           |           | LCS      | LCS    |           |       |   |      |          |  |  |
| Surrogate                   | %Recovery | Qualifier | Limits   |        |           |       |   |      |          |  |  |
| Di-n-octyl phthalate (Surr) | 107       |           | 62 - 134 |        |           |       |   |      |          |  |  |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-25616/1-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25616

| Analyte  | MB Result | MB Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-------|---|----------------|----------------|---------|
| Chloride | ND        |              | 1.5 | mg/Kg |   | 05/07/25 06:22 | 05/07/25 08:28 | 1       |

Lab Sample ID: LCS 885-25616/2-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25616

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 15.0        | 14.2       |               | mg/Kg |   | 95   | 90 - 110    |

Lab Sample ID: MB 885-25625/1-A

Matrix: Solid

Analysis Batch: 25638

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25625

| Analyte  | MB Result | MB Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|-----------|--------------|-----|-------|---|----------------|----------------|---------|
| Chloride | ND        |              | 1.5 | mg/Kg |   | 05/07/25 08:40 | 05/07/25 10:12 | 1       |

Lab Sample ID: LCS 885-25625/2-A

Matrix: Solid

Analysis Batch: 25638

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25625

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|-------------|------------|---------------|-------|---|------|-------------|
| Chloride | 15.0        | 14.6       |               | mg/Kg |   | 97   | 90 - 110    |

Lab Sample ID: 885-24275-3 MS

Matrix: Solid

Analysis Batch: 25638

Client Sample ID: BS25-21 (1')

Prep Type: Total/NA

Prep Batch: 25625

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Chloride | 75            |                  | 29.8        | 105       |              | mg/Kg |   | 100  | 50 - 150    |

Lab Sample ID: 885-24275-3 MSD

Matrix: Solid

Analysis Batch: 25638

Client Sample ID: BS25-21 (1')

Prep Type: Total/NA

Prep Batch: 25625

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Chloride | 75            |                  | 30.2        | 104        |               | mg/Kg |   | 96   | 50 - 150    | 1   | 20        |

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## QC Sample Results

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 885-25639/1-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25639

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|-------|---|----------------|----------------|---------|
| Chloride | ND           |                 | 1.5 | mg/Kg |   | 05/07/25 09:48 | 05/07/25 13:53 | 1       |

Lab Sample ID: LCS 885-25639/2-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25639

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 15.0           | 14.5          |                  | mg/Kg |   | 97   | 90 - 110       |

Lab Sample ID: 885-24275-20 MS

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: BS25-38 (2')

Prep Type: Total/NA

Prep Batch: 25639

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | ND               |                     | 29.9           | 66.5         |                 | mg/Kg |   | NC   | 50 - 150       |

Lab Sample ID: 885-24275-20 MSD

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: BS25-38 (2')

Prep Type: Total/NA

Prep Batch: 25639

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | ND               |                     | 29.9           | 66.9          |                  | mg/Kg |   | NC   | 50 - 150       | 1   | 20           |

Lab Sample ID: 885-24275-21 MS

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: BS25-39 (2')

Prep Type: Total/NA

Prep Batch: 25639

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 180              |                     | 30.2           | 201          | 4               | mg/Kg |   | 80   | 50 - 150       |

Lab Sample ID: 885-24275-21 MSD

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: BS25-39 (2')

Prep Type: Total/NA

Prep Batch: 25639

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 180              |                     | 30.1           | 212           | 4                | mg/Kg |   | 116  | 50 - 150       | 5   | 20           |

Lab Sample ID: MB 885-25679/1-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 25679

| Analyte  | MB<br>Result | MB<br>Qualifier | RL  | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|----------|--------------|-----------------|-----|-------|---|----------------|----------------|---------|
| Chloride | ND           |                 | 1.5 | mg/Kg |   | 05/07/25 13:57 | 05/07/25 14:25 | 1       |

Lab Sample ID: LCS 885-25679/2-A

Matrix: Solid

Analysis Batch: 25622

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 25679

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 15.0           | 14.5          |                  | mg/Kg |   | 97   | 90 - 110       |

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QC Sample Results

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Method: 300.0 - Anions, Ion Chromatography

|                                |               |                  |             |           |                                |       |   |      |             |
|--------------------------------|---------------|------------------|-------------|-----------|--------------------------------|-------|---|------|-------------|
| Lab Sample ID: 885-24275-32 MS |               |                  |             |           | Client Sample ID: BS25-53 (2') |       |   |      |             |
| Matrix: Solid                  |               |                  |             |           | Prep Type: Total/NA            |       |   |      |             |
| Analysis Batch: 25622          |               |                  |             |           | Prep Batch: 25679              |       |   |      |             |
| Analyte                        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier                   | Unit  | D | %Rec | %Rec Limits |
| Chloride                       | 1300          |                  | 29.9        | 1310      | 4                              | mg/Kg |   | 61   | 50 - 150    |

|                                |               |                  |             |           |                                |       |   |      |             |
|--------------------------------|---------------|------------------|-------------|-----------|--------------------------------|-------|---|------|-------------|
| Lab Sample ID: 885-24275-33 MS |               |                  |             |           | Client Sample ID: BS25-54 (2') |       |   |      |             |
| Matrix: Solid                  |               |                  |             |           | Prep Type: Total/NA            |       |   |      |             |
| Analysis Batch: 25622          |               |                  |             |           | Prep Batch: 25679              |       |   |      |             |
| Analyte                        | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier                   | Unit  | D | %Rec | %Rec Limits |
| Chloride                       | 830           |                  | 30.1        | 857       | 4                              | mg/Kg |   | 98   | 50 - 150    |

QC Association Summary

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

GC VOA

Prep Batch: 25569

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-1       | BS25-19 (1')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-2       | BS25-20 (1')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-3       | BS25-21 (1')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-4       | BS25-22 (1')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-5       | BS25-23 (1')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-6       | BS25-24 (1')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-7       | BS25-25 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-8       | BS25-26 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-9       | BS25-27 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-10      | BS25-28 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-11      | BS25-29 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| MB 885-25569/1-A  | Method Blank       | Total/NA  | Solid  | 5030C  |            |
| LCS 885-25569/2-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |
| LCS 885-25569/3-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |

Prep Batch: 25581

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-12      | BS25-30 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-13      | BS25-31 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-14      | BS25-32 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-15      | BS25-33 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-16      | BS25-34 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-17      | BS25-35 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-18      | BS25-36 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-19      | BS25-37 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-20      | BS25-38 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-21      | BS25-39 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-22      | BS25-40 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-23      | BS25-41 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-24      | BS25-43 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-25      | BS25-45 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-26      | BS25-46 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-27      | BS25-48 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-28      | BS25-49 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-29      | BS25-50 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-30      | BS25-51 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-31      | BS25-52 (2')       | Total/NA  | Solid  | 5030C  |            |
| MB 885-25581/1-A  | Method Blank       | Total/NA  | Solid  | 5030C  |            |
| LCS 885-25581/2-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |
| LCS 885-25581/3-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |
| 885-24275-12 MS   | BS25-30 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-12 MSD  | BS25-30 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-13 MS   | BS25-31 (0-2')     | Total/NA  | Solid  | 5030C  |            |
| 885-24275-13 MSD  | BS25-31 (0-2')     | Total/NA  | Solid  | 5030C  |            |

Analysis Batch: 25650

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 885-24275-1   | BS25-19 (1')     | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-2   | BS25-20 (1')     | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-3   | BS25-21 (1')     | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-4   | BS25-22 (1')     | Total/NA  | Solid  | 8015M/D | 25569      |

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## QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## GC VOA (Continued)

## Analysis Batch: 25650 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-24275-5       | BS25-23 (1')       | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-6       | BS25-24 (1')       | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-7       | BS25-25 (0-2')     | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-8       | BS25-26 (0-2')     | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-9       | BS25-27 (0-2')     | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-10      | BS25-28 (0-2')     | Total/NA  | Solid  | 8015M/D | 25569      |
| 885-24275-11      | BS25-29 (0-2')     | Total/NA  | Solid  | 8015M/D | 25569      |
| MB 885-25569/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 25569      |
| LCS 885-25569/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 25569      |

## Analysis Batch: 25651

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-1       | BS25-19 (1')       | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-2       | BS25-20 (1')       | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-3       | BS25-21 (1')       | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-4       | BS25-22 (1')       | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-5       | BS25-23 (1')       | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-6       | BS25-24 (1')       | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-7       | BS25-25 (0-2')     | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-8       | BS25-26 (0-2')     | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-9       | BS25-27 (0-2')     | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-10      | BS25-28 (0-2')     | Total/NA  | Solid  | 8021B  | 25569      |
| 885-24275-11      | BS25-29 (0-2')     | Total/NA  | Solid  | 8021B  | 25569      |
| MB 885-25569/1-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 25569      |
| LCS 885-25569/3-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 25569      |

## Prep Batch: 25670

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-32      | BS25-53 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-33      | BS25-54 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-34      | BS25-55 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-35      | BS25-56 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-36      | BS25-57 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-37      | BS25-58 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-38      | BS25-59 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-39      | BS25-60 (2')       | Total/NA  | Solid  | 5030C  |            |
| MB 885-25670/1-A  | Method Blank       | Total/NA  | Solid  | 5030C  |            |
| LCS 885-25670/2-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |
| LCS 885-25670/3-A | Lab Control Sample | Total/NA  | Solid  | 5030C  |            |
| 885-24275-32 MS   | BS25-53 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-32 MSD  | BS25-53 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-33 MS   | BS25-54 (2')       | Total/NA  | Solid  | 5030C  |            |
| 885-24275-33 MSD  | BS25-54 (2')       | Total/NA  | Solid  | 5030C  |            |

## Analysis Batch: 25730

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 885-24275-12  | BS25-30 (0-2')   | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-13  | BS25-31 (0-2')   | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-14  | BS25-32 (2')     | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-15  | BS25-33 (2')     | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-16  | BS25-34 (2')     | Total/NA  | Solid  | 8015M/D | 25581      |

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## QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## GC VOA (Continued)

## Analysis Batch: 25730 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-24275-17      | BS25-35 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-18      | BS25-36 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-19      | BS25-37 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-20      | BS25-38 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-21      | BS25-39 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-22      | BS25-40 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-23      | BS25-41 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-24      | BS25-43 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-25      | BS25-45 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-26      | BS25-46 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-27      | BS25-48 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-28      | BS25-49 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-29      | BS25-50 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-30      | BS25-51 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-31      | BS25-52 (2')       | Total/NA  | Solid  | 8015M/D | 25581      |
| MB 885-25581/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 25581      |
| LCS 885-25581/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-12 MS   | BS25-30 (0-2')     | Total/NA  | Solid  | 8015M/D | 25581      |
| 885-24275-12 MSD  | BS25-30 (0-2')     | Total/NA  | Solid  | 8015M/D | 25581      |

## Analysis Batch: 25731

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-12      | BS25-30 (0-2')     | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-13      | BS25-31 (0-2')     | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-14      | BS25-32 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-15      | BS25-33 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-16      | BS25-34 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-17      | BS25-35 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-18      | BS25-36 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-19      | BS25-37 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-20      | BS25-38 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-21      | BS25-39 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-22      | BS25-40 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-23      | BS25-41 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-24      | BS25-43 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-25      | BS25-45 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-26      | BS25-46 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-27      | BS25-48 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-28      | BS25-49 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-29      | BS25-50 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-30      | BS25-51 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-31      | BS25-52 (2')       | Total/NA  | Solid  | 8021B  | 25581      |
| MB 885-25581/1-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 25581      |
| LCS 885-25581/3-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-13 MS   | BS25-31 (0-2')     | Total/NA  | Solid  | 8021B  | 25581      |
| 885-24275-13 MSD  | BS25-31 (0-2')     | Total/NA  | Solid  | 8021B  | 25581      |

## Analysis Batch: 25790

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-24275-32  | BS25-53 (2')     | Total/NA  | Solid  | 8021B  | 25670      |
| 885-24275-34  | BS25-55 (2')     | Total/NA  | Solid  | 8021B  | 25670      |

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## QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## GC VOA (Continued)

## Analysis Batch: 25790 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-35      | BS25-56 (2')       | Total/NA  | Solid  | 8021B  | 25670      |
| 885-24275-37      | BS25-58 (2')       | Total/NA  | Solid  | 8021B  | 25670      |
| 885-24275-38      | BS25-59 (2')       | Total/NA  | Solid  | 8021B  | 25670      |
| 885-24275-39      | BS25-60 (2')       | Total/NA  | Solid  | 8021B  | 25670      |
| MB 885-25670/1-A  | Method Blank       | Total/NA  | Solid  | 8021B  | 25670      |
| LCS 885-25670/3-A | Lab Control Sample | Total/NA  | Solid  | 8021B  | 25670      |

## Analysis Batch: 25791

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-24275-32      | BS25-53 (2')       | Total/NA  | Solid  | 8015M/D | 25670      |
| 885-24275-34      | BS25-55 (2')       | Total/NA  | Solid  | 8015M/D | 25670      |
| 885-24275-35      | BS25-56 (2')       | Total/NA  | Solid  | 8015M/D | 25670      |
| 885-24275-37      | BS25-58 (2')       | Total/NA  | Solid  | 8015M/D | 25670      |
| 885-24275-38      | BS25-59 (2')       | Total/NA  | Solid  | 8015M/D | 25670      |
| 885-24275-39      | BS25-60 (2')       | Total/NA  | Solid  | 8015M/D | 25670      |
| MB 885-25670/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 25670      |
| LCS 885-25670/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 25670      |
| 885-24275-32 MS   | BS25-53 (2')       | Total/NA  | Solid  | 8015M/D | 25670      |
| 885-24275-32 MSD  | BS25-53 (2')       | Total/NA  | Solid  | 8015M/D | 25670      |

## Analysis Batch: 25865

| Lab Sample ID    | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------|-----------|--------|--------|------------|
| 885-24275-33     | BS25-54 (2')     | Total/NA  | Solid  | 8021B  | 25670      |
| 885-24275-36     | BS25-57 (2')     | Total/NA  | Solid  | 8021B  | 25670      |
| 885-24275-33 MS  | BS25-54 (2')     | Total/NA  | Solid  | 8021B  | 25670      |
| 885-24275-33 MSD | BS25-54 (2')     | Total/NA  | Solid  | 8021B  | 25670      |

## Analysis Batch: 25866

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 885-24275-33  | BS25-54 (2')     | Total/NA  | Solid  | 8015M/D | 25670      |
| 885-24275-36  | BS25-57 (2')     | Total/NA  | Solid  | 8015M/D | 25670      |

## GC Semi VOA

## Analysis Batch: 25662

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-24275-21      | BS25-39 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-30      | BS25-51 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-31      | BS25-52 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| MB 885-25667/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 25667      |
| LCS 885-25667/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-21 MS   | BS25-39 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-21 MSD  | BS25-39 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |

## Prep Batch: 25667

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-24275-21  | BS25-39 (2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-22  | BS25-40 (2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-23  | BS25-41 (2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-24  | BS25-43 (2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-25  | BS25-45 (2')     | Total/NA  | Solid  | SHAKE  |            |

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## QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## GC Semi VOA (Continued)

## Prep Batch: 25667 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-26      | BS25-46 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-27      | BS25-48 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-28      | BS25-49 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-29      | BS25-50 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-30      | BS25-51 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-31      | BS25-52 (2')       | Total/NA  | Solid  | SHAKE  |            |
| MB 885-25667/1-A  | Method Blank       | Total/NA  | Solid  | SHAKE  |            |
| LCS 885-25667/2-A | Lab Control Sample | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-21 MS   | BS25-39 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-21 MSD  | BS25-39 (2')       | Total/NA  | Solid  | SHAKE  |            |

## Prep Batch: 25671

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-1       | BS25-19 (1')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-2       | BS25-20 (1')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-3       | BS25-21 (1')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-4       | BS25-22 (1')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-5       | BS25-23 (1')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-6       | BS25-24 (1')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-7       | BS25-25 (0-2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-8       | BS25-26 (0-2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-9       | BS25-27 (0-2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-10      | BS25-28 (0-2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-11      | BS25-29 (0-2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-12      | BS25-30 (0-2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-13      | BS25-31 (0-2')     | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-14      | BS25-32 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-15      | BS25-33 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-16      | BS25-34 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-17      | BS25-35 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-18      | BS25-36 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-19      | BS25-37 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-20      | BS25-38 (2')       | Total/NA  | Solid  | SHAKE  |            |
| MB 885-25671/1-A  | Method Blank       | Total/NA  | Solid  | SHAKE  |            |
| LCS 885-25671/2-A | Lab Control Sample | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-1 MS    | BS25-19 (1')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-1 MSD   | BS25-19 (1')       | Total/NA  | Solid  | SHAKE  |            |

## Analysis Batch: 25716

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 885-24275-4   | BS25-22 (1')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-5   | BS25-23 (1')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-6   | BS25-24 (1')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-7   | BS25-25 (0-2')   | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-8   | BS25-26 (0-2')   | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-10  | BS25-28 (0-2')   | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-12  | BS25-30 (0-2')   | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-15  | BS25-33 (2')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-16  | BS25-34 (2')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-17  | BS25-35 (2')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-18  | BS25-36 (2')     | Total/NA  | Solid  | 8015M/D | 25671      |

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## QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## GC Semi VOA (Continued)

## Analysis Batch: 25716 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-24275-22      | BS25-40 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-23      | BS25-41 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-24      | BS25-43 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-25      | BS25-45 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-26      | BS25-46 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-27      | BS25-48 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-28      | BS25-49 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| 885-24275-29      | BS25-50 (2')       | Total/NA  | Solid  | 8015M/D | 25667      |
| MB 885-25724/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 25724      |
| LCS 885-25724/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 25724      |

## Analysis Batch: 25717

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method  | Prep Batch |
|-------------------|--------------------|-----------|--------|---------|------------|
| 885-24275-1       | BS25-19 (1')       | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-2       | BS25-20 (1')       | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-3       | BS25-21 (1')       | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-9       | BS25-27 (0-2')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-11      | BS25-29 (0-2')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-13      | BS25-31 (0-2')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-14      | BS25-32 (2')       | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-19      | BS25-37 (2')       | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-32      | BS25-53 (2')       | Total/NA  | Solid  | 8015M/D | 25724      |
| 885-24275-33      | BS25-54 (2')       | Total/NA  | Solid  | 8015M/D | 25724      |
| 885-24275-34      | BS25-55 (2')       | Total/NA  | Solid  | 8015M/D | 25724      |
| 885-24275-36      | BS25-57 (2')       | Total/NA  | Solid  | 8015M/D | 25724      |
| 885-24275-37      | BS25-58 (2')       | Total/NA  | Solid  | 8015M/D | 25724      |
| MB 885-25671/1-A  | Method Blank       | Total/NA  | Solid  | 8015M/D | 25671      |
| LCS 885-25671/2-A | Lab Control Sample | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-1 MS    | BS25-19 (1')       | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-1 MSD   | BS25-19 (1')       | Total/NA  | Solid  | 8015M/D | 25671      |

## Prep Batch: 25724

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-32      | BS25-53 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-33      | BS25-54 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-34      | BS25-55 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-35      | BS25-56 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-36      | BS25-57 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-37      | BS25-58 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-38      | BS25-59 (2')       | Total/NA  | Solid  | SHAKE  |            |
| 885-24275-39      | BS25-60 (2')       | Total/NA  | Solid  | SHAKE  |            |
| MB 885-25724/1-A  | Method Blank       | Total/NA  | Solid  | SHAKE  |            |
| LCS 885-25724/2-A | Lab Control Sample | Total/NA  | Solid  | SHAKE  |            |

## Analysis Batch: 25990

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 885-24275-20  | BS25-38 (2')     | Total/NA  | Solid  | 8015M/D | 25671      |
| 885-24275-35  | BS25-56 (2')     | Total/NA  | Solid  | 8015M/D | 25724      |
| 885-24275-38  | BS25-59 (2')     | Total/NA  | Solid  | 8015M/D | 25724      |
| 885-24275-39  | BS25-60 (2')     | Total/NA  | Solid  | 8015M/D | 25724      |

Eurofins Albuquerque

## QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## HPLC/IC

## Prep Batch: 25616

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 885-24275-1       | BS25-19 (1')       | Total/NA  | Solid  | 300_Prep |            |
| MB 885-25616/1-A  | Method Blank       | Total/NA  | Solid  | 300_Prep |            |
| LCS 885-25616/2-A | Lab Control Sample | Total/NA  | Solid  | 300_Prep |            |

## Analysis Batch: 25622

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-1       | BS25-19 (1')       | Total/NA  | Solid  | 300.0  | 25616      |
| 885-24275-20      | BS25-38 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-21      | BS25-39 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-22      | BS25-40 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-23      | BS25-41 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-24      | BS25-43 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-25      | BS25-45 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-26      | BS25-46 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-27      | BS25-48 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-28      | BS25-49 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-29      | BS25-50 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-30      | BS25-51 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-31      | BS25-52 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-32      | BS25-53 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-33      | BS25-54 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-34      | BS25-55 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-35      | BS25-56 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-36      | BS25-57 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-37      | BS25-58 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-38      | BS25-59 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-39      | BS25-60 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| MB 885-25616/1-A  | Method Blank       | Total/NA  | Solid  | 300.0  | 25616      |
| MB 885-25639/1-A  | Method Blank       | Total/NA  | Solid  | 300.0  | 25639      |
| MB 885-25679/1-A  | Method Blank       | Total/NA  | Solid  | 300.0  | 25679      |
| LCS 885-25616/2-A | Lab Control Sample | Total/NA  | Solid  | 300.0  | 25616      |
| LCS 885-25639/2-A | Lab Control Sample | Total/NA  | Solid  | 300.0  | 25639      |
| LCS 885-25679/2-A | Lab Control Sample | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-20 MS   | BS25-38 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-20 MSD  | BS25-38 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-21 MS   | BS25-39 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-21 MSD  | BS25-39 (2')       | Total/NA  | Solid  | 300.0  | 25639      |
| 885-24275-32 MS   | BS25-53 (2')       | Total/NA  | Solid  | 300.0  | 25679      |
| 885-24275-33 MS   | BS25-54 (2')       | Total/NA  | Solid  | 300.0  | 25679      |

## Prep Batch: 25625

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 885-24275-2   | BS25-20 (1')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-3   | BS25-21 (1')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-4   | BS25-22 (1')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-5   | BS25-23 (1')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-6   | BS25-24 (1')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-7   | BS25-25 (0-2')   | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-8   | BS25-26 (0-2')   | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-9   | BS25-27 (0-2')   | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-10  | BS25-28 (0-2')   | Total/NA  | Solid  | 300_Prep |            |

Eurofins Albuquerque

## QC Association Summary

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

## HPLC/IC (Continued)

## Prep Batch: 25625 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 885-24275-11      | BS25-29 (0-2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-12      | BS25-30 (0-2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-13      | BS25-31 (0-2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-14      | BS25-32 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-15      | BS25-33 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-16      | BS25-34 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-17      | BS25-35 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-18      | BS25-36 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-19      | BS25-37 (2')       | Total/NA  | Solid  | 300_Prep |            |
| MB 885-25625/1-A  | Method Blank       | Total/NA  | Solid  | 300_Prep |            |
| LCS 885-25625/2-A | Lab Control Sample | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-3 MS    | BS25-21 (1')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-3 MSD   | BS25-21 (1')       | Total/NA  | Solid  | 300_Prep |            |

## Analysis Batch: 25638

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 885-24275-2       | BS25-20 (1')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-3       | BS25-21 (1')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-4       | BS25-22 (1')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-5       | BS25-23 (1')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-7       | BS25-25 (0-2')     | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-8       | BS25-26 (0-2')     | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-9       | BS25-27 (0-2')     | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-10      | BS25-28 (0-2')     | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-11      | BS25-29 (0-2')     | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-12      | BS25-30 (0-2')     | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-13      | BS25-31 (0-2')     | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-14      | BS25-32 (2')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-15      | BS25-33 (2')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-16      | BS25-34 (2')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-17      | BS25-35 (2')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-18      | BS25-36 (2')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-19      | BS25-37 (2')       | Total/NA  | Solid  | 300.0  | 25625      |
| MB 885-25625/1-A  | Method Blank       | Total/NA  | Solid  | 300.0  | 25625      |
| LCS 885-25625/2-A | Lab Control Sample | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-3 MS    | BS25-21 (1')       | Total/NA  | Solid  | 300.0  | 25625      |
| 885-24275-3 MSD   | BS25-21 (1')       | Total/NA  | Solid  | 300.0  | 25625      |

## Prep Batch: 25639

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method   | Prep Batch |
|---------------|------------------|-----------|--------|----------|------------|
| 885-24275-20  | BS25-38 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-21  | BS25-39 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-22  | BS25-40 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-23  | BS25-41 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-24  | BS25-43 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-25  | BS25-45 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-26  | BS25-46 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-27  | BS25-48 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-28  | BS25-49 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-29  | BS25-50 (2')     | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-30  | BS25-51 (2')     | Total/NA  | Solid  | 300_Prep |            |

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QC Association Summary

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

HPLC/IC (Continued)

Prep Batch: 25639 (Continued)

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 885-24275-31      | BS25-52 (2')       | Total/NA  | Solid  | 300_Prep |            |
| MB 885-25639/1-A  | Method Blank       | Total/NA  | Solid  | 300_Prep |            |
| LCS 885-25639/2-A | Lab Control Sample | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-20 MS   | BS25-38 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-20 MSD  | BS25-38 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-21 MS   | BS25-39 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-21 MSD  | BS25-39 (2')       | Total/NA  | Solid  | 300_Prep |            |

Prep Batch: 25679

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|--------------------|-----------|--------|----------|------------|
| 885-24275-32      | BS25-53 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-33      | BS25-54 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-34      | BS25-55 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-35      | BS25-56 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-36      | BS25-57 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-37      | BS25-58 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-38      | BS25-59 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-39      | BS25-60 (2')       | Total/NA  | Solid  | 300_Prep |            |
| MB 885-25679/1-A  | Method Blank       | Total/NA  | Solid  | 300_Prep |            |
| LCS 885-25679/2-A | Lab Control Sample | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-32 MS   | BS25-53 (2')       | Total/NA  | Solid  | 300_Prep |            |
| 885-24275-33 MS   | BS25-54 (2')       | Total/NA  | Solid  | 300_Prep |            |

Analysis Batch: 25799

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 885-24275-6   | BS25-24 (1')     | Total/NA  | Solid  | 300.0  | 25625      |



Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-19 (1')

Lab Sample ID: 885-24275-1

Date Collected: 05/02/25 10:10

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 17:25       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 17:25       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25717        | EM      | EET ALB | 05/08/25 09:22       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25616        | JT      | EET ALB | 05/07/25 06:22       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 13:43       |

Client Sample ID: BS25-20 (1')

Lab Sample ID: 885-24275-2

Date Collected: 05/02/25 10:15

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 18:08       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 18:08       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25717        | EM      | EET ALB | 05/08/25 09:54       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 10:55       |

Client Sample ID: BS25-21 (1')

Lab Sample ID: 885-24275-3

Date Collected: 05/02/25 10:20

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 18:30       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 18:30       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 5               | 25717        | EM      | EET ALB | 05/08/25 10:04       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 11:25       |

Client Sample ID: BS25-22 (1')

Lab Sample ID: 885-24275-4

Date Collected: 05/02/25 10:25

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 18:51       |

Eurofins Albuquerque

## Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-22 (1')

Lab Sample ID: 885-24275-4

Date Collected: 05/02/25 10:25

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 18:51       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 09:28       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 12:14       |

Client Sample ID: BS25-23 (1')

Lab Sample ID: 885-24275-5

Date Collected: 05/02/25 10:30

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 19:13       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 19:13       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 09:52       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 12:24       |

Client Sample ID: BS25-24 (1')

Lab Sample ID: 885-24275-6

Date Collected: 05/02/25 10:35

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 19:35       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 19:35       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 20              | 25716        | MI      | EET ALB | 05/09/25 10:15       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 50              | 25799        | RC      | EET ALB | 05/09/25 10:40       |

Client Sample ID: BS25-25 (0-2')

Lab Sample ID: 885-24275-7

Date Collected: 05/02/25 10:40

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 19:56       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 19:56       |

Eurofins Albuquerque

Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-25 (0-2')  
Date Collected: 05/02/25 10:40  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-7  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 11:02       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 12:43       |

Client Sample ID: BS25-26 (0-2')  
Date Collected: 05/02/25 10:45  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-8  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 20:18       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 20:18       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 11:25       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 12:53       |

Client Sample ID: BS25-27 (0-2')  
Date Collected: 05/02/25 10:50  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-9  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 20:40       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 20:40       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25717        | EM      | EET ALB | 05/08/25 11:18       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 13:03       |

Client Sample ID: BS25-28 (0-2')  
Date Collected: 05/02/25 10:55  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-10  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 21:02       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 21:02       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 11:49       |

Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-28 (0-2')

Date Collected: 05/02/25 10:55

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-10

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 13:13       |

Client Sample ID: BS25-29 (0-2')

Date Collected: 05/02/25 11:00

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-11

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25650        | AT      | EET ALB | 05/07/25 21:24       |
| Total/NA  | Prep       | 5030C        |     |                 | 25569        | AT      | EET ALB | 05/06/25 11:52       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25651        | AT      | EET ALB | 05/07/25 21:24       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25717        | EM      | EET ALB | 05/08/25 11:40       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 13:23       |

Client Sample ID: BS25-30 (0-2')

Date Collected: 05/02/25 11:05

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-12

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 13:24       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 13:24       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 12:36       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 13:33       |

Client Sample ID: BS25-31 (0-2')

Date Collected: 05/02/25 11:10

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-13

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 14:29       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 14:29       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25717        | EM      | EET ALB | 05/08/25 12:01       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 13:42       |

## Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-32 (2')

Lab Sample ID: 885-24275-14

Date Collected: 05/02/25 11:15

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 15:34       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 15:34       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 2               | 25717        | EM      | EET ALB | 05/08/25 12:12       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 14:12       |

Client Sample ID: BS25-33 (2')

Lab Sample ID: 885-24275-15

Date Collected: 05/02/25 11:20

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 15:56       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 15:56       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 12:59       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 14:22       |

Client Sample ID: BS25-34 (2')

Lab Sample ID: 885-24275-16

Date Collected: 05/02/25 11:25

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 16:17       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 16:17       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 13:47       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 14:32       |

Client Sample ID: BS25-35 (2')

Lab Sample ID: 885-24275-17

Date Collected: 05/02/25 11:30

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 16:39       |

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## Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-35 (2')

Lab Sample ID: 885-24275-17

Date Collected: 05/02/25 11:30

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 16:39       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 18:56       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 14:41       |

Client Sample ID: BS25-36 (2')

Lab Sample ID: 885-24275-18

Date Collected: 05/02/25 11:35

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 17:01       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 17:01       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 2               | 25716        | MI      | EET ALB | 05/09/25 19:19       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 14:51       |

Client Sample ID: BS25-37 (2')

Lab Sample ID: 885-24275-19

Date Collected: 05/02/25 11:40

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 17:22       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 17:22       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25717        | EM      | EET ALB | 05/08/25 13:07       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25625        | RC      | EET ALB | 05/07/25 08:40       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25638        | RC      | EET ALB | 05/07/25 15:01       |

Client Sample ID: BS25-38 (2')

Lab Sample ID: 885-24275-20

Date Collected: 05/02/25 11:45

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 17:44       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 17:44       |

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Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-38 (2')

Lab Sample ID: 885-24275-20

Date Collected: 05/02/25 11:45

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | SHAKE        |     |                 | 25671        | MI      | EET ALB | 05/07/25 12:36       |
| Total/NA  | Analysis   | 8015M/D      |     | 2               | 25990        | MI      | EET ALB | 05/13/25 14:12       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 15:20       |

Client Sample ID: BS25-39 (2')

Lab Sample ID: 885-24275-21

Date Collected: 05/02/25 11:50

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 18:06       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 18:06       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 5               | 25662        | EM      | EET ALB | 05/07/25 16:52       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 15:51       |

Client Sample ID: BS25-40 (2')

Lab Sample ID: 885-24275-22

Date Collected: 05/02/25 11:55

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 5               | 25730        | AT      | EET ALB | 05/08/25 18:49       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 5               | 25731        | AT      | EET ALB | 05/08/25 18:49       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25716        | MI      | EET ALB | 05/09/25 05:37       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 16:22       |

Client Sample ID: BS25-41 (2')

Lab Sample ID: 885-24275-23

Date Collected: 05/02/25 12:00

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 5               | 25730        | AT      | EET ALB | 05/08/25 19:11       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 5               | 25731        | AT      | EET ALB | 05/08/25 19:11       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25716        | MI      | EET ALB | 05/09/25 06:00       |

Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-41 (2')  
Date Collected: 05/02/25 12:00  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-23  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 16:33       |

Client Sample ID: BS25-43 (2')  
Date Collected: 05/02/25 12:05  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-24  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 19:32       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 19:32       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 08:19       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 16:43       |

Client Sample ID: BS25-45 (2')  
Date Collected: 05/02/25 12:10  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-25  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 19:54       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 19:54       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25716        | MI      | EET ALB | 05/09/25 06:23       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 16:53       |

Client Sample ID: BS25-46 (2')  
Date Collected: 05/02/25 12:15  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-26  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 20:16       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 20:16       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25716        | MI      | EET ALB | 05/09/25 06:46       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 17:24       |

Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-48 (2')  
Date Collected: 05/02/25 12:20  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-27  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 20:38       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 20:38       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25716        | MI      | EET ALB | 05/09/25 07:09       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 17:35       |

Client Sample ID: BS25-49 (2')  
Date Collected: 05/02/25 12:25  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-28  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 21:00       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 21:00       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 07:32       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 17:45       |

Client Sample ID: BS25-50 (2')  
Date Collected: 05/02/25 12:30  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-29  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 21:21       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 21:21       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25716        | MI      | EET ALB | 05/09/25 07:55       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 17:55       |

Client Sample ID: BS25-51 (2')  
Date Collected: 05/02/25 12:35  
Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-30  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 21:43       |

Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-51 (2')

Lab Sample ID: 885-24275-30

Date Collected: 05/02/25 12:35

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 21:43       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25662        | EM      | EET ALB | 05/07/25 20:39       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 18:06       |

Client Sample ID: BS25-52 (2')

Lab Sample ID: 885-24275-31

Date Collected: 05/02/25 12:40

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25730        | AT      | EET ALB | 05/08/25 22:05       |
| Total/NA  | Prep       | 5030C        |     |                 | 25581        | JP      | EET ALB | 05/06/25 12:54       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25731        | AT      | EET ALB | 05/08/25 22:05       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25667        | MI      | EET ALB | 05/07/25 12:17       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25662        | EM      | EET ALB | 05/07/25 20:50       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25639        | RC      | EET ALB | 05/07/25 09:48       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 18:16       |

Client Sample ID: BS25-53 (2')

Lab Sample ID: 885-24275-32

Date Collected: 05/02/25 12:45

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25791        | JP      | EET ALB | 05/09/25 00:21       |
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25790        | JP      | EET ALB | 05/09/25 00:21       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25724        | MI      | EET ALB | 05/08/25 09:39       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25717        | EM      | EET ALB | 05/08/25 22:23       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25679        | RC      | EET ALB | 05/07/25 13:57       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 18:57       |

Client Sample ID: BS25-54 (2')

Lab Sample ID: 885-24275-33

Date Collected: 05/02/25 12:50

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 2               | 25866        | JP      | EET ALB | 05/09/25 19:34       |
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8021B        |     | 2               | 25865        | JP      | EET ALB | 05/09/25 19:34       |

Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Client Sample ID: BS25-54 (2')

Date Collected: 05/02/25 12:50

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-33

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | SHAKE        |     |                 | 25724        | MI      | EET ALB | 05/08/25 09:39       |
| Total/NA  | Analysis   | 8015M/D      |     | 5               | 25717        | EM      | EET ALB | 05/08/25 22:34       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25679        | RC      | EET ALB | 05/07/25 13:57       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 19:49       |

Client Sample ID: BS25-55 (2')

Date Collected: 05/02/25 12:55

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-34

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 2               | 25791        | JP      | EET ALB | 05/09/25 03:07       |
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8021B        |     | 2               | 25790        | JP      | EET ALB | 05/09/25 03:07       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25724        | MI      | EET ALB | 05/08/25 09:39       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25717        | EM      | EET ALB | 05/08/25 22:45       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25679        | RC      | EET ALB | 05/07/25 13:57       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 20:20       |

Client Sample ID: BS25-56 (2')

Date Collected: 05/02/25 13:00

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-35

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25791        | JP      | EET ALB | 05/09/25 03:31       |
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25790        | JP      | EET ALB | 05/09/25 03:31       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25724        | MI      | EET ALB | 05/08/25 09:39       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25990        | MI      | EET ALB | 05/13/25 15:47       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25679        | RC      | EET ALB | 05/07/25 13:57       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 20:31       |

Client Sample ID: BS25-57 (2')

Date Collected: 05/02/25 13:05

Date Received: 05/06/25 07:40

Lab Sample ID: 885-24275-36

Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25866        | JP      | EET ALB | 05/09/25 19:10       |
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25865        | JP      | EET ALB | 05/09/25 19:10       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25724        | MI      | EET ALB | 05/08/25 09:39       |
| Total/NA  | Analysis   | 8015M/D      |     | 20              | 25717        | EM      | EET ALB | 05/08/25 22:59       |

## Lab Chronicle

Client: Vertex

Job ID: 885-24275-1

Project/Site: North Pure Gold 9 Fed 1

Client Sample ID: BS25-57 (2')

Lab Sample ID: 885-24275-36

Date Collected: 05/02/25 13:05

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 300_Prep     |     |                 | 25679        | RC      | EET ALB | 05/07/25 13:57       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 20:41       |

Client Sample ID: BS25-58 (2')

Lab Sample ID: 885-24275-37

Date Collected: 05/02/25 13:10

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25791        | JP      | EET ALB | 05/09/25 04:18       |
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25790        | JP      | EET ALB | 05/09/25 04:18       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25724        | MI      | EET ALB | 05/08/25 09:39       |
| Total/NA  | Analysis   | 8015M/D      |     | 2               | 25717        | EM      | EET ALB | 05/08/25 23:10       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25679        | RC      | EET ALB | 05/07/25 13:57       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 20:51       |

Client Sample ID: BS25-59 (2')

Lab Sample ID: 885-24275-38

Date Collected: 05/02/25 13:15

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25791        | JP      | EET ALB | 05/09/25 04:42       |
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25790        | JP      | EET ALB | 05/09/25 04:42       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25724        | MI      | EET ALB | 05/08/25 09:39       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25990        | MI      | EET ALB | 05/13/25 14:59       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25679        | RC      | EET ALB | 05/07/25 13:57       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 21:02       |

Client Sample ID: BS25-60 (2')

Lab Sample ID: 885-24275-39

Date Collected: 05/02/25 13:20

Matrix: Solid

Date Received: 05/06/25 07:40

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Analyst | Lab     | Prepared or Analyzed |
|-----------|------------|--------------|-----|-----------------|--------------|---------|---------|----------------------|
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8015M/D      |     | 1               | 25791        | JP      | EET ALB | 05/09/25 05:06       |
| Total/NA  | Prep       | 5030C        |     |                 | 25670        | JP      | EET ALB | 05/07/25 12:22       |
| Total/NA  | Analysis   | 8021B        |     | 1               | 25790        | JP      | EET ALB | 05/09/25 05:06       |
| Total/NA  | Prep       | SHAKE        |     |                 | 25724        | MI      | EET ALB | 05/08/25 09:39       |
| Total/NA  | Analysis   | 8015M/D      |     | 10              | 25990        | MI      | EET ALB | 05/13/25 14:35       |
| Total/NA  | Prep       | 300_Prep     |     |                 | 25679        | RC      | EET ALB | 05/07/25 13:57       |
| Total/NA  | Analysis   | 300.0        |     | 20              | 25622        | RC      | EET ALB | 05/07/25 21:33       |

Eurofins Albuquerque



Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

**Laboratory References:**  
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975

|    |
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Accreditation/Certification Summary

Client: Vertex  
Project/Site: North Pure Gold 9 Fed 1

Job ID: 885-24275-1

Laboratory: Eurofins Albuquerque

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority                                                                                                                                                                                             | Program     | Identification Number | Expiration Date                      |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|--------------------------------------|
| New Mexico                                                                                                                                                                                            | State       | NM9425, NM0901        | 02-27-26                             |
| The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. |             |                       |                                      |
| Analysis Method                                                                                                                                                                                       | Prep Method | Matrix                | Analyte                              |
| 300.0                                                                                                                                                                                                 | 300_Prep    | Solid                 | Chloride                             |
| 8015M/D                                                                                                                                                                                               | 5030C       | Solid                 | Gasoline Range Organics (GRO)-C6-C10 |
| 8015M/D                                                                                                                                                                                               | SHAKE       | Solid                 | Diesel Range Organics [C10-C28]      |
| 8015M/D                                                                                                                                                                                               | SHAKE       | Solid                 | Motor Oil Range Organics [C28-C40]   |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Benzene                              |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Ethylbenzene                         |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Toluene                              |
| 8021B                                                                                                                                                                                                 | 5030C       | Solid                 | Xylenes, Total                       |
| Oregon                                                                                                                                                                                                | NELAP       | NM100001              | 02-26-26                             |

## Page 324 of 343







## HALL ENVIRONMENTAL ANALYSIS LABORATORY

[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

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

### Chain-of-Custody Record

Client: **Vertex (bill to Devon Energy, Jim Raley)**

X Standard

4 Push 5 Day

|               |
|---------------|
| Project Name: |
|---------------|

Mailing Address:

(On File)

North Pure Gold 9 Fed 1

Project #:

Phone #:

25A-01165

email or Fax#:

Project Manager:

QA/QC Package:

**Sally Carttar**

[SCarttar@vertexresource.com](mailto:SCarttar@vertexresource.com)

Accreditation: ☐ Az Compliance

**Sampler:** Sharon Minnix

☐ NELAC      ☐ Other \_\_\_\_\_

On Ice: ☒ Yes ☐ No

☐ EDD (Type) \_\_\_\_\_

# of Coolers: 1

Cooler Temp (including CF):  $2.4 + 0.2 = 2.6^{\circ}\text{C}$ 

| Date | Time | Matrix | Sample Name |
|------|------|--------|-------------|
|------|------|--------|-------------|

| Container<br>Type and # | Preservative<br>Type |
|-------------------------|----------------------|
|-------------------------|----------------------|

Preservative  
Type


HEAL No.

[illegible]

|       |       |                                   |
|-------|-------|-----------------------------------|
| Date: | Time: | Relinquished by:<br>Sharon Minnix |
|-------|-------|-----------------------------------|

|              |      |        |      |
|--------------|------|--------|------|
| Received by: | Via: | Date   | Time |
| C            |      | 5/5/95 | 1300 |




|        |       |                  |
|--------|-------|------------------|
| Date:  | Time: | Relinquished by: |
| 5/5/25 | 1900  | C                |

|                                                                                     |      |          |      |
|-------------------------------------------------------------------------------------|------|----------|------|
| Received by:                                                                        | Via: | Date     | Time |
|  |      | 11/15/25 | 7:10 |

Remarks: Direct Bill to Devon Energy ATTN: Jim Raley  
CC.Sally Carttar (SCarttar@vertexresource.com), Kent Stallings  
(kstallings@vertexresource.com), Andrew Ludvik  
(ALudvik@vertexresource.com), and Sharon Minnix  
(SMinnix@vertexresource.com) for Final Report.

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.

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

|        |       |                                                                                     |                                                                                     |      |        |      |
|--------|-------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|--------|------|
| Date:  | Time: | Relinquished by:                                                                    | Received by:                                                                        | Via: | Date   | Time |
|        |       | Sharon Minnix                                                                       |  |      | 5/5/25 | 1300 |
| Date:  | Time: | Relinquished by:                                                                    | Received by:                                                                        | Via: | Date   | Time |
| 5/5/25 | 1900  |  |  |      | 5/6/25 | 7:40 |

Remarks: Direct Bill to Devon Energy ATTN: Jim Raley  
CC:Sally Carttar (SCarttar@vertexresource.com), Kent Stallings  
(kstallings@vertexresource.com), Andrew Ludvik  
(ALudvik@vertexresource.com), and Sharon Minnix  
(SMinnix@vertexresource.com) for Final Report.

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.



## Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-24275-1

Login Number: 24275

List Source: Eurofins Albuquerque

List Number: 1

Creator: Casarrubias, Tracy

| Question                                                                                 | Answer | Comment                                                       |
|------------------------------------------------------------------------------------------|--------|---------------------------------------------------------------|
| Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.      | N/A    |                                                               |
| The cooler's custody seal, if present, is intact.                                        | True   |                                                               |
| Sample custody seals, if present, are intact.                                            | True   |                                                               |
| The cooler or samples do not appear to have been compromised or tampered with.           | True   |                                                               |
| Samples were received on ice.                                                            | True   |                                                               |
| Cooler Temperature is acceptable.                                                        | True   |                                                               |
| Cooler Temperature is recorded.                                                          | True   |                                                               |
| COC is present.                                                                          | True   |                                                               |
| COC is filled out in ink and legible.                                                    | True   |                                                               |
| COC is filled out with all pertinent information.                                        | True   |                                                               |
| Is the Field Sampler's name present on COC?                                              | True   |                                                               |
| There are no discrepancies between the containers received and the COC.                  | False  | IDs on containers do not match the COC.<br>Logged in per COC. |
| Samples are received within Holding Time (excluding tests with immediate HTs)            | True   |                                                               |
| Sample containers have legible labels.                                                   | True   |                                                               |
| Containers are not broken or leaking.                                                    | True   |                                                               |
| Sample collection date/times are provided.                                               | True   |                                                               |
| Appropriate sample containers are used.                                                  | True   |                                                               |
| Sample bottles are completely filled.                                                    | True   |                                                               |
| Sample Preservation Verified.                                                            | N/A    |                                                               |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs         | True   |                                                               |
| Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4"). | True   |                                                               |
| Multiphasic samples are not present.                                                     | True   |                                                               |
| Samples do not require splitting or compositing.                                         | True   |                                                               |
| Residual Chlorine Checked.                                                               | N/A    |                                                               |

## **APPENDIX E – Notifications**

**Natalie Gordon**

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** Monday, April 6, 2020 5:26 PM  
**To:** Natalie Gordon  
**Subject:** Fwd: North Pure Gold 9 Fed #001 - 48-hr Notification of Confirmatory Sampling (Devon)

----- Forwarded message -----

From: **Dhugal Hanton** <[vertexresourcegroupusa@gmail.com](mailto:vertexresourcegroupusa@gmail.com)>  
Date: Mon, Apr 6, 2020 at 5:26 PM  
Subject: North Pure Gold 9 Fed #001 - 48-hr Notification of Confirmatory Sampling (Devon)  
To: Bratcher, Mike, EMNRD <[Mike.Bratcher@state.nm.us](mailto:Mike.Bratcher@state.nm.us)>, Venegas, Victoria, EMNRD <[Victoria.Venegas@state.nm.us](mailto:Victoria.Venegas@state.nm.us)>, Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>, Kelsey <[KWade@blm.gov](mailto:KWade@blm.gov)>, <[Jamos@blm.gov](mailto:Jamos@blm.gov)>, <[blm\\_nm\\_cfo\\_spill@blm.gov](mailto:blm_nm_cfo_spill@blm.gov)>  
Cc: <[amanda.davis@dvn.com](mailto:amanda.davis@dvn.com)>, <[wesley.mathews@dvn.com](mailto:wesley.mathews@dvn.com)>, <[Lupe.Carrasco@dvn.com](mailto:Lupe.Carrasco@dvn.com)>, <[tom.bynum@dvn.com](mailto:tom.bynum@dvn.com)>

All,

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has scheduled remediation activities and confirmatory sampling to be conducted at North Pure Gold 9 Fed #001 for the following open historical releases:

- |                   |          |                        |
|-------------------|----------|------------------------|
| 1. NAB1918631481  | 2RP-5509 | DOR: December 9, 2018  |
| 2. NAB1732449577  | 2RP-4491 | DOR: November 12, 2017 |
| 3. NAB1621055488  | 2RP-3805 | DOR: July 24, 2016     |
| 4. NJMW1321055692 | 2RP-1771 | DOR: July 25, 2013     |
| 5. Unknown        | 2RP-6    | DOR: 2007              |

On Thursday, April 9, 2020 at approximately 9:00 a.m., Monica Peppin of Vertex will be onsite to guide final remediation activities and conduct confirmatory sampling. She can be reached at 575-361-9880. If you need directions to the site, please do not hesitate to contact her. If you have any questions or concerns regarding this notification, please give me a call at 505-506-0040.

Thank you,  
Natalie

**Natalie Gordon**  
Project Manager

Vertex Resource Group Ltd.  
213 S. Mesa Street  
Carlsbad, NM 88220

**P 575.725.5001 ext 709**  
**C 505.506.0040**  
**F**

[www.vertex.ca](http://www.vertex.ca)

**Natalie Gordon**

---

**From:** Dhugal Hanton <vertexresourcegroupusa@gmail.com>  
**Sent:** Wednesday, May 13, 2020 6:27 PM  
**To:** Natalie Gordon  
**Subject:** Fwd: North Pure Gold 9 Fed #001 - 48-hr Notification of Confirmatory Sampling (Devon)

----- Forwarded message -----

From: **Dhugal Hanton** <[vertexresourcegroupusa@gmail.com](mailto:vertexresourcegroupusa@gmail.com)>  
Date: Wed, May 13, 2020 at 6:25 PM  
Subject: North Pure Gold 9 Fed #001 - 48-hr Notification of Confirmatory Sampling (Devon)  
To: Bratcher, Mike, EMNRD <[Mike.Bratcher@state.nm.us](mailto:Mike.Bratcher@state.nm.us)>, Venegas, Victoria, EMNRD <[Victoria.Venegas@state.nm.us](mailto:Victoria.Venegas@state.nm.us)>, Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>, Kelsey <[KWade@blm.gov](mailto:KWade@blm.gov)>, Amos, James A <[Jamos@blm.gov](mailto:Jamos@blm.gov)>  
Cc: <[amanda.davis@dvn.com](mailto:amanda.davis@dvn.com)>, <[wesley.mathews@dvn.com](mailto:wesley.mathews@dvn.com)>, <[Lupe.Carrasco@dvn.com](mailto:Lupe.Carrasco@dvn.com)>, <[tom.bynum@dvn.com](mailto:tom.bynum@dvn.com)>

All,

Please accept this email as 48-hr notification that Vertex Resource Services Inc. has scheduled some additional confirmatory sampling to be conducted at North Pure Gold 9 Fed #001 for the following open historical releases:

- |    |                |          |                        |
|----|----------------|----------|------------------------|
| 1. | NAB1918631481  | 2RP-5509 | DOR: December 9, 2018  |
| 2. | NAB1732449577  | 2RP-4491 | DOR: November 12, 2017 |
| 3. | NAB1621055488  | 2RP-3805 | DOR: July 24, 2016     |
| 4. | NJMW1321055692 | 2RP-1771 | DOR: July 25, 2013     |
| 5. | Unknown        | 2RP-6    | DOR: 2007              |

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

On Monday, May 18, 2020 at approximately 10:00 a.m., Kevin Smith of Vertex will be onsite to conduct confirmatory sampling in the areas that had previously been treated with in-situ remediation product. He can be reached at 575-988-0871. 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 505-506-0040.

Thank you,  
Natalie

**Natalie Gordon**  
Project Manager

Vertex Resource Group Ltd.  
213 S. Mesa Street  
Carlsbad, NM 88220

**P 575.725.5001 ext 709**  
**C 505.506.0040**  
**F**

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 456630

**QUESTIONS**

|                                                                                  |                                                            |
|----------------------------------------------------------------------------------|------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                            |
|                                                                                  | Action Number:<br>456630                                   |
|                                                                                  | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**QUESTIONS**

| Prerequisites    |                                                             |
|------------------|-------------------------------------------------------------|
| Incident ID (n#) | nAB1732449577                                               |
| Incident Name    | NAB1732449577 NORTH PURE GOLD 9 FEDERAL #001 @ 30-015-27178 |
| Incident Type    | Oil Release                                                 |
| Incident Status  | Initial C-141 Approved                                      |
| Incident Well    | [30-015-27178] NORTH PURE GOLD 9 FEDERAL #001               |

| Location of Release Source |                                |
|----------------------------|--------------------------------|
| Site Name                  | NORTH PURE GOLD 9 FEDERAL #001 |
| Date Release Discovered    | 11/12/2017                     |
| Surface Owner              | Federal                        |

| Sampling Event General Information                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Please answer all the questions in this group.</i>                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| What is the sampling surface area in square feet                                                | 2,200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| What is the estimated number of samples that will be gathered                                   | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 05/01/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Time sampling will commence                                                                     | 10:00 AM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Please provide any information necessary for observers to contact samplers                      | Lakin Pullman 701-495-1722 lpullman@vertexresource.com Sally Carttar 575-361-3561 SCarttar@vertexresource.com Kent Stallings 346-814-1413 kstallings@vertexresource.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Please provide any information necessary for navigation to sampling site                        | From the intersection of US-62/180 and US-285, drive southeast on US-285 for 7.7 miles and turn left on NM-31. Drive east on NM-31 for 7.7 miles and turn right onto NM-128. Drive east/southeast on NM-128 for 13.0 miles and turn left on lease road. Drive east/north on lease road for 1.42 miles and turn right on lease road. Drive southeast on lease road for 0.56 miles and turn left into North Pure Gold 9 Federal #001 facility location. Work area is south and east sides of oil well and facility pad North Pure Gold 9 Federal #001. We will be collecting samples in/around the tank battery on the east side of the pad, in/around the production equipment on the south side of the pad, in the pasture southwest of the production equipment. We will be soil sampling with hand tools. The coordinates of the six-corners of the work area are marked with white stakes and clusters of white flags. |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

CONDITIONS

Action 456630

CONDITIONS

|                                                                                  |                                                            |
|----------------------------------------------------------------------------------|------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                            |
|                                                                                  | Action Number:<br>456630                                   |
|                                                                                  | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

CONDITIONS

|            |                                                                                                                                                                                                       |                |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Created By | Condition                                                                                                                                                                                             | Condition Date |
| rkidd      | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 4/29/2025      |



Sante Fe Main Office  
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<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 457083

**QUESTIONS**

|                                                                                  |                                                            |
|----------------------------------------------------------------------------------|------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                            |
|                                                                                  | Action Number:<br>457083                                   |
|                                                                                  | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

**QUESTIONS**

| Prerequisites    |                                                             |
|------------------|-------------------------------------------------------------|
| Incident ID (n#) | nAB1732449577                                               |
| Incident Name    | NAB1732449577 NORTH PURE GOLD 9 FEDERAL #001 @ 30-015-27178 |
| Incident Type    | Oil Release                                                 |
| Incident Status  | Initial C-141 Approved                                      |
| Incident Well    | [30-015-27178] NORTH PURE GOLD 9 FEDERAL #001               |

| Location of Release Source |                                |
|----------------------------|--------------------------------|
| Site Name                  | NORTH PURE GOLD 9 FEDERAL #001 |
| Date Release Discovered    | 11/12/2017                     |
| Surface Owner              | Federal                        |

| Sampling Event General Information                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Please answer all the questions in this group.</i>                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| What is the sampling surface area in square feet                                                | 2,200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| What is the estimated number of samples that will be gathered                                   | 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 05/02/2025                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Time sampling will commence                                                                     | 10:00 AM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Please provide any information necessary for observers to contact samplers                      | Sally Carttar 575-361-3561 SCarttar@vertexresource.com Kent Stallings 346-814-1413 kstallings@vertexresource.com                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Please provide any information necessary for navigation to sampling site                        | From the intersection of US-62/180 and US-285, drive southeast on US-285 for 7.7 miles and turn left on NM-31. Drive east on NM-31 for 7.7 miles and turn right onto NM-128. Drive east/southeast on NM-128 for 13.0 miles and turn left on lease road. Drive east/north on lease road for 1.42 miles and turn right on lease road. Drive southeast on lease road for 0.56 miles and turn left into North Pure Gold 9 Federal #001 facility location. Work area is south and east sides of oil well and facility pad North Pure Gold 9 Federal #001. We will be collecting samples in/around the tank battery on the east side of the pad, in/around the production equipment on the south side of the pad, in the pasture southwest of the production equipment. We will be soil sampling with hand tools. The coordinates of the six-corners of the work area are marked with white stakes and clusters of white flags. |

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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

CONDITIONS

Action 457083

CONDITIONS

|                                                                                  |                                                            |
|----------------------------------------------------------------------------------|------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                            |
|                                                                                  | Action Number:<br>457083                                   |
|                                                                                  | Action Type:<br>[NOTIFY] Notification Of Sampling (C-141N) |

CONDITIONS

|            |                                                                                                                                                                                                       |                |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Created By | Condition                                                                                                                                                                                             | Condition Date |
| rkidd      | Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted. | 4/30/2025      |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 511146

**QUESTIONS**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>511146                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                      |                                                             |
|----------------------|-------------------------------------------------------------|
| <b>Prerequisites</b> |                                                             |
| Incident ID (n#)     | nAB1732449577                                               |
| Incident Name        | NAB1732449577 NORTH PURE GOLD 9 FEDERAL #001 @ 30-015-27178 |
| Incident Type        | Oil Release                                                 |
| Incident Status      | Remediation Closure Report Received                         |
| Incident Well        | [30-015-27178] NORTH PURE GOLD 9 FEDERAL #001               |

**Location of Release Source**

Please answer all the questions in this group.

|                         |                                |
|-------------------------|--------------------------------|
| Site Name               | NORTH PURE GOLD 9 FEDERAL #001 |
| Date Release Discovered | 11/12/2017                     |
| Surface Owner           | Federal                        |

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

|                                                                                                                                                      |                                                                                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Crude Oil Released (bbls) Details                                                                                                                    | Cause: Other   Other (Specify)   Crude Oil   Released: 1 BBL   Recovered: 0 BBL   Lost: 1 BBL. |
| Produced Water Released (bbls) Details                                                                                                               | Not answered.                                                                                  |
| Is the concentration of chloride in the produced water >10,000 mg/l                                                                                  | Not answered.                                                                                  |
| Condensate Released (bbls) Details                                                                                                                   | Not answered.                                                                                  |
| Natural Gas Vented (Mcf) Details                                                                                                                     | Not answered.                                                                                  |
| Natural Gas Flared (Mcf) Details                                                                                                                     | Not answered.                                                                                  |
| Other Released Details                                                                                                                               | Not answered.                                                                                  |
| Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts) | Not answered.                                                                                  |

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QUESTIONS, Page 2

Action 511146

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>511146                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

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

**Initial Response**

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

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

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

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

|                                                    |                                                                                                       |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| I hereby agree and sign off to the above statement | Name: Roni Kidd<br>Title: Business Manager<br>Email: rkidd@buckhornproduction.com<br>Date: 10/01/2025 |
|----------------------------------------------------|-------------------------------------------------------------------------------------------------------|

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QUESTIONS, Page 3

Action 511146

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>511146                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                                                                                                                                                                                                                                                      |                                |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| <b>Site Characterization</b>                                                                                                                                                                                                                         |                                |
| <i>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.</i> |                                |
| What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)                                                                                                                           | Between 100 and 500 (ft.)      |
| What method was used to determine the depth to ground water                                                                                                                                                                                          | NM OSE iWaters Database Search |
| Did this release impact groundwater or surface water                                                                                                                                                                                                 | No                             |
| <b>What is the minimum distance, between the closest lateral extents of the release and the following surface areas:</b>                                                                                                                             |                                |
| 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 1 and 5 (mi.)          |
| A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes                                                                                                                            | Between 1 and 5 (mi.)          |
| Any other fresh water well or spring                                                                                                                                                                                                                 | Between 1 and 5 (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                                                                                                                                                                                                                                    | Greater than 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                             |

|                                                                                                                                                                                                                                                                                                                                                                                       |            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>Remediation Plan</b>                                                                                                                                                                                                                                                                                                                                                               |            |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>                                                                                                                                                                                      |            |
| Requesting a remediation plan approval with this submission                                                                                                                                                                                                                                                                                                                           | Yes        |
| <i>Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.</i>                                                                                                                                                                        |            |
| Have the lateral and vertical extents of contamination been fully delineated                                                                                                                                                                                                                                                                                                          | Yes        |
| Was this release entirely contained within a lined containment area                                                                                                                                                                                                                                                                                                                   | No         |
| <b>Soil Contamination Sampling:</b> (Provide the highest observable value for each, in milligrams per kilograms.)                                                                                                                                                                                                                                                                     |            |
| Chloride (EPA 300.0 or SM4500 Cl B)                                                                                                                                                                                                                                                                                                                                                   | 3200       |
| TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)                                                                                                                                                                                                                                                                                                                                           | 3170       |
| GRO+DRO (EPA SW-846 Method 8015M)                                                                                                                                                                                                                                                                                                                                                     | 2030       |
| BTEX (EPA SW-846 Method 8021B or 8260B)                                                                                                                                                                                                                                                                                                                                               | 3.2        |
| Benzene (EPA SW-846 Method 8021B or 8260B)                                                                                                                                                                                                                                                                                                                                            | 0          |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>                                                                        |            |
| On what estimated date will the remediation commence                                                                                                                                                                                                                                                                                                                                  | 04/09/2019 |
| On what date will (or did) the final sampling or liner inspection occur                                                                                                                                                                                                                                                                                                               | 05/02/2025 |
| On what date will (or was) the remediation complete(d)                                                                                                                                                                                                                                                                                                                                | 05/02/2025 |
| What is the estimated surface area (in square feet) that will be reclaimed                                                                                                                                                                                                                                                                                                            | 4100       |
| What is the estimated volume (in cubic yards) that will be reclaimed                                                                                                                                                                                                                                                                                                                  | 560        |
| What is the estimated surface area (in square feet) that will be remediated                                                                                                                                                                                                                                                                                                           | 2679       |
| What is the estimated volume (in cubic yards) that will be remediated                                                                                                                                                                                                                                                                                                                 | 177        |
| <i>These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.</i>                                                                                                                                                                                |            |
| <i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i> |            |

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QUESTIONS, Page 4

Action 511146

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>511146                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Remediation Plan (continued)</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                       |
| <i>Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                       |
| <b>This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                       |
| <i>(Select all answers below that apply.)</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                       |
| (Ex Situ) Excavation and <b>off-site</b> disposal (i.e. dig and haul, hydrovac, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Yes                                                                                                   |
| Which OCD approved facility will be used for <b>off-site</b> disposal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | fEEM0112334510 HALFWAY DISPOSAL AND LANDFILL                                                          |
| <b>OR</b> which OCD approved well (API) will be used for <b>off-site</b> disposal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not answered.                                                                                         |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, out-of-state                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not answered.                                                                                         |
| <b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Not answered.                                                                                         |
| (Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Not answered.                                                                                         |
| (In Situ) Soil Vapor Extraction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Not answered.                                                                                         |
| (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not answered.                                                                                         |
| (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Not answered.                                                                                         |
| (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Not answered.                                                                                         |
| Ground Water Abatement pursuant to 19.15.30 NMAC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Not answered.                                                                                         |
| OTHER (Non-listed remedial process)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Not answered.                                                                                         |
| <i>Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |                                                                                                       |
| I hereby agree and sign off to the above statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Name: Roni Kidd<br>Title: Business Manager<br>Email: rkidd@buckhornproduction.com<br>Date: 10/01/2025 |
| <i>The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.</i>                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                       |



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QUESTIONS, Page 5

Action 511146

QUESTIONS (continued)

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>511146                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

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

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QUESTIONS, Page 6

Action 511146

**QUESTIONS (continued)**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>511146                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**QUESTIONS**

| Sampling Event Information                                                                      |            |
|-------------------------------------------------------------------------------------------------|------------|
| Last sampling notification (C-141N) recorded                                                    | 457083     |
| Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC | 05/02/2025 |
| What was the (estimated) number of samples that were to be gathered                             | 12         |
| What was the sampling surface area in square feet                                               | 2200       |

| Remediation Closure Request                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <i>Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                       |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 2679                                                                                                  |
| What was the total volume (cubic yards) remediated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 177                                                                                                   |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0                                                                                                     |
| What was the total volume (in cubic yards) reclaimed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0                                                                                                     |
| Summarize any additional remediation activities not included by answers (above)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | As detailed in attached report.                                                                       |
| <i>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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                       |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. |                                                                                                       |
| I hereby agree and sign off to the above statement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Name: Roni Kidd<br>Title: Business Manager<br>Email: rkidd@buckhornproduction.com<br>Date: 10/01/2025 |

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QUESTIONS, Page 7  
  
Action 511146

QUESTIONS (continued)

|                                                                                      |                                                                                 |
|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Operator:<br><br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br><br>10155                                                             |
|                                                                                      | Action Number:<br><br>511146                                                    |
|                                                                                      | Action Type:<br><br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

QUESTIONS

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

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CONDITIONS

Action 511146

**CONDITIONS**

|                                                                                  |                                                                             |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| Operator:<br>HARVARD PETROLEUM COMPANY, LLC<br>P.O. Box 936<br>Roswell, NM 88202 | OGRID:<br>10155                                                             |
|                                                                                  | Action Number:<br>511146                                                    |
|                                                                                  | Action Type:<br>[C-141] Remediation Closure Request C-141 (C-141-v-Closure) |

**CONDITIONS**

| Created By       | Condition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Condition Date |
|------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| michael.buchanan | Remediation closure is approved.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/6/2025      |
| michael.buchanan | 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. The 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. | 10/6/2025      |
| michael.buchanan | A reclamation report will not be accepted until reclamation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10/6/2025      |
| michael.buchanan | All revegetation activities will need to be documented and included in the revegetation report. The revegetation report will need to include: An executive summary of the revegetation activities including: Seed mix, Method of seeding, dates of when the release area was reseeded, information pertinent to inspections, information about any amendments added to the soil, information on how the vegetative cover established meets the life-form ratio of plus or minus fifty percent of pre-disturbance levels and a total percent plant cover of at least seventy percent of pre-disturbance levels, excluding noxious weeds per 19.15.29.13 D.(3) NMAC, and any additional information; a scaled Site Map including area that was revegetated in square feet; and pictures of the revegetated areas during reseeding activities, inspections, and final pictures when revegetation is achieved.                                                                                                                             | 10/6/2025      |
| michael.buchanan | A revegetation report will not be accepted until revegetation of the release area, including areas reasonably needed for production or drilling activities, is complete and meet the requirements of 19.15.29.13 NMAC. Areas not reasonably needed for production or drilling activities will still need to be reclaimed and revegetated as early as practicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10/6/2025      |
| michael.buchanan | Per 19.15.29.13 E. NMAC, if a reclamation and revegetation report has been submitted to the surface owner, it may be used if the requirements of the surface owner provide equal or better protection of freshwater, human health, and the environment. A copy of the approval of the reclamation and revegetation report from the surface owner and a copy of the approved reclamation and revegetation report will need to be submitted to the OCD via the Permitting website.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10/6/2025      |