



Incident IDs: nAB1727057447, nAB1813442138,  
nMAP1826042805, nAPP2106151044

## Incident Closure

North Pure Gold 8 Fed 11

Section 08, Township 23 South, Range 31 East

API: 30-015-32619

County: Eddy

Vertex File Number: 25A-02298

**Prepared for:**

Devon Energy Production Company, LP

**Prepared by:**

Vertex Resource Services Inc.

**Date:**

September 2025



**Devon Energy Production Company, LP**  
North Pure Gold 8 Fed 11

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**North Pure Gold 8 Fed 11**  
**Section 08, Township 23 South, Range 31 East**  
**API: 30-015-32619**  
**County: Eddy**

Prepared for:  
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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 four produced water releases that occurred on September 12, 2017, April 29, 2018, August 31, 2018, and February 21, 2021, at North Pure Gold 8 Federal #011 API 30-015-32619 (hereafter referred to as the “site”). Devon submitted an initial C-141 Release Notification (Appendix A) to New Mexico Oil Conservation Division (NMOCD) District 2 on September 26, 2017, May 11, 2018, September 17, 2018, and March 10, 2021. Incident ID numbers nAB1727057447, nAB1813442138, nMAP1826042805, and nAPP2106151044, respectively, were assigned to this 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 deferred until such time as all oil and gas activities are terminated and the site is reclaimed as per NMAC 19.15.29.13.

## 2.0 Incident Description

The releases occurred on September 12, 2017, April 29, 2018, August 31, 2018, and February 21, 2021, due to a bull plug malfunction, the injection line leaking, equipment malfunction, and a ball valve failure, respectively. The incidents were reported on September 26, 2017, May 11, 2018, September 17, 2018, and March 10, 2021, and involved the release of approximately 36 bbl of produced water combined, 11 bbl of which were lost. Additional details relevant to the release are presented in the C-141 Report.

## 3.0 Site Characteristics

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 to be on the constructed pad at the site (Figure 1).

The site is located approximately 26.5 miles southeast of Carlsbad, New Mexico. The legal location for the site is Section 08, Township 23 South and Range 31 East in Eddy County, New Mexico. The release area is located on Bureau of Land Management land. An aerial photograph and site schematic are presented on Figure 1.

*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 Deep Sand. Additional soil characteristics include a drainage class of well drained to excessively drained with a runoff class of negligible. The karst geology potential for the site is low (United States Department of the Interior, Bureau of Land Management, 2018).

The surrounding landscape is associated with dunes with elevations ranging between 2,842 to 4,500 feet. The climate is semidesert with average annual precipitation ranging between 10 and 14 inches. Using information from the United



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States Department of Agriculture, the current dominant vegetation was determined to shinnery oak, while historically it was grasslands (United States Department of Agriculture, Natural Resources Conservation Service, 2025). Limited to no vegetation is allowed to grow on the compacted production pad, right-of-way and access road.

#### **4.0 Closure Criteria Determination**

The nearest active well to the site is New Mexico Office of the State Engineer (NMOSE) monitoring well located approximately 0.46 miles southeast of the site (United States Geological Survey, 2025). Data from December 3, 2022, show the NMOSE borehole was dry 100 feet below ground surface (bgs). Information pertaining to the depth to ground water determination is included in Appendix B.

There is no surface water present at the site. The nearest body of water, as defined in Subsection P of 19.15.17.7 NMAC, designated in the National Wetlands Inventory is a watercourse located approximately 1 mile from 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 closure criteria information are provided in Table 1.



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Table 1. Closure Criteria Determination			
Site Name: North Pure Gold 8 Federal #011			
Spill Coordinates: 32.315451,-103.796570		X: 613304	Y: 3576049
Site Specific Conditions		Value	Unit
1	Depth to Groundwater (nearest reference)	>100	feet
	Distance between release and nearest DTGW reference	2,541	feet
		0.48	miles
	Date of nearest DTGW reference measurement	December 13, 2023	
2	Within 300 feet of any continuously flowing watercourse or any other significant watercourse	5,650	feet
3	Within 200 feet of any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark)	6,891	feet
4	Within 300 feet from an occupied residence, school, hospital, institution or church	5,429	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	5,246	feet
	ii) Within 1000 feet of any fresh water well or spring	5,246	feet
6	Within incorporated municipal boundaries or within a defined municipal fresh water field covered under a municipal ordinance adopted pursuant to Section 3-27-3 NMSA 1978 as amended, unless the municipality specifically approves	No	(Y/N)
7	Within 300 feet of a wetland	6,386	feet
8	Within the area overlying a subsurface mine	No	(Y/N)
	Distance between release and nearest registered mine	30,417	feet
9	Within an unstable area (Karst Map)	Low	Critical High Medium Low
	Distance between release and nearest High Karst	10,109	feet
10	Within a 100-year Floodplain	>500	year
	Distance between release and nearest FEMA Zone A (100-year Floodplain)	36,298	feet
11	Soil Type	Fine sand, fine sandy loam	
12	Ecological Classification	Deep Sand	
13	Geology	Eolian and piedmont deposits	
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	<50' 51-100' >100'

The closure criteria determined for the site are associated with the following constituent concentration limits as presented in Table 2.



<b>Table 2. Closure Criteria for Soils Impacted by a Release</b>		
<b>Minimum depth below any point within the horizontal boundary of the release to groundwater less than 10,000 mg/l TDS</b>	<b>Constituent</b>	<b>Limit</b>
<b>&gt; 100 feet</b>	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

Delineation of the site was completed between January 20, 2021 and July 17, 2023, which established the area affected by the four incidents. The northern area just off pad was evaluated for contaminants due to the C-141 report of incident nAB1813442138 indicating there may be contamination present there. Boreholes BH23-12 to BH23-17 and BH23-28 to BH23-30 were taken in that area and showed no contamination over strictest criteria. This demonstrates an insignificant amount of fluid went off pad to contaminate the pastureland. Additionally, horizontal boreholes BH23-19 to BH23-21, BH23-26, BH23-27, BH23-31, BH23-33, and BH23-35 were taken around the edge of the pad demonstrating no contamination from any of the releases affected the pastureland. The impacted area was determined to be approximately 130 feet long and 175 feet wide; the total affected area is 21,283 square feet. A remediation plan for this location was accepted from the delineation on June 9, 2025. Daily Field Reports documenting various phases of the remediation are presented in Appendix C.

Remediation efforts began on August 6, 2025, and were finalized on August 22, 2025. Vertex personnel supervised the hand digging of impacted soils. Soils were removed to a depth of 3 feet bgs. A total of 23 cu yds of material was removed. Impacted soil was transported by a licensed waste hauler and disposed of at an approved waste management.

Notifications that confirmatory samples were being collected were provided to the NMOCD at least 48 hrs in advance. In the excavation, a total of four wall samples, one base sample, and one backfill sample were collected. Confirmation samples of the release area were taken in a 400 sq ft sample grid per the variance request approval (Appendix D). A total of 53 surface samples were taken in the release area. Confirmation samples were submitted to Eurofins Laboratories and the backfill sample was submitted to Envirotech under chain-of-custody protocols. These samples were analyzed for BTEX (EPA Method 8021B), total petroleum hydrocarbons (GRO, DRO, MRO – EPA Method 8015D) and total chlorides (EPA Method 300.0). Laboratory results are presented in Table 3, and the laboratory data reports are included in Appendix E. All confirmatory samples collected and analyzed were below closure criteria for the site.

In compliance with the conditional acceptance and in exceedance of the required one sample per 200 sq ft, four wall samples, one for each wall/cardinal direction, were taken in the excavation. The southern wall, WS25-03, was collected against the battery containment. Laboratory analysis showed that sample to be below strictest criteria demonstrating



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no contamination went under the tank battery. The remaining sides of the excavation are fully horizontally delineated by the following: the northern side through BH23-16, the eastern side through WS25-04, and the western through BH23-20.

## 6.0 Closure Request

The release area was fully delineated, remediated, and backfilled with local soils by August 31, 2025. Confirmatory samples were analyzed by the laboratory and found to be below allowable concentrations as per the NMAC Closure Criteria for Soils Impacted by a Release ">100 feet to groundwater". Based on these findings, Vertex requests that this release be closed on behalf of Devon with the understanding that the release area will be fully restored following the decommission of the oil and gas production pad accordance with 19.15.29.12 and 19.15.29.13 NMAC.

Should you have any questions or concerns, please do not hesitate to contact Sally Carttar at 575.361.3561 or [SCarttar@vertexresource.com](mailto:SCarttar@vertexresource.com).



## 7.0 References

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## 8.0 Limitations

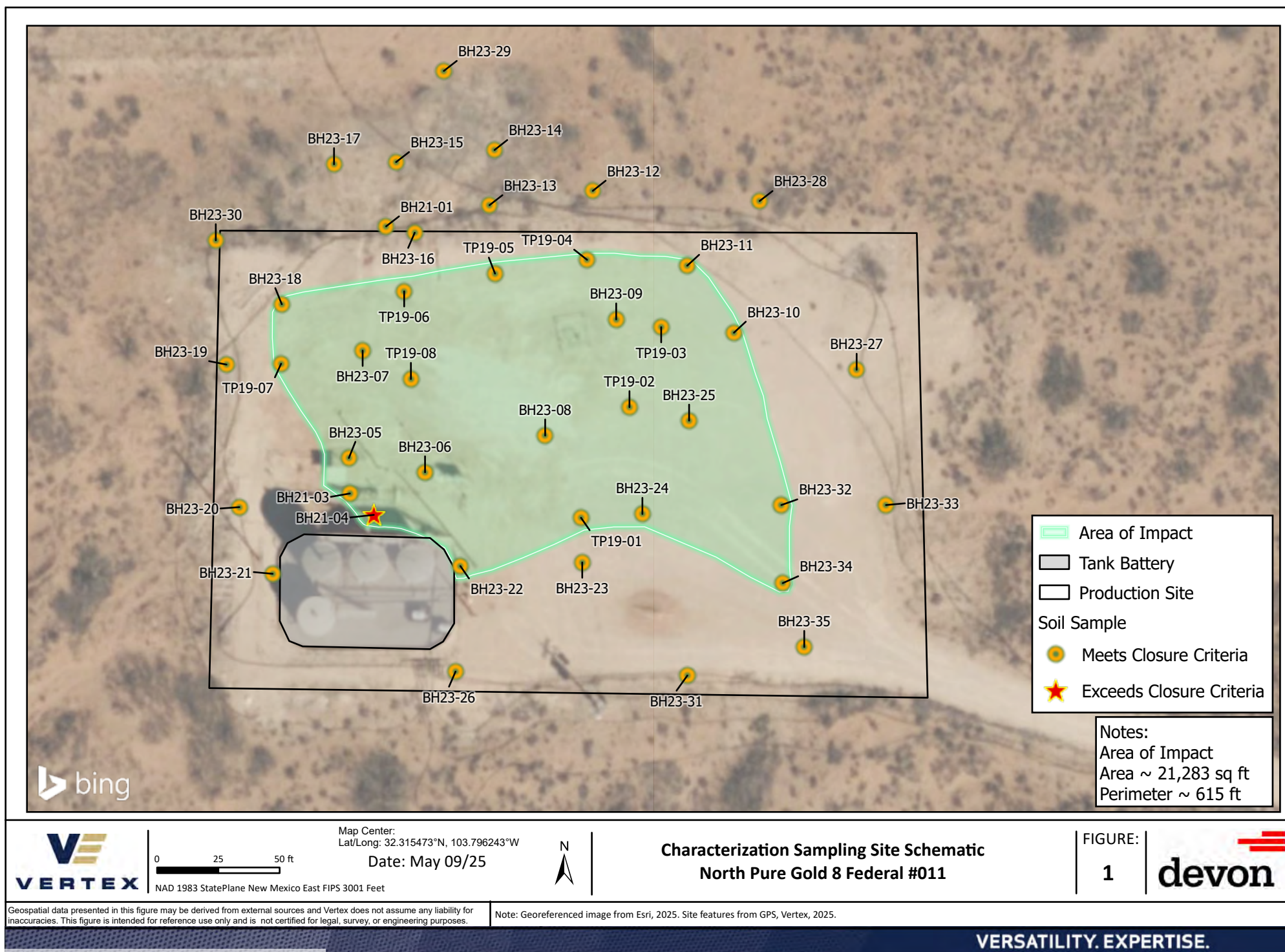
This report has been prepared for the sole benefit of Devon Energy Production Company, LP. This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division and the Bureau of Land Management, without the express written consent of Vertex Resource 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.

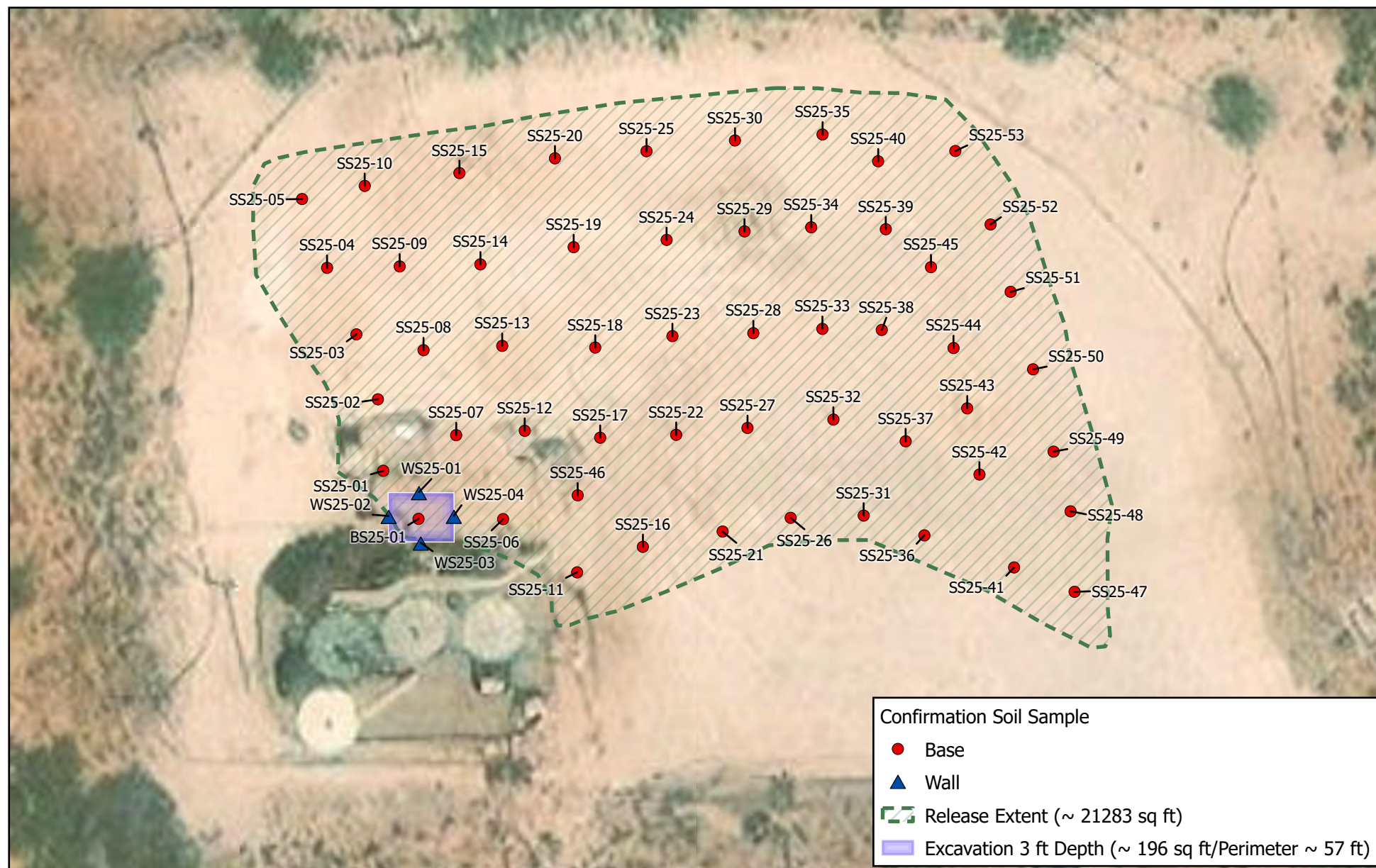


## **FIGURES**









0 20 40 ft

NAD 1983 StatePlane New Mexico East FIPS 3001 Feet

Map Center:  
Lat/Long: 32.315421°N, 103.796392°W

Date: Aug 30/25



### Confirmation Sampling Schematic North Pure Gold 8 Federal #011

FIGURE:

02



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.

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## **TABLES**



Client Name: Devon Energy Production Company, LP

Site Name: North Pure Gold 8 Federal #011

NM OCD Tracking #: nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044

Project #: 25A-02298

Lab Reports: P905060, 2108E74, 2307707, 2307708, 2307747, and 2307825

Table 3. Initial Characterization Sample Laboratory Results - Depth to Groundwater >100 feet bgs										
Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
TP19-01	0	May 14, 2019	ND	ND	ND	356	642	356	998	1,240
	2	May 14, 2019	ND	ND	ND	29.4	ND	29.4	29.4	294
TP19-02	0	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	2,810
	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	176
TP19-03	0	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	2,520
	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	754
TP19-04	0	May 14, 2019	ND	ND	ND	25.2	ND	25.2	25.2	4,100
	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	94
TP19-05	0	May 14, 2019	ND	ND	ND	37.7	ND	37.7	37.3	6,650
	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	365
TP19-06	0	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	1,440
	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	1,410
TP19-07	0	May 14, 2019	ND	ND	ND	36.9	ND	36.9	36.9	1,980
	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	634
TP19-08	0	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	16,600
	2	May 14, 2019	ND	ND	ND	ND	ND	ND	ND	54.4
BH21-01	0.5	August 24, 2021	ND	ND	ND	ND	ND	ND	ND	ND
BH21-03	0.5	August 24, 2021	ND	ND	ND	ND	ND	ND	ND	8,900
	2	August 24, 2021	ND	ND	ND	ND	ND	ND	ND	1,200
BH21-04	0.5	August 24, 2021	ND	ND	ND	16	84	16	100	3,500
	2	August 24, 2021	ND	ND	ND	890	2,600	890	3,490	410
	4	August 24, 2021	ND	ND	ND	47	180	47	227	370
BH23-05	0	July 13, 2023	ND	ND	ND	28	58	28	86	8,100
	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	840
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	720
BH23-06	0	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	7,400
	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	410
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	460
	6	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	400
BH23-07	0	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	13,000
	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	4,000
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,600
BH23-08	0	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	9,000
	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	850
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,400
	6	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	270



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										(mg/kg)
BH23-09	0	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,900
	2	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	2,300
	4	July 13, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
BH23-10	0	July 14, 2023	ND	ND	ND	13	ND	13	13	2,900
	2	July 14, 2023	ND	ND	ND	13	ND	13	13	550
BH23-11	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	16,000
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	630
BH23-12	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	71
BH23-13	0	July 14, 2023	ND	ND	ND	26	ND	26	26	110
	2	July 14, 2023	ND	ND	ND	18	ND	18	18	200
BH23-14	0	July 14, 2023	ND	ND	ND	15	ND	15	15	ND
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-15	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	520
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	360
BH23-16	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-17	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	67
BH23-18	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	7,800
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,400
BH23-19	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	290
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-20	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	170
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	160
BH23-21	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	300
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	200
BH23-22	0	July 14, 2023	ND	ND	ND	120	51	120	171	1,800
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,800
BH23-23	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	440
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	220
BH23-24	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	3,600
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	210
BH23-25	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	990
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	110
BH23-26	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	350
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	150



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										(mg/kg)
BH23-27	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	92
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-28	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-29	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-30	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	240
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	89
BH23-31	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	210
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	100
BH23-32	0	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	1,200
	2	July 14, 2023	ND	ND	ND	ND	ND	ND	ND	86
BH23-33	0	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	ND
	2	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-34	0	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	730
	2	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	ND
BH23-35	0	July 17, 2023	ND	ND	ND	ND	ND	ND	ND	89
	2	July 17, 2023	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: Devon Energy Production Company, LP

Site Name: North Pure Gold 8 Fed 11

NMOCD Tracking #: nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044

Project #: 25A-02298

Lab Report(sX): 885-31189-1, 885-30863-1, 885-30730-1, 855-30757-1

Table 4. Confirmatory Sample Laboratory Results

Sample Description			Petroleum Hydrocarbons							Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable					
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)			
Depth to Groundwater >100ft										
Backfill	-	August 31, 2025	ND	ND	ND	ND	ND	ND	ND	275
BS25-01	3	August 8, 2025	ND	ND	ND	170	590	170	760	2800
WS25-01	0-3	August 8, 2025	ND	ND	ND	16	ND	16	16	3200
WS25-02	0-3	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	6500
WS25-03*	0-3	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	260
WS25-04	0-3	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	150
SS25-01	0	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	6700
SS25-02	0	August 8, 2025	ND	ND	ND	9.3	ND	9.3	9.3	2000
SS25-03	0	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	3400
SS25-04	0	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	970
SS25-05	0	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	1100
SS25-06	0	August 8, 2025	ND	ND	ND	15	ND	15	15	4200
SS25-07	0	August 8, 2025	ND	ND	ND	18	51	18	69	1200
SS25-08	0	August 8, 2025	ND	ND	ND	12	ND	12	12	4200
SS25-09	0	August 8, 2025	ND	ND	ND	13	ND	13	13	2000
SS25-10	0	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	3200
SS25-11	0	August 8, 2025	ND	ND	ND	100	180	100	280	1800
SS25-12	0	August 8, 2025	ND	ND	ND	18	86	18	104	4100
SS25-13	0	August 8, 2025	ND	ND	ND	31	36	31	67	620
SS25-14	0	August 8, 2025	ND	ND	ND	ND	ND	ND	ND	790
SS25-15	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	13000
SS25-16	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	8900
SS25-17	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	4400
SS25-18	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	3400
SS25-19	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	14000
SS25-20	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	11000
SS25-21	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	3500
SS25-22	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	11000
SS25-23	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	6400
SS25-24	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	350
SS25-25	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	7700
SS25-26	0	August 14, 2025	ND	ND	ND	110	320	110	430	5200
SS25-27	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	1100
SS25-28	0	August 14, 2025	ND	ND	ND	140	ND	140	140	7800
SS25-29	0	August 14, 2025	ND	ND	ND	26	62	26	88	3200
SS25-30	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	5000
SS25-31	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	2000
SS25-32	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	1500



Client Name: Devon Energy

Site Name: North Pure Gold 8 Fed 11

NMOCD Tracking #: nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044

Project #: 25A-02298

Lab Report(sX): 885-31189-1, 885-30863-1, 885-30730-1, 855-30757-1

Table 4. Confirmatory Sample Laboratory Results

Table 4. Confirmatory Sample Laboratory Results											
Sample Description			Petroleum Hydrocarbons								Inorganic
Sample ID	Depth (ft)	Sample Date	Volatile		Extractable						
			Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)		
(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)					
Depth to Groundwater >100ft											
SS25-33	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	4600	
SS25-34	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	14000	
SS25-35	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	17000	
SS25-36	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	260	
SS25-37	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	880	
SS25-38	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	2000	
SS25-39	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	1300	
SS25-40	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	2000	
SS25-41	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	140	
SS25-42	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	ND	
SS25-43	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	730	
SS25-44	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	610	
SS25-45	0	August 14, 2025	ND	ND	ND	ND	ND	ND	ND	690	
SS25-46	0	August 14, 2025	ND	ND	ND	95	280	95	375	560	
SS25-47	0	August 11, 2025	ND	ND	ND	ND	ND	ND	ND	ND	
SS25-48	0	August 11, 2025	ND	ND	ND	ND	ND	ND	ND	ND	
SS25-49	0	August 11, 2025	ND	ND	ND	ND	ND	ND	ND	ND	
SS25-50	0	August 11, 2025	ND	ND	ND	ND	ND	ND	ND	ND	
SS25-51	0	August 11, 2025	ND	ND	ND	ND	ND	ND	ND	85	
SS25-52	0	August 11, 2025	ND	ND	ND	ND	ND	ND	ND	2500	
SS25-53	0	August 11, 2025	ND	ND	ND	ND	ND	ND	ND	2600	

"ND" Not Detected at the Reporting Limit

\*Sample proves no contamination went under the containment

Bold and grey shaded indicates exceedance outside of NMOCD Closure Criteria (on-pad)



## **APPENDIX A - NMOCD C-141 Report(s)**



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

State of New Mexico  
Energy Minerals and Natural Resources

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

SEP 01 2015

Form C-141  
Revised August 8, 2011

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

RECEIVED

## Release Notification and Corrective Action

## OPERATOR

☒ Initial Report ☐ Final Report

**Name of Company** Devon Energy Production Company **6137** **Contact** Dan Suniga; Production Foreman  
**Address** 6488 Seven Rivers Hwy Artesia, NM 88210 **Telephone No.** 575-390-5850  
**Facility Name** North Pure Gold 8 Federal 11 **Facility Type** Salt Water Disposal

**Surface Owner** Federal **Mineral Owner** Federal **API No** 30-015-32619

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	8	23S	31E	1400	South	1540	East	Eddy

Latitude: 32.31545

Longitude: -103.795859

## NATURE OF RELEASE

<b>Type of Release</b> Produced water release	<b>Volume of Release</b> 20 BBLS	<b>Volume Recovered</b> 18 BBLS
<b>Source of Release</b> hole in high pressure hose on H pump	<b>Date and Hour of Occurrence</b> September 1, 2015 2:40 AM	<b>Date and Hour of Discovery</b> September 1, 2015 2:40 AM
<b>Was Immediate Notice Given?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	<b>If YES, To Whom?</b> BLM; Jim Amos OCD-Mike Bratcher	
<b>By Whom?</b> Assistant Production Foreman: David Simmons	<b>Date and Hour</b> BLM-September 1, 2015 4:40 AM OCD- September 1, 2015 2:10 PM	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse</b> N/A	

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

**Describe Cause of Problem and Remedial Action Taken.\***

Hole in high pressure line on the H pump allowed 20 BBLS of produced water to be released. The power to the H pump and the charge pump was shut off and then the closed the valves upstream and downstream of the release to prevent further release. Line is being repaired.

**Describe Area Affected and Cleanup Action Taken.\***

20 BBLS of produced water was released. All of the released fluid remained on location. 18 BBLS of the released fluid was recovered via vacuum truck. Release occurred north of the water tanks. Approximate size of the affected area is 30' x 30'. Most of the released fluid collected in a hole that the produced water created when it released from the high pressure line. Environmental Agency will be contacted for remediation services.

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: Sandy Farley

Printed Name: Sandra Farley

Title: **Field Admin Support**E-mail Address: sandy.farley@dvn.com

Date: 9.1.15

Phone: 575.746.5587

## OIL CONSERVATION DIVISION

Signed By: Mike Bratcher

Approved by Environmental Specialist:

Approval Date: 9/2/15Expiration Date: N/A

Conditions of Approval:

Attached ☐

**Remediation per O.C.D. Rules & Guidelines**  
**SUBMIT REMEDIATION PROPOSAL NO**  
**LATER THAN: 10/2/15**

2RP-3233

\* Attach Additional Sheets If Necessary



4441 District I  
1625 N. French Dr., Hobbs, NM 88240  
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811 S. First St., Artesia, NM 88210  
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District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141  
Revised August 8, 2011

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

SEP 26 2017

Submit to appropriate District Office in  
accordance with 19.15.29 NMAC.

RECEIVED

## Release Notification and Corrective Action

NAB1727057447

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Devon Energy Production Company <i>6137</i>	Contact Aaron Kidd, Technical Services Foreman
Address 6488 Seven Rivers Hwy Artesia, NM 88210	Telephone No. 575-748-9936
Facility Name North Pure Gold 8 Federal 11	Facility Type Salt Water Disposal

Surface Owner Federal	Mineral Owner Federal	API No 30-015-32619
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## LOCATION OF RELEASE

Unit Letter J	Section 8	Township 23S	Range 31E	Feet from the 1400	North/South Line South	Feet from the 1540	East/West Line East	County Eddy
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Latitude: 32.3155441

Longitude: -103.7963486

## NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 5BBLS PW	Volume Recovered 2BBLS PW
Source of Release 1/2" bull plug	Date and Hour of Occurrence 09/12/2017 @ 7:00 AM	Date and Hour of Discovery 09/12/2017 @ 7:00 AM
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD-Mike Bratcher BLM-Shelly Tucker	
By Whom? Aaron Kidd, Technical Services Foreman	Date and Hour BLM-9/12/2017 @ 1:21 PM OCD-9/12/2017 @ 1:23 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse	
If a Watercourse was Impacted, Describe Fully.* N/A		

**Describe Cause of Problem and Remedial Action Taken.\***  
The pump had a 1/2" bull plug wash out and develop a leak. Upon discovery the leak was isolated and stopped. A repair was then made and the equipment was returned back into service.

**Describe Area Affected and Cleanup Action Taken.\***  
Approximately 5BBLS of Produced Water was released as a result the bull plug washing out and developing a leak. Approximately 2BBLS of Produced Water was recovered via the dispatched vacuum truck. All fluid stayed on the location. 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: <i>Michael R. Shoemaker</i>	OIL CONSERVATION DIVISION  Signed By <i>Mike Bratcher</i> Approved by Environmental Specialist:	
Printed Name: Michael R. Shoemaker		
Title: Environmental Professional	Approval Date: <i>9/27/17</i>	Expiration Date: <i>N/A</i>
E-mail Address: mike.shoemaker@dmv.com	Conditions of Approval: <i>See attached</i>	
Date: 09/26/2017 Phone: 575-748-3371	Attached <input type="checkbox"/> <i>2RP-4414</i>	

\* Attach Additional Sheets If Necessary



District I  
1625 N. French Dr., Hobbs, NM 88240  
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1220 S. St. Francis Dr., Santa Fe, NM 87505

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

MAY 11 2018  
Form C-141  
Revised April 3, 2017  
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.  
DISTRICT II-ARTESIA O.C.D.

## Release Notification and Corrective Action

Accepted as Initial only  
Initial Report ☒ Final Report ☒

*NAB1813442138*

Name of Company <i>Devon Energy Production Company</i> <i>6137</i>		Contact <i>Aaron Kidd, Technical Services Foreman</i>	
Address <i>6488 Seven Rivers Hwy Artesia, NM 88210</i>		Telephone No. <i>575-748-3371</i>	
Facility Name <i>North Pure Gold 8 Federal 11</i>		Facility Type <i>Salt Water Disposal</i>	
Surface Owner <i>Federal</i>		Mineral Owner <i>Federal</i>	API No. <i>30-015-32619</i>

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	8	23S	31E					Eddy

Latitude *32.315536 N* Longitude *103.796457 W* NAD83

## NATURE OF RELEASE

Type of Release Produced Water	Volume of Release <i>13.00 bbls</i>	Volume Recovered <i>10 bbls</i>
Source of Release <i>Underground injection line</i>	Date and Hour of Occurrence <i>4/29/2018 5:00 PM MST</i>	Date and Hour of Discovery <i>4/29/2018 5:00 PM MST</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>NMOCD-Mike Bratcher BLM-Shelly Tucker</i>	
By Whom? <i>Mike Shoemaker, EHS Professional</i>	Date and Hour <i>4/30/2018 4:04 PM MST</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <i>N/A</i>	
If a Watercourse was Impacted, Describe Fully.* <i>N/A</i>		
Describe Cause of Problem and Remedial Action Taken.* <i>The underground injection line developed a leak. The line was isolated and a vacuum truck was dispatched to recover any standing fluids.</i>		
Describe Area Affected and Cleanup Action Taken.* <i>Approximately 13 bbls of produced water was released across the well pad. A small amount flow down the fill slope and off the edge of the location and contacted the edge of the pasture. Approximately 10 bbls of produced water was recovered. An environmental contractor will be contacted to assist with delineation and remediation efforts.</i>		
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: <i>Tamala Robison</i>	OIL CONSERVATION DIVISION	
Printed Name: <i>Tamala Robison</i>	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: <i>Field Admin Support</i>	Approval Date: <i>5/14/18</i>	Expiration Date: <i>N/A</i>
E-mail Address: <i>Tamala.Robison@dmv.com</i>	Conditions of Approval: <i>Accepted as Initial only</i>	Attached <input checked="" type="checkbox"/> <i>200-4741</i>
Date: <i>5/7/2018</i> Phone: <i>575-748-3371</i>		

\* Attach Additional Sheets If Necessary



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State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	NMAP1826042805
District RP	2RP-4971
Facility ID	N/A
Application ID	pMAP1826041886

## Release Notification

### Responsible Party

Responsible Party	Devon Energy Production Company	OGRID
Contact Name	Brett Fulks, EHS Professional	Contact Telephone 575-748-3371
Contact email	Brett.Fulks@dvn.com	Incident # (assigned by OCD) NMAP1826042805
Contact mailing address	6488 Seven Rivers Hwy Artesia, NM 88210	

### Location of Release Source

Latitude 32.31545 N Longitude -103.795860 W  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	North Pure Gold 8 Fed 11	Site Type	Salt Water Disposal
Date Release Discovered	8/31/2018 10:23 AM	API# (if applicable)	30-015-32619

Unit Letter	Section	Township	Range	County
J	08	23S	31E	Eddy

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 12.49 Barrels	Volume Recovered (bbls) 8.00 Barrels
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release  
Mechanical Failure, the flex hose going from the charge pump to the H pump blew off the connector and and ran produced water on the ground.

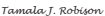



Incident ID	NMAP1826042805
District RP	2RP-4971
Facility ID	N/A
Application ID	pMAP1826041886

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

### Initial Response

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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:          	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: <u>Tamala J Robison</u>	Title: <u>Field Admin Support - Maintenance</u>
Signature: <u></u> <small>Digitally signed by Tamala J Robison Date: 2018.09.10 10:40:19 -06'00'</small>	Date: <u>9/6/2018</u>
email: <u>Tamala.Robison@dvN.com</u>	Telephone: <u>575-748-3371</u>
<b><u>OCD Only</u></b> Received by: <u></u> Date: <u>09/17/18</u>	



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

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

Incident ID	NAPP2106151044
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: \_\_\_\_\_)

Nature and Volume of Release

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

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

Cause of Release



Incident ID	NAPP2106151044
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name: _____	Title: _____
Signature: <u>Kendra DeHoyos</u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>3/10/2021</u>



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

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

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

Incident ID	nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044
District RP	2RP-3233, 2RP- 4414, 2RP-4741, 2RP-4971
Facility ID	30-015-32619
Application ID	

## Release Notification

### Responsible Party

Responsible Party <b>Harvard Petroleum Company, LLC</b>	OGRID <b>10155</b>
Contact Name <b>Jeff Harvard</b>	Contact Telephone <b>575-208-7135</b>
Contact email <b>jharvard@hpcnm.com</b>	Incident # <b>nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044</b>
Contact mailing address <b>P.O. Box 936 Roswell, NM 88202</b>	

### Location of Release Source

Latitude **32.315451** Longitude **-103.796570**  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>North Pure Gold 8 Federal #011</b>	Site Type <b>Salt Water Disposal</b>
Date Releases Discovered <b>September 1, 2015, September 12, 2017, April 29, 2018, August 31, 2018, February 21, 2021</b>	API# <b>30-015-32619</b>

Unit Letter	Section	Township	Range	County
<b>J</b>	<b>08</b>	<b>23S</b>	<b>31E</b>	<b>Eddy</b>

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

### Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <b>20, 5, 13, 12, 6</b>	Volume Recovered (bbls) <b>18, 2, 10, 8, 5</b>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)



Incident ID	nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044
District RP	2RP-3233, 2RP- 4414, 2RP-4741, 2RP-4971
Facility ID	30-015-32619
Application ID	

**Cause of Release**

9/1/2015. Hole in high pressure line on the H pump allowed 20 BBLS of produced water to be released.

9/12/2017. The pump had a ½" plug wash out and develop a leak.

4/29/2018. The underground injection line developed a leak.

8/31/2018. Mechanical Failure, the flex hose going from the charge pump to the H pump blew off the connector and ran produced water on the ground.

02/21/2021. Ball valve failed on liquid gage causing fluid release. All fluid stayed on pad.

Was this a major  
release as defined by  
19.15.29.7(A) NMAC?

☐ Yes ☒ No

If YES, for what reason(s) does the responsible party consider this a major release?

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

## 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.
- ☒ The impacted area has been secured to protect human health and the environment.
- ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
- ☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

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



Incident ID	nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044
District RP	2RP-3233, 2RP- 4414, 2RP-4741, 2RP-4971
Facility ID	30-015-32619
Application ID	

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

Printed Name: Jeff Harvard Title: President and Manager  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
email: jharvard@hpcnm.com Telephone: 575-208-7135

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



## Site Assessment/Characterization

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

Incident ID	nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044
District RP	2RP-3233, 2RP-4414, 2RP-4741, 2RP-4971
Facility ID	30-015-32619
Application ID	

What is the shallowest depth to groundwater beneath the area affected by the release?	>55 (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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



Incident ID	nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044
District RP	2RP-3233, 2RP- 4414, 2RP-4741, 2RP-4971
Facility ID	30-015-32619
Application ID	

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

Printed Name: Jeff Harvard Title: President and Manager  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
email: jharvard@hpcnm.com Telephone: 575-208-7135

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_



## Remediation Plan

Incident ID	nAB1524531624, nAB1727057447, nAB1813442138, nMAP1826042805, nAPP2106151044
District RP	2RP-3233, 2RP- 4414, 2RP-4741, 2RP-4971
Facility ID	30-015-32619
Application ID	

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

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

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

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

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

Printed Name: Jeff Harvard Title: President and Manager  
Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
email: jharvard@hpcnm.com Telephone: 575-208-7135

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

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

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



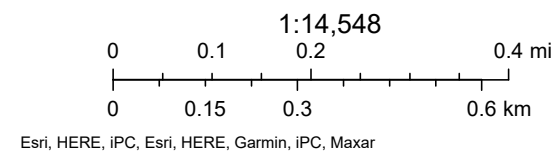
## **APPENDIX B – Closure Criteria Research Documentation**



# North Pure Gold 8 Fed 11 - 0.48 miles away from DTGW



1/25/2024, 8:42:03 AM








# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04776 POD1	3	3	3	09	23S	31E	613953	3575651 
<hr/>									
<b>Driller License:</b> 1833		<b>Driller Company:</b> VISION RESOURCES, INC							
<b>Driller Name:</b> JASON MALEY									
<b>Drill Start Date:</b> 12/13/2023		<b>Drill Finish Date:</b> 12/13/2023				<b>Plug Date:</b> 12/18/2023			
<b>Log File Date:</b> 01/12/2024		<b>PCW Rcv Date:</b>				<b>Source:</b>			
<b>Pump Type:</b>		<b>Pipe Discharge Size:</b>				<b>Estimated Yield:</b>			
<b>Casing Size:</b> 2.00		<b>Depth Well:</b>				<b>Depth Water:</b> 105 feet			

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.

1/25/24 8:42 AM

POINT OF DIVERSION SUMMARY





# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tw	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
<a href="#">C 04712 POD6</a>		CUB	ED	3	3	4	08	23S	31E	613147	3575740	346	55		
<a href="#">C 04776 POD1</a>		CUB	ED	3	3	3	09	23S	31E	613953	3575651	760			105
<a href="#">C 04712 POD5</a>		CUB	ED	4	4	3	09	23S	31E	614393	3575754	1128	55		
<a href="#">C 02492</a>		CUB	ED	4	4	4	06	23S	31E	612056	3577320*	1781	135	85	50
<a href="#">C 02865</a>		CUB	ED	4	4	4	06	23S	31E	612056	3577320*	1781	174		
<a href="#">C 02774</a>		CUB	ED	3	1	3	04	23S	31E	613857	3577745*	1783	1660		
<a href="#">C 02492 POD2</a>		C	ED	3	2	2	07	23S	31E	611767	3576996	1805	400	125	275

Average Depth to Water: **105 feet**

Minimum Depth: **85 feet**

Maximum Depth: **125 feet**

**Record Count:** 7

### UTM NAD83 Radius Search (in meters):

**Easting (X):** 613304

**Northing (Y):** 3576049

**Radius:** 2000

\*UTM location was derived from PLSS - see Help

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1/25/24 8:35 AM

WATER COLUMN/ AVERAGE DEPTH TO WATER





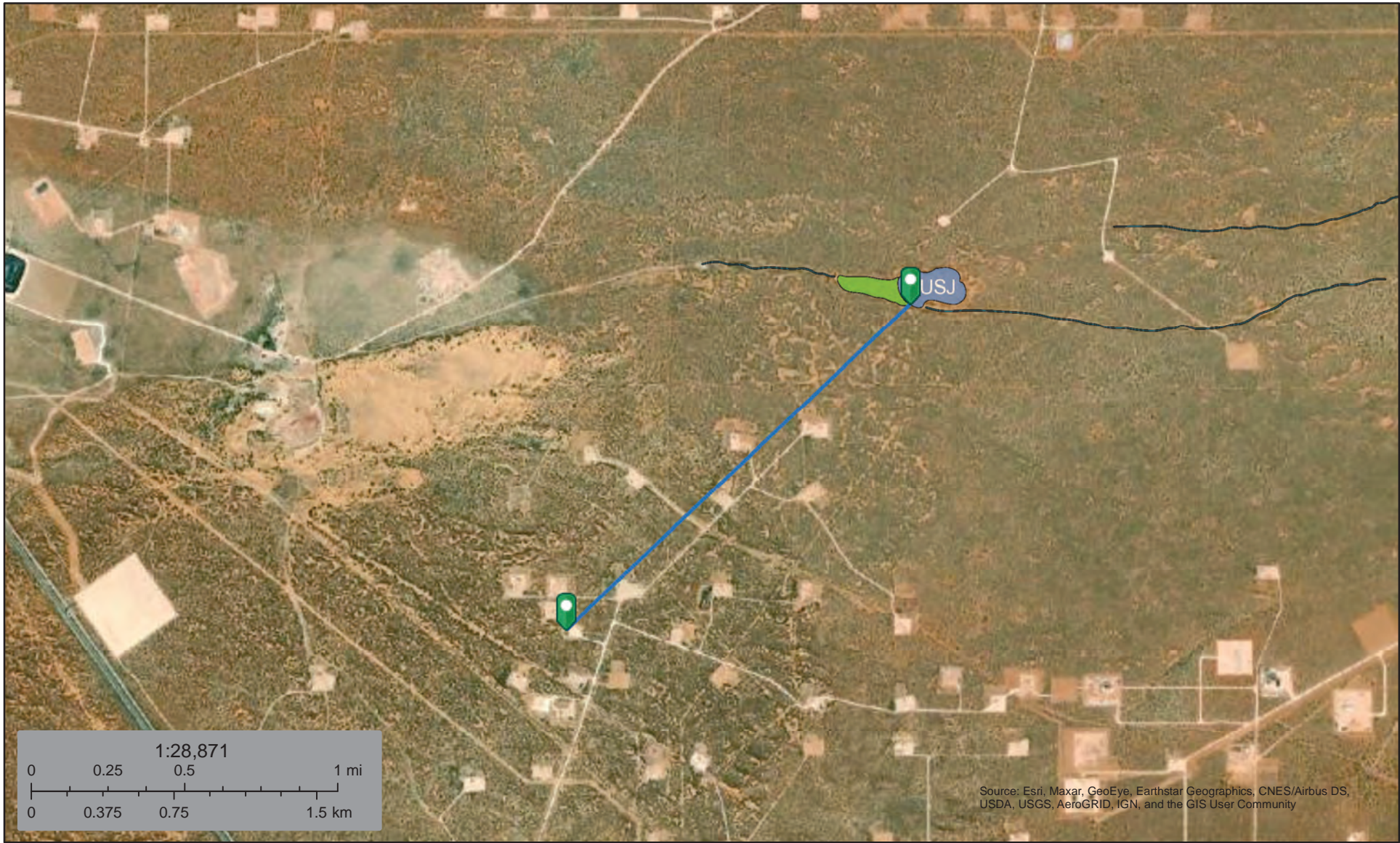
July 28, 2021

Wetlands

- |                                |                                   |          |
|--------------------------------|-----------------------------------|----------|
| Estuarine and Marine Deepwater | Freshwater Emergent Wetland       | Lake     |
| Estuarine and Marine Wetland   | Freshwater Forested/Shrub Wetland | Other    |
|                                | Freshwater Pond                   | Riverine |

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





July 28, 2021

Wetlands

- |  |   |  |
|--|---|--|
|  Estuarine and Marine Deepwater |  Freshwater Emergent Wetland       |  Lake     |
|  Estuarine and Marine Wetland   |  Freshwater Forested/Shrub Wetland |  Other    |
|  |  Freshwater Pond                   |  Riverine |


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# N Pure Gold 8 Fed 11

Neared Resident 1 mile, 5429 ft

## Legend

 Feature 1

 Residence

 N Pure Gold 8 Fed 11 32.31545, -



3000 ft





# New Mexico Office of the State Engineer

## Point of Diversion Summary

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
NA	C 04200 POD3		2	2	07	23S	31E	612130	3577147

Driller License:

Driller Company:

Driller Name:

Drill Start Date:

Drill Finish Date:

Plug Date:

Log File Date:

PCW Rev Date:

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

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.





# New Mexico Office of the State Engineer

## Water Right Summary


[get image list](#)

WR File Number: C 04200

Subbasin: CUB

Cross Reference: -

Primary Purpose: EXP EXPLORATION

Primary Status: PMT PERMIT

Total Acres:

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Agent: ATKINS ENGR ASSOC INC

Contact: CHRIS CORTEZ (STACY MILLS)

Owner: JIMMY MILLS 2005 GST TRUST

Contact: FRANKIE JO MILLS, TRUSTEE

Owner: JIMMY MILLS GST TRUST

Contact: FRANKIE JO MILLS, TRUSTEE

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">get images</a>	619310	EXPL	2018-01-30	PMT	APR	C 04200 POD1-5	T	0	0

### Current Points of Diversion

POD Number	Well Tag	Source	Q (NAD83 UTM in meters)						Other Location Desc
			64	Q16	Q4	Sec	Tws	Rng	
<a href="#">C 04200 POD1</a>	NA		2	2	07	23S	31E	611803	3577058
<a href="#">C 04200 POD2</a>	NA		2	2	07	23S	31E	611893	3577123
<a href="#">C 04200 POD3</a>	NA		2	2	07	23S	31E	612130	3577147
<a href="#">C 04200 POD4</a>	NA		4	4	06	23S	31E	611996	3577521
<a href="#">C 04200 POD5</a>	NA		4	4	06	23S	31E	612139	3577393

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.

8/3/23 6:22 PM

WATER RIGHT SUMMARY





# New Mexico Office of the State Engineer

## 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 me	
WR File Nbr	Sub				County	POD Number	Well Tag	Code	Grant	Source	q q q					X	Y			
	basin	Use	Diversion	Owner							6416 4	3 3 4	Sec	Tws	Rng					
<a href="#">C 04712</a>	CUB	MON	0	VERTEX RESOURCES	ED	<a href="#">C 04712 POD6</a>	NA				3 3 4 08 23S 31E	613146	3575740							
					ED	<a href="#">C 04712 POD5</a>					4 4 3 09 23S 31E	614392	3575754							
<a href="#">C 04200</a>	CUB	EXP	0	JIMMY MILLS 2005 GST TRUST	ED	<a href="#">C 04200 POD3</a>	NA				2 2 07 23S 31E	612130	3577147							
<a href="#">C 03389</a>	C	STK	3	JIMMY MILLS 2005 GST TRUST	ED	<a href="#">C 03389</a>					1 1 3 17 23S 31E	612316	3574683							
<a href="#">C 03394</a>	C	PUB	0	JAMES HAMILTON CONSTRUCTION CO	ED	<a href="#">C 03389</a>					1 1 3 17 23S 31E	612316	3574683							
<a href="#">C 04200</a>	CUB	EXP	0	JIMMY MILLS GST TRUST	ED	<a href="#">C 04200 POD2</a>	NA				2 2 07 23S 31E	611893	3577123							
					ED	<a href="#">C 04200 POD5</a>					4 4 06 23S 31E	612138	3577393							
<a href="#">C 02492</a>	CUB	COM	105	THE JIMMY MILLS GST TRUST	ED	<a href="#">C 02492</a>				Shallow	4 4 4 06 23S 31E	612056	3577320*							
<a href="#">C 02865</a>	CUB	EXP	0	STACY MILLS	ED	<a href="#">C 02865</a>					4 4 4 06 23S 31E	612056	3577320*							
<a href="#">C 03668</a>	C	STK	3	J T MILLS 2005 GST TRUST	ED	<a href="#">C 02492 POD2</a>				Shallow	3 2 2 07 23S 31E	611767	3576996							
<a href="#">C 04200</a>	CUB	EXP	0	JIMMY MILLS 2005 GST TRUST	ED	<a href="#">C 04200 POD1</a>	NA				2 2 07 23S 31E	611802	3577058							
<a href="#">C 02774</a>	CUB	MON	0	U.S. DEPT. OF ENERGY - WIPP	ED	<a href="#">C 02774</a>					3 1 3 04 23S 31E	613857	3577745*							
<a href="#">C 04200</a>	CUB	EXP	0	JIMMY MILLS 2005 GST TRUST	ED	<a href="#">C 04200 POD4</a>	NA				4 4 06 23S 31E	611996	3577521							

Record Count: 13

### UTMNAD83 Radius Search (in meters):

Easting (X): 613283

Northing (Y): 3576038

Radius: 2000

Sorted by: Distance

\*UTM location was derived from PLSS - see Help

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

8/3/23 6:16 PM

ACTIVE & INACTIVE POINTS OF D





July 28, 2021

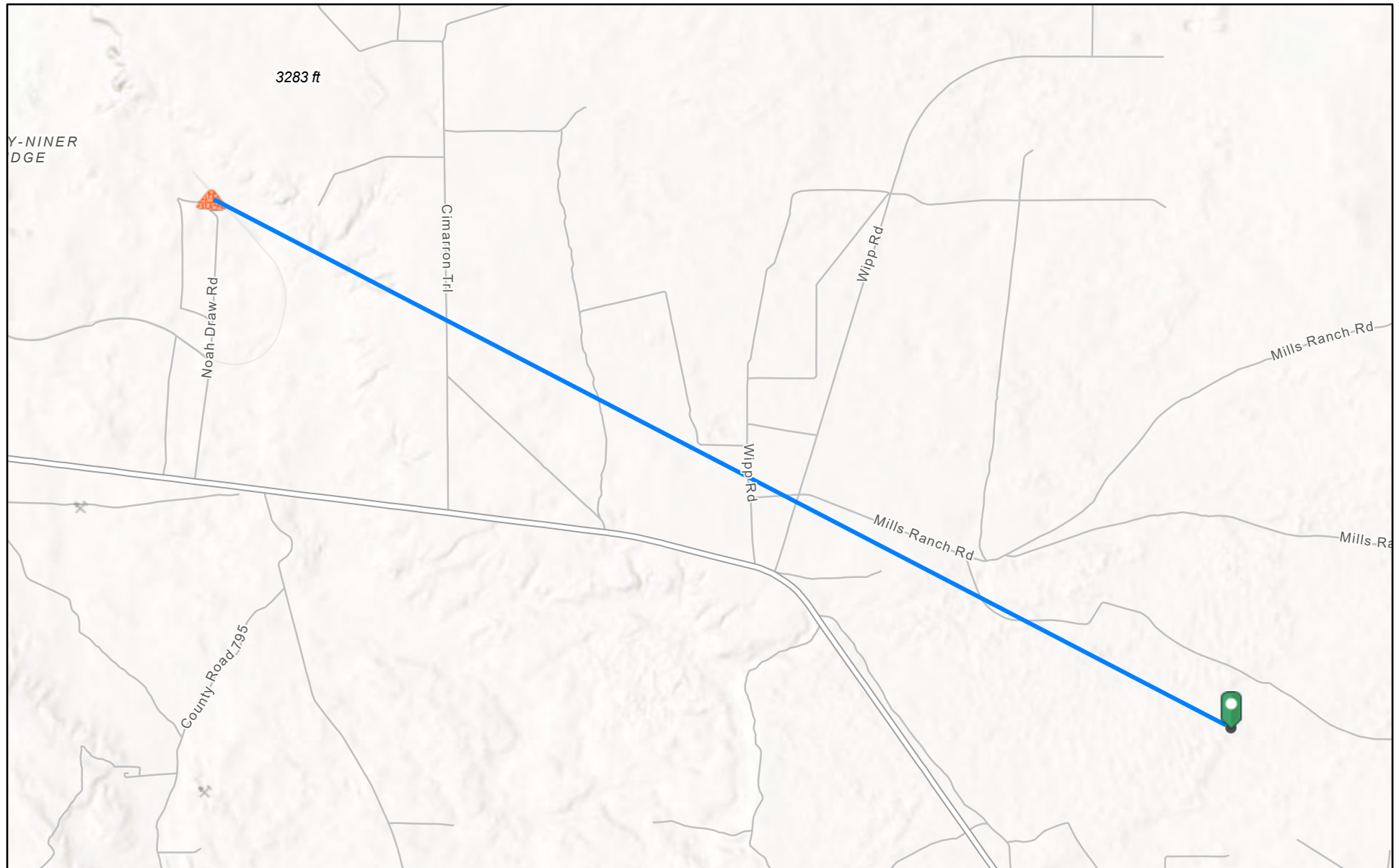
Wetlands

- |   |                                |   |                                   |   |          |
|---|--------------------------------|---|-----------------------------------|---|----------|
|  | Estuarine and Marine Deepwater |  | Freshwater Emergent Wetland       |  | Lake     |
|  | Estuarine and Marine Wetland   |  | Freshwater Forested/Shrub Wetland |  | Other    |
|   |                                |  | Freshwater Pond                   |  | Riverine |

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



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



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

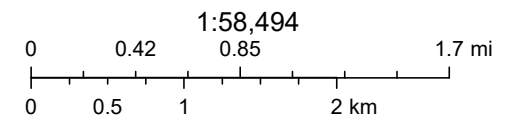
Registered Mines



Potash



Aggregate, Stone etc.

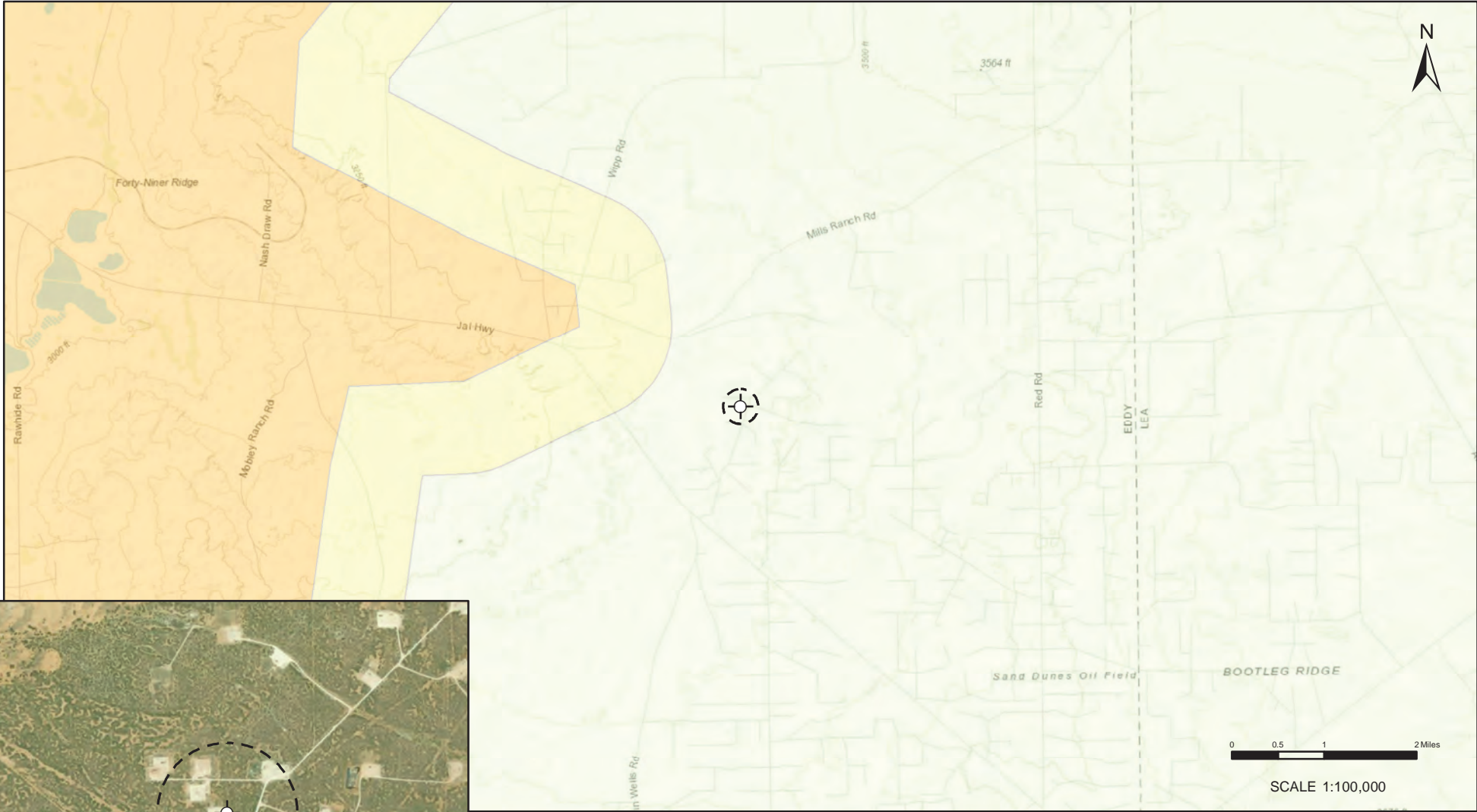


Texas Parks &amp; Wildlife, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS, Esri,

EMNRD MMD GIS Coordinator

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





Notes: Aerial Image from ESRI Digital Globe 2017

LEGEND

- SITE
- 1000 FT BUFFER

KARST POTENTIAL

- CRITICAL
- HIGH
- MEDIUM
- LOW

**Karst Potential  
North Pure Gold 8  
Federal #011**

	DRAWN: NM	FIGURE: <b>1</b>
	APPROVED: KM	
	DATE: APR 15/19	



Ruler

Path

Polygon

Circle

3D path

3D polygon

Measure the distance between two points on the ground

Map Length:

10,109.37

Feet

Ground Length:

10,111.04

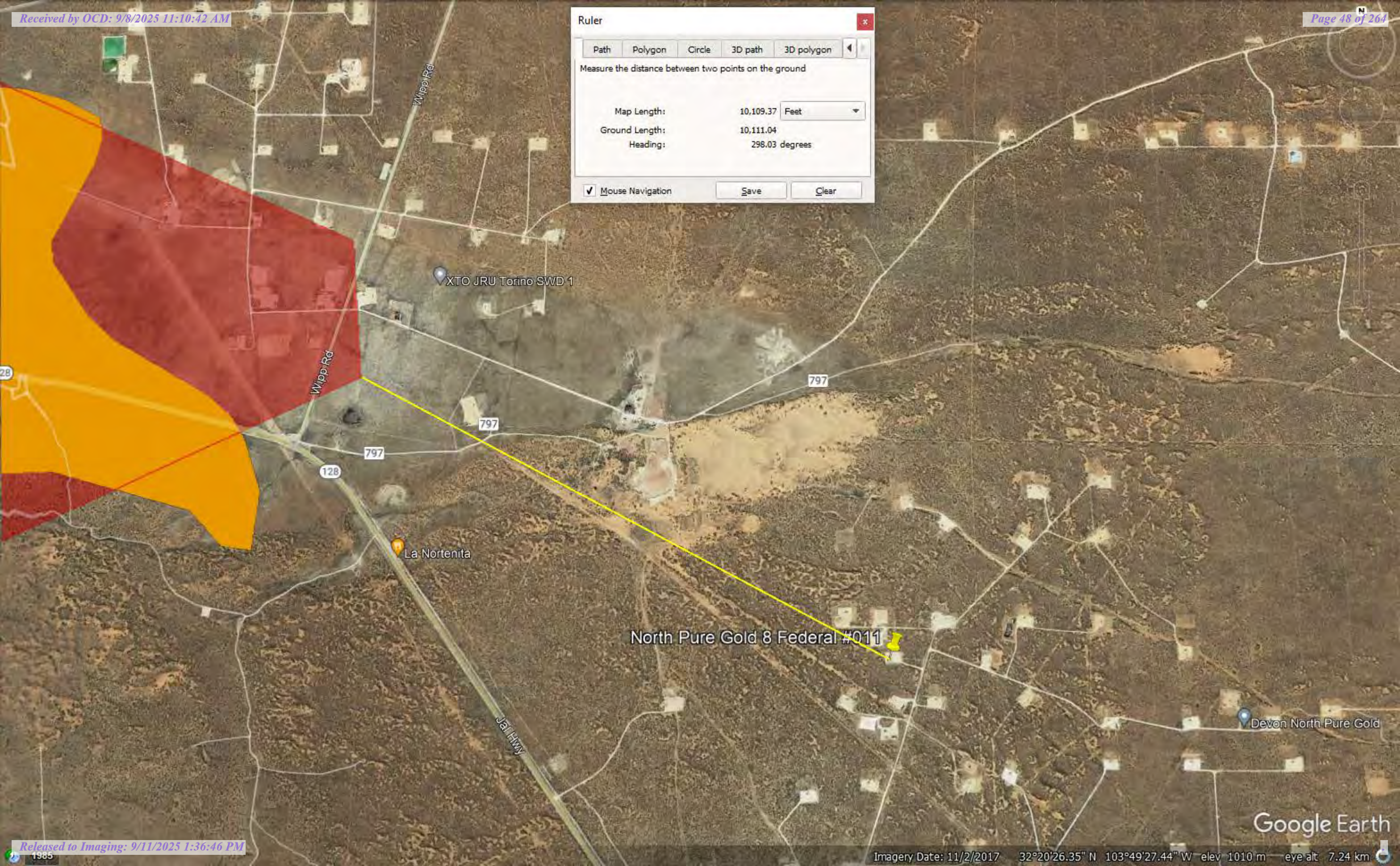
Heading:

298.03 degrees

☒ Mouse Navigation

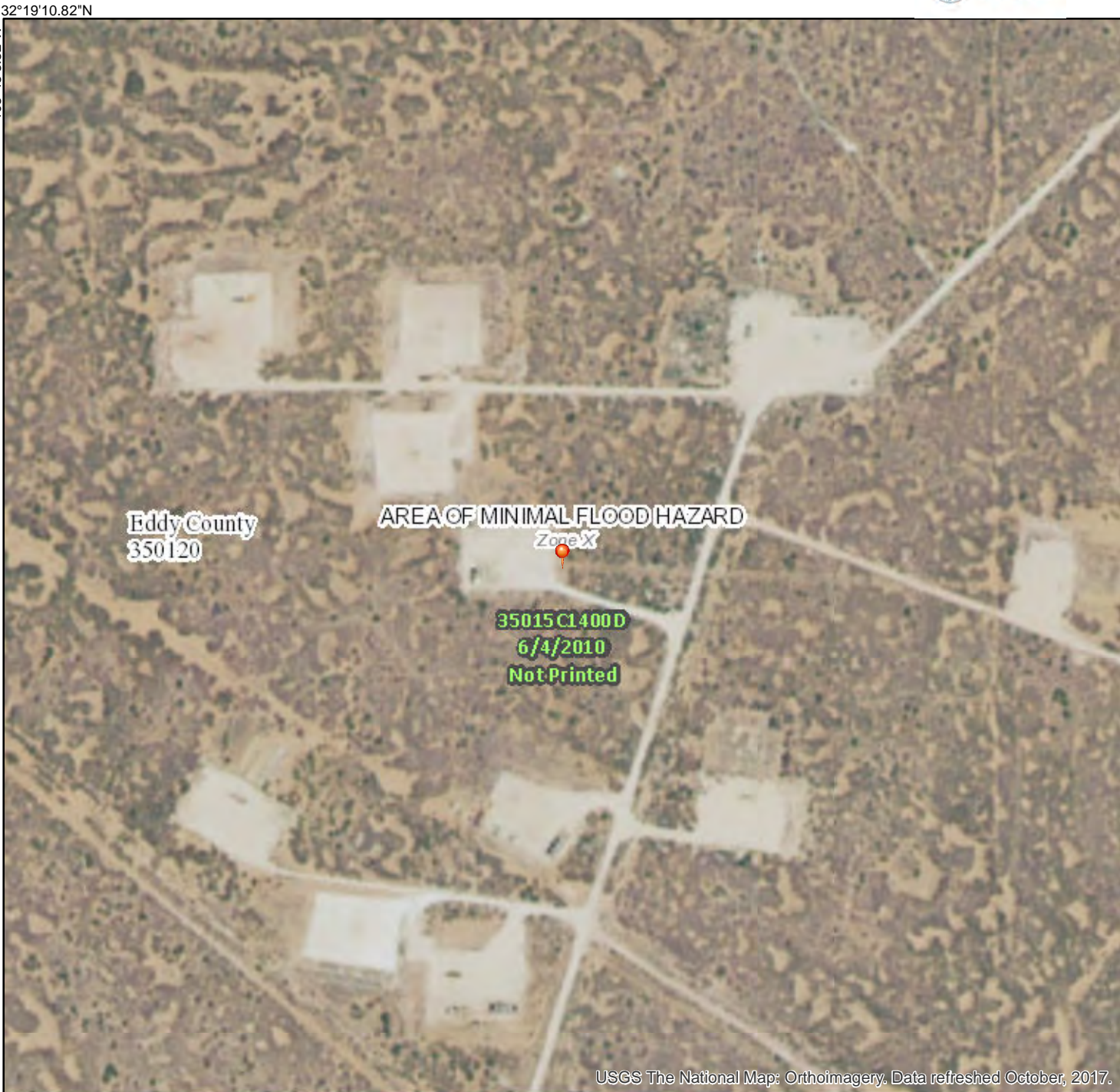
Save

Clear





# National Flood Hazard Layer FIRMette



## 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
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 4/15/2019 at 12:28:49 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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

USGS The National Map: Orthoimagery. Data refreshed October, 2017.



- AE
- AH
- AO
- County

Ruler

Path Polygon Circle 3D path 3D polygon

Measure the distance between two points on the ground

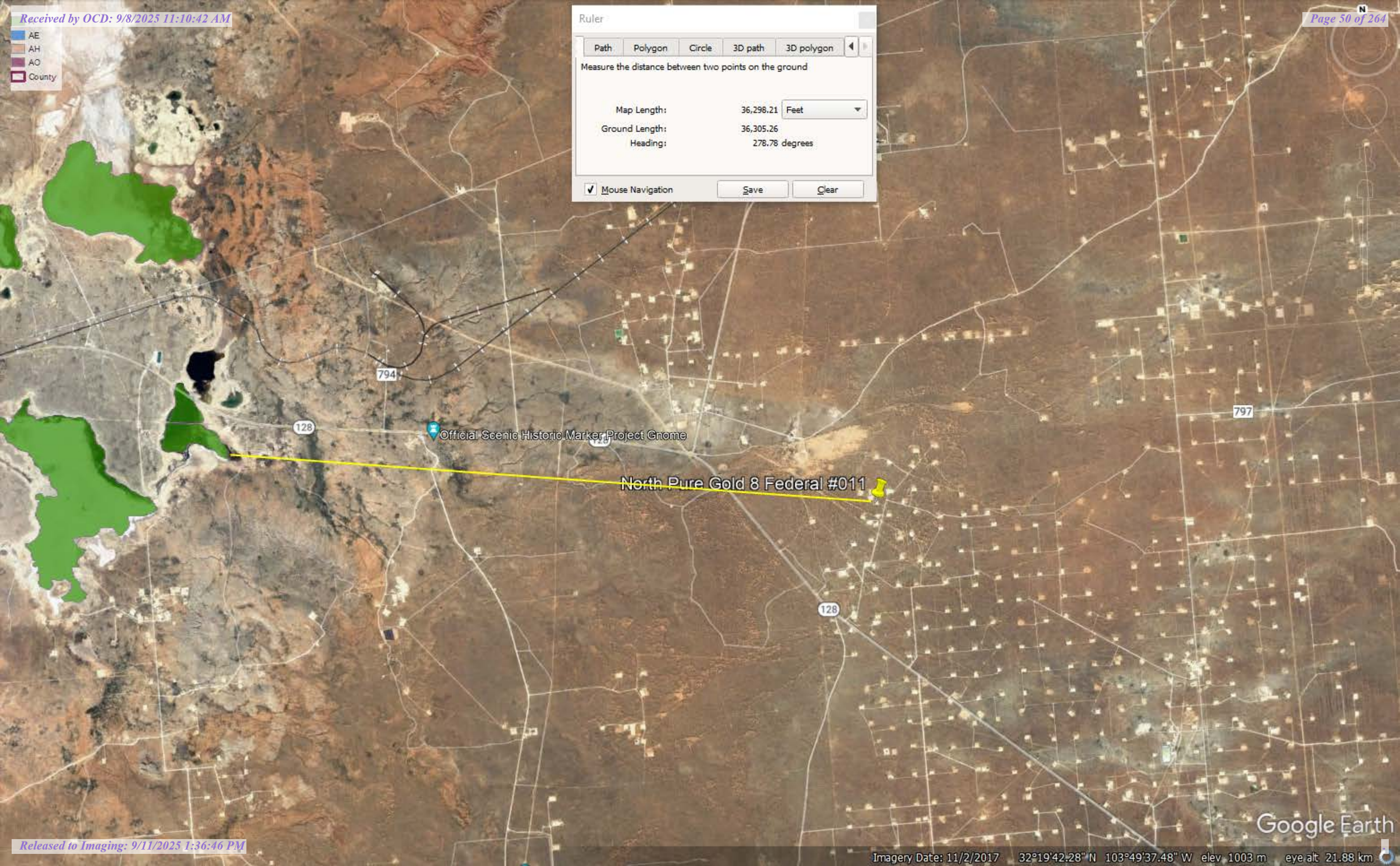
Map Length: 36,298.21 Feet

Ground Length: 36,305.26

Heading: 278.78 degrees

☒ Mouse Navigation

Save Clear







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



July 28, 2021



# Preface

---

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

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

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist ([http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2\\_053951](http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951)).

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

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

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

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## Soil Map

---

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



# 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 16, Jun 8, 2020

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

## Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	2.2	100.0%
<b>Totals for Area of Interest</b>		<b>2.2</b>	<b>100.0%</b>

## Map Unit Descriptions

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

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

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

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



## Custom Soil Resource Report

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

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

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

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

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

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

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

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



## 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:* Alluvial fans, plains*Landform position (three-dimensional):* Rise, talf*Down-slope shape:* Linear, convex*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 capacity:* Low (about 3.1 inches)**Interpretive groups***Land capability classification (irrigated):* None specified*Land capability classification (nonirrigated):* 7e*Hydrologic Soil Group:* A*Ecological site:* R042XC005NM - Deep Sand*Hydric soil rating:* No**Description of Berino****Setting***Landform:* Fan piedmonts, plains*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 capacity:* Moderate (about 7.2 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R042XC003NM - Loamy Sand  
*Hydric soil rating:* No

**Minor Components****Active dune land**

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



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## Custom Soil Resource Report

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United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. [http://www.nrcs.usda.gov/Internet/FSE\\_DOCUMENTS/nrcs142p2\\_052290.pdf](http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf)



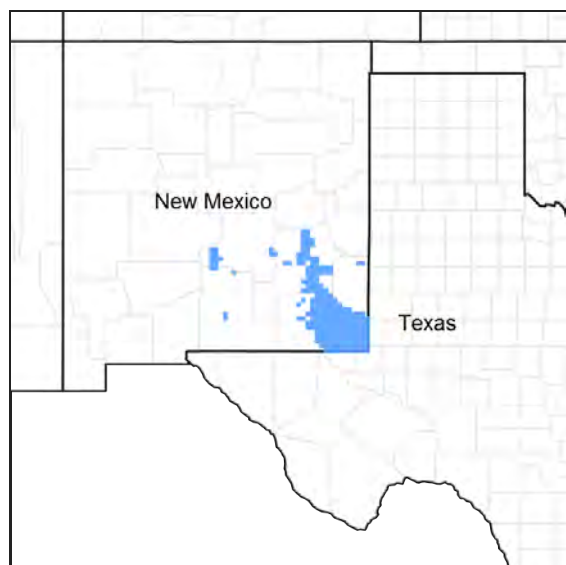
## Ecological site R042XC005NM

### Deep Sand

Accessed: 07/28/2021

#### 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)

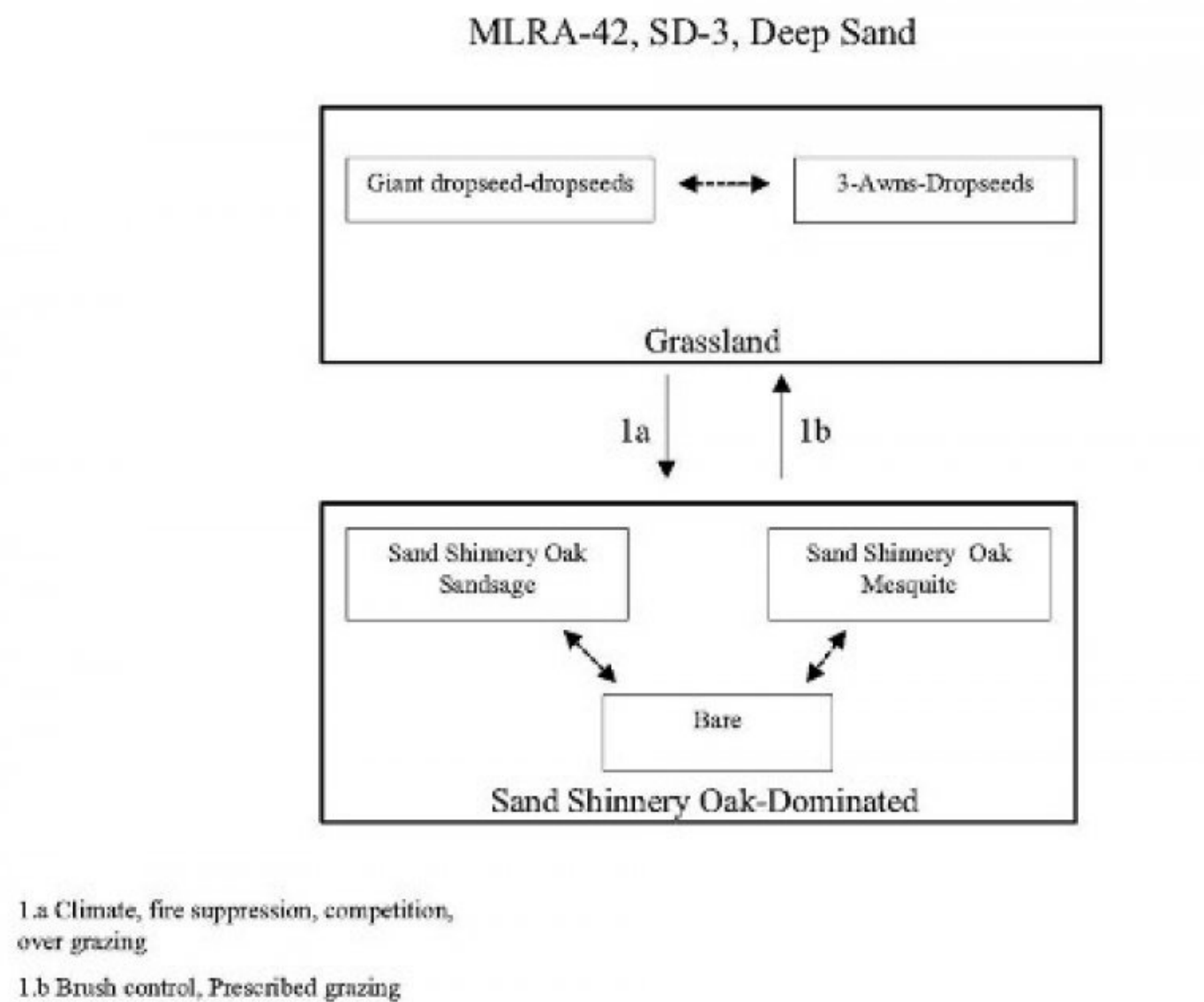


Figure 4.

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, almejita signalgrass, big bluestem, Indiangrass, fall witchgrass, hairy grama and red lovegrass

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

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

Table 5. Annual production by plant type

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

Table 6. Ground cover

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

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



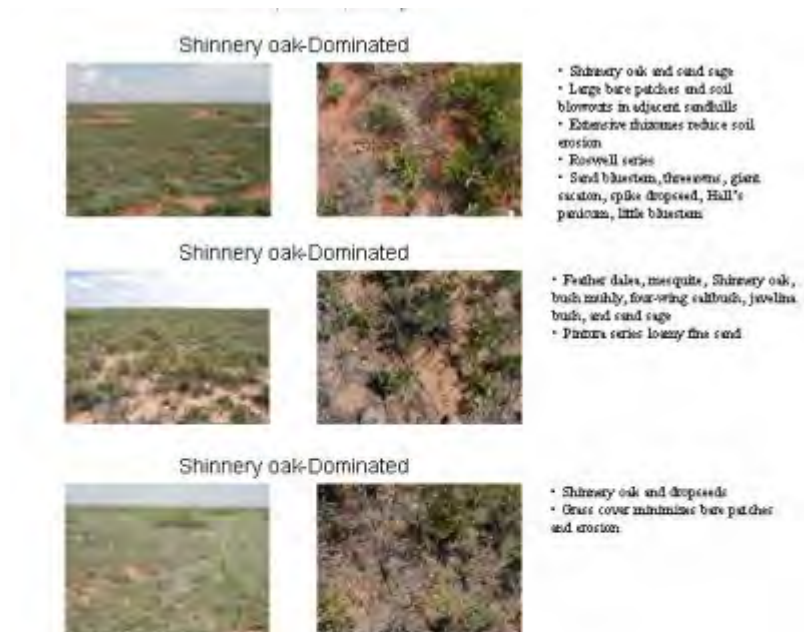
Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
0	0	3	5	10	10	25	30	12	5	0	0

## State 2

### Shinnery Oak Dominated

#### Community 2.1

#### Shinnery Oak Dominated



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

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



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

Key indicators of approach to transition:

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

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

## Additional community tables

Table 7. Community 1.1 plant community composition

Group	Common Name	Symbol	Scientific Name	Annual Production (Lb/Acre)	Foliar Cover (%)
<b>Grass/Grasslike</b>					
1	<b>Warm Season</b>			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	<b>Warm Season</b>			65–104	
	sand bluestem	ANHA	<i>Andropogon hallii</i>	65–104	–
	little bluestem	SCSC	<i>Schizachyrium scoparium</i>	65–104	–
3	<b>Warm Season</b>			39–91	
	threeawn	ARIST	<i>Aristida</i>	39–91	–
4	<b>Warm Season</b>			13–39	
	thin paspalum	PASE5	<i>Paspalum setaceum</i>	13–39	–
5	<b>Warm Season</b>			13–39	
	black grama	BOER4	<i>Bouteloua eriopoda</i>	13–39	–
6	<b>Warm Season</b>			13–39	
	mat sandbur	CELO3	<i>Cenchrus longispinus</i>	13–39	–
7	<b>Warm Season</b>			13–39	
	Havard's panicgrass	PAHA2	<i>Panicum havardii</i>	13–39	–
8	<b>Warm Season</b>			13–65	
	plains bristlegrass	SEVU2	<i>Setaria vulpiseta</i>	13–65	–
9	<b>Other Annual Grasses</b>			13–65	
	Grass, annual	2GA	<i>Grass, annual</i>	13–65	–
<b>Shrub/Vine</b>					
10	<b>Shrub</b>			65–130	
	Havard oak	QUHA3	<i>Quercus havardii</i>	65–130	–
11	<b>Shrub</b>			13–39	



	sand sagebrush	ARFI2	<i>Artemisia filifolia</i>	13–39	–
12	<b>Shrub</b>			65–130	
	yucca	YUCCA	<i>Yucca</i>	65–130	–
13	<b>Shrub</b>			13–39	
	rabbitbrush	CHRY9	<i>Chrysothamnus</i>	13–39	–
14	<b>Other Shrubs</b>			13–39	
	Shrub (>.5m)	2SHRUB	<i>Shrub (&gt;.5m)</i>	13–39	–
<b>Forb</b>					
15	<b>Forb</b>			39–91	
	croton	CROTO	<i>Croton</i>	39–91	–
	Indian blanket	GAPU	<i>Gaillardia pulchella</i>	39–91	–
16	<b>Forb</b>			39–91	
	aster	ASTER	<i>Aster</i>	39–91	–
	whitest evening primrose	OEAL	<i>Oenothera albicaulis</i>	39–91	–
	beardtongue	PENST	<i>Penstemon</i>	39–91	–
17	<b>Forb</b>			39–91	
	touristplant	DIWI2	<i>Dimorphocarpa wislizeni</i>	39–91	–
	buckwheat	ERIOG	<i>Eriogonum</i>	39–91	–
	sunflower	HELIA3	<i>Helianthus</i>	39–91	–
	spiny false fiddleleaf	HYSP	<i>Hydrolea spinosa</i>	39–91	–
	threadleaf ragwort	SEFLF	<i>Senecio flaccidus var. flaccidus</i>	39–91	–
18	<b>Other Forbs</b>			13–65	
	Forb (herbaceous, not grass nor grass-like)	2FORB	<i>Forb (herbaceous, not grass nor grass-like)</i>	13–65	–

## Animal community

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

## Hydrological functions

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

Hydrologic Interpretations

Soil Series Hydrologic Group

Anthony B

Bluepoint A

Kermit A

Aguena A

Likes A

Pintura A

## Recreational uses

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



## Wood products

This site has no potential for wood products.

## Other products

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

## Other information

Guide to Suggested Initial Stocking Rate Acres per Animal Unit Month

Similarity Index Ac/AUM

100 - 76 2.0 – 3.8

75 – 51 3.0 – 6.0

50 – 26 5.0 – 10.0

25 – 0 10.1 +

## Inventory data references

Other References:

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

## Other references

Literature Cited

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

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

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

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

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

## Contributors

Don Sylvester  
Quinn Hodgson



## Rangeland health reference sheet

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

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

## Indicators

### 1. Number and extent of rills:

---

### 2. Presence of water flow patterns:

---

### 3. Number and height of erosional pedestals or terracettes:

---

### 4. Bare ground from Ecological Site Description or other studies (rock, litter, lichen, moss, plant canopy are not bare ground):

---

### 5. Number of gullies and erosion associated with gullies:

---

### 6. Extent of wind scoured, blowouts and/or depositional areas:

---

### 7. Amount of litter movement (describe size and distance expected to travel):

---

### 8. Soil surface (top few mm) resistance to erosion (stability values are averages - most sites will show a range of values):

---

### 9. Soil surface structure and SOM content (include type of structure and A-horizon color and thickness):

---

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



- 
11. **Presence and thickness of compaction layer (usually none; describe soil profile features which may be mistaken for compaction on this site):**
- 

12. **Functional/Structural Groups (list in order of descending dominance by above-ground annual-production or live foliar cover using symbols: >>, >, = to indicate much greater than, greater than, and equal to):**

Dominant:

Sub-dominant:

Other:

Additional:

---

13. **Amount of plant mortality and decadence (include which functional groups are expected to show mortality or decadence):**
- 

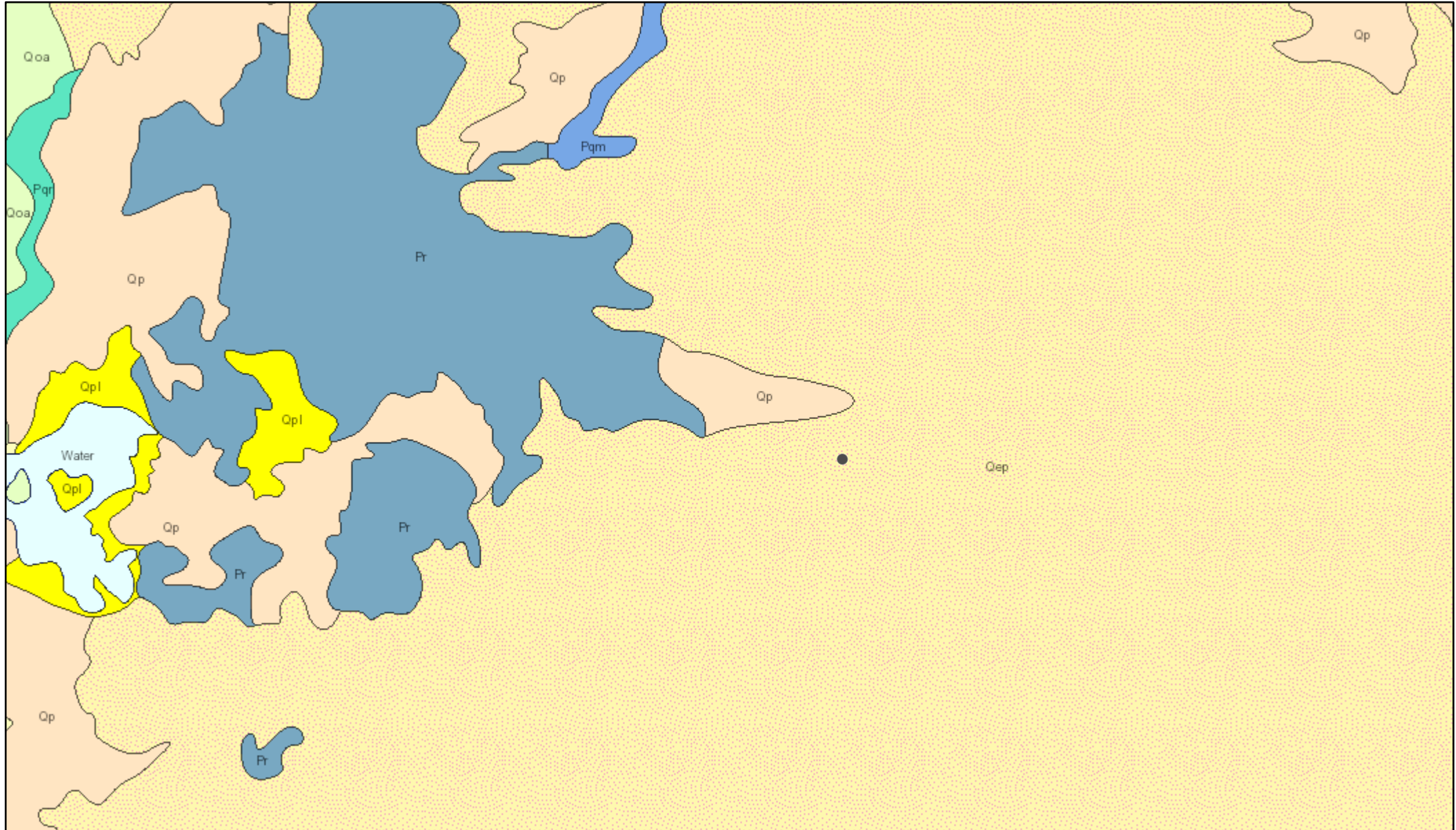
14. **Average percent litter cover (%) and depth ( in):**
- 

15. **Expected annual annual-production (this is TOTAL above-ground annual-production, not just forage annual-production):**
- 

16. **Potential invasive (including noxious) species (native and non-native). List species which BOTH characterize degraded states and have the potential to become a dominant or co-dominant species on the ecological site if their future establishment and growth is not actively controlled by management interventions. Species that become dominant for only one to several years (e.g., short-term response to drought or wildfire) are not invasive plants. Note that unlike other indicators, we are describing what is NOT expected in the reference state for the ecological site:**
- 

17. **Perennial plant reproductive capability:**
-





7/28/2021, 4:13:38 PM

Lithologic Contacts

Contact, Exposed

Contact, Gradational

Map Boundary

Faults

Fault, Exposed

Fault, Concealed

Shere Zone

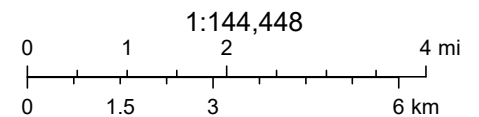
Dikes

&lt;all other values&gt;

Dike

Dike intruding fault

\* Volcanic Vents



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 and Sampling Report(s)**





# Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	North Pure Gold 8 Federal 11	API #:	30-015-32619
Inspection Date:	8/8/2025		

## Summary of Times

Arrived at Site	8/8/2025 9:54 AM
Departed Site	8/8/2025 3:30 PM

## Field Notes

**9:54** Completed safety paperwork upon arrival

**11:03** Took confirmation samples of the 4 walls in the excavation area and the base

## Next Steps & Recommendations





# Daily Site Visit Report

## Site Photos

Viewing Direction: Northwest



Excavation base was sampled

Viewing Direction: Southwest



Wall samples collected in the excavation

Viewing Direction: Southeast



Base sample 1 was collected inside the 3ft excavation

Viewing Direction: North



SS25-01 north of the excavation





## Daily Site Visit Report

Viewing Direction: North



SS25-02 through SS25-05 north west of the excavation

Viewing Direction: West



SS25-06 east of the excavation

Viewing Direction: West



SS25-06 northeast of the excavation

Viewing Direction: North



SS25-08 through SS25-10 north of the excavation





## Daily Site Visit Report

Viewing Direction: West



SS25-11 taken east of the fenced area

Viewing Direction: Northeast



SS25-12 taken north east of the fenced area

Viewing Direction: North



SS25-13 and 14 northeast of the excavation area

Viewing Direction: Southwest



Sample release are photograph from the northeast



## Daily Site Visit Report



Daily Site Visit Signature

Inspector: Katrina Taylor

Signature:

A handwritten signature in black ink, appearing to be 'KT', written over a horizontal line.

Signature





## Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	North Pure Gold 8 Federal 11	API #:	30-015-32619
Inspection Date:	8/11/2025		

### Summary of Times

Arrived at Site	8/11/2025 12:50 PM
Departed Site	8/11/2025 3:40 PM

### Field Notes

**13:16** Completed safety paperwork upon arrival

**15:39** Sampled and field screened SS25-47 through SS25-53

### Next Steps & Recommendations

1



# Daily Site Visit Report



## Site Photos

Viewing Direction: South



Descriptive Photo - 1  
Viewing Direction: South  
Desc: Samples collected along the east side of the release  
Created: 8/11/2025 1:58:02 PM  
Lat:32.315843, Long:-103.795201

Samples collected along the east side of the release

Viewing Direction: South



Descriptive Photo - 2  
Viewing Direction: Southwest  
Desc: SS25-47 and SS25-48  
Created: 8/11/2025 3:37:11 PM  
Lat:32.315323, Long:-103.795116

SS25-47 and SS25-48

Viewing Direction: East



Descriptive Photo - 3  
Viewing Direction: East  
Desc: SS25-49 and SS25-50  
Created: 8/11/2025 3:37:48 PM  
Lat:32.315487, Long:-103.795225

SS25-49 and SS25-50

Viewing Direction: Northwest



Descriptive Photo - 4  
Viewing Direction: Northwest  
Desc: SS25-51, SS25-52, and SS25-53  
Created: 8/11/2025 3:38:38 PM  
Lat:32.315524, Long:-103.795197

SS25-51, SS25-52, and SS25-53



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Katrina Taylor

**Signature:**

A handwritten signature in black ink, appearing to be 'KT', written over a horizontal line. Below the line, the word 'Signature' is printed in a small font.





## Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	North Pure Gold 8 Federal 11	API #:	30-015-32619
Inspection Date:	8/14/2025		

### Summary of Times

Arrived at Site	8/14/2025 8:20 AM
Departed Site	8/14/2025 6:03 PM

### Field Notes

**9:21** Completed safety paperwork upon arrival

**17:57** Surface Samples 15 through 46 were collected, field screened on EC, and spot checked with titrations + TPH for accuracy

**17:57** Full site photographs are included in this DFR

### Next Steps & Recommendations

1



## Daily Site Visit Report



## Site Photos

Viewing Direction: North



SS25-36 and 37

Viewing Direction: North



SS25-38, 39, and 40

Viewing Direction: West



Northeast area of sampling

Viewing Direction: North







SS25-41 and 42









## Daily Site Visit Report

<p>Viewing Direction: North</p>  <p>Descriptive Photo - 5 Viewing Direction: North Desc: SS25-43, 44, and 45 Created: 8/14/2025 10:38:27 AM Lat:32.315440, Long:-103.798169</p>	<p>Viewing Direction: North</p>  <p>Descriptive Photo - 6 Viewing Direction: North Desc: SS25-31, 32, and 33 Created: 8/14/2025 11:48:28 AM Lat:32.315370, Long:-103.798277</p>
SS25-43, 44, and 45	SS25-31, 32, and 33
<p>Viewing Direction: North</p>  <p>Descriptive Photo - 7 Viewing Direction: North Desc: SS25-34 and 35 Created: 8/14/2025 11:47:32 AM Lat:32.315360, Long:-103.798282</p>	<p>Viewing Direction: North</p>  <p>Descriptive Photo - 8 Viewing Direction: North Desc: SS25-26 and 27 Created: 8/14/2025 12:48:21 PM Lat:32.315351, Long:-103.798336</p>
SS25-34 and 35	SS25-26 and 27





## Daily Site Visit Report

<p><b>Viewing Direction: North</b></p>  <p>SS25-28 and 29. 29 was taken around the wellhead</p>	<p><b>Viewing Direction: South</b></p>  <p>SS25-30 north of the well head</p>
<p><b>Viewing Direction: North</b></p>  <p>SS25-21, 22, and 23</p>	<p><b>Viewing Direction: North</b></p>  <p>SS25-16 and SS25-17</p>





## Daily Site Visit Report

Viewing Direction: West



SS25-46 around the electrical box

Viewing Direction: North



SS25-18, 19, and 20

Viewing Direction: West



SS25-20 and SS25-15

Viewing Direction: Northwest







Release area from the southeast corner





## Daily Site Visit Report

<p><b>Viewing Direction: West</b></p>  <p><small>Descriptive Photo - 17 Viewing Direction: West Date: Release area from the eastern side Created: 8/14/2025 2:30:27 PM Lat: 32.174955, Long: -103.705155</small></p>	<p><b>Viewing Direction: West</b></p>  <p><small>Descriptive Photo - 18 Viewing Direction: West Date: Release area from the northeast corner Created: 8/14/2025 2:30:30 PM Lat: 32.174955, Long: -103.705155</small></p>
Release area from the eastern side	Release area from the northeast corner
<p><b>Viewing Direction: South</b></p>  <p><small>Descriptive Photo - 19 Viewing Direction: South Date: Release area from the north Created: 8/14/2025 2:30:33 PM Lat: 32.174955, Long: -103.705155</small></p>	<p><b>Viewing Direction: Southeast</b></p>  <p><small>Descriptive Photo - 20 Viewing Direction: Southeast Date: Release area from the northwest corner Created: 8/14/2025 2:30:36 PM Lat: 32.174955, Long: -103.705155</small></p>
Release area from the north	Release area from the northwest corner





## Daily Site Visit Report

Viewing Direction: East



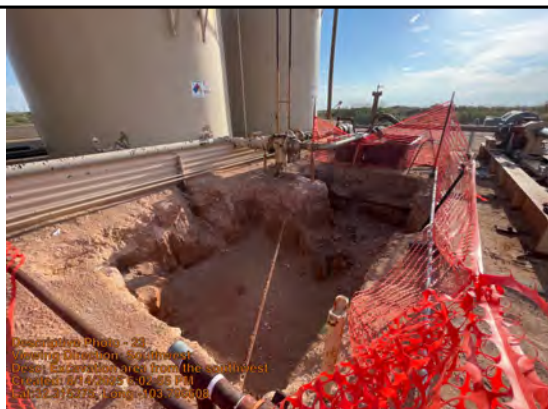
Release area from the west

Viewing Direction: North



Release area from the south overlooking the excavation area

Viewing Direction: Southwest



Excavation area from the southwest



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Katrina Taylor

**Signature:**

A handwritten signature in black ink, appearing to be 'KT' or similar, written over a horizontal line.

Signature





# Daily Site Visit Report

Client:	Devon Energy Corporation	Incident ID #:	
Site Location Name:	North Pure Gold 8 Federal 11	API #:	30-015-32619
Inspection Date:	8/22/2025		

## Summary of Times

Arrived at Site	8/22/2025 3:59 PM
Departed Site	8/22/2025 4:53 PM

## Field Notes

18:30 JSA has been filled out on site

18:32 Site visit to view area

18:32 Excavation has been backfilled

## Next Steps & Recommendations

1





# Daily Site Visit Report

## Site Photos

### Viewing Direction: Northwest



Excavation area has been backfilled.  
Excavation area was within the green lines.  
Image taken from the Southeast corner of  
where the excavation was located.

### Viewing Direction: Northwest



Excavation area has been backfilled.  
Excavation area was within the green lines.  
Image taken from the east end of where the  
excavation was located.





## Daily Site Visit Report

### Viewing Direction: Southeast



Excavation area has been backfilled. Image taken from the West end where the excavation was located.

### Viewing Direction: Southeast



Site view of the area from the Northeast corner

### Viewing Direction: Northwest



Site view of the area from the Northeast corner



## Daily Site Visit Report



Daily Site Visit Signature

**Inspector:** Sharon Minnix

**Signature:**

A handwritten signature in black ink, appearing to be 'S. Minnix', written over a horizontal line. The word 'Signature' is printed in small text below the line.



## **APPENDIX D – Notification(s)**





Outlook

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**RE: [EXTERNAL] nAB1727057447, nAB1813442138, nMAP1826042805, and nAPP2106151044 Sampling Variance Request**

---

**From** Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

**Date** Fri 8/8/2025 11:53 AM

**To** Sally Carttar <SCarttar@vertexresource.com>; Kent Stallings <kstallings@vertexresource.com>; Raley, Jim <jim.raley@dyn.com>

**Caution:** This email is from an external sender. Please take care when clicking links or opening attachments. When in doubt, contact your IT Department

Good morning,

The OCD approves the sampling variance request for surface samples to be collected every 400 sq. feet at the North Pure Gold 8 Federal 11 site. Please include a copy of this correspondence with your report submission.

Thank you,

---

**From:** Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>

**Sent:** Wednesday, August 6, 2025 8:50 AM

**To:** Buchanan, Michael, EMNRD <Michael.Buchanan@emnrd.nm.gov>

**Cc:** Bratcher, Michael, EMNRD <mike.bratcher@emnrd.nm.gov>

**Subject:** FW: [EXTERNAL] nAB1727057447, nAB1813442138, nMAP1826042805, and nAPP2106151044 Sampling Variance Request

---

**From:** Sally Carttar <[SCarttar@vertexresource.com](mailto:SCarttar@vertexresource.com)>

**Sent:** Tuesday, August 5, 2025 1:45 PM

**To:** Enviro, OCD, EMNRD <[OCD.Enviro@emnrd.nm.gov](mailto:OCD.Enviro@emnrd.nm.gov)>

**Cc:** Kent Stallings <[kstallings@vertexresource.com](mailto:kstallings@vertexresource.com)>; Raley, Jim <[jim.raley@dyn.com](mailto:jim.raley@dyn.com)>

**Subject:** [EXTERNAL] nAB1727057447, nAB1813442138, nMAP1826042805, and nAPP2106151044 Sampling Variance Request

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

Good afternoon,

Devon is requesting a 400 sq.ft. sampling variance for surface samples at the North Pure Gold 8 Federal 11, incident IDs nAB1727057447, nAB1813442138, nMAP1826042805, and nAPP2106151044. The remaining sampling area is approximately 21,028 square feet, all of which is on-pad and was shown during delineation to meet on-pad criteria. Samples of all excavation areas (255 sq.ft.) will be collected as described in 19.15.29.12, each representative of no more than 200 sq.ft.



All samples will be analyzed at an accredited laboratory to ensure that all samples are below NMOCD closure criteria for a release >100 feet depth to groundwater.

I have attached the approved remediation plan for the releases.

Best regards,

**Sally Carttar**

Project Manager  
Vertex Resource Services Inc.  
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## **APPENDIX E – Laboratory Data Report(s) and Chain of Custody Form(s)**





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 8/15/2025 1:28:31 PM

## JOB DESCRIPTION

North Pure Gold 8 Federal 011

## JOB NUMBER

885-30730-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109

See page two for job notes and contact information.  
Released to Imaging: 9/11/2025 1:50:00 PM



# 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



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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 8 Federal 011

Laboratory Job ID: 885-30730-1

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Definitions/Glossary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30730-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.

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 8 Federal 011

Job ID: 885-30730-1

**Job ID: 885-30730-1**

**Eurofins Albuquerque**

### Job Narrative 885-30730-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

### Receipt

The samples were received on 8/12/2025 7:30 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 0.1°C.

### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### GC VOA

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: The continuing calibration verification (CCV) associated with batch 885-32313 recovered above the upper control limit for Diesel Range Organics [C10-C28]. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are: WS25-02 0-3' (885-30730-3), WS25-03 0-3' (885-30730-4), WS25-04 0-3' (885-30730-5) and (885-30639-A-7-D).

Method 8015D\_DRO: Surrogate recovery for the following samples were outside the upper control limit: WS25-03 0-3' (885-30730-4) and (885-30639-A-7-D). This sample did not contain any target analytes; 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.

### 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: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: BS25-01 3'

Lab Sample ID: 885-30730-1

Date Collected: 08/08/25 10:50

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/12/25 17:28	08/13/25 23:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/12/25 17:28	08/13/25 23:23	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/12/25 17:28	08/13/25 23:23	1
Ethylbenzene	ND		0.048	mg/Kg		08/12/25 17:28	08/13/25 23:23	1
Toluene	ND		0.048	mg/Kg		08/12/25 17:28	08/13/25 23:23	1
Xylenes, Total	ND		0.095	mg/Kg		08/12/25 17:28	08/13/25 23:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/12/25 17:28	08/13/25 23:23	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]	170		9.9	mg/Kg		08/13/25 10:06	08/15/25 11:37	1
Motor Oil Range Organics [C28-C40]	590		49	mg/Kg		08/13/25 10:06	08/15/25 11:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	131		62 - 134			08/13/25 10:06	08/15/25 11:37	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2800		60	mg/Kg		08/13/25 09:16	08/13/25 12:59	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: WS25-01 0-3'

Lab Sample ID: 885-30730-2

Date Collected: 08/08/25 10:10

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/12/25 17:28	08/13/25 23:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/12/25 17:28	08/13/25 23:47	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/12/25 17:28	08/13/25 23:47	1
Ethylbenzene	ND		0.050	mg/Kg		08/12/25 17:28	08/13/25 23:47	1
Toluene	ND		0.050	mg/Kg		08/12/25 17:28	08/13/25 23:47	1
Xylenes, Total	ND		0.099	mg/Kg		08/12/25 17:28	08/13/25 23:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/12/25 17:28	08/13/25 23:47	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		9.8	mg/Kg		08/13/25 10:06	08/15/25 12:20	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/13/25 10:06	08/15/25 12:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			08/13/25 10:06	08/15/25 12:20	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		60	mg/Kg		08/13/25 09:16	08/13/25 13:08	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: WS25-02 0-3'

Lab Sample ID: 885-30730-3

Date Collected: 08/08/25 10:20

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/12/25 17:28	08/14/25 00:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/12/25 17:28	08/14/25 00:10	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/12/25 17:28	08/14/25 00:10	1
Ethylbenzene	ND		0.049	mg/Kg		08/12/25 17:28	08/14/25 00:10	1
Toluene	ND		0.049	mg/Kg		08/12/25 17:28	08/14/25 00:10	1
Xylenes, Total	ND		0.099	mg/Kg		08/12/25 17:28	08/14/25 00:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/12/25 17:28	08/14/25 00:10	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]	ND		9.8	mg/Kg		08/13/25 10:06	08/14/25 14:31	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/13/25 10:06	08/14/25 14:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			08/13/25 10:06	08/14/25 14:31	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6500		60	mg/Kg		08/13/25 09:16	08/13/25 13:18	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: WS25-03 0-3'

Lab Sample ID: 885-30730-4

Date Collected: 08/08/25 10:30

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/12/25 17:28	08/14/25 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/12/25 17:28	08/14/25 00:34	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/12/25 17:28	08/14/25 00:34	1
Ethylbenzene	ND		0.048	mg/Kg		08/12/25 17:28	08/14/25 00:34	1
Toluene	ND		0.048	mg/Kg		08/12/25 17:28	08/14/25 00:34	1
Xylenes, Total	ND		0.096	mg/Kg		08/12/25 17:28	08/14/25 00:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/12/25 17:28	08/14/25 00:34	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]	ND		9.9	mg/Kg		08/13/25 10:06	08/14/25 14:53	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/13/25 10:06	08/14/25 14:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	143	S1+	62 - 134			08/13/25 10:06	08/14/25 14:53	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		60	mg/Kg		08/13/25 09:16	08/13/25 13:28	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: WS25-04 0-3'

Lab Sample ID: 885-30730-5

Date Collected: 08/08/25 10:40

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/12/25 17:28	08/14/25 00:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/12/25 17:28	08/14/25 00:58	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/12/25 17:28	08/14/25 00:58	1
Ethylbenzene	ND		0.047	mg/Kg		08/12/25 17:28	08/14/25 00:58	1
Toluene	ND		0.047	mg/Kg		08/12/25 17:28	08/14/25 00:58	1
Xylenes, Total	ND		0.094	mg/Kg		08/12/25 17:28	08/14/25 00:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/12/25 17:28	08/14/25 00:58	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		9.0	mg/Kg		08/13/25 10:06	08/14/25 15:05	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		08/13/25 10:06	08/14/25 15:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			08/13/25 10:06	08/14/25 15:05	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	150		60	mg/Kg		08/13/25 09:16	08/13/25 13:38	20

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## QC Sample Results

Client: Vertex

Job ID: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-32173/1-A

Matrix: Solid

Analysis Batch: 32294

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32173

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/12/25 17:28	08/13/25 22:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/12/25 17:28	08/13/25 22:59	1

Lab Sample ID: LCS 885-32173/2-A

Matrix: Solid

Analysis Batch: 32294

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	21.6		mg/Kg		86	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	188		15 - 150				

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-32173/1-A

Matrix: Solid

Analysis Batch: 32293

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32173

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/12/25 17:28	08/13/25 22:59	1
Ethylbenzene	ND		0.050	mg/Kg		08/12/25 17:28	08/13/25 22:59	1
Toluene	ND		0.050	mg/Kg		08/12/25 17:28	08/13/25 22:59	1
Xylenes, Total	ND		0.10	mg/Kg		08/12/25 17:28	08/13/25 22:59	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		15 - 150			08/12/25 17:28	08/13/25 22:59	1

Lab Sample ID: LCS 885-32173/3-A

Matrix: Solid

Analysis Batch: 32293

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32173

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.873		mg/Kg		87	70 - 130
Ethylbenzene	1.00	0.867		mg/Kg		87	70 - 130
m-Xylene & p-Xylene	2.00	1.82		mg/Kg		91	70 - 130
o-Xylene	1.00	0.867		mg/Kg		87	70 - 130
Toluene	1.00	0.872		mg/Kg		87	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	82		15 - 150				

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## QC Sample Results

Client: Vertex

Job ID: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

## Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-32212/1-A

Matrix: Solid

Analysis Batch: 32313

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32212

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/13/25 10:06	08/14/25 12:52	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/13/25 10:06	08/14/25 12:52	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			08/13/25 10:06	08/14/25 12:52	1

Lab Sample ID: LCS 885-32212/2-A

Matrix: Solid

Analysis Batch: 32313

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32212

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Diesel Range Organics [C10-C28]	50.0	57.7		mg/Kg		115	51 - 148	
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Di-n-octyl phthalate (Surr)	122		62 - 134					

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-32198/1-A

Matrix: Solid

Analysis Batch: 32211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32198

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		08/13/25 09:16	08/13/25 10:40	1
Surrogate	LCS %Recovery	LCS Qualifier	Limits					
Chloride	15.0		14.7	mg/Kg		98	90 - 110	

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## QC Association Summary

Client: Vertex

Job ID: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

## GC VOA

## Prep Batch: 32173

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30730-1	BS25-01 3'	Total/NA	Solid	5030C	
885-30730-2	WS25-01 0-3'	Total/NA	Solid	5030C	
885-30730-3	WS25-02 0-3'	Total/NA	Solid	5030C	
885-30730-4	WS25-03 0-3'	Total/NA	Solid	5030C	
885-30730-5	WS25-04 0-3'	Total/NA	Solid	5030C	
MB 885-32173/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-32173/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-32173/3-A	Lab Control Sample	Total/NA	Solid	5030C	

## Analysis Batch: 32293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30730-1	BS25-01 3'	Total/NA	Solid	8021B	32173
885-30730-2	WS25-01 0-3'	Total/NA	Solid	8021B	32173
885-30730-3	WS25-02 0-3'	Total/NA	Solid	8021B	32173
885-30730-4	WS25-03 0-3'	Total/NA	Solid	8021B	32173
885-30730-5	WS25-04 0-3'	Total/NA	Solid	8021B	32173
MB 885-32173/1-A	Method Blank	Total/NA	Solid	8021B	32173
LCS 885-32173/3-A	Lab Control Sample	Total/NA	Solid	8021B	32173

## Analysis Batch: 32294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30730-1	BS25-01 3'	Total/NA	Solid	8015M/D	32173
885-30730-2	WS25-01 0-3'	Total/NA	Solid	8015M/D	32173
885-30730-3	WS25-02 0-3'	Total/NA	Solid	8015M/D	32173
885-30730-4	WS25-03 0-3'	Total/NA	Solid	8015M/D	32173
885-30730-5	WS25-04 0-3'	Total/NA	Solid	8015M/D	32173
MB 885-32173/1-A	Method Blank	Total/NA	Solid	8015M/D	32173
LCS 885-32173/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32173

## GC Semi VOA

## Prep Batch: 32212

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30730-1	BS25-01 3'	Total/NA	Solid	SHAKE	
885-30730-2	WS25-01 0-3'	Total/NA	Solid	SHAKE	
885-30730-3	WS25-02 0-3'	Total/NA	Solid	SHAKE	
885-30730-4	WS25-03 0-3'	Total/NA	Solid	SHAKE	
885-30730-5	WS25-04 0-3'	Total/NA	Solid	SHAKE	
MB 885-32212/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-32212/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## Analysis Batch: 32313

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30730-3	WS25-02 0-3'	Total/NA	Solid	8015M/D	32212
885-30730-4	WS25-03 0-3'	Total/NA	Solid	8015M/D	32212
885-30730-5	WS25-04 0-3'	Total/NA	Solid	8015M/D	32212
MB 885-32212/1-A	Method Blank	Total/NA	Solid	8015M/D	32212
LCS 885-32212/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32212

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QC Association Summary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30730-1

GC Semi VOA

Analysis Batch: 32439

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30730-1	BS25-01 3'	Total/NA	Solid	8015M/D	32212
885-30730-2	WS25-01 0-3'	Total/NA	Solid	8015M/D	32212

HPLC/IC

Prep Batch: 32198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30730-1	BS25-01 3'	Total/NA	Solid	300_Prep	
885-30730-2	WS25-01 0-3'	Total/NA	Solid	300_Prep	
885-30730-3	WS25-02 0-3'	Total/NA	Solid	300_Prep	
885-30730-4	WS25-03 0-3'	Total/NA	Solid	300_Prep	
885-30730-5	WS25-04 0-3'	Total/NA	Solid	300_Prep	
MB 885-32198/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-32198/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Analysis Batch: 32211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30730-1	BS25-01 3'	Total/NA	Solid	300.0	32198
885-30730-2	WS25-01 0-3'	Total/NA	Solid	300.0	32198
885-30730-3	WS25-02 0-3'	Total/NA	Solid	300.0	32198
885-30730-4	WS25-03 0-3'	Total/NA	Solid	300.0	32198
885-30730-5	WS25-04 0-3'	Total/NA	Solid	300.0	32198
MB 885-32198/1-A	Method Blank	Total/NA	Solid	300.0	32198
LCS 885-32198/2-A	Lab Control Sample	Total/NA	Solid	300.0	32198



## Lab Chronicle

Client: Vertex

Job ID: 885-30730-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: BS25-01 3'

Lab Sample ID: 885-30730-1

Date Collected: 08/08/25 10:50

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8015M/D		1	32294	JP	EET ALB	08/13/25 23:23
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8021B		1	32293	JP	EET ALB	08/13/25 23:23
Total/NA	Prep	SHAKE			32212	JM	EET ALB	08/13/25 10:06
Total/NA	Analysis	8015M/D		1	32439	JE	EET ALB	08/15/25 11:37
Total/NA	Prep	300_Prep			32198	RC	EET ALB	08/13/25 09:16
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 12:59

Client Sample ID: WS25-01 0-3'

Lab Sample ID: 885-30730-2

Date Collected: 08/08/25 10:10

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8015M/D		1	32294	JP	EET ALB	08/13/25 23:47
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8021B		1	32293	JP	EET ALB	08/13/25 23:47
Total/NA	Prep	SHAKE			32212	JM	EET ALB	08/13/25 10:06
Total/NA	Analysis	8015M/D		1	32439	JE	EET ALB	08/15/25 12:20
Total/NA	Prep	300_Prep			32198	RC	EET ALB	08/13/25 09:16
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 13:08

Client Sample ID: WS25-02 0-3'

Lab Sample ID: 885-30730-3

Date Collected: 08/08/25 10:20

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8015M/D		1	32294	JP	EET ALB	08/14/25 00:10
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8021B		1	32293	JP	EET ALB	08/14/25 00:10
Total/NA	Prep	SHAKE			32212	JM	EET ALB	08/13/25 10:06
Total/NA	Analysis	8015M/D		1	32313	JE	EET ALB	08/14/25 14:31
Total/NA	Prep	300_Prep			32198	RC	EET ALB	08/13/25 09:16
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 13:18

Client Sample ID: WS25-03 0-3'

Lab Sample ID: 885-30730-4

Date Collected: 08/08/25 10:30

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8015M/D		1	32294	JP	EET ALB	08/14/25 00:34

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Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30730-1

**Client Sample ID: WS25-03 0-3'**  
**Date Collected: 08/08/25 10:30**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30730-4**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8021B		1	32293	JP	EET ALB	08/14/25 00:34
Total/NA	Prep	SHAKE			32212	JM	EET ALB	08/13/25 10:06
Total/NA	Analysis	8015M/D		1	32313	JE	EET ALB	08/14/25 14:53
Total/NA	Prep	300_Prep			32198	RC	EET ALB	08/13/25 09:16
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 13:28

**Client Sample ID: WS25-04 0-3'**  
**Date Collected: 08/08/25 10:40**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30730-5**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8015M/D		1	32294	JP	EET ALB	08/14/25 00:58
Total/NA	Prep	5030C			32173	KLS	EET ALB	08/12/25 17:28
Total/NA	Analysis	8021B		1	32293	JP	EET ALB	08/14/25 00:58
Total/NA	Prep	SHAKE			32212	JM	EET ALB	08/13/25 10:06
Total/NA	Analysis	8015M/D		1	32313	JE	EET ALB	08/14/25 15:05
Total/NA	Prep	300_Prep			32198	RC	EET ALB	08/13/25 09:16
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 13:38

**Laboratory References:**  
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975



Accreditation/Certification Summary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30730-1

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







## Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-30730-1

Login Number: 30730

List Source: Eurofins Albuquerque

List Number: 1

Creator: Alderette, Joseph

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
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.	True	
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	N/A	
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	





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 8/19/2025 3:28:19 PM

## JOB DESCRIPTION

North Pure Gold 8 Federal 011

## JOB NUMBER

885-30757-1

Eurofins Albuquerque  
4901 Hawkins NE  
Albuquerque NM 87109

Released to Imaging: 9/11/2025 1:50:00 PM



# 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



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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 8 Federal 011

Laboratory Job ID: 885-30757-1



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Definitions/Glossary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

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 8 Federal 011

Job ID: 885-30757-1

**Job ID: 885-30757-1**

**Eurofins Albuquerque**

### Job Narrative 885-30757-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

#### Receipt

The samples were received on 8/12/2025 7:30 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 0.1°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### Diesel Range Organics

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: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-01 0'

Lab Sample ID: 885-30757-1

Date Collected: 08/08/25 13:00

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 10:32	08/15/25 07:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/13/25 10:32	08/15/25 07:18	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 10:32	08/15/25 07:18	1
Ethylbenzene	ND		0.049	mg/Kg		08/13/25 10:32	08/15/25 07:18	1
Toluene	ND		0.049	mg/Kg		08/13/25 10:32	08/15/25 07:18	1
Xylenes, Total	ND		0.098	mg/Kg		08/13/25 10:32	08/15/25 07:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/13/25 10:32	08/15/25 07:18	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		9.7	mg/Kg		08/13/25 12:18	08/14/25 19:02	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/13/25 12:18	08/14/25 19:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			08/13/25 12:18	08/14/25 19:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6700		60	mg/Kg		08/13/25 12:04	08/13/25 20:02	20

Eurofins Albuquerque



Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

Client Sample ID: SS25-02 0'  
Date Collected: 08/08/25 13:05  
Date Received: 08/12/25 07:30

Lab Sample ID: 885-30757-2  
Matrix: Solid

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		08/13/25 10:32	08/15/25 07:40	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	95		15 - 150			08/13/25 10:32	08/15/25 07:40	1	

Method: SW846 8021B - Volatile Organic Compounds (GC)									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Benzene	ND		0.024	mg/Kg		08/13/25 10:32	08/15/25 07:40	1	
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 10:32	08/15/25 07:40	1	
Toluene	ND		0.048	mg/Kg		08/13/25 10:32	08/15/25 07:40	1	
Xylenes, Total	ND		0.096	mg/Kg		08/13/25 10:32	08/15/25 07:40	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	94		15 - 150			08/13/25 10:32	08/15/25 07:40	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]	9.3		9.2	mg/Kg		08/13/25 12:18	08/14/25 19:26	1	
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/13/25 12:18	08/14/25 19:26	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
Di-n-octyl phthalate (Surr)	93		62 - 134			08/13/25 12:18	08/14/25 19:26	1	

Method: EPA 300.0 - Anions, Ion Chromatography									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	2000		60	mg/Kg		08/13/25 12:04	08/13/25 20:12	20	



## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-03 0'

Lab Sample ID: 885-30757-3

Date Collected: 08/08/25 13:10

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 10:32	08/15/25 08:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/13/25 10:32	08/15/25 08:02	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 10:32	08/15/25 08:02	1
Ethylbenzene	ND		0.049	mg/Kg		08/13/25 10:32	08/15/25 08:02	1
Toluene	ND		0.049	mg/Kg		08/13/25 10:32	08/15/25 08:02	1
Xylenes, Total	ND		0.098	mg/Kg		08/13/25 10:32	08/15/25 08:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/13/25 10:32	08/15/25 08:02	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		9.1	mg/Kg		08/13/25 12:18	08/14/25 19:50	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/13/25 12:18	08/14/25 19:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			08/13/25 12:18	08/14/25 19:50	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		60	mg/Kg		08/13/25 12:04	08/13/25 20:41	20

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

Client Sample ID: SS25-04 0'

Lab Sample ID: 885-30757-4

Date Collected: 08/08/25 13:15

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 10:32	08/15/25 08:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/13/25 10:32	08/15/25 08:23	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/13/25 10:32	08/15/25 08:23	1
Ethylbenzene	ND		0.049	mg/Kg		08/13/25 10:32	08/15/25 08:23	1
Toluene	ND		0.049	mg/Kg		08/13/25 10:32	08/15/25 08:23	1
Xylenes, Total	ND		0.099	mg/Kg		08/13/25 10:32	08/15/25 08:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			08/13/25 10:32	08/15/25 08:23	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		8.7	mg/Kg		08/13/25 12:18	08/14/25 20:14	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		08/13/25 12:18	08/14/25 20:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	80		62 - 134			08/13/25 12:18	08/14/25 20:14	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	970		60	mg/Kg		08/13/25 12:04	08/13/25 20:51	20

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-05 0'

Lab Sample ID: 885-30757-5

Date Collected: 08/08/25 13:20

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/14/25 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/13/25 13:52	08/14/25 20:32	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/13/25 13:52	08/14/25 20:32	1
Ethylbenzene	ND		0.050	mg/Kg		08/13/25 13:52	08/14/25 20:32	1
Toluene	ND		0.050	mg/Kg		08/13/25 13:52	08/14/25 20:32	1
Xylenes, Total	ND		0.10	mg/Kg		08/13/25 13:52	08/14/25 20:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/13/25 13:52	08/14/25 20:32	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]	ND		9.5	mg/Kg		08/15/25 10:08	08/18/25 12:14	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/15/25 10:08	08/18/25 12:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			08/15/25 10:08	08/18/25 12:14	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		60	mg/Kg		08/13/25 15:30	08/13/25 22:59	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-06 0'

Lab Sample ID: 885-30757-6

Date Collected: 08/08/25 13:25

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/14/25 22:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/13/25 13:52	08/14/25 22:07	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/13/25 13:52	08/14/25 22:07	1
Ethylbenzene	ND		0.050	mg/Kg		08/13/25 13:52	08/14/25 22:07	1
Toluene	ND		0.050	mg/Kg		08/13/25 13:52	08/14/25 22:07	1
Xylenes, Total	ND		0.10	mg/Kg		08/13/25 13:52	08/14/25 22:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/14/25 22:07	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		9.5	mg/Kg		08/15/25 10:08	08/18/25 12:25	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/15/25 10:08	08/18/25 12:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			08/15/25 10:08	08/18/25 12:25	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4200		60	mg/Kg		08/13/25 15:30	08/13/25 23:09	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-07 0'

Lab Sample ID: 885-30757-7

Date Collected: 08/08/25 13:30

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/14/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/13/25 13:52	08/14/25 23:41	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/13/25 13:52	08/14/25 23:41	1
Ethylbenzene	ND		0.047	mg/Kg		08/13/25 13:52	08/14/25 23:41	1
Toluene	ND		0.047	mg/Kg		08/13/25 13:52	08/14/25 23:41	1
Xylenes, Total	ND		0.094	mg/Kg		08/13/25 13:52	08/14/25 23:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/13/25 13:52	08/14/25 23:41	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		9.4	mg/Kg		08/15/25 10:08	08/18/25 12:36	1
Motor Oil Range Organics [C28-C40]	51		47	mg/Kg		08/15/25 10:08	08/18/25 12:36	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	111		62 - 134			08/15/25 10:08	08/18/25 12:36	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1200		60	mg/Kg		08/13/25 15:30	08/13/25 23:19	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-08 0'

Lab Sample ID: 885-30757-8

Date Collected: 08/08/25 13:35

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/15/25 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/13/25 13:52	08/15/25 00:05	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/15/25 00:05	1
Ethylbenzene	ND		0.049	mg/Kg		08/13/25 13:52	08/15/25 00:05	1
Toluene	ND		0.049	mg/Kg		08/13/25 13:52	08/15/25 00:05	1
Xylenes, Total	ND		0.098	mg/Kg		08/13/25 13:52	08/15/25 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/13/25 13:52	08/15/25 00:05	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]	12		10	mg/Kg		08/15/25 10:08	08/18/25 12:47	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/15/25 10:08	08/18/25 12:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			08/15/25 10:08	08/18/25 12:47	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4200		60	mg/Kg		08/13/25 15:30	08/13/25 23:28	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-09 0'

Lab Sample ID: 885-30757-9

Date Collected: 08/08/25 13:40

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/15/25 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/13/25 13:52	08/15/25 00:28	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/15/25 00:28	1
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 13:52	08/15/25 00:28	1
Toluene	ND		0.048	mg/Kg		08/13/25 13:52	08/15/25 00:28	1
Xylenes, Total	ND		0.096	mg/Kg		08/13/25 13:52	08/15/25 00:28	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/13/25 13:52	08/15/25 00:28	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]	13		10	mg/Kg		08/15/25 10:08	08/18/25 12:58	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/15/25 10:08	08/18/25 12:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			08/15/25 10:08	08/18/25 12:58	1
Di-n-octyl phthalate (Surr)	94		62 - 134			08/18/25 11:54	08/18/25 16:08	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		59	mg/Kg		08/13/25 15:30	08/13/25 23:38	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-10 0'

Lab Sample ID: 885-30757-10

Date Collected: 08/08/25 13:45

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/15/25 00:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/13/25 13:52	08/15/25 00:52	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/15/25 00:52	1
Ethylbenzene	ND		0.049	mg/Kg		08/13/25 13:52	08/15/25 00:52	1
Toluene	ND		0.049	mg/Kg		08/13/25 13:52	08/15/25 00:52	1
Xylenes, Total	ND		0.098	mg/Kg		08/13/25 13:52	08/15/25 00:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/15/25 00:52	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		9.6	mg/Kg		08/18/25 11:54	08/18/25 15:23	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/18/25 11:54	08/18/25 15:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			08/18/25 11:54	08/18/25 15:23	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		60	mg/Kg		08/13/25 15:30	08/13/25 23:48	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-11 0'

Lab Sample ID: 885-30757-11

Date Collected: 08/08/25 13:50

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/15/25 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/13/25 13:52	08/15/25 01:16	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/13/25 13:52	08/15/25 01:16	1
Ethylbenzene	ND		0.047	mg/Kg		08/13/25 13:52	08/15/25 01:16	1
Toluene	ND		0.047	mg/Kg		08/13/25 13:52	08/15/25 01:16	1
Xylenes, Total	ND		0.094	mg/Kg		08/13/25 13:52	08/15/25 01:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/13/25 13:52	08/15/25 01:16	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]	100		9.7	mg/Kg		08/18/25 11:54	08/18/25 15:34	1
Motor Oil Range Organics [C28-C40]	180		48	mg/Kg		08/18/25 11:54	08/18/25 15:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			08/18/25 11:54	08/18/25 15:34	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1800		59	mg/Kg		08/13/25 15:30	08/13/25 23:58	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-12 0'

Lab Sample ID: 885-30757-12

Date Collected: 08/08/25 13:55

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/15/25 01:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/13/25 13:52	08/15/25 01:40	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/15/25 01:40	1
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 13:52	08/15/25 01:40	1
Toluene	ND		0.048	mg/Kg		08/13/25 13:52	08/15/25 01:40	1
Xylenes, Total	ND		0.096	mg/Kg		08/13/25 13:52	08/15/25 01:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/13/25 13:52	08/15/25 01:40	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]	18		10	mg/Kg		08/19/25 10:49	08/19/25 13:07	1
Motor Oil Range Organics [C28-C40]	86		50	mg/Kg		08/19/25 10:49	08/19/25 13:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			08/19/25 10:49	08/19/25 13:07	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4100		60	mg/Kg		08/13/25 15:30	08/14/25 00:08	20

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## Client Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-13 0'

Lab Sample ID: 885-30757-13

Date Collected: 08/08/25 14:00

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/15/25 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/13/25 13:52	08/15/25 02:04	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/15/25 02:04	1
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 13:52	08/15/25 02:04	1
Toluene	ND		0.048	mg/Kg		08/13/25 13:52	08/15/25 02:04	1
Xylenes, Total	ND		0.096	mg/Kg		08/13/25 13:52	08/15/25 02:04	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/15/25 02:04	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		9.4	mg/Kg		08/18/25 11:54	08/18/25 15:45	1
Motor Oil Range Organics [C28-C40]	86		47	mg/Kg		08/18/25 11:54	08/18/25 15:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	91		62 - 134			08/18/25 11:54	08/18/25 15:45	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	620		60	mg/Kg		08/13/25 15:30	08/14/25 00:37	20

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

Client Sample ID: SS25-14 0'

Lab Sample ID: 885-30757-14

Date Collected: 08/08/25 14:05

Matrix: Solid

Date Received: 08/12/25 07:30

## 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		08/13/25 13:52	08/15/25 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		15 - 150			08/13/25 13:52	08/15/25 02:27	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/15/25 02:27	1
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 13:52	08/15/25 02:27	1
Toluene	ND		0.048	mg/Kg		08/13/25 13:52	08/15/25 02:27	1
Xylenes, Total	ND		0.097	mg/Kg		08/13/25 13:52	08/15/25 02:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/15/25 02:27	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		9.4	mg/Kg		08/18/25 11:54	08/18/25 15:56	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/18/25 11:54	08/18/25 15:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/18/25 11:54	08/18/25 15:56	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	790		61	mg/Kg		08/13/25 15:30	08/14/25 00:47	20

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## QC Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-32222/1-A

Matrix: Solid

Analysis Batch: 32383

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32222

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/13/25 10:32	08/14/25 23:19	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		15 - 150			08/13/25 10:32	08/14/25 23:19	1

Lab Sample ID: LCS 885-32222/2-A

Matrix: Solid

Analysis Batch: 32383

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	21.0		mg/Kg		84	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	205		15 - 150				

Lab Sample ID: MB 885-32260/1-A

Matrix: Solid

Analysis Batch: 32433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32260

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/13/25 13:52	08/14/25 20:09	1

Lab Sample ID: LCS 885-32260/2-A

Matrix: Solid

Analysis Batch: 32433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.2		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	197		15 - 150				

Lab Sample ID: 885-30757-5 MS

Matrix: Solid

Analysis Batch: 32433

Client Sample ID: SS25-05 0'

Prep Type: Total/NA

Prep Batch: 32260

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	26.0		mg/Kg		104	70 - 130

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## QC Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 885-30757-5 MS

Matrix: Solid

Analysis Batch: 32433

Client Sample ID: SS25-05 0'

Prep Type: Total/NA

Prep Batch: 32260

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	202		15 - 150

Lab Sample ID: 885-30757-5 MSD

Matrix: Solid

Analysis Batch: 32433

Client Sample ID: SS25-05 0'

Prep Type: Total/NA

Prep Batch: 32260

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	ND		25.0	26.5		mg/Kg		106	70 - 130	2	20
	MSD	MSD									
Surrogate	%Recovery	Qualifier	Limits								
4-Bromofluorobenzene (Surr)	200		15 - 150								

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-32222/1-A

Matrix: Solid

Analysis Batch: 32382

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32222

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/13/25 10:32	08/14/25 23:19	1
Ethylbenzene	ND		0.050	mg/Kg		08/13/25 10:32	08/14/25 23:19	1
Toluene	ND		0.050	mg/Kg		08/13/25 10:32	08/14/25 23:19	1
Xylenes, Total	ND		0.10	mg/Kg		08/13/25 10:32	08/14/25 23:19	1
	MB	MB						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/13/25 10:32	08/14/25 23:19	1

Lab Sample ID: LCS 885-32222/3-A

Matrix: Solid

Analysis Batch: 32382

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32222

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.07		mg/Kg		107	70 - 130
Ethylbenzene	1.00	1.05		mg/Kg		105	70 - 130
m-Xylene & p-Xylene	2.00	2.09		mg/Kg		104	70 - 130
o-Xylene	1.00	1.06		mg/Kg		106	70 - 130
Toluene	1.00	1.05		mg/Kg		105	70 - 130
	LCS	LCS					
Surrogate	%Recovery	Qualifier	Limits				
4-Bromofluorobenzene (Surr)	99		15 - 150				

Lab Sample ID: MB 885-32260/1-A

Matrix: Solid

Analysis Batch: 32434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32260

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/13/25 13:52	08/14/25 20:09	1

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## QC Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-32260/1-A

Matrix: Solid

Analysis Batch: 32434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32260

Analyte	MB	MB	RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Ethylbenzene	ND		0.050	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Toluene	ND		0.050	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Xylenes, Total	ND		0.10	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Surrogate	MB	MB	Limits			Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier						
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/14/25 20:09	1

Lab Sample ID: LCS 885-32260/3-A

Matrix: Solid

Analysis Batch: 32434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32260

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	1.00	0.902		mg/Kg		90	70 - 130
Ethylbenzene	1.00	0.909		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	2.00	1.92		mg/Kg		96	70 - 130
o-Xylene	1.00	0.921		mg/Kg		92	70 - 130
Toluene	1.00	0.899		mg/Kg		90	70 - 130
Surrogate	LCS	LCS	Limits			%Recovery	Qualifier
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	92		15 - 150				

Lab Sample ID: 885-30757-6 MS

Matrix: Solid

Analysis Batch: 32434

Client Sample ID: SS25-06 0'

Prep Type: Total/NA

Prep Batch: 32260

Analyte	Sample	Sample	Spike Added	MS	MS	Unit	D	%Rec	%Rec Limits
	Result	Qualifier		Result	Qualifier				
Benzene	ND		0.991	0.996		mg/Kg		101	70 - 130
Ethylbenzene	ND		0.991	0.981		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	ND		1.98	2.10		mg/Kg		106	70 - 130
o-Xylene	ND		0.991	0.998		mg/Kg		101	70 - 130
Toluene	ND		0.991	0.990		mg/Kg		100	70 - 130
Surrogate	MS	MS	Limits			%Recovery	Qualifier		
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	88		15 - 150						

Lab Sample ID: 885-30757-6 MSD

Matrix: Solid

Analysis Batch: 32434

Client Sample ID: SS25-06 0'

Prep Type: Total/NA

Prep Batch: 32260

Analyte	Sample	Sample	Spike Added	MSD	MSD	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
	Result	Qualifier		Result	Qualifier						
Benzene	ND		0.994	0.969		mg/Kg		97	70 - 130	3	20
Ethylbenzene	ND		0.994	0.973		mg/Kg		98	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.99	2.07		mg/Kg		104	70 - 130	2	20
o-Xylene	ND		0.994	0.989		mg/Kg		100	70 - 130	1	20
Toluene	ND		0.994	0.987		mg/Kg		99	70 - 130	0	20

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## QC Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-30757-6 MSD

Matrix: Solid

Analysis Batch: 32434

Client Sample ID: SS25-06 0'

Prep Type: Total/NA

Prep Batch: 32260

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	89		15 - 150

## Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-32240/1-A

Matrix: Solid

Analysis Batch: 32208

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32240

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/13/25 12:18	08/14/25 09:09	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/13/25 12:18	08/14/25 09:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	96		62 - 134			08/13/25 12:18	08/14/25 09:09	1

Lab Sample ID: LCS 885-32240/2-A

Matrix: Solid

Analysis Batch: 32208

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32240

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	43.5		mg/Kg		87	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	86		62 - 134				

Lab Sample ID: MB 885-32719/1-A

Matrix: Solid

Analysis Batch: 32676

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32719

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/19/25 10:49	08/19/25 13:15	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/19/25 10:49	08/19/25 13:15	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			08/19/25 10:49	08/19/25 13:15	1

Lab Sample ID: LCS 885-32719/2-A

Matrix: Solid

Analysis Batch: 32676

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32719

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	46.4		mg/Kg		93	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	102		62 - 134				

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## QC Sample Results

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-32237/1-A

Matrix: Solid

Analysis Batch: 32211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32237

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		08/13/25 12:04	08/13/25 14:47	1

Lab Sample ID: LCS 885-32237/2-A

Matrix: Solid

Analysis Batch: 32211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32237

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.8		mg/Kg		98	90 - 110

Lab Sample ID: MB 885-32275/1-A

Matrix: Solid

Analysis Batch: 32211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32275

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		08/13/25 15:30	08/13/25 21:01	1

Lab Sample ID: LCS 885-32275/2-A

Matrix: Solid

Analysis Batch: 32211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.7		mg/Kg		98	90 - 110

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## QC Association Summary

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

## GC VOA

## Prep Batch: 32222

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-1	SS25-01 0'	Total/NA	Solid	5030C	
885-30757-2	SS25-02 0'	Total/NA	Solid	5030C	
885-30757-3	SS25-03 0'	Total/NA	Solid	5030C	
885-30757-4	SS25-04 0'	Total/NA	Solid	5030C	
MB 885-32222/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-32222/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-32222/3-A	Lab Control Sample	Total/NA	Solid	5030C	

## Prep Batch: 32260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-5	SS25-05 0'	Total/NA	Solid	5030C	
885-30757-6	SS25-06 0'	Total/NA	Solid	5030C	
885-30757-7	SS25-07 0'	Total/NA	Solid	5030C	
885-30757-8	SS25-08 0'	Total/NA	Solid	5030C	
885-30757-9	SS25-09 0'	Total/NA	Solid	5030C	
885-30757-10	SS25-10 0'	Total/NA	Solid	5030C	
885-30757-11	SS25-11 0'	Total/NA	Solid	5030C	
885-30757-12	SS25-12 0'	Total/NA	Solid	5030C	
885-30757-13	SS25-13 0'	Total/NA	Solid	5030C	
885-30757-14	SS25-14 0'	Total/NA	Solid	5030C	
MB 885-32260/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-32260/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-32260/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-30757-5 MS	SS25-05 0'	Total/NA	Solid	5030C	
885-30757-5 MSD	SS25-05 0'	Total/NA	Solid	5030C	
885-30757-6 MS	SS25-06 0'	Total/NA	Solid	5030C	
885-30757-6 MSD	SS25-06 0'	Total/NA	Solid	5030C	

## Analysis Batch: 32382

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-1	SS25-01 0'	Total/NA	Solid	8021B	32222
885-30757-2	SS25-02 0'	Total/NA	Solid	8021B	32222
885-30757-3	SS25-03 0'	Total/NA	Solid	8021B	32222
885-30757-4	SS25-04 0'	Total/NA	Solid	8021B	32222
MB 885-32222/1-A	Method Blank	Total/NA	Solid	8021B	32222
LCS 885-32222/3-A	Lab Control Sample	Total/NA	Solid	8021B	32222

## Analysis Batch: 32383

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-1	SS25-01 0'	Total/NA	Solid	8015M/D	32222
885-30757-2	SS25-02 0'	Total/NA	Solid	8015M/D	32222
885-30757-3	SS25-03 0'	Total/NA	Solid	8015M/D	32222
885-30757-4	SS25-04 0'	Total/NA	Solid	8015M/D	32222
MB 885-32222/1-A	Method Blank	Total/NA	Solid	8015M/D	32222
LCS 885-32222/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32222

## Analysis Batch: 32433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-5	SS25-05 0'	Total/NA	Solid	8015M/D	32260
885-30757-6	SS25-06 0'	Total/NA	Solid	8015M/D	32260
885-30757-7	SS25-07 0'	Total/NA	Solid	8015M/D	32260

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## QC Association Summary

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

## GC VOA (Continued)

## Analysis Batch: 32433 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-8	SS25-08 0'	Total/NA	Solid	8015M/D	32260
885-30757-9	SS25-09 0'	Total/NA	Solid	8015M/D	32260
885-30757-10	SS25-10 0'	Total/NA	Solid	8015M/D	32260
885-30757-11	SS25-11 0'	Total/NA	Solid	8015M/D	32260
885-30757-12	SS25-12 0'	Total/NA	Solid	8015M/D	32260
885-30757-13	SS25-13 0'	Total/NA	Solid	8015M/D	32260
885-30757-14	SS25-14 0'	Total/NA	Solid	8015M/D	32260
MB 885-32260/1-A	Method Blank	Total/NA	Solid	8015M/D	32260
LCS 885-32260/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32260
885-30757-5 MS	SS25-05 0'	Total/NA	Solid	8015M/D	32260
885-30757-5 MSD	SS25-05 0'	Total/NA	Solid	8015M/D	32260

## Analysis Batch: 32434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-5	SS25-05 0'	Total/NA	Solid	8021B	32260
885-30757-6	SS25-06 0'	Total/NA	Solid	8021B	32260
885-30757-7	SS25-07 0'	Total/NA	Solid	8021B	32260
885-30757-8	SS25-08 0'	Total/NA	Solid	8021B	32260
885-30757-9	SS25-09 0'	Total/NA	Solid	8021B	32260
885-30757-10	SS25-10 0'	Total/NA	Solid	8021B	32260
885-30757-11	SS25-11 0'	Total/NA	Solid	8021B	32260
885-30757-12	SS25-12 0'	Total/NA	Solid	8021B	32260
885-30757-13	SS25-13 0'	Total/NA	Solid	8021B	32260
885-30757-14	SS25-14 0'	Total/NA	Solid	8021B	32260
MB 885-32260/1-A	Method Blank	Total/NA	Solid	8021B	32260
LCS 885-32260/3-A	Lab Control Sample	Total/NA	Solid	8021B	32260
885-30757-6 MS	SS25-06 0'	Total/NA	Solid	8021B	32260
885-30757-6 MSD	SS25-06 0'	Total/NA	Solid	8021B	32260

## GC Semi VOA

## Analysis Batch: 32208

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-1	SS25-01 0'	Total/NA	Solid	8015M/D	32240
885-30757-2	SS25-02 0'	Total/NA	Solid	8015M/D	32240
885-30757-3	SS25-03 0'	Total/NA	Solid	8015M/D	32240
885-30757-4	SS25-04 0'	Total/NA	Solid	8015M/D	32240
MB 885-32240/1-A	Method Blank	Total/NA	Solid	8015M/D	32240
LCS 885-32240/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32240

## Prep Batch: 32240

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-1	SS25-01 0'	Total/NA	Solid	SHAKE	
885-30757-2	SS25-02 0'	Total/NA	Solid	SHAKE	
885-30757-3	SS25-03 0'	Total/NA	Solid	SHAKE	
885-30757-4	SS25-04 0'	Total/NA	Solid	SHAKE	
MB 885-32240/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-32240/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

Eurofins Albuquerque



QC Association Summary

Client: Vertex

Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

GC Semi VOA

Prep Batch: 32432

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-5	SS25-05 0'	Total/NA	Solid	SHAKE	
885-30757-6	SS25-06 0'	Total/NA	Solid	SHAKE	
885-30757-7	SS25-07 0'	Total/NA	Solid	SHAKE	
885-30757-8	SS25-08 0'	Total/NA	Solid	SHAKE	
885-30757-9	SS25-09 0'	Total/NA	Solid	SHAKE	

Analysis Batch: 32576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-5	SS25-05 0'	Total/NA	Solid	8015M/D	32432
885-30757-6	SS25-06 0'	Total/NA	Solid	8015M/D	32432
885-30757-7	SS25-07 0'	Total/NA	Solid	8015M/D	32432
885-30757-8	SS25-08 0'	Total/NA	Solid	8015M/D	32432
885-30757-9	SS25-09 0'	Total/NA	Solid	8015M/D	32432
885-30757-9	SS25-09 0'	Total/NA	Solid	8015M/D	32589
885-30757-10	SS25-10 0'	Total/NA	Solid	8015M/D	32589
885-30757-11	SS25-11 0'	Total/NA	Solid	8015M/D	32589
885-30757-13	SS25-13 0'	Total/NA	Solid	8015M/D	32589
885-30757-14	SS25-14 0'	Total/NA	Solid	8015M/D	32589

Prep Batch: 32589

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-9	SS25-09 0'	Total/NA	Solid	SHAKE	
885-30757-10	SS25-10 0'	Total/NA	Solid	SHAKE	
885-30757-11	SS25-11 0'	Total/NA	Solid	SHAKE	
885-30757-13	SS25-13 0'	Total/NA	Solid	SHAKE	
885-30757-14	SS25-14 0'	Total/NA	Solid	SHAKE	

Analysis Batch: 32676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-32719/1-A	Method Blank	Total/NA	Solid	8015M/D	32719
LCS 885-32719/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32719

Analysis Batch: 32677

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-12	SS25-12 0'	Total/NA	Solid	8015M/D	32719

Prep Batch: 32719

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-12	SS25-12 0'	Total/NA	Solid	SHAKE	
MB 885-32719/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-32719/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

HPLC/IC

Analysis Batch: 32211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-1	SS25-01 0'	Total/NA	Solid	300.0	32237
885-30757-2	SS25-02 0'	Total/NA	Solid	300.0	32237
885-30757-3	SS25-03 0'	Total/NA	Solid	300.0	32237
885-30757-4	SS25-04 0'	Total/NA	Solid	300.0	32237
885-30757-5	SS25-05 0'	Total/NA	Solid	300.0	32275



## QC Association Summary

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

## HPLC/IC (Continued)

## Analysis Batch: 32211 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-6	SS25-06 0'	Total/NA	Solid	300.0	32275
885-30757-7	SS25-07 0'	Total/NA	Solid	300.0	32275
885-30757-8	SS25-08 0'	Total/NA	Solid	300.0	32275
885-30757-9	SS25-09 0'	Total/NA	Solid	300.0	32275
885-30757-10	SS25-10 0'	Total/NA	Solid	300.0	32275
885-30757-11	SS25-11 0'	Total/NA	Solid	300.0	32275
885-30757-12	SS25-12 0'	Total/NA	Solid	300.0	32275
885-30757-13	SS25-13 0'	Total/NA	Solid	300.0	32275
885-30757-14	SS25-14 0'	Total/NA	Solid	300.0	32275
MB 885-32237/1-A	Method Blank	Total/NA	Solid	300.0	32237
MB 885-32275/1-A	Method Blank	Total/NA	Solid	300.0	32275
LCS 885-32237/2-A	Lab Control Sample	Total/NA	Solid	300.0	32237
LCS 885-32275/2-A	Lab Control Sample	Total/NA	Solid	300.0	32275

## Prep Batch: 32237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-1	SS25-01 0'	Total/NA	Solid	300_Prep	
885-30757-2	SS25-02 0'	Total/NA	Solid	300_Prep	
885-30757-3	SS25-03 0'	Total/NA	Solid	300_Prep	
885-30757-4	SS25-04 0'	Total/NA	Solid	300_Prep	
MB 885-32237/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-32237/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Prep Batch: 32275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30757-5	SS25-05 0'	Total/NA	Solid	300_Prep	
885-30757-6	SS25-06 0'	Total/NA	Solid	300_Prep	
885-30757-7	SS25-07 0'	Total/NA	Solid	300_Prep	
885-30757-8	SS25-08 0'	Total/NA	Solid	300_Prep	
885-30757-9	SS25-09 0'	Total/NA	Solid	300_Prep	
885-30757-10	SS25-10 0'	Total/NA	Solid	300_Prep	
885-30757-11	SS25-11 0'	Total/NA	Solid	300_Prep	
885-30757-12	SS25-12 0'	Total/NA	Solid	300_Prep	
885-30757-13	SS25-13 0'	Total/NA	Solid	300_Prep	
885-30757-14	SS25-14 0'	Total/NA	Solid	300_Prep	
MB 885-32275/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-32275/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

Eurofins Albuquerque



Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

Client Sample ID: SS25-01 0'

Lab Sample ID: 885-30757-1

Date Collected: 08/08/25 13:00

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32222	KLS	EET ALB	08/13/25 10:32
Total/NA	Analysis	8015M/D		1	32383	JP	EET ALB	08/15/25 07:18
Total/NA	Prep	5030C			32222	KLS	EET ALB	08/13/25 10:32
Total/NA	Analysis	8021B		1	32382	JP	EET ALB	08/15/25 07:18
Total/NA	Prep	SHAKE			32240	JM	EET ALB	08/13/25 12:18
Total/NA	Analysis	8015M/D		1	32208	EM	EET ALB	08/14/25 19:02
Total/NA	Prep	300_Prep			32237	RC	EET ALB	08/13/25 12:04
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 20:02

Client Sample ID: SS25-02 0'

Lab Sample ID: 885-30757-2

Date Collected: 08/08/25 13:05

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32222	KLS	EET ALB	08/13/25 10:32
Total/NA	Analysis	8015M/D		1	32383	JP	EET ALB	08/15/25 07:40
Total/NA	Prep	5030C			32222	KLS	EET ALB	08/13/25 10:32
Total/NA	Analysis	8021B		1	32382	JP	EET ALB	08/15/25 07:40
Total/NA	Prep	SHAKE			32240	JM	EET ALB	08/13/25 12:18
Total/NA	Analysis	8015M/D		1	32208	EM	EET ALB	08/14/25 19:26
Total/NA	Prep	300_Prep			32237	RC	EET ALB	08/13/25 12:04
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 20:12

Client Sample ID: SS25-03 0'

Lab Sample ID: 885-30757-3

Date Collected: 08/08/25 13:10

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32222	KLS	EET ALB	08/13/25 10:32
Total/NA	Analysis	8015M/D		1	32383	JP	EET ALB	08/15/25 08:02
Total/NA	Prep	5030C			32222	KLS	EET ALB	08/13/25 10:32
Total/NA	Analysis	8021B		1	32382	JP	EET ALB	08/15/25 08:02
Total/NA	Prep	SHAKE			32240	JM	EET ALB	08/13/25 12:18
Total/NA	Analysis	8015M/D		1	32208	EM	EET ALB	08/14/25 19:50
Total/NA	Prep	300_Prep			32237	RC	EET ALB	08/13/25 12:04
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 20:41

Client Sample ID: SS25-04 0'

Lab Sample ID: 885-30757-4

Date Collected: 08/08/25 13:15

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32222	KLS	EET ALB	08/13/25 10:32
Total/NA	Analysis	8015M/D		1	32383	JP	EET ALB	08/15/25 08:23



Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

**Client Sample ID: SS25-04 0'**  
**Date Collected: 08/08/25 13:15**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30757-4**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32222	KLS	EET ALB	08/13/25 10:32
Total/NA	Analysis	8021B		1	32382	JP	EET ALB	08/15/25 08:23
Total/NA	Prep	SHAKE			32240	JM	EET ALB	08/13/25 12:18
Total/NA	Analysis	8015M/D		1	32208	EM	EET ALB	08/14/25 20:14
Total/NA	Prep	300_Prep			32237	RC	EET ALB	08/13/25 12:04
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 20:51

**Client Sample ID: SS25-05 0'**  
**Date Collected: 08/08/25 13:20**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30757-5**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/14/25 20:32
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/14/25 20:32
Total/NA	Prep	SHAKE			32432	DR	EET ALB	08/15/25 10:08
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 12:14
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 22:59

**Client Sample ID: SS25-06 0'**  
**Date Collected: 08/08/25 13:25**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30757-6**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/14/25 22:07
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/14/25 22:07
Total/NA	Prep	SHAKE			32432	DR	EET ALB	08/15/25 10:08
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 12:25
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 23:09

**Client Sample ID: SS25-07 0'**  
**Date Collected: 08/08/25 13:30**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30757-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/14/25 23:41
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/14/25 23:41



Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

**Client Sample ID: SS25-07 0'**  
**Date Collected: 08/08/25 13:30**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30757-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			32432	DR	EET ALB	08/15/25 10:08
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 12:36
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 23:19

**Client Sample ID: SS25-08 0'**  
**Date Collected: 08/08/25 13:35**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30757-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/15/25 00:05
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/15/25 00:05
Total/NA	Prep	SHAKE			32432	DR	EET ALB	08/15/25 10:08
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 12:47
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 23:28

**Client Sample ID: SS25-09 0'**  
**Date Collected: 08/08/25 13:40**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30757-9**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/15/25 00:28
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/15/25 00:28
Total/NA	Prep	SHAKE			32432	DR	EET ALB	08/15/25 10:08
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 12:58
Total/NA	Prep	SHAKE			32589	BZR	EET ALB	08/18/25 11:54
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 16:08
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 23:38

**Client Sample ID: SS25-10 0'**  
**Date Collected: 08/08/25 13:45**  
**Date Received: 08/12/25 07:30**

**Lab Sample ID: 885-30757-10**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/15/25 00:52
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/15/25 00:52

Eurofins Albuquerque



Lab Chronicle

Client: Vertex

Job ID: 885-30757-1

Project/Site: North Pure Gold 8 Federal 011

Client Sample ID: SS25-10 0'

Lab Sample ID: 885-30757-10

Date Collected: 08/08/25 13:45

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			32589	BZR	EET ALB	08/18/25 11:54
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 15:23
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 23:48

Client Sample ID: SS25-11 0'

Lab Sample ID: 885-30757-11

Date Collected: 08/08/25 13:50

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/15/25 01:16
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/15/25 01:16
Total/NA	Prep	SHAKE			32589	BZR	EET ALB	08/18/25 11:54
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 15:34
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/13/25 23:58

Client Sample ID: SS25-12 0'

Lab Sample ID: 885-30757-12

Date Collected: 08/08/25 13:55

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/15/25 01:40
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/15/25 01:40
Total/NA	Prep	SHAKE			32719	DR	EET ALB	08/19/25 10:49
Total/NA	Analysis	8015M/D		1	32677	EM	EET ALB	08/19/25 13:07
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 00:08

Client Sample ID: SS25-13 0'

Lab Sample ID: 885-30757-13

Date Collected: 08/08/25 14:00

Matrix: Solid

Date Received: 08/12/25 07:30

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/15/25 02:04
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/15/25 02:04
Total/NA	Prep	SHAKE			32589	BZR	EET ALB	08/18/25 11:54
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 15:45



Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

Client Sample ID: SS25-13 0'

Date Collected: 08/08/25 14:00

Date Received: 08/12/25 07:30

Lab Sample ID: 885-30757-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 00:37

Client Sample ID: SS25-14 0'

Date Collected: 08/08/25 14:05

Date Received: 08/12/25 07:30

Lab Sample ID: 885-30757-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32433	JP	EET ALB	08/15/25 02:27
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32434	JP	EET ALB	08/15/25 02:27
Total/NA	Prep	SHAKE			32589	BZR	EET ALB	08/18/25 11:54
Total/NA	Analysis	8015M/D		1	32576	DH	EET ALB	08/18/25 15:56
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 00:47

Laboratory References:

EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975



Accreditation/Certification Summary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 011

Job ID: 885-30757-1

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



## Chain-of-Custody Record

Client: **Vertex**

---

(direct bill to Devon, Jim Raley 1007079101 )

---

Mailing Address:

---

---

Phone #:

---

email or Fax#:

---

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

---

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other \_\_\_\_\_

---

☐ EDD (Type)

Turn-Around Time:	<input checked="" type="checkbox"/> Standard	X <del>5 day</del> 72 hr
Project Name:	North Pure Gold 8 Federal 011	
Project #:	25A-02298	
Project Manager:	Kent Stallings <a href="mailto:kstallings@vertex.ca">kstallings@vertex.ca</a>	
Sampler:	L. Pullman	
On Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
# of Coolers:	1	466



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



4901 Hawkins NE - Albuquerque, NM 871 885-3075 COC

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

## Analysis Request

Date	Time	Matrix	Sample Name	Cooler Temp (including CF): 0-36 ± 0.7			BTX / MTX	TPH:8015D(	8081 Pestic	EDB (Metho	PAHs by 83	RCRA 8 Me	Cl	8260 (VOA)	8270 (Semi-	Total Colifor						
				Container Type and #	Preservative Type	HEAL No.																
08.08.25	13:00	Soil	SS25-01 0'	1, 4oz jar		-1	X	X					X									
08.08.25	13:05	Soil	SS25-02 0'	1, 4oz jar		-2	X	X					X									
08.08.25	13:10	Soil	SS25-03 0'	1, 4oz jar		-3	X	X					X									
08.08.25	13:15	Soil	SS25-04 0'	1, 4oz jar		-4	X	X					X									
08.08.25	13:20	Soil	SS25-05 0'	1, 4oz jar		-5	X	X					X									
08.08.25	13:25	Soil	SS25-06 0'	1, 4oz jar		-6	X	X					X									
08.08.25	13:30	Soil	SS25-07 0'	1, 4oz jar		-7	X	X					X									
08.08.25	13:35	Soil	SS25-08 0'	1, 4oz jar		-8	X	X					X									
08.08.25	13:40	Soil	SS25-09 0'	1, 4oz jar		-9	X	X					X									
08.08.25	13:45	Soil	SS25-10 0'	1, 4oz jar		-10	X	X					X									
08.08.25	13:50	Soil	SS25-11 0'	1, 4oz jar		-11	X	X					X									
08.08.25	13:55	Soil	SS25-12 0'	1, 4oz jar		-12	X	X					X									
Date: 8-11-25	Time: 07:00	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>			Via:	Date 8/11/25	Time 7:00	Remarks: ATTN Jim Raley Direct bill to Devon work order 21185142 Jim Raley cc. permian@vertexresource.com, SCarttar@vertexresource.com, kstallings@vertexresource.com, and LPullman@vertexresource.com for Final Report													
Date: 8/11/25	Time: 19:00	Relinquished by: <i>[Signature]</i>	Received by: <i>[Signature]</i>			Via:	Date 8/12/25	Time 7:30														

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.



## Chain-of-Custody Record

Client: **Vertex**

---

(direct bill to Devon, Jim Raley 1007079101 )

---

Mailing Address:

---

---

Phone #:

---

email or Fax#:

---

QA/QC Package:

☐ Standard ☐ Level 4 (Full Validation)

---

Accreditation: ☐ Az Compliance

☐ NELAC ☐ Other \_\_\_\_\_

---

☐ EDD (Type)

Turn-Around Time:	
<input type="checkbox"/> Standard	X <del>5-day</del> 72-hr
Project Name:	
North Pure Gold 8 Federal 011	
Project #:	
25A-02298	
Project Manager:	
Kent Stallings	
<a href="mailto:kstallings@vertex.ca">kstallings@vertex.ca</a>	
Sampler:	L. Pullman
On Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
# of Coolers:	1 Abby



## 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:	Relinquished by:	Received by:	Via:	Date	Time	Remarks: ATTN Jim Raley Direct bill to Devon work order 21185142 Jim Raley cc. permian@vertexresource.com, SCarttar@vertexresource.com, kstallings@vertexresource.com, and LPullman@vertexresource.com for Final Report
8-4-25	07:00	John Pullman	Accounting		8/11/25	7:00	
Date:	Time:	Relinquished by:	Received by:	Via:	Date	Time	
8/11/25	19:00	Accounting	Provier		8/12/25	7:30	

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: 885-30757-1

SDG Number:

Login Number: 30757

List Source: Eurofins Albuquerque

List Number: 1

Creator: Proctor, Nancy

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
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.	True	
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	





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 8/20/2025 3:43:59 PM

## JOB DESCRIPTION

North Pure Gold 8 Federal 11

## JOB NUMBER

885-30863-1

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  
8/20/2025 3:43:59 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 8 Federal 11

Laboratory Job ID: 885-30863-1

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Definitions/Glossary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

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 8 Federal 11

Job ID: 885-30863-1

**Job ID: 885-30863-1**

**Eurofins Albuquerque**

### Job Narrative 885-30863-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

#### Receipt

The samples were received on 8/13/2025 8:03 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 1.6°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### Diesel Range Organics

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  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

Client Sample ID: SS25-47

Lab Sample ID: 885-30863-1

Date Collected: 08/11/25 13:20

Matrix: Solid

Date Received: 08/13/25 08:03

## 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		08/13/25 13:52	08/16/25 08:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/13/25 13:52	08/16/25 08:05	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/16/25 08:05	1
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 13:52	08/16/25 08:05	1
Toluene	ND		0.048	mg/Kg		08/13/25 13:52	08/16/25 08:05	1
Xylenes, Total	ND		0.095	mg/Kg		08/13/25 13:52	08/16/25 08:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/16/25 08:05	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]	ND		9.5	mg/Kg		08/19/25 08:58	08/19/25 12:38	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/19/25 08:58	08/19/25 12:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/19/25 08:58	08/19/25 12:38	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/13/25 15:30	08/14/25 00:57	20

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

Client Sample ID: SS25-48

Lab Sample ID: 885-30863-2

Date Collected: 08/11/25 13:25

Matrix: Solid

Date Received: 08/13/25 08:03

## 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		08/13/25 13:52	08/16/25 08:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/13/25 13:52	08/16/25 08:29	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/13/25 13:52	08/16/25 08:29	1
Ethylbenzene	ND		0.049	mg/Kg		08/13/25 13:52	08/16/25 08:29	1
Toluene	ND		0.049	mg/Kg		08/13/25 13:52	08/16/25 08:29	1
Xylenes, Total	ND		0.098	mg/Kg		08/13/25 13:52	08/16/25 08:29	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/13/25 13:52	08/16/25 08:29	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]	ND		9.2	mg/Kg		08/19/25 08:58	08/19/25 14:05	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/19/25 08:58	08/19/25 14:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			08/19/25 08:58	08/19/25 14:05	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/13/25 15:30	08/14/25 01:07	20

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

Client Sample ID: SS25-49

Lab Sample ID: 885-30863-3

Date Collected: 08/11/25 13:30

Matrix: Solid

Date Received: 08/13/25 08:03

## 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		08/13/25 13:52	08/16/25 08:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/13/25 13:52	08/16/25 08:52	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/16/25 08:52	1
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 13:52	08/16/25 08:52	1
Toluene	ND		0.048	mg/Kg		08/13/25 13:52	08/16/25 08:52	1
Xylenes, Total	ND		0.096	mg/Kg		08/13/25 13:52	08/16/25 08:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/13/25 13:52	08/16/25 08:52	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		08/19/25 08:58	08/19/25 14:17	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/19/25 08:58	08/19/25 14:17	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			08/19/25 08:58	08/19/25 14:17	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		60	mg/Kg		08/13/25 15:30	08/14/25 01:17	20

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

Client Sample ID: SS25-50

Lab Sample ID: 885-30863-4

Date Collected: 08/11/25 13:35

Matrix: Solid

Date Received: 08/13/25 08:03

## 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		08/13/25 13:52	08/16/25 09:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/13/25 13:52	08/16/25 09:16	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/16/25 09:16	1
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 13:52	08/16/25 09:16	1
Toluene	ND		0.048	mg/Kg		08/13/25 13:52	08/16/25 09:16	1
Xylenes, Total	ND		0.096	mg/Kg		08/13/25 13:52	08/16/25 09:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/16/25 09:16	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]	ND		9.7	mg/Kg		08/19/25 08:58	08/19/25 14:30	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/19/25 08:58	08/19/25 14:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			08/19/25 08:58	08/19/25 14:30	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		59	mg/Kg		08/13/25 15:30	08/14/25 01:27	20

Eurofins Albuquerque



## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

Client Sample ID: SS25-51

Lab Sample ID: 885-30863-5

Date Collected: 08/11/25 13:40

Matrix: Solid

Date Received: 08/13/25 08:03

## 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		08/13/25 13:52	08/16/25 09:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/13/25 13:52	08/16/25 09:39	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/16/25 09:39	1
Ethylbenzene	ND		0.049	mg/Kg		08/13/25 13:52	08/16/25 09:39	1
Toluene	ND		0.049	mg/Kg		08/13/25 13:52	08/16/25 09:39	1
Xylenes, Total	ND		0.097	mg/Kg		08/13/25 13:52	08/16/25 09:39	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/13/25 13:52	08/16/25 09:39	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]	ND		9.5	mg/Kg		08/19/25 08:58	08/19/25 14:42	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/19/25 08:58	08/19/25 14:42	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	98		62 - 134			08/19/25 08:58	08/19/25 14:42	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	85		60	mg/Kg		08/13/25 15:30	08/14/25 01:36	20

Eurofins Albuquerque



## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

Client Sample ID: SS25-52

Lab Sample ID: 885-30863-6

Date Collected: 08/11/25 13:45

Matrix: Solid

Date Received: 08/13/25 08:03

## 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		08/13/25 13:52	08/16/25 10:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/13/25 13:52	08/16/25 10:03	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/16/25 10:03	1
Ethylbenzene	ND		0.048	mg/Kg		08/13/25 13:52	08/16/25 10:03	1
Toluene	ND		0.048	mg/Kg		08/13/25 13:52	08/16/25 10:03	1
Xylenes, Total	ND		0.096	mg/Kg		08/13/25 13:52	08/16/25 10:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/16/25 10:03	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		9.6	mg/Kg		08/19/25 08:58	08/19/25 11:45	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/19/25 08:58	08/19/25 11:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			08/19/25 08:58	08/19/25 11:45	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2500		60	mg/Kg		08/13/25 15:30	08/14/25 01:46	20

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## Client Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

Client Sample ID: SS25-53

Lab Sample ID: 885-30863-7

Date Collected: 08/11/25 13:50

Matrix: Solid

Date Received: 08/13/25 08:03

## 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		08/13/25 13:52	08/16/25 10:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/13/25 13:52	08/16/25 10:26	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/13/25 13:52	08/16/25 10:26	1
Ethylbenzene	ND		0.047	mg/Kg		08/13/25 13:52	08/16/25 10:26	1
Toluene	ND		0.047	mg/Kg		08/13/25 13:52	08/16/25 10:26	1
Xylenes, Total	ND		0.095	mg/Kg		08/13/25 13:52	08/16/25 10:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/13/25 13:52	08/16/25 10:26	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		08/19/25 08:58	08/19/25 12:09	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/19/25 08:58	08/19/25 12:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	97		62 - 134			08/19/25 08:58	08/19/25 12:09	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2600		60	mg/Kg		08/15/25 08:31	08/15/25 11:44	20

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## QC Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-32260/1-A

Matrix: Solid

Analysis Batch: 32433

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32260

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/13/25 13:52	08/14/25 20:09	1

Lab Sample ID: LCS 885-32260/2-A

Matrix: Solid

Analysis Batch: 32433

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	24.2		mg/Kg		97	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	197		15 - 150				

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-32260/1-A

Matrix: Solid

Analysis Batch: 32434

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32260

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Ethylbenzene	ND		0.050	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Toluene	ND		0.050	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Xylenes, Total	ND		0.10	mg/Kg		08/13/25 13:52	08/14/25 20:09	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/13/25 13:52	08/14/25 20:09	1

Lab Sample ID: LCS 885-32260/3-A

Matrix: Solid

Analysis Batch: 32434

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32260

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	0.902		mg/Kg		90	70 - 130
Ethylbenzene	1.00	0.909		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	2.00	1.92		mg/Kg		96	70 - 130
o-Xylene	1.00	0.921		mg/Kg		92	70 - 130
Toluene	1.00	0.899		mg/Kg		90	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	92		15 - 150				

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## QC Sample Results

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-32275/1-A

Matrix: Solid

Analysis Batch: 32211

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32275

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		08/13/25 15:30	08/13/25 21:01	1

Lab Sample ID: LCS 885-32275/2-A

Matrix: Solid

Analysis Batch: 32211

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32275

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.7		mg/Kg		98	90 - 110

Lab Sample ID: MB 885-32399/1-A

Matrix: Solid

Analysis Batch: 32435

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32399

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		1.5	mg/Kg		08/15/25 08:31	08/15/25 10:50	1

Lab Sample ID: LCS 885-32399/2-A

Matrix: Solid

Analysis Batch: 32435

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32399

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	15.0	14.2		mg/Kg		95	90 - 110

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## QC Association Summary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

## GC VOA

## Prep Batch: 32260

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-1	SS25-47	Total/NA	Solid	5030C	
885-30863-2	SS25-48	Total/NA	Solid	5030C	
885-30863-3	SS25-49	Total/NA	Solid	5030C	
885-30863-4	SS25-50	Total/NA	Solid	5030C	
885-30863-5	SS25-51	Total/NA	Solid	5030C	
885-30863-6	SS25-52	Total/NA	Solid	5030C	
885-30863-7	SS25-53	Total/NA	Solid	5030C	
MB 885-32260/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-32260/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-32260/3-A	Lab Control Sample	Total/NA	Solid	5030C	

## Analysis Batch: 32433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-32260/1-A	Method Blank	Total/NA	Solid	8015M/D	32260
LCS 885-32260/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32260

## Analysis Batch: 32434

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-32260/1-A	Method Blank	Total/NA	Solid	8021B	32260
LCS 885-32260/3-A	Lab Control Sample	Total/NA	Solid	8021B	32260

## Analysis Batch: 32486

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-1	SS25-47	Total/NA	Solid	8021B	32260
885-30863-2	SS25-48	Total/NA	Solid	8021B	32260
885-30863-3	SS25-49	Total/NA	Solid	8021B	32260
885-30863-4	SS25-50	Total/NA	Solid	8021B	32260
885-30863-5	SS25-51	Total/NA	Solid	8021B	32260
885-30863-6	SS25-52	Total/NA	Solid	8021B	32260
885-30863-7	SS25-53	Total/NA	Solid	8021B	32260

## Analysis Batch: 32487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-1	SS25-47	Total/NA	Solid	8015M/D	32260
885-30863-2	SS25-48	Total/NA	Solid	8015M/D	32260
885-30863-3	SS25-49	Total/NA	Solid	8015M/D	32260
885-30863-4	SS25-50	Total/NA	Solid	8015M/D	32260
885-30863-5	SS25-51	Total/NA	Solid	8015M/D	32260
885-30863-6	SS25-52	Total/NA	Solid	8015M/D	32260
885-30863-7	SS25-53	Total/NA	Solid	8015M/D	32260

## GC Semi VOA

## Analysis Batch: 32676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-1	SS25-47	Total/NA	Solid	8015M/D	32678
885-30863-2	SS25-48	Total/NA	Solid	8015M/D	32678
885-30863-3	SS25-49	Total/NA	Solid	8015M/D	32678
885-30863-4	SS25-50	Total/NA	Solid	8015M/D	32678
885-30863-5	SS25-51	Total/NA	Solid	8015M/D	32678

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## QC Association Summary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

## GC Semi VOA

## Prep Batch: 32678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-1	SS25-47	Total/NA	Solid	SHAKE	
885-30863-2	SS25-48	Total/NA	Solid	SHAKE	
885-30863-3	SS25-49	Total/NA	Solid	SHAKE	
885-30863-4	SS25-50	Total/NA	Solid	SHAKE	
885-30863-5	SS25-51	Total/NA	Solid	SHAKE	
885-30863-6	SS25-52	Total/NA	Solid	SHAKE	
885-30863-7	SS25-53	Total/NA	Solid	SHAKE	

## Analysis Batch: 32683

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-6	SS25-52	Total/NA	Solid	8015M/D	32678
885-30863-7	SS25-53	Total/NA	Solid	8015M/D	32678

## HPLC/IC

## Analysis Batch: 32211

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-1	SS25-47	Total/NA	Solid	300.0	32275
885-30863-2	SS25-48	Total/NA	Solid	300.0	32275
885-30863-3	SS25-49	Total/NA	Solid	300.0	32275
885-30863-4	SS25-50	Total/NA	Solid	300.0	32275
885-30863-5	SS25-51	Total/NA	Solid	300.0	32275
885-30863-6	SS25-52	Total/NA	Solid	300.0	32275
MB 885-32275/1-A	Method Blank	Total/NA	Solid	300.0	32275
LCS 885-32275/2-A	Lab Control Sample	Total/NA	Solid	300.0	32275

## Prep Batch: 32275

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-1	SS25-47	Total/NA	Solid	300_Prep	
885-30863-2	SS25-48	Total/NA	Solid	300_Prep	
885-30863-3	SS25-49	Total/NA	Solid	300_Prep	
885-30863-4	SS25-50	Total/NA	Solid	300_Prep	
885-30863-5	SS25-51	Total/NA	Solid	300_Prep	
885-30863-6	SS25-52	Total/NA	Solid	300_Prep	
MB 885-32275/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-32275/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Prep Batch: 32399

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-7	SS25-53	Total/NA	Solid	300_Prep	
MB 885-32399/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-32399/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Analysis Batch: 32435

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-30863-7	SS25-53	Total/NA	Solid	300.0	32399
MB 885-32399/1-A	Method Blank	Total/NA	Solid	300.0	32399
LCS 885-32399/2-A	Lab Control Sample	Total/NA	Solid	300.0	32399

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Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

Client Sample ID: SS25-47

Date Collected: 08/11/25 13:20

Date Received: 08/13/25 08:03

Lab Sample ID: 885-30863-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32487	JP	EET ALB	08/16/25 08:05
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32486	JP	EET ALB	08/16/25 08:05
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32676	EM	EET ALB	08/19/25 12:38
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 00:57

Client Sample ID: SS25-48

Date Collected: 08/11/25 13:25

Date Received: 08/13/25 08:03

Lab Sample ID: 885-30863-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32487	JP	EET ALB	08/16/25 08:29
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32486	JP	EET ALB	08/16/25 08:29
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32676	EM	EET ALB	08/19/25 14:05
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 01:07

Client Sample ID: SS25-49

Date Collected: 08/11/25 13:30

Date Received: 08/13/25 08:03

Lab Sample ID: 885-30863-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32487	JP	EET ALB	08/16/25 08:52
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32486	JP	EET ALB	08/16/25 08:52
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32676	EM	EET ALB	08/19/25 14:17
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 01:17

Client Sample ID: SS25-50

Date Collected: 08/11/25 13:35

Date Received: 08/13/25 08:03

Lab Sample ID: 885-30863-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32487	JP	EET ALB	08/16/25 09:16

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## Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

**Client Sample ID: SS25-50****Lab Sample ID: 885-30863-4****Date Collected: 08/11/25 13:35****Matrix: Solid****Date Received: 08/13/25 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32486	JP	EET ALB	08/16/25 09:16
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32676	EM	EET ALB	08/19/25 14:30
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 01:27

**Client Sample ID: SS25-51****Lab Sample ID: 885-30863-5****Date Collected: 08/11/25 13:40****Matrix: Solid****Date Received: 08/13/25 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32487	JP	EET ALB	08/16/25 09:39
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32486	JP	EET ALB	08/16/25 09:39
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32676	EM	EET ALB	08/19/25 14:42
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 01:36

**Client Sample ID: SS25-52****Lab Sample ID: 885-30863-6****Date Collected: 08/11/25 13:45****Matrix: Solid****Date Received: 08/13/25 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32487	JP	EET ALB	08/16/25 10:03
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32486	JP	EET ALB	08/16/25 10:03
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32683	EM	EET ALB	08/19/25 11:45
Total/NA	Prep	300_Prep			32275	MA	EET ALB	08/13/25 15:30
Total/NA	Analysis	300.0		20	32211	RC	EET ALB	08/14/25 01:46

**Client Sample ID: SS25-53****Lab Sample ID: 885-30863-7****Date Collected: 08/11/25 13:50****Matrix: Solid****Date Received: 08/13/25 08:03**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8015M/D		1	32487	JP	EET ALB	08/16/25 10:26
Total/NA	Prep	5030C			32260	KLS	EET ALB	08/13/25 13:52
Total/NA	Analysis	8021B		1	32486	JP	EET ALB	08/16/25 10:26

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Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-30863-1

**Client Sample ID: SS25-53**  
**Date Collected: 08/11/25 13:50**  
**Date Received: 08/13/25 08:03**

**Lab Sample ID: 885-30863-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			32678	BZR	EET ALB	08/19/25 08:58
Total/NA	Analysis	8015M/D		1	32683	EM	EET ALB	08/19/25 12:09
Total/NA	Prep	300_Prep			32399	MA	EET ALB	08/15/25 08:31
Total/NA	Analysis	300.0		20	32435	MA	EET ALB	08/15/25 11:44

**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 8 Federal 11

Job ID: 885-30863-1

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







## Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-30863-1

Login Number: 30863

List Number: 1

Creator: Casarrubias, Tracy

List Source: Eurofins Albuquerque

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.	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	N/A	
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	





Environment Testing

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# ANALYTICAL REPORT

## PREPARED FOR

Attn: Mr. Kent Stallings  
Vertex  
3101 Boyd Dr  
Carlsbad, New Mexico 88220

Generated 8/28/2025 7:47:59 AM

## JOB DESCRIPTION

North Pure Gold 8 Federal 11

## JOB NUMBER

885-31189-1

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  
8/28/2025 7:47:59 AM

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 8 Federal 11

Laboratory Job ID: 885-31189-1

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Definitions/Glossary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high 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 8 Federal 11

Job ID: 885-31189-1

**Job ID: 885-31189-1**

**Eurofins Albuquerque**

### Job Narrative 885-31189-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

#### Receipt

The samples were received on 8/16/2025 8:00 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 0.4°C.

#### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### GC VOA

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

#### Diesel Range Organics

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: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-15

Lab Sample ID: 885-31189-1

Date Collected: 08/14/25 10:00

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 13:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/19/25 10:30	08/22/25 13:59	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 13:59	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 13:59	1
Toluene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 13:59	1
Xylenes, Total	ND		0.10	mg/Kg		08/19/25 10:30	08/22/25 13:59	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/19/25 10:30	08/22/25 13:59	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		9.9	mg/Kg		08/21/25 14:11	08/22/25 21:23	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/21/25 14:11	08/22/25 21:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			08/21/25 14:11	08/22/25 21:23	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	13000		250	mg/Kg		08/20/25 06:12	08/21/25 13:07	50

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-16

Lab Sample ID: 885-31189-2

Date Collected: 08/14/25 10:10

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/19/25 10:30	08/22/25 15:10	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 15:10	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 15:10	1
Toluene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 15:10	1
Xylenes, Total	ND		0.099	mg/Kg		08/19/25 10:30	08/22/25 15:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/19/25 10:30	08/22/25 15:10	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]	ND		9.5	mg/Kg		08/21/25 14:11	08/22/25 22:00	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/21/25 14:11	08/22/25 22:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	114		62 - 134			08/21/25 14:11	08/22/25 22:00	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8900		100	mg/Kg		08/20/25 06:12	08/21/25 13:17	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-17

Lab Sample ID: 885-31189-3

Date Collected: 08/14/25 10:20

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/19/25 10:30	08/22/25 16:22	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 16:22	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 16:22	1
Toluene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 16:22	1
Xylenes, Total	ND		0.10	mg/Kg		08/19/25 10:30	08/22/25 16:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/19/25 10:30	08/22/25 16:22	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		10	mg/Kg		08/21/25 14:11	08/22/25 22:12	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/21/25 14:11	08/22/25 22:12	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	116		62 - 134			08/21/25 14:11	08/22/25 22:12	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4400		50	mg/Kg		08/20/25 06:12	08/20/25 09:40	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-18

Lab Sample ID: 885-31189-4

Date Collected: 08/14/25 10:30

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 16:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/19/25 10:30	08/22/25 16:46	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 16:46	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 16:46	1
Toluene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 16:46	1
Xylenes, Total	ND		0.097	mg/Kg		08/19/25 10:30	08/22/25 16:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/19/25 10:30	08/22/25 16:46	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		9.4	mg/Kg		08/21/25 14:11	08/22/25 22:25	1
Motor Oil Range Organics [C28-C40]	65		47	mg/Kg		08/21/25 14:11	08/22/25 22:25	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	95		62 - 134			08/21/25 14:11	08/22/25 22:25	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3400		50	mg/Kg		08/20/25 06:12	08/20/25 09:50	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-19

Lab Sample ID: 885-31189-5

Date Collected: 08/14/25 10:40

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/19/25 10:30	08/22/25 17:10	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 17:10	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 17:10	1
Toluene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 17:10	1
Xylenes, Total	ND		0.097	mg/Kg		08/19/25 10:30	08/22/25 17:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/19/25 10:30	08/22/25 17:10	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]	ND		9.4	mg/Kg		08/21/25 14:11	08/22/25 22:38	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/21/25 14:11	08/22/25 22:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			08/21/25 14:11	08/22/25 22:38	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14000		250	mg/Kg		08/20/25 06:12	08/21/25 13:26	50

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-20

Lab Sample ID: 885-31189-6

Date Collected: 08/14/25 10:50

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/19/25 10:30	08/22/25 17:34	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 17:34	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 17:34	1
Toluene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 17:34	1
Xylenes, Total	ND		0.098	mg/Kg		08/19/25 10:30	08/22/25 17:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/19/25 10:30	08/22/25 17:34	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]	ND		9.4	mg/Kg		08/21/25 14:11	08/22/25 22:50	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/21/25 14:11	08/22/25 22:50	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	99		62 - 134			08/21/25 14:11	08/22/25 22:50	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000		100	mg/Kg		08/20/25 06:12	08/21/25 13:36	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-21

Lab Sample ID: 885-31189-7

Date Collected: 08/14/25 11:00

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		15 - 150			08/19/25 10:30	08/22/25 17:58	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 17:58	1
Ethylbenzene	ND		0.047	mg/Kg		08/19/25 10:30	08/22/25 17:58	1
Toluene	ND		0.047	mg/Kg		08/19/25 10:30	08/22/25 17:58	1
Xylenes, Total	ND		0.095	mg/Kg		08/19/25 10:30	08/22/25 17:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/19/25 10:30	08/22/25 17:58	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		08/21/25 14:11	08/22/25 23:15	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/21/25 14:11	08/22/25 23:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/21/25 14:11	08/22/25 23:15	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3500		50	mg/Kg		08/20/25 06:12	08/20/25 10:39	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-22

Lab Sample ID: 885-31189-8

Date Collected: 08/14/25 11:10

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/19/25 10:30	08/22/25 18:22	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 18:22	1
Ethylbenzene	ND		0.048	mg/Kg		08/19/25 10:30	08/22/25 18:22	1
Toluene	ND		0.048	mg/Kg		08/19/25 10:30	08/22/25 18:22	1
Xylenes, Total	ND		0.097	mg/Kg		08/19/25 10:30	08/22/25 18:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/19/25 10:30	08/22/25 18:22	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		9.6	mg/Kg		08/21/25 14:11	08/22/25 23:27	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/21/25 14:11	08/22/25 23:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			08/21/25 14:11	08/22/25 23:27	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11000		100	mg/Kg		08/20/25 06:12	08/21/25 13:46	20

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-23

Lab Sample ID: 885-31189-9

Date Collected: 08/14/25 11:20

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/19/25 10:30	08/22/25 18:46	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/19/25 10:30	08/22/25 18:46	1
Ethylbenzene	ND		0.046	mg/Kg		08/19/25 10:30	08/22/25 18:46	1
Toluene	ND		0.046	mg/Kg		08/19/25 10:30	08/22/25 18:46	1
Xylenes, Total	ND		0.092	mg/Kg		08/19/25 10:30	08/22/25 18:46	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/19/25 10:30	08/22/25 18:46	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]	88		9.8	mg/Kg		08/21/25 14:11	08/22/25 23:40	1
Motor Oil Range Organics [C28-C40]	150		49	mg/Kg		08/21/25 14:11	08/22/25 23:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	104		62 - 134			08/21/25 14:11	08/22/25 23:40	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	6400		50	mg/Kg		08/20/25 06:12	08/20/25 11:03	10

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-24

Lab Sample ID: 885-31189-10

Date Collected: 08/14/25 11:30

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150			08/19/25 10:30	08/22/25 19:10	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 19:10	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 19:10	1
Toluene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 19:10	1
Xylenes, Total	ND		0.099	mg/Kg		08/19/25 10:30	08/22/25 19:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/19/25 10:30	08/22/25 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]	ND		9.7	mg/Kg		08/21/25 14:11	08/22/25 23:53	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/21/25 14:11	08/22/25 23:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/21/25 14:11	08/22/25 23:53	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	350		50	mg/Kg		08/20/25 06:12	08/20/25 11:13	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-25

Lab Sample ID: 885-31189-11

Date Collected: 08/14/25 11:40

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/19/25 10:30	08/22/25 19:58	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 19:58	1
Ethylbenzene	ND		0.048	mg/Kg		08/19/25 10:30	08/22/25 19:58	1
Toluene	ND		0.048	mg/Kg		08/19/25 10:30	08/22/25 19:58	1
Xylenes, Total	ND		0.096	mg/Kg		08/19/25 10:30	08/22/25 19:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/19/25 10:30	08/22/25 19:58	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		9.4	mg/Kg		08/21/25 14:11	08/23/25 00:05	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/21/25 14:11	08/23/25 00:05	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			08/21/25 14:11	08/23/25 00:05	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7700		49	mg/Kg		08/20/25 06:12	08/20/25 11:23	10

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-26

Lab Sample ID: 885-31189-12

Date Collected: 08/14/25 11:50

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 20:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/19/25 10:30	08/22/25 20:22	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/19/25 10:30	08/22/25 20:22	1
Ethylbenzene	ND		0.047	mg/Kg		08/19/25 10:30	08/22/25 20:22	1
Toluene	ND		0.047	mg/Kg		08/19/25 10:30	08/22/25 20:22	1
Xylenes, Total	ND		0.094	mg/Kg		08/19/25 10:30	08/22/25 20:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/19/25 10:30	08/22/25 20:22	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]	110		9.6	mg/Kg		08/21/25 14:11	08/23/25 00:18	1
Motor Oil Range Organics [C28-C40]	320		48	mg/Kg		08/21/25 14:11	08/23/25 00:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			08/21/25 14:11	08/23/25 00:18	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5200		50	mg/Kg		08/20/25 06:12	08/20/25 11:33	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-27

Lab Sample ID: 885-31189-13

Date Collected: 08/14/25 12:00

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/19/25 10:30	08/22/25 20:45	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/19/25 10:30	08/22/25 20:45	1
Ethylbenzene	ND		0.046	mg/Kg		08/19/25 10:30	08/22/25 20:45	1
Toluene	ND		0.046	mg/Kg		08/19/25 10:30	08/22/25 20:45	1
Xylenes, Total	ND		0.093	mg/Kg		08/19/25 10:30	08/22/25 20:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/19/25 10:30	08/22/25 20:45	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		08/21/25 14:11	08/23/25 00:30	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/21/25 14:11	08/23/25 00:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			08/21/25 14:11	08/23/25 00:30	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1100		50	mg/Kg		08/20/25 06:12	08/20/25 13:52	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-28

Lab Sample ID: 885-31189-14

Date Collected: 08/14/25 12:10

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/19/25 10:30	08/22/25 21:09	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 21:09	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 21:09	1
Toluene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 21:09	1
Xylenes, Total	ND		0.097	mg/Kg		08/19/25 10:30	08/22/25 21:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/19/25 10:30	08/22/25 21:09	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]	140		9.5	mg/Kg		08/21/25 14:11	08/23/25 00:43	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/21/25 14:11	08/23/25 00:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			08/21/25 14:11	08/23/25 00:43	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	7800		50	mg/Kg		08/20/25 06:12	08/20/25 14:02	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-29

Lab Sample ID: 885-31189-15

Date Collected: 08/14/25 12:20

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 21:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	93		15 - 150			08/19/25 10:30	08/22/25 21:33	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 21:33	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 21:33	1
Toluene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 21:33	1
Xylenes, Total	ND		0.099	mg/Kg		08/19/25 10:30	08/22/25 21:33	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/19/25 10:30	08/22/25 21:33	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]	26		9.8	mg/Kg		08/21/25 14:11	08/23/25 00:55	1
Motor Oil Range Organics [C28-C40]	62		49	mg/Kg		08/21/25 14:11	08/23/25 00:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	119		62 - 134			08/21/25 14:11	08/23/25 00:55	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	3200		50	mg/Kg		08/20/25 06:12	08/20/25 14:11	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-30

Lab Sample ID: 885-31189-16

Date Collected: 08/14/25 12:30

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 21:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/19/25 10:30	08/22/25 21:56	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 21:56	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 21:56	1
Toluene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 21:56	1
Xylenes, Total	ND		0.098	mg/Kg		08/19/25 10:30	08/22/25 21:56	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/19/25 10:30	08/22/25 21:56	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]	ND		9.7	mg/Kg		08/21/25 14:11	08/23/25 01:07	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/21/25 14:11	08/23/25 01:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	109		62 - 134			08/21/25 14:11	08/23/25 01:07	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	5000		50	mg/Kg		08/20/25 06:12	08/20/25 14:21	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-31

Lab Sample ID: 885-31189-17

Date Collected: 08/14/25 12:40

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/19/25 10:30	08/22/25 22:20	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 22:20	1
Ethylbenzene	ND		0.048	mg/Kg		08/19/25 10:30	08/22/25 22:20	1
Toluene	ND		0.048	mg/Kg		08/19/25 10:30	08/22/25 22:20	1
Xylenes, Total	ND		0.095	mg/Kg		08/19/25 10:30	08/22/25 22:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/19/25 10:30	08/22/25 22:20	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		9.6	mg/Kg		08/21/25 14:11	08/23/25 01:20	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/21/25 14:11	08/23/25 01:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	115		62 - 134			08/21/25 14:11	08/23/25 01:20	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		50	mg/Kg		08/20/25 06:12	08/21/25 09:10	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-32

Lab Sample ID: 885-31189-18

Date Collected: 08/14/25 12:50

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	90		15 - 150			08/19/25 10:30	08/22/25 22:44	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 22:44	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 22:44	1
Toluene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 22:44	1
Xylenes, Total	ND		0.098	mg/Kg		08/19/25 10:30	08/22/25 22:44	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/19/25 10:30	08/22/25 22:44	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]	ND		9.5	mg/Kg		08/21/25 14:11	08/23/25 01:32	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/21/25 14:11	08/23/25 01:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			08/21/25 14:11	08/23/25 01:32	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1500		49	mg/Kg		08/20/25 06:12	08/21/25 09:20	10

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-33

Lab Sample ID: 885-31189-19

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		15 - 150			08/19/25 10:30	08/22/25 23:07	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 23:07	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 23:07	1
Toluene	ND		0.049	mg/Kg		08/19/25 10:30	08/22/25 23:07	1
Xylenes, Total	ND		0.099	mg/Kg		08/19/25 10:30	08/22/25 23:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/19/25 10:30	08/22/25 23:07	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		08/21/25 14:11	08/23/25 01:45	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/21/25 14:11	08/23/25 01:45	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	113		62 - 134			08/21/25 14:11	08/23/25 01:45	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	4600		50	mg/Kg		08/20/25 06:12	08/21/25 09:30	10

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-34

Lab Sample ID: 885-31189-20

Date Collected: 08/14/25 13:10

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 10:30	08/22/25 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/19/25 10:30	08/22/25 23:31	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 10:30	08/22/25 23:31	1
Ethylbenzene	ND		0.047	mg/Kg		08/19/25 10:30	08/22/25 23:31	1
Toluene	ND		0.047	mg/Kg		08/19/25 10:30	08/22/25 23:31	1
Xylenes, Total	ND		0.095	mg/Kg		08/19/25 10:30	08/22/25 23:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/19/25 10:30	08/22/25 23:31	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]	ND		9.8	mg/Kg		08/21/25 14:11	08/23/25 01:57	1
Motor Oil Range Organics [C28-C40]	ND		49	mg/Kg		08/21/25 14:11	08/23/25 01:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	112		62 - 134			08/21/25 14:11	08/23/25 01:57	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14000		100	mg/Kg		08/20/25 06:12	08/21/25 09:40	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-35

Lab Sample ID: 885-31189-21

Date Collected: 08/14/25 13:20

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 03:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/19/25 16:18	08/22/25 03:41	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 16:18	08/22/25 03:41	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 16:18	08/22/25 03:41	1
Toluene	ND		0.050	mg/Kg		08/19/25 16:18	08/22/25 03:41	1
Xylenes, Total	ND		0.10	mg/Kg		08/19/25 16:18	08/22/25 03:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		15 - 150			08/19/25 16:18	08/22/25 03:41	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		9.0	mg/Kg		08/25/25 17:15	08/26/25 17:43	1
Motor Oil Range Organics [C28-C40]	ND		45	mg/Kg		08/25/25 17:15	08/26/25 17:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			08/25/25 17:15	08/26/25 17:43	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17000		250	mg/Kg		08/20/25 11:00	08/21/25 09:50	50

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-36

Lab Sample ID: 885-31189-22

Date Collected: 08/14/25 13:30

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 04:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/19/25 16:18	08/22/25 04:52	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 16:18	08/22/25 04:52	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 16:18	08/22/25 04:52	1
Toluene	ND		0.050	mg/Kg		08/19/25 16:18	08/22/25 04:52	1
Xylenes, Total	ND		0.10	mg/Kg		08/19/25 16:18	08/22/25 04:52	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/19/25 16:18	08/22/25 04:52	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		8.6	mg/Kg		08/25/25 17:15	08/26/25 17:55	1
Motor Oil Range Organics [C28-C40]	ND		43	mg/Kg		08/25/25 17:15	08/26/25 17:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			08/25/25 17:15	08/26/25 17:55	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	260		50	mg/Kg		08/20/25 11:00	08/21/25 10:19	10

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-37

Lab Sample ID: 885-31189-23

Date Collected: 08/14/25 13:40

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 06:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/19/25 16:18	08/22/25 06:03	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 16:18	08/22/25 06:03	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 16:18	08/22/25 06:03	1
Toluene	ND		0.049	mg/Kg		08/19/25 16:18	08/22/25 06:03	1
Xylenes, Total	ND		0.098	mg/Kg		08/19/25 16:18	08/22/25 06:03	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/19/25 16:18	08/22/25 06:03	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		9.3	mg/Kg		08/25/25 17:15	08/26/25 18:06	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/25/25 17:15	08/26/25 18:06	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	94		62 - 134			08/25/25 17:15	08/26/25 18:06	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	880		99	mg/Kg		08/20/25 11:00	08/21/25 11:09	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-38

Lab Sample ID: 885-31189-24

Date Collected: 08/14/25 13:50

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 06:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/19/25 16:18	08/22/25 06:26	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 16:18	08/22/25 06:26	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 16:18	08/22/25 06:26	1
Toluene	ND		0.050	mg/Kg		08/19/25 16:18	08/22/25 06:26	1
Xylenes, Total	ND		0.099	mg/Kg		08/19/25 16:18	08/22/25 06:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/19/25 16:18	08/22/25 06:26	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		8.8	mg/Kg		08/25/25 17:15	08/26/25 18:18	1
Motor Oil Range Organics [C28-C40]	ND		44	mg/Kg		08/25/25 17:15	08/26/25 18:18	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	85		62 - 134			08/25/25 17:15	08/26/25 18:18	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		100	mg/Kg		08/20/25 11:00	08/21/25 11:18	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-39

Lab Sample ID: 885-31189-25

Date Collected: 08/14/25 14:00

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 07:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/19/25 16:18	08/22/25 07:13	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 16:18	08/22/25 07:13	1
Ethylbenzene	ND		0.048	mg/Kg		08/19/25 16:18	08/22/25 07:13	1
Toluene	ND		0.048	mg/Kg		08/19/25 16:18	08/22/25 07:13	1
Xylenes, Total	ND		0.095	mg/Kg		08/19/25 16:18	08/22/25 07:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	82		15 - 150			08/19/25 16:18	08/22/25 07:13	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]	ND		9.5	mg/Kg		08/26/25 11:26	08/26/25 15:51	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/26/25 11:26	08/26/25 15:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	101		62 - 134			08/26/25 11:26	08/26/25 15:51	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1300		99	mg/Kg		08/20/25 11:00	08/21/25 11:28	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-40

Lab Sample ID: 885-31189-26

Date Collected: 08/14/25 14:10

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 07:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/19/25 16:18	08/22/25 07:37	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.023	mg/Kg		08/19/25 16:18	08/22/25 07:37	1
Ethylbenzene	ND		0.046	mg/Kg		08/19/25 16:18	08/22/25 07:37	1
Toluene	ND		0.046	mg/Kg		08/19/25 16:18	08/22/25 07:37	1
Xylenes, Total	ND		0.092	mg/Kg		08/19/25 16:18	08/22/25 07:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/19/25 16:18	08/22/25 07:37	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		9.4	mg/Kg		08/26/25 11:26	08/26/25 16:02	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/26/25 11:26	08/26/25 16:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			08/26/25 11:26	08/26/25 16:02	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2000		100	mg/Kg		08/20/25 11:00	08/21/25 11:38	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-41

Lab Sample ID: 885-31189-27

Date Collected: 08/14/25 14:20

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 08:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/19/25 16:18	08/22/25 08:00	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 16:18	08/22/25 08:00	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 16:18	08/22/25 08:00	1
Toluene	ND		0.049	mg/Kg		08/19/25 16:18	08/22/25 08:00	1
Xylenes, Total	ND		0.097	mg/Kg		08/19/25 16:18	08/22/25 08:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/19/25 16:18	08/22/25 08:00	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		9.2	mg/Kg		08/26/25 11:26	08/26/25 16:13	1
Motor Oil Range Organics [C28-C40]	ND		46	mg/Kg		08/26/25 11:26	08/26/25 16:13	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	103		62 - 134			08/26/25 11:26	08/26/25 16:13	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140		50	mg/Kg		08/20/25 11:00	08/21/25 11:48	10

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-42

Lab Sample ID: 885-31189-28

Date Collected: 08/14/25 14:30

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 08:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		15 - 150			08/19/25 16:18	08/22/25 08:23	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 16:18	08/22/25 08:23	1
Ethylbenzene	ND		0.049	mg/Kg		08/19/25 16:18	08/22/25 08:23	1
Toluene	ND		0.049	mg/Kg		08/19/25 16:18	08/22/25 08:23	1
Xylenes, Total	ND		0.097	mg/Kg		08/19/25 16:18	08/22/25 08:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		15 - 150			08/19/25 16:18	08/22/25 08:23	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		08/26/25 11:26	08/26/25 15:55	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/26/25 11:26	08/26/25 15:55	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	100		62 - 134			08/26/25 11:26	08/26/25 15:55	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		50	mg/Kg		08/20/25 11:00	08/21/25 11:58	10

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-43

Lab Sample ID: 885-31189-29

Date Collected: 08/14/25 14:40

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 08:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/19/25 16:18	08/22/25 08:47	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 16:18	08/22/25 08:47	1
Ethylbenzene	ND		0.048	mg/Kg		08/19/25 16:18	08/22/25 08:47	1
Toluene	ND		0.048	mg/Kg		08/19/25 16:18	08/22/25 08:47	1
Xylenes, Total	ND		0.096	mg/Kg		08/19/25 16:18	08/22/25 08:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	81		15 - 150			08/19/25 16:18	08/22/25 08:47	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		08/26/25 11:26	08/26/25 16:07	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/26/25 11:26	08/26/25 16:07	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			08/26/25 11:26	08/26/25 16:07	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	730		100	mg/Kg		08/20/25 11:00	08/21/25 12:08	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-44

Lab Sample ID: 885-31189-30

Date Collected: 08/14/25 14:50

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 09:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/19/25 16:18	08/22/25 09:10	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 16:18	08/22/25 09:10	1
Ethylbenzene	ND		0.048	mg/Kg		08/19/25 16:18	08/22/25 09:10	1
Toluene	ND		0.048	mg/Kg		08/19/25 16:18	08/22/25 09:10	1
Xylenes, Total	ND		0.096	mg/Kg		08/19/25 16:18	08/22/25 09:10	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	84		15 - 150			08/19/25 16:18	08/22/25 09:10	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]	ND		9.4	mg/Kg		08/26/25 11:26	08/26/25 16:19	1
Motor Oil Range Organics [C28-C40]	ND		47	mg/Kg		08/26/25 11:26	08/26/25 16:19	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	92		62 - 134			08/26/25 11:26	08/26/25 16:19	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	610		99	mg/Kg		08/20/25 11:00	08/21/25 12:17	20

Eurofins Albuquerque



## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-45

Lab Sample ID: 885-31189-31

Date Collected: 08/14/25 15:00

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 09:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	87		15 - 150			08/19/25 16:18	08/22/25 09:34	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.024	mg/Kg		08/19/25 16:18	08/22/25 09:34	1
Ethylbenzene	ND		0.048	mg/Kg		08/19/25 16:18	08/22/25 09:34	1
Toluene	ND		0.048	mg/Kg		08/19/25 16:18	08/22/25 09:34	1
Xylenes, Total	ND		0.096	mg/Kg		08/19/25 16:18	08/22/25 09:34	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/19/25 16:18	08/22/25 09:34	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]	ND		9.7	mg/Kg		08/26/25 11:26	08/26/25 16:32	1
Motor Oil Range Organics [C28-C40]	ND		48	mg/Kg		08/26/25 11:26	08/26/25 16:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	93		62 - 134			08/26/25 11:26	08/26/25 16:32	1

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	690		100	mg/Kg		08/20/25 11:00	08/21/25 12:27	20

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## Client Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-46

Lab Sample ID: 885-31189-32

Date Collected: 08/14/25 15:10

Matrix: Solid

Date Received: 08/16/25 08:00

## 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		08/19/25 16:18	08/22/25 09:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		15 - 150			08/19/25 16:18	08/22/25 09:57	1

## Method: SW846 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 16:18	08/22/25 09:57	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 16:18	08/22/25 09:57	1
Toluene	ND		0.050	mg/Kg		08/19/25 16:18	08/22/25 09:57	1
Xylenes, Total	ND		0.099	mg/Kg		08/19/25 16:18	08/22/25 09:57	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	83		15 - 150			08/19/25 16:18	08/22/25 09:57	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]	95		49	mg/Kg		08/26/25 11:26	08/27/25 11:56	5
Motor Oil Range Organics [C28-C40]	280		240	mg/Kg		08/26/25 11:26	08/27/25 11:56	5
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	110		62 - 134			08/26/25 11:26	08/27/25 11:56	5

## Method: EPA 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	560		99	mg/Kg		08/20/25 11:00	08/21/25 12:37	20

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## QC Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 885-32712/1-A

Matrix: Solid

Analysis Batch: 33008

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32712

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/19/25 10:30	08/22/25 13:35	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		15 - 150			08/19/25 10:30	08/22/25 13:35	1

Lab Sample ID: LCS 885-32712/2-A

Matrix: Solid

Analysis Batch: 33008

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32712

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	25.0	23.6		mg/Kg		94	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
4-Bromofluorobenzene (Surr)	190		15 - 150				

Lab Sample ID: 885-31189-1 MS

Matrix: Solid

Analysis Batch: 33008

Client Sample ID: SS25-15

Prep Type: Total/NA

Prep Batch: 32712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (GRO)-C6-C10	ND		24.9	22.1		mg/Kg		89	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
4-Bromofluorobenzene (Surr)	190		15 - 150						

Lab Sample ID: 885-31189-1 MSD

Matrix: Solid

Analysis Batch: 33008

Client Sample ID: SS25-15

Prep Type: Total/NA

Prep Batch: 32712

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	ND		24.8	22.2		mg/Kg		90	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
4-Bromofluorobenzene (Surr)	198		15 - 150								

Lab Sample ID: MB 885-32757/1-A

Matrix: Solid

Analysis Batch: 32943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32757

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	ND		5.0	mg/Kg		08/19/25 16:18	08/21/25 16:12	1

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## QC Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## Method: 8015M/D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: MB 885-32757/1-A

Matrix: Solid

Analysis Batch: 32943

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32757

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	99		15 - 150	08/19/25 16:18	08/21/25 16:12	1

Lab Sample ID: LCS 885-32757/2-A

Matrix: Solid

Analysis Batch: 32943

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32757

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	25.0	23.8		mg/Kg		95	70 - 130
Surrogate	LCS LCS		Limits				
	%Recovery	Qualifier					
4-Bromofluorobenzene (Surr)	198	S1+	15 - 150				

Lab Sample ID: 885-31189-21 MS

Matrix: Solid

Analysis Batch: 32967

Client Sample ID: SS25-35

Prep Type: Total/NA

Prep Batch: 32757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	21.6		mg/Kg		87	70 - 130
Surrogate	MS MS		Limits						
	%Recovery	Qualifier							
4-Bromofluorobenzene (Surr)	187		15 - 150						

Lab Sample ID: 885-31189-21 MSD

Matrix: Solid

Analysis Batch: 32967

Client Sample ID: SS25-35

Prep Type: Total/NA

Prep Batch: 32757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec Limits	RPD	
				Result	Qualifier					RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	ND		24.8	23.1		mg/Kg		93	70 - 130	6	20
Surrogate	MSD MSD		Limits								
	%Recovery	Qualifier									
4-Bromofluorobenzene (Surr)	192		15 - 150								

## Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 885-32712/1-A

Matrix: Solid

Analysis Batch: 33009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32712

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	ND		0.025	mg/Kg		08/19/25 10:30	08/22/25 13:35	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 13:35	1
Toluene	ND		0.050	mg/Kg		08/19/25 10:30	08/22/25 13:35	1
Xylenes, Total	ND		0.10	mg/Kg		08/19/25 10:30	08/22/25 13:35	1

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## QC Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-32712/1-A

Matrix: Solid

Analysis Batch: 33009

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32712

MB MB		Qualifier	Limits	Prepared		Analyzed		Dil	Fac
Surrogate	%Recovery								
4-Bromofluorobenzene (Surr)	86		15 - 150			08/19/25 10:30	08/22/25 13:35		1

Lab Sample ID: LCS 885-32712/3-A

Matrix: Solid

Analysis Batch: 33009

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32712

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec	
		Result	Qualifier				Limits	
Benzene	1.00	0.959		mg/Kg		96	70 - 130	
Ethylbenzene	1.00	0.943		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	2.00	1.93		mg/Kg		97	70 - 130	
o-Xylene	1.00	0.938		mg/Kg		94	70 - 130	
Toluene	1.00	0.929		mg/Kg		93	70 - 130	

LCS LCS		Qualifier	Limits
Surrogate	%Recovery		
4-Bromofluorobenzene (Surr)	88		15 - 150

Lab Sample ID: 885-31189-2 MS

Matrix: Solid

Analysis Batch: 33009

Client Sample ID: SS25-16

Prep Type: Total/NA

Prep Batch: 32712

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec	
				Result	Qualifier				Limits	
Benzene	ND		0.998	0.961		mg/Kg		96	70 - 130	
Ethylbenzene	ND		0.998	0.937		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	ND		2.00	1.99		mg/Kg		100	70 - 130	
o-Xylene	ND		0.998	0.948		mg/Kg		95	70 - 130	
Toluene	ND		0.998	0.949		mg/Kg		95	70 - 130	

MS MS		Qualifier	Limits
Surrogate	%Recovery		
4-Bromofluorobenzene (Surr)	92		15 - 150

Lab Sample ID: 885-31189-2 MSD

Matrix: Solid

Analysis Batch: 33009

Client Sample ID: SS25-16

Prep Type: Total/NA

Prep Batch: 32712

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD MSD		Unit	D	%Rec	%Rec		RPD	
				Result	Qualifier				Limits		RPD	Limit
Benzene	ND		0.995	0.968		mg/Kg		97	70 - 130		1	20
Ethylbenzene	ND		0.995	0.949		mg/Kg		95	70 - 130		1	20
m-Xylene & p-Xylene	ND		1.99	1.98		mg/Kg		100	70 - 130		0	20
o-Xylene	ND		0.995	0.957		mg/Kg		96	70 - 130		1	20
Toluene	ND		0.995	0.946		mg/Kg		95	70 - 130		0	20

MSD MSD		Qualifier	Limits
Surrogate	%Recovery		
4-Bromofluorobenzene (Surr)	91		15 - 150

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## QC Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: MB 885-32757/1-A

Matrix: Solid

Analysis Batch: 32944

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32757

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.025	mg/Kg		08/19/25 16:18	08/21/25 16:12	1
Ethylbenzene	ND		0.050	mg/Kg		08/19/25 16:18	08/21/25 16:12	1
Toluene	ND		0.050	mg/Kg		08/19/25 16:18	08/21/25 16:12	1
Xylenes, Total	ND		0.10	mg/Kg		08/19/25 16:18	08/21/25 16:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	92		15 - 150	08/19/25 16:18	08/21/25 16:12	1

Lab Sample ID: LCS 885-32757/3-A

Matrix: Solid

Analysis Batch: 32944

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32757

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	1.00	1.03		mg/Kg		103	70 - 130
Ethylbenzene	1.00	0.989		mg/Kg		99	70 - 130
m-Xylene & p-Xylene	2.00	2.10		mg/Kg		105	70 - 130
o-Xylene	1.00	1.00		mg/Kg		100	70 - 130
Toluene	1.00	0.994		mg/Kg		99	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		15 - 150

Lab Sample ID: 885-31189-22 MS

Matrix: Solid

Analysis Batch: 32966

Client Sample ID: SS25-36

Prep Type: Total/NA

Prep Batch: 32757

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Benzene	ND		0.997	0.964		mg/Kg		97	70 - 130
Ethylbenzene	ND		0.997	0.930		mg/Kg		93	70 - 130
m-Xylene & p-Xylene	ND		1.99	1.93		mg/Kg		97	70 - 130
o-Xylene	ND		0.997	0.935		mg/Kg		94	70 - 130
Toluene	ND		0.997	0.932		mg/Kg		93	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	86		15 - 150

Lab Sample ID: 885-31189-22 MSD

Matrix: Solid

Analysis Batch: 32966

Client Sample ID: SS25-36

Prep Type: Total/NA

Prep Batch: 32757

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	Limit
Benzene	ND		0.992	0.964		mg/Kg		97	70 - 130	0	20
Ethylbenzene	ND		0.992	0.940		mg/Kg		95	70 - 130	1	20
m-Xylene & p-Xylene	ND		1.98	1.96		mg/Kg		99	70 - 130	1	20
o-Xylene	ND		0.992	0.937		mg/Kg		94	70 - 130	0	20
Toluene	ND		0.992	0.951		mg/Kg		96	70 - 130	2	20

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## QC Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: 885-31189-22 MSD

Matrix: Solid

Analysis Batch: 32966

Client Sample ID: SS25-36

Prep Type: Total/NA

Prep Batch: 32757

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		15 - 150

## Method: 8015M/D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 885-32945/1-A

Matrix: Solid

Analysis Batch: 32983

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32945

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/21/25 14:10	08/22/25 20:58	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/21/25 14:10	08/22/25 20:58	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	107		62 - 134			08/21/25 14:10	08/22/25 20:58	1

Lab Sample ID: LCS 885-32945/2-A

Matrix: Solid

Analysis Batch: 32983

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32945

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	51.7		mg/Kg		103	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	98		62 - 134				

Lab Sample ID: 885-31189-1 MS

Matrix: Solid

Analysis Batch: 32983

Client Sample ID: SS25-15

Prep Type: Total/NA

Prep Batch: 32945

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	ND		48.2	40.1		mg/Kg		83	44 - 136
Surrogate	MS %Recovery	MS Qualifier	Limits						
Di-n-octyl phthalate (Surr)	106		62 - 134						

Lab Sample ID: 885-31189-1 MSD

Matrix: Solid

Analysis Batch: 32983

Client Sample ID: SS25-15

Prep Type: Total/NA

Prep Batch: 32945

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		48.5	55.6		mg/Kg		115	44 - 136	32	32
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
Di-n-octyl phthalate (Surr)	107		62 - 134								

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## QC Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## Method: 8015M/D - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 885-33172/1-A

Matrix: Solid

Analysis Batch: 33206

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33172

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/25/25 17:15	08/26/25 13:42	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/25/25 17:15	08/26/25 13:42	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	89		62 - 134			08/25/25 17:15	08/26/25 13:42	1

Lab Sample ID: LCS 885-33172/2-A

Matrix: Solid

Analysis Batch: 33206

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33172

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	47.4		mg/Kg		95	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	88		62 - 134				

Lab Sample ID: MB 885-33226/1-A

Matrix: Solid

Analysis Batch: 33194

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 33226

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics [C10-C28]	ND		10	mg/Kg		08/26/25 11:26	08/26/25 15:29	1
Motor Oil Range Organics [C28-C40]	ND		50	mg/Kg		08/26/25 11:26	08/26/25 15:29	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
Di-n-octyl phthalate (Surr)	102		62 - 134			08/26/25 11:26	08/26/25 15:29	1

Lab Sample ID: LCS 885-33226/2-A

Matrix: Solid

Analysis Batch: 33194

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 33226

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Diesel Range Organics [C10-C28]	50.0	46.8		mg/Kg		94	51 - 148
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
Di-n-octyl phthalate (Surr)	99		62 - 134				

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 885-32772/1-A

Matrix: Solid

Analysis Batch: 32775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32772

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		08/20/25 06:12	08/20/25 08:12	1

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## QC Sample Results

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 885-32772/2-A

Matrix: Solid

Analysis Batch: 32775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32772

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.7	47.8		mg/Kg		96	90 - 110

Lab Sample ID: MB 885-32811/1-A

Matrix: Solid

Analysis Batch: 32775

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 32811

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		5.0	mg/Kg		08/20/25 11:00	08/20/25 12:13	1

Lab Sample ID: LCS 885-32811/2-A

Matrix: Solid

Analysis Batch: 32775

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 32811

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	49.8	49.0		mg/Kg		98	90 - 110

Lab Sample ID: 885-31189-21 MS

Matrix: Solid

Analysis Batch: 32890

Client Sample ID: SS25-35

Prep Type: Total/NA

Prep Batch: 32811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	17000		49.5	17400	4	mg/Kg		148	50 - 150

Lab Sample ID: 885-31189-22 MS

Matrix: Solid

Analysis Batch: 32890

Client Sample ID: SS25-36

Prep Type: Total/NA

Prep Batch: 32811

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Chloride	260		49.7	301	4	mg/Kg		88	50 - 150

Lab Sample ID: 885-31189-22 MSD

Matrix: Solid

Analysis Batch: 32890

Client Sample ID: SS25-36

Prep Type: Total/NA

Prep Batch: 32811

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chloride	260		49.7	298	4	mg/Kg		83	50 - 150	1	20

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## QC Association Summary

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## GC VOA

## Prep Batch: 32712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-1	SS25-15	Total/NA	Solid	5030C	
885-31189-2	SS25-16	Total/NA	Solid	5030C	
885-31189-3	SS25-17	Total/NA	Solid	5030C	
885-31189-4	SS25-18	Total/NA	Solid	5030C	
885-31189-5	SS25-19	Total/NA	Solid	5030C	
885-31189-6	SS25-20	Total/NA	Solid	5030C	
885-31189-7	SS25-21	Total/NA	Solid	5030C	
885-31189-8	SS25-22	Total/NA	Solid	5030C	
885-31189-9	SS25-23	Total/NA	Solid	5030C	
885-31189-10	SS25-24	Total/NA	Solid	5030C	
885-31189-11	SS25-25	Total/NA	Solid	5030C	
885-31189-12	SS25-26	Total/NA	Solid	5030C	
885-31189-13	SS25-27	Total/NA	Solid	5030C	
885-31189-14	SS25-28	Total/NA	Solid	5030C	
885-31189-15	SS25-29	Total/NA	Solid	5030C	
885-31189-16	SS25-30	Total/NA	Solid	5030C	
885-31189-17	SS25-31	Total/NA	Solid	5030C	
885-31189-18	SS25-32	Total/NA	Solid	5030C	
885-31189-19	SS25-33	Total/NA	Solid	5030C	
885-31189-20	SS25-34	Total/NA	Solid	5030C	
MB 885-32712/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-32712/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-32712/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-31189-1 MS	SS25-15	Total/NA	Solid	5030C	
885-31189-1 MSD	SS25-15	Total/NA	Solid	5030C	
885-31189-2 MS	SS25-16	Total/NA	Solid	5030C	
885-31189-2 MSD	SS25-16	Total/NA	Solid	5030C	

## Prep Batch: 32757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-21	SS25-35	Total/NA	Solid	5030C	
885-31189-22	SS25-36	Total/NA	Solid	5030C	
885-31189-23	SS25-37	Total/NA	Solid	5030C	
885-31189-24	SS25-38	Total/NA	Solid	5030C	
885-31189-25	SS25-39	Total/NA	Solid	5030C	
885-31189-26	SS25-40	Total/NA	Solid	5030C	
885-31189-27	SS25-41	Total/NA	Solid	5030C	
885-31189-28	SS25-42	Total/NA	Solid	5030C	
885-31189-29	SS25-43	Total/NA	Solid	5030C	
885-31189-30	SS25-44	Total/NA	Solid	5030C	
885-31189-31	SS25-45	Total/NA	Solid	5030C	
885-31189-32	SS25-46	Total/NA	Solid	5030C	
MB 885-32757/1-A	Method Blank	Total/NA	Solid	5030C	
LCS 885-32757/2-A	Lab Control Sample	Total/NA	Solid	5030C	
LCS 885-32757/3-A	Lab Control Sample	Total/NA	Solid	5030C	
885-31189-21 MS	SS25-35	Total/NA	Solid	5030C	
885-31189-21 MSD	SS25-35	Total/NA	Solid	5030C	
885-31189-22 MS	SS25-36	Total/NA	Solid	5030C	
885-31189-22 MSD	SS25-36	Total/NA	Solid	5030C	

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## QC Association Summary

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## GC VOA

## Analysis Batch: 32943

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-32757/1-A	Method Blank	Total/NA	Solid	8015M/D	32757
LCS 885-32757/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32757

## Analysis Batch: 32944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 885-32757/1-A	Method Blank	Total/NA	Solid	8021B	32757
LCS 885-32757/3-A	Lab Control Sample	Total/NA	Solid	8021B	32757

## Analysis Batch: 32966

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-21	SS25-35	Total/NA	Solid	8021B	32757
885-31189-22	SS25-36	Total/NA	Solid	8021B	32757
885-31189-23	SS25-37	Total/NA	Solid	8021B	32757
885-31189-24	SS25-38	Total/NA	Solid	8021B	32757
885-31189-25	SS25-39	Total/NA	Solid	8021B	32757
885-31189-26	SS25-40	Total/NA	Solid	8021B	32757
885-31189-27	SS25-41	Total/NA	Solid	8021B	32757
885-31189-28	SS25-42	Total/NA	Solid	8021B	32757
885-31189-29	SS25-43	Total/NA	Solid	8021B	32757
885-31189-30	SS25-44	Total/NA	Solid	8021B	32757
885-31189-31	SS25-45	Total/NA	Solid	8021B	32757
885-31189-32	SS25-46	Total/NA	Solid	8021B	32757
885-31189-22 MS	SS25-36	Total/NA	Solid	8021B	32757
885-31189-22 MSD	SS25-36	Total/NA	Solid	8021B	32757

## Analysis Batch: 32967

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-21	SS25-35	Total/NA	Solid	8015M/D	32757
885-31189-22	SS25-36	Total/NA	Solid	8015M/D	32757
885-31189-23	SS25-37	Total/NA	Solid	8015M/D	32757
885-31189-24	SS25-38	Total/NA	Solid	8015M/D	32757
885-31189-25	SS25-39	Total/NA	Solid	8015M/D	32757
885-31189-26	SS25-40	Total/NA	Solid	8015M/D	32757
885-31189-27	SS25-41	Total/NA	Solid	8015M/D	32757
885-31189-28	SS25-42	Total/NA	Solid	8015M/D	32757
885-31189-29	SS25-43	Total/NA	Solid	8015M/D	32757
885-31189-30	SS25-44	Total/NA	Solid	8015M/D	32757
885-31189-31	SS25-45	Total/NA	Solid	8015M/D	32757
885-31189-32	SS25-46	Total/NA	Solid	8015M/D	32757
885-31189-21 MS	SS25-35	Total/NA	Solid	8015M/D	32757
885-31189-21 MSD	SS25-35	Total/NA	Solid	8015M/D	32757

## Analysis Batch: 33008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-1	SS25-15	Total/NA	Solid	8015M/D	32712
885-31189-2	SS25-16	Total/NA	Solid	8015M/D	32712
885-31189-3	SS25-17	Total/NA	Solid	8015M/D	32712
885-31189-4	SS25-18	Total/NA	Solid	8015M/D	32712
885-31189-5	SS25-19	Total/NA	Solid	8015M/D	32712
885-31189-6	SS25-20	Total/NA	Solid	8015M/D	32712
885-31189-7	SS25-21	Total/NA	Solid	8015M/D	32712

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## QC Association Summary

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## GC VOA (Continued)

## Analysis Batch: 33008 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-8	SS25-22	Total/NA	Solid	8015M/D	32712
885-31189-9	SS25-23	Total/NA	Solid	8015M/D	32712
885-31189-10	SS25-24	Total/NA	Solid	8015M/D	32712
885-31189-11	SS25-25	Total/NA	Solid	8015M/D	32712
885-31189-12	SS25-26	Total/NA	Solid	8015M/D	32712
885-31189-13	SS25-27	Total/NA	Solid	8015M/D	32712
885-31189-14	SS25-28	Total/NA	Solid	8015M/D	32712
885-31189-15	SS25-29	Total/NA	Solid	8015M/D	32712
885-31189-16	SS25-30	Total/NA	Solid	8015M/D	32712
885-31189-17	SS25-31	Total/NA	Solid	8015M/D	32712
885-31189-18	SS25-32	Total/NA	Solid	8015M/D	32712
885-31189-19	SS25-33	Total/NA	Solid	8015M/D	32712
885-31189-20	SS25-34	Total/NA	Solid	8015M/D	32712
MB 885-32712/1-A	Method Blank	Total/NA	Solid	8015M/D	32712
LCS 885-32712/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32712
885-31189-1 MS	SS25-15	Total/NA	Solid	8015M/D	32712
885-31189-1 MSD	SS25-15	Total/NA	Solid	8015M/D	32712

## Analysis Batch: 33009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-1	SS25-15	Total/NA	Solid	8021B	32712
885-31189-2	SS25-16	Total/NA	Solid	8021B	32712
885-31189-3	SS25-17	Total/NA	Solid	8021B	32712
885-31189-4	SS25-18	Total/NA	Solid	8021B	32712
885-31189-5	SS25-19	Total/NA	Solid	8021B	32712
885-31189-6	SS25-20	Total/NA	Solid	8021B	32712
885-31189-7	SS25-21	Total/NA	Solid	8021B	32712
885-31189-8	SS25-22	Total/NA	Solid	8021B	32712
885-31189-9	SS25-23	Total/NA	Solid	8021B	32712
885-31189-10	SS25-24	Total/NA	Solid	8021B	32712
885-31189-11	SS25-25	Total/NA	Solid	8021B	32712
885-31189-12	SS25-26	Total/NA	Solid	8021B	32712
885-31189-13	SS25-27	Total/NA	Solid	8021B	32712
885-31189-14	SS25-28	Total/NA	Solid	8021B	32712
885-31189-15	SS25-29	Total/NA	Solid	8021B	32712
885-31189-16	SS25-30	Total/NA	Solid	8021B	32712
885-31189-17	SS25-31	Total/NA	Solid	8021B	32712
885-31189-18	SS25-32	Total/NA	Solid	8021B	32712
885-31189-19	SS25-33	Total/NA	Solid	8021B	32712
885-31189-20	SS25-34	Total/NA	Solid	8021B	32712
MB 885-32712/1-A	Method Blank	Total/NA	Solid	8021B	32712
LCS 885-32712/3-A	Lab Control Sample	Total/NA	Solid	8021B	32712
885-31189-2 MS	SS25-16	Total/NA	Solid	8021B	32712
885-31189-2 MSD	SS25-16	Total/NA	Solid	8021B	32712

## GC Semi VOA

## Prep Batch: 32945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-1	SS25-15	Total/NA	Solid	SHAKE	
885-31189-2	SS25-16	Total/NA	Solid	SHAKE	

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## QC Association Summary

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## GC Semi VOA (Continued)

## Prep Batch: 32945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-3	SS25-17	Total/NA	Solid	SHAKE	
885-31189-4	SS25-18	Total/NA	Solid	SHAKE	
885-31189-5	SS25-19	Total/NA	Solid	SHAKE	
885-31189-6	SS25-20	Total/NA	Solid	SHAKE	
885-31189-7	SS25-21	Total/NA	Solid	SHAKE	
885-31189-8	SS25-22	Total/NA	Solid	SHAKE	
885-31189-9	SS25-23	Total/NA	Solid	SHAKE	
885-31189-10	SS25-24	Total/NA	Solid	SHAKE	
885-31189-11	SS25-25	Total/NA	Solid	SHAKE	
885-31189-12	SS25-26	Total/NA	Solid	SHAKE	
885-31189-13	SS25-27	Total/NA	Solid	SHAKE	
885-31189-14	SS25-28	Total/NA	Solid	SHAKE	
885-31189-15	SS25-29	Total/NA	Solid	SHAKE	
885-31189-16	SS25-30	Total/NA	Solid	SHAKE	
885-31189-17	SS25-31	Total/NA	Solid	SHAKE	
885-31189-18	SS25-32	Total/NA	Solid	SHAKE	
885-31189-19	SS25-33	Total/NA	Solid	SHAKE	
885-31189-20	SS25-34	Total/NA	Solid	SHAKE	
MB 885-32945/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-32945/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	
885-31189-1 MS	SS25-15	Total/NA	Solid	SHAKE	
885-31189-1 MSD	SS25-15	Total/NA	Solid	SHAKE	

## Analysis Batch: 32983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-1	SS25-15	Total/NA	Solid	8015M/D	32945
885-31189-2	SS25-16	Total/NA	Solid	8015M/D	32945
885-31189-3	SS25-17	Total/NA	Solid	8015M/D	32945
885-31189-4	SS25-18	Total/NA	Solid	8015M/D	32945
885-31189-5	SS25-19	Total/NA	Solid	8015M/D	32945
885-31189-6	SS25-20	Total/NA	Solid	8015M/D	32945
885-31189-7	SS25-21	Total/NA	Solid	8015M/D	32945
885-31189-8	SS25-22	Total/NA	Solid	8015M/D	32945
885-31189-9	SS25-23	Total/NA	Solid	8015M/D	32945
885-31189-10	SS25-24	Total/NA	Solid	8015M/D	32945
885-31189-11	SS25-25	Total/NA	Solid	8015M/D	32945
885-31189-12	SS25-26	Total/NA	Solid	8015M/D	32945
885-31189-13	SS25-27	Total/NA	Solid	8015M/D	32945
885-31189-14	SS25-28	Total/NA	Solid	8015M/D	32945
885-31189-15	SS25-29	Total/NA	Solid	8015M/D	32945
885-31189-16	SS25-30	Total/NA	Solid	8015M/D	32945
885-31189-17	SS25-31	Total/NA	Solid	8015M/D	32945
885-31189-18	SS25-32	Total/NA	Solid	8015M/D	32945
885-31189-19	SS25-33	Total/NA	Solid	8015M/D	32945
885-31189-20	SS25-34	Total/NA	Solid	8015M/D	32945
MB 885-32945/1-A	Method Blank	Total/NA	Solid	8015M/D	32945
LCS 885-32945/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	32945
885-31189-1 MS	SS25-15	Total/NA	Solid	8015M/D	32945
885-31189-1 MSD	SS25-15	Total/NA	Solid	8015M/D	32945

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## QC Association Summary

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## GC Semi VOA

## Prep Batch: 33172

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-21	SS25-35	Total/NA	Solid	SHAKE	
885-31189-22	SS25-36	Total/NA	Solid	SHAKE	
885-31189-23	SS25-37	Total/NA	Solid	SHAKE	
885-31189-24	SS25-38	Total/NA	Solid	SHAKE	
MB 885-33172/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33172/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## Analysis Batch: 33187

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-28	SS25-42	Total/NA	Solid	8015M/D	33226
885-31189-29	SS25-43	Total/NA	Solid	8015M/D	33226
885-31189-30	SS25-44	Total/NA	Solid	8015M/D	33226
885-31189-31	SS25-45	Total/NA	Solid	8015M/D	33226

## Analysis Batch: 33194

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-25	SS25-39	Total/NA	Solid	8015M/D	33226
885-31189-26	SS25-40	Total/NA	Solid	8015M/D	33226
885-31189-27	SS25-41	Total/NA	Solid	8015M/D	33226
MB 885-33226/1-A	Method Blank	Total/NA	Solid	8015M/D	33226
LCS 885-33226/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33226

## Analysis Batch: 33206

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-21	SS25-35	Total/NA	Solid	8015M/D	33172
885-31189-22	SS25-36	Total/NA	Solid	8015M/D	33172
885-31189-23	SS25-37	Total/NA	Solid	8015M/D	33172
885-31189-24	SS25-38	Total/NA	Solid	8015M/D	33172
MB 885-33172/1-A	Method Blank	Total/NA	Solid	8015M/D	33172
LCS 885-33172/2-A	Lab Control Sample	Total/NA	Solid	8015M/D	33172

## Prep Batch: 33226

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-25	SS25-39	Total/NA	Solid	SHAKE	
885-31189-26	SS25-40	Total/NA	Solid	SHAKE	
885-31189-27	SS25-41	Total/NA	Solid	SHAKE	
885-31189-28	SS25-42	Total/NA	Solid	SHAKE	
885-31189-29	SS25-43	Total/NA	Solid	SHAKE	
885-31189-30	SS25-44	Total/NA	Solid	SHAKE	
885-31189-31	SS25-45	Total/NA	Solid	SHAKE	
885-31189-32	SS25-46	Total/NA	Solid	SHAKE	
MB 885-33226/1-A	Method Blank	Total/NA	Solid	SHAKE	
LCS 885-33226/2-A	Lab Control Sample	Total/NA	Solid	SHAKE	

## Analysis Batch: 33310

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-32	SS25-46	Total/NA	Solid	8015M/D	33226

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## QC Association Summary

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## HPLC/IC

## Prep Batch: 32772

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-1	SS25-15	Total/NA	Solid	300_Prep	
885-31189-2	SS25-16	Total/NA	Solid	300_Prep	
885-31189-3	SS25-17	Total/NA	Solid	300_Prep	
885-31189-4	SS25-18	Total/NA	Solid	300_Prep	
885-31189-5	SS25-19	Total/NA	Solid	300_Prep	
885-31189-6	SS25-20	Total/NA	Solid	300_Prep	
885-31189-7	SS25-21	Total/NA	Solid	300_Prep	
885-31189-8	SS25-22	Total/NA	Solid	300_Prep	
885-31189-9	SS25-23	Total/NA	Solid	300_Prep	
885-31189-10	SS25-24	Total/NA	Solid	300_Prep	
885-31189-11	SS25-25	Total/NA	Solid	300_Prep	
885-31189-12	SS25-26	Total/NA	Solid	300_Prep	
885-31189-13	SS25-27	Total/NA	Solid	300_Prep	
885-31189-14	SS25-28	Total/NA	Solid	300_Prep	
885-31189-15	SS25-29	Total/NA	Solid	300_Prep	
885-31189-16	SS25-30	Total/NA	Solid	300_Prep	
885-31189-17	SS25-31	Total/NA	Solid	300_Prep	
885-31189-18	SS25-32	Total/NA	Solid	300_Prep	
885-31189-19	SS25-33	Total/NA	Solid	300_Prep	
885-31189-20	SS25-34	Total/NA	Solid	300_Prep	
MB 885-32772/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-32772/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	

## Analysis Batch: 32775

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-3	SS25-17	Total/NA	Solid	300.0	32772
885-31189-4	SS25-18	Total/NA	Solid	300.0	32772
885-31189-7	SS25-21	Total/NA	Solid	300.0	32772
885-31189-9	SS25-23	Total/NA	Solid	300.0	32772
885-31189-10	SS25-24	Total/NA	Solid	300.0	32772
885-31189-11	SS25-25	Total/NA	Solid	300.0	32772
885-31189-12	SS25-26	Total/NA	Solid	300.0	32772
885-31189-13	SS25-27	Total/NA	Solid	300.0	32772
885-31189-14	SS25-28	Total/NA	Solid	300.0	32772
885-31189-15	SS25-29	Total/NA	Solid	300.0	32772
885-31189-16	SS25-30	Total/NA	Solid	300.0	32772
MB 885-32772/1-A	Method Blank	Total/NA	Solid	300.0	32772
MB 885-32811/1-A	Method Blank	Total/NA	Solid	300.0	32811
LCS 885-32772/2-A	Lab Control Sample	Total/NA	Solid	300.0	32772
LCS 885-32811/2-A	Lab Control Sample	Total/NA	Solid	300.0	32811

## Prep Batch: 32811

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-21	SS25-35	Total/NA	Solid	300_Prep	
885-31189-22	SS25-36	Total/NA	Solid	300_Prep	
885-31189-23	SS25-37	Total/NA	Solid	300_Prep	
885-31189-24	SS25-38	Total/NA	Solid	300_Prep	
885-31189-25	SS25-39	Total/NA	Solid	300_Prep	
885-31189-26	SS25-40	Total/NA	Solid	300_Prep	
885-31189-27	SS25-41	Total/NA	Solid	300_Prep	
885-31189-28	SS25-42	Total/NA	Solid	300_Prep	

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## QC Association Summary

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

## HPLC/IC (Continued)

## Prep Batch: 32811 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-29	SS25-43	Total/NA	Solid	300_Prep	
885-31189-30	SS25-44	Total/NA	Solid	300_Prep	
885-31189-31	SS25-45	Total/NA	Solid	300_Prep	
885-31189-32	SS25-46	Total/NA	Solid	300_Prep	
MB 885-32811/1-A	Method Blank	Total/NA	Solid	300_Prep	
LCS 885-32811/2-A	Lab Control Sample	Total/NA	Solid	300_Prep	
885-31189-21 MS	SS25-35	Total/NA	Solid	300_Prep	
885-31189-22 MS	SS25-36	Total/NA	Solid	300_Prep	
885-31189-22 MSD	SS25-36	Total/NA	Solid	300_Prep	

## Analysis Batch: 32890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
885-31189-1	SS25-15	Total/NA	Solid	300.0	32772
885-31189-2	SS25-16	Total/NA	Solid	300.0	32772
885-31189-5	SS25-19	Total/NA	Solid	300.0	32772
885-31189-6	SS25-20	Total/NA	Solid	300.0	32772
885-31189-8	SS25-22	Total/NA	Solid	300.0	32772
885-31189-17	SS25-31	Total/NA	Solid	300.0	32772
885-31189-18	SS25-32	Total/NA	Solid	300.0	32772
885-31189-19	SS25-33	Total/NA	Solid	300.0	32772
885-31189-20	SS25-34	Total/NA	Solid	300.0	32772
885-31189-21	SS25-35	Total/NA	Solid	300.0	32811
885-31189-22	SS25-36	Total/NA	Solid	300.0	32811
885-31189-23	SS25-37	Total/NA	Solid	300.0	32811
885-31189-24	SS25-38	Total/NA	Solid	300.0	32811
885-31189-25	SS25-39	Total/NA	Solid	300.0	32811
885-31189-26	SS25-40	Total/NA	Solid	300.0	32811
885-31189-27	SS25-41	Total/NA	Solid	300.0	32811
885-31189-28	SS25-42	Total/NA	Solid	300.0	32811
885-31189-29	SS25-43	Total/NA	Solid	300.0	32811
885-31189-30	SS25-44	Total/NA	Solid	300.0	32811
885-31189-31	SS25-45	Total/NA	Solid	300.0	32811
885-31189-32	SS25-46	Total/NA	Solid	300.0	32811
885-31189-21 MS	SS25-35	Total/NA	Solid	300.0	32811
885-31189-22 MS	SS25-36	Total/NA	Solid	300.0	32811
885-31189-22 MSD	SS25-36	Total/NA	Solid	300.0	32811

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## Lab Chronicle

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-15

Lab Sample ID: 885-31189-1

Date Collected: 08/14/25 10:00

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 13:59
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 13:59
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 21:23
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		50	32890	RC	EET ALB	08/21/25 13:07

Client Sample ID: SS25-16

Lab Sample ID: 885-31189-2

Date Collected: 08/14/25 10:10

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 15:10
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 15:10
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 22:00
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 13:17

Client Sample ID: SS25-17

Lab Sample ID: 885-31189-3

Date Collected: 08/14/25 10:20

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 16:22
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 16:22
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 22:12
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 09:40

Client Sample ID: SS25-18

Lab Sample ID: 885-31189-4

Date Collected: 08/14/25 10:30

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 16:46

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Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

Client Sample ID: SS25-18

Lab Sample ID: 885-31189-4

Date Collected: 08/14/25 10:30

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 16:46
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 22:25
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 09:50

Client Sample ID: SS25-19

Lab Sample ID: 885-31189-5

Date Collected: 08/14/25 10:40

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 17:10
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 17:10
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 22:38
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		50	32890	RC	EET ALB	08/21/25 13:26

Client Sample ID: SS25-20

Lab Sample ID: 885-31189-6

Date Collected: 08/14/25 10:50

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 17:34
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 17:34
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 22:50
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 13:36

Client Sample ID: SS25-21

Lab Sample ID: 885-31189-7

Date Collected: 08/14/25 11:00

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 17:58
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 17:58

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Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

**Client Sample ID: SS25-21**  
**Date Collected: 08/14/25 11:00**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-7**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 23:15
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 10:39

**Client Sample ID: SS25-22**  
**Date Collected: 08/14/25 11:10**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-8**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 18:22
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 18:22
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 23:27
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 13:46

**Client Sample ID: SS25-23**  
**Date Collected: 08/14/25 11:20**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-9**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 18:46
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 18:46
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 23:40
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 11:03

**Client Sample ID: SS25-24**  
**Date Collected: 08/14/25 11:30**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-10**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 19:10
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 19:10
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/22/25 23:53

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Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

Client Sample ID: SS25-24

Date Collected: 08/14/25 11:30

Date Received: 08/16/25 08:00

Lab Sample ID: 885-31189-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 11:13

Client Sample ID: SS25-25

Date Collected: 08/14/25 11:40

Date Received: 08/16/25 08:00

Lab Sample ID: 885-31189-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 19:58
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 19:58
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 00:05
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 11:23

Client Sample ID: SS25-26

Date Collected: 08/14/25 11:50

Date Received: 08/16/25 08:00

Lab Sample ID: 885-31189-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 20:22
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 20:22
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 00:18
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 11:33

Client Sample ID: SS25-27

Date Collected: 08/14/25 12:00

Date Received: 08/16/25 08:00

Lab Sample ID: 885-31189-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 20:45
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 20:45
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 00:30
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 13:52



Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

**Client Sample ID: SS25-28**  
**Date Collected: 08/14/25 12:10**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-14**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 21:09
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 21:09
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 00:43
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 14:02

**Client Sample ID: SS25-29**  
**Date Collected: 08/14/25 12:20**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-15**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 21:33
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 21:33
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 00:55
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 14:11

**Client Sample ID: SS25-30**  
**Date Collected: 08/14/25 12:30**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-16**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 21:56
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 21:56
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 01:07
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32775	RC	EET ALB	08/20/25 14:21

**Client Sample ID: SS25-31**  
**Date Collected: 08/14/25 12:40**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-17**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 22:20

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## Lab Chronicle

Client: Vertex

Job ID: 885-31189-1

Project/Site: North Pure Gold 8 Federal 11

Client Sample ID: SS25-31

Lab Sample ID: 885-31189-17

Date Collected: 08/14/25 12:40

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 22:20
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 01:20
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32890	RC	EET ALB	08/21/25 09:10

Client Sample ID: SS25-32

Lab Sample ID: 885-31189-18

Date Collected: 08/14/25 12:50

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 22:44
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 22:44
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 01:32
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32890	RC	EET ALB	08/21/25 09:20

Client Sample ID: SS25-33

Lab Sample ID: 885-31189-19

Date Collected: 08/14/25 13:00

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 23:07
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 23:07
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 01:45
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		10	32890	RC	EET ALB	08/21/25 09:30

Client Sample ID: SS25-34

Lab Sample ID: 885-31189-20

Date Collected: 08/14/25 13:10

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8015M/D		1	33008	JP	EET ALB	08/22/25 23:31
Total/NA	Prep	5030C			32712	KLS	EET ALB	08/19/25 10:30
Total/NA	Analysis	8021B		1	33009	JP	EET ALB	08/22/25 23:31

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Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

**Client Sample ID: SS25-34**  
**Date Collected: 08/14/25 13:10**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-20**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	SHAKE			32945	BZR	EET ALB	08/21/25 14:11
Total/NA	Analysis	8015M/D		1	32983	EM	EET ALB	08/23/25 01:57
Total/NA	Prep	300_Prep			32772	JT	EET ALB	08/20/25 06:12
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 09:40

**Client Sample ID: SS25-35**  
**Date Collected: 08/14/25 13:20**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-21**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 03:41
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 03:41
Total/NA	Prep	SHAKE			33172	DH	EET ALB	08/25/25 17:15
Total/NA	Analysis	8015M/D		1	33206	JE	EET ALB	08/26/25 17:43
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		50	32890	RC	EET ALB	08/21/25 09:50

**Client Sample ID: SS25-36**  
**Date Collected: 08/14/25 13:30**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-22**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 04:52
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 04:52
Total/NA	Prep	SHAKE			33172	DH	EET ALB	08/25/25 17:15
Total/NA	Analysis	8015M/D		1	33206	JE	EET ALB	08/26/25 17:55
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		10	32890	RC	EET ALB	08/21/25 10:19

**Client Sample ID: SS25-37**  
**Date Collected: 08/14/25 13:40**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-23**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 06:03
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 06:03
Total/NA	Prep	SHAKE			33172	DH	EET ALB	08/25/25 17:15
Total/NA	Analysis	8015M/D		1	33206	JE	EET ALB	08/26/25 18:06

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Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

**Client Sample ID: SS25-37**  
**Date Collected: 08/14/25 13:40**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-23**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 11:09

**Client Sample ID: SS25-38**  
**Date Collected: 08/14/25 13:50**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-24**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 06:26
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 06:26
Total/NA	Prep	SHAKE			33172	DH	EET ALB	08/25/25 17:15
Total/NA	Analysis	8015M/D		1	33206	JE	EET ALB	08/26/25 18:18
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 11:18

**Client Sample ID: SS25-39**  
**Date Collected: 08/14/25 14:00**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-25**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 07:13
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 07:13
Total/NA	Prep	SHAKE			33226	EM	EET ALB	08/26/25 11:26
Total/NA	Analysis	8015M/D		1	33194	EM	EET ALB	08/26/25 15:51
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 11:28

**Client Sample ID: SS25-40**  
**Date Collected: 08/14/25 14:10**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-26**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 07:37
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 07:37
Total/NA	Prep	SHAKE			33226	EM	EET ALB	08/26/25 11:26
Total/NA	Analysis	8015M/D		1	33194	EM	EET ALB	08/26/25 16:02
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 11:38

Eurofins Albuquerque



Lab Chronicle

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

**Client Sample ID: SS25-41**  
**Date Collected: 08/14/25 14:20**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-27**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 08:00
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 08:00
Total/NA	Prep	SHAKE			33226	EM	EET ALB	08/26/25 11:26
Total/NA	Analysis	8015M/D		1	33194	EM	EET ALB	08/26/25 16:13
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		10	32890	RC	EET ALB	08/21/25 11:48

**Client Sample ID: SS25-42**  
**Date Collected: 08/14/25 14:30**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-28**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 08:23
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 08:23
Total/NA	Prep	SHAKE			33226	EM	EET ALB	08/26/25 11:26
Total/NA	Analysis	8015M/D		1	33187	EM	EET ALB	08/26/25 15:55
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		10	32890	RC	EET ALB	08/21/25 11:58

**Client Sample ID: SS25-43**  
**Date Collected: 08/14/25 14:40**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-29**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 08:47
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 08:47
Total/NA	Prep	SHAKE			33226	EM	EET ALB	08/26/25 11:26
Total/NA	Analysis	8015M/D		1	33187	EM	EET ALB	08/26/25 16:07
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 12:08

**Client Sample ID: SS25-44**  
**Date Collected: 08/14/25 14:50**  
**Date Received: 08/16/25 08:00**

**Lab Sample ID: 885-31189-30**  
**Matrix: Solid**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 09:10

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Lab Chronicle

Client: Vertex

Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

Client Sample ID: SS25-44

Lab Sample ID: 885-31189-30

Date Collected: 08/14/25 14:50

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 09:10
Total/NA	Prep	SHAKE			33226	EM	EET ALB	08/26/25 11:26
Total/NA	Analysis	8015M/D		1	33187	EM	EET ALB	08/26/25 16:19
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 12:17

Client Sample ID: SS25-45

Lab Sample ID: 885-31189-31

Date Collected: 08/14/25 15:00

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 09:34
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 09:34
Total/NA	Prep	SHAKE			33226	EM	EET ALB	08/26/25 11:26
Total/NA	Analysis	8015M/D		1	33187	EM	EET ALB	08/26/25 16:32
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 12:27

Client Sample ID: SS25-46

Lab Sample ID: 885-31189-32

Date Collected: 08/14/25 15:10

Matrix: Solid

Date Received: 08/16/25 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Analyst	Lab	Prepared or Analyzed
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8015M/D		1	32967	JP	EET ALB	08/22/25 09:57
Total/NA	Prep	5030C			32757	KLS	EET ALB	08/19/25 16:18
Total/NA	Analysis	8021B		1	32966	JP	EET ALB	08/22/25 09:57
Total/NA	Prep	SHAKE			33226	EM	EET ALB	08/26/25 11:26
Total/NA	Analysis	8015M/D		5	33310	BZR	EET ALB	08/27/25 11:56
Total/NA	Prep	300_Prep			32811	ES	EET ALB	08/20/25 11:00
Total/NA	Analysis	300.0		20	32890	RC	EET ALB	08/21/25 12:37

Laboratory References:  
EET ALB = Eurofins Albuquerque, 4901 Hawkins NE, Albuquerque, NM 87109, TEL (505)345-3975



Accreditation/Certification Summary

Client: Vertex  
Project/Site: North Pure Gold 8 Federal 11

Job ID: 885-31189-1

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



## Chain-of-Custody Record

Client: Vertex (BILL TO DEVON)

Mailing Address: 3161 BOYD DR

CARLSBAD, NM, 88220

Phone #: 575-725-5001

email or Fax#:

QA/QC Package:

- ☐ Level 4 (Full Validation)

Accreditation: ☐ Az Compliance

☐ Other☐ EDD (Type)

Turn-Around Time:

5-DAY

☒ Rush

Project Name:
---------------

NORTH PURE GOLD FEDERAL 17

Project #:

25A-002278

Project Manager: SALLY CARTTAR  
KENT STALLINGS, SCARTTAR@  
KSTALLINGS@VERTEX.CA;vertex.ca

Sampler: KATRINATAYLOR

On Ice: ☒ Yes ☐ No *Abn*

# of Coolers: 1

Cooler Temp (including CF):  $0.10 - 0.2 = 0.4$  ( $^{\circ}\text{C}$ )Container  
Type and #Preservative  
Type

HEAL No.

## HALL ENVIRONMENTAL ANALYSIS LABOR

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

4901 Hawkins NE - Albuquerque, NM 87109

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

885-31189 COC



## Analysis Request

[illegible]

Date	Time	Relinquished by
8/14	930	Katrina Taylor

Received by	Via	Date	Time
<i>ACM</i>		8/15/25	930

Date	Time	Relinquished by.
8/16/25	1900	[Signature]

Received by	Via <i>curryw</i>	Date	Time
		<i>8/16/28</i>	<i>8-a</i>

Remarks: Cost Code: 1007079101, Bill to Devon  
ATTN: JIM.RALEY@DYN.COM  
CC: KSTALLINGS@VERTEX.CA, SCARTTAR@VERTEX.CA  
KATRINA.TAYLOR@VERTEX.CA











## Login Sample Receipt Checklist

Client: Vertex

Job Number: 885-31189-1

Login Number: 31189

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.	True	
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	



Report to:  
Sally Carttar



# envirotech

*Practical Solutions for a Better Tomorrow*

## Analytical Report

Vertex Resource Services Inc.

Project Name: North Pure Gold 8 Fed 11

Work Order: E509004

Job Number: 01058-0007

Received: 9/3/2025

Revision: 1

Report Reviewed By:

Walter Hinchman  
Laboratory Director  
9/4/25

5796 U.S. Hwy 64  
Farmington, NM 87401

Phone: (505) 632-1881  
Envirotech-inc.com



Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.  
Statement of Data Authenticity: Envirotech Inc. attests the data reported has not been altered in any way.  
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.  
Envirotech Inc. holds the Utah TNI certification NM00979 for data reported.  
Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.



Date Reported: 9/4/25

Sally Carttar  
3101 Boyd Drive  
Carlsbad, NM 88220



Project Name: North Pure Gold 8 Fed 11  
Workorder: E509004  
Date Received: 9/3/2025 7:30:20AM

Sally Carttar,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 9/3/2025 7:30:20AM, under the Project Name: North Pure Gold 8 Fed 11.

The analytical test results summarized in this report with the Project Name: North Pure Gold 8 Fed 11 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

**Walter Hinchman**  
Laboratory Director  
Office: 505-632-1881  
Cell: 775-287-1762  
[whinchman@envirotech-inc.com](mailto:whinchman@envirotech-inc.com)

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Envirotech Web Address: [www.envirotech-inc.com](http://www.envirotech-inc.com)



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Sample Summary

Vertex Resource Services Inc.	Project Name:	North Pure Gold 8 Fed 11	Reported:
3101 Boyd Drive	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Sally Carttar	09/04/25 14:45

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
Backfill	E509004-01A	Soil	08/31/25	09/03/25	Glass Jar, 2 oz.





## Sample Data

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

Project Name: North Pure Gold 8 Fed 11  
Project Number: 01058-0007  
Project Manager: Sally Carttar

**Reported:**  
9/4/2025 2:45:20PM

### Backfill

**E509004-01**

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
<b>Volatile Organics by EPA 8021B</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2536029	
Benzene	ND	0.0250	1	09/03/25	09/03/25	
Ethylbenzene	ND	0.0250	1	09/03/25	09/03/25	
Toluene	ND	0.0250	1	09/03/25	09/03/25	
o-Xylene	ND	0.0250	1	09/03/25	09/03/25	
p,m-Xylene	ND	0.0500	1	09/03/25	09/03/25	
Total Xylenes	ND	0.0250	1	09/03/25	09/03/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		93.0 %	70-130	09/03/25	09/03/25	
<b>Nonhalogenated Organics by EPA 8015D - GRO</b>	mg/kg	mg/kg	Analyst: SL		Batch: 2536029	
Gasoline Range Organics (C6-C10)	ND	20.0	1	09/03/25	09/03/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		106 %	70-130	09/03/25	09/03/25	
<b>Nonhalogenated Organics by EPA 8015D - DRO/ORO</b>	mg/kg	mg/kg	Analyst: KH		Batch: 2536030	
Diesel Range Organics (C10-C28)	ND	25.0	1	09/03/25	09/03/25	
Oil Range Organics (C28-C36)	ND	50.0	1	09/03/25	09/03/25	
<i>Surrogate: n-Nonane</i>		93.5 %	61-141	09/03/25	09/03/25	
<b>Anions by EPA 300.0/9056A</b>	mg/kg	mg/kg	Analyst: IY		Batch: 2536031	
Chloride	275	20.0	1	09/03/25	09/03/25	





## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: North Pure Gold 8 Fed 11 Project Number: 01058-0007 Project Manager: Sally Carttar	Reported: 9/4/2025 2:45:20PM
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## Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2536029-BLK1)

Prepared: 09/03/25 Analyzed: 09/03/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.65		8.00		95.6	70-130			

## LCS (2536029-BS1)

Prepared: 09/03/25 Analyzed: 09/03/25

Benzene	4.29	0.0250	5.00		85.7	70-130			
Ethylbenzene	4.36	0.0250	5.00		87.2	70-130			
Toluene	4.35	0.0250	5.00		87.1	70-130			
o-Xylene	4.37	0.0250	5.00		87.5	70-130			
p,m-Xylene	8.85	0.0500	10.0		88.5	70-130			
Total Xylenes	13.2	0.0250	15.0		88.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.69		8.00		96.1	70-130			

## Matrix Spike (2536029-MS1)

Source: E509008-02

Prepared: 09/03/25 Analyzed: 09/03/25

Benzene	4.45	0.0250	5.00	ND	89.0	70-130			
Ethylbenzene	4.52	0.0250	5.00	ND	90.5	70-130			
Toluene	4.53	0.0250	5.00	ND	90.6	70-130			
o-Xylene	4.57	0.0250	5.00	ND	91.4	70-130			
p,m-Xylene	9.20	0.0500	10.0	ND	92.0	70-130			
Total Xylenes	13.8	0.0250	15.0	ND	91.8	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.82		8.00		97.8	70-130			

## Matrix Spike Dup (2536029-MSD1)

Source: E509008-02

Prepared: 09/03/25 Analyzed: 09/03/25

Benzene	4.19	0.0250	5.00	ND	83.9	70-130	5.97	27	
Ethylbenzene	4.28	0.0250	5.00	ND	85.6	70-130	5.55	26	
Toluene	4.28	0.0250	5.00	ND	85.5	70-130	5.76	20	
o-Xylene	4.34	0.0250	5.00	ND	86.8	70-130	5.12	25	
p,m-Xylene	8.72	0.0500	10.0	ND	87.2	70-130	5.38	23	
Total Xylenes	13.1	0.0250	15.0	ND	87.1	70-130	5.30	26	
Surrogate: 4-Bromochlorobenzene-PID	7.73		8.00		96.6	70-130			





QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: North Pure Gold 8 Fed 11 Project Number: 01058-0007 Project Manager: Sally Carttar	Reported:  9/4/2025 2:45:20PM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2536029-BLK1) Prepared: 09/03/25 Analyzed: 09/03/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.73		8.00		109	70-130			

LCS (2536029-BS2) Prepared: 09/03/25 Analyzed: 09/03/25

Gasoline Range Organics (C6-C10)	54.8	20.0	50.0		110	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.65		8.00		108	70-130			

Matrix Spike (2536029-MS2) Source: E509008-02 Prepared: 09/03/25 Analyzed: 09/03/25

Gasoline Range Organics (C6-C10)	47.1	20.0	50.0	ND	94.1	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.38		8.00		105	70-130			

Matrix Spike Dup (2536029-MSD2) Source: E509008-02 Prepared: 09/03/25 Analyzed: 09/03/25

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.0	70-130	10.2	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	8.46		8.00		106	70-130			





## QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: North Pure Gold 8 Fed 11 Project Number: 01058-0007 Project Manager: Sally Carttar	Reported: 9/4/2025 2:45:20PM
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## Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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## Blank (2536030-BLK1)

Prepared: 09/03/25 Analyzed: 09/03/25

Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	46.1		50.0		92.3	61-141			

## LCS (2536030-BS1)

Prepared: 09/03/25 Analyzed: 09/03/25

Diesel Range Organics (C10-C28)	221	25.0	250		88.3	66-144			
Surrogate: n-Nonane	46.2		50.0		92.4	61-141			

## Matrix Spike (2536030-MS1)

Source: E509004-01

Prepared: 09/03/25 Analyzed: 09/03/25

Diesel Range Organics (C10-C28)	242	25.0	250	ND	96.9	56-156			
Surrogate: n-Nonane	48.0		50.0		96.1	61-141			

## Matrix Spike Dup (2536030-MSD1)

Source: E509004-01

Prepared: 09/03/25 Analyzed: 09/03/25

Diesel Range Organics (C10-C28)	248	25.0	250	ND	99.1	56-156	2.27	20	
Surrogate: n-Nonane	48.0		50.0		96.0	61-141			





QC Summary Data

Vertex Resource Services Inc. 3101 Boyd Drive Carlsbad NM, 88220	Project Name: North Pure Gold 8 Fed 11 Project Number: 01058-0007 Project Manager: Sally Carttar	Reported:  9/4/2025 2:45:20PM
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Anions by EPA 300.0/9056A

Analyst: IY

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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<b>Blank (2536031-BLK1)</b>					Prepared: 09/03/25 Analyzed: 09/03/25				
Chloride	ND	20.0							
<b>LCS (2536031-BS1)</b>					Prepared: 09/03/25 Analyzed: 09/03/25				
Chloride	255	20.0	250		102	90-110			
<b>Matrix Spike (2536031-MS1)</b>					<b>Source: E509004-01</b>		Prepared: 09/03/25 Analyzed: 09/03/25		
Chloride	523	20.0	250	275	99.4	80-120			
<b>Matrix Spike Dup (2536031-MSD1)</b>					<b>Source: E509004-01</b>		Prepared: 09/03/25 Analyzed: 09/03/25		
Chloride	505	20.0	250	275	92.1	80-120	3.52	20	

QC Summary Report Comment:  
Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures.  
Therefore, hand calculated values may differ slightly.





Definitions and Notes

Vertex Resource Services Inc.	Project Name:	North Pure Gold 8 Fed 11	
3101 Boyd Drive	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Sally Carttar	09/04/25 14:45

- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- DNI Did Not Ignite
- DNR Did not react with the addition of acid or base.

Note (1): Methods marked with \*\* are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.









## Envirotech Analytical Laboratory

Printed: 9/3/2025 8:00:04AM

## Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Vertex Resource Services Inc.	Date Received:	09/03/25 07:30	Work Order ID:	E509004
Phone:	(575) 748-0176	Date Logged In:	09/02/25 13:39	Logged In By:	Caitlin Mars
Email:	scarttar@vertex.ca	Due Date:	09/04/25 07:00 (0 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? No
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/Resolution

Time sampled not provided on COC.

Sample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the sample(s) received intact, i.e., not broken? Yes
10. Were custody/security seals present? No
11. If yes, were custody/security seals intact? NA
12. Was the sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC samples collected in VOA Vials? NA
16. Is the head space less than 6-8 mm (pea sized or less)? NA
17. Was a trip blank (TB) included for VOC analyses? NA
18. Are non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
  - Sample ID? Yes
  - Date/Time Collected? Yes
  - Collectors name? No

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

Signature of client authorizing changes to the COC or sample disposition.

Date



envirotech Inc.



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 503687

**QUESTIONS**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 503687
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Prerequisites</b>	
Incident ID (n#)	nAPP2106151044
Incident Name	NAPP2106151044 NORTH PURE GOLD 8 FED #11 SWD @ 30-015-32619
Incident Type	Produced Water Release
Incident Status	Remediation Closure Report Received
Incident Well	[30-015-32619] NORTH PURE GOLD 8 FEDERAL #011

**Location of Release Source**

Please answer all the questions in this group.

Site Name	NORTH PURE GOLD 8 FED #11 SWD
Date Release Discovered	02/21/2021
Surface Owner	Federal

**Incident Details**

Please answer all the questions in this group.

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

**Nature and Volume of Release**

Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Other   Other (Specify)   Produced Water   Released: 6 BBL   Recovered: 5 BBL   Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
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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Phone: (505) 476-3441

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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, Page 2

Action 503687

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 503687
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

<b>Nature and Volume of Release (continued)</b>	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
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	False
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	Spill was not in containment.

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 Title: Business Manager Email: rkidd@buckhornproduction.com Date: 09/08/2025
--	---



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Phone: (505) 476-3441

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

QUESTIONS, Page 3

Action 503687

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 503687
	Action Type: [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 ½ and 1 (mi.)
Any other fresh water well or spring	Between ½ and 1 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	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)	16600
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	3490
GRO+DRO (EPA SW-846 Method 8015M)	890
BTEX (EPA SW-846 Method 8021B or 8260B)	0
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	05/12/2025
On what date will (or did) the final sampling or liner inspection occur	07/14/2025
On what date will (or was) the remediation complete(d)	07/14/2025
What is the estimated surface area (in square feet) that will be reclaimed	36918
What is the estimated volume (in cubic yards) that will be reclaimed	6300
What is the estimated surface area (in square feet) that will be remediated	198
What is the estimated volume (in cubic yards) that will be remediated	22
<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 503687

**QUESTIONS (continued)**

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	Action Number: 503687
	Action Type: [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	fJEG1635837366 OWL LANDFILL JAL
<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	No
<b>OR</b> is the <b>off-site</b> disposal site, to be used, an NMED facility	No
(Ex Situ) Excavation and <b>on-site</b> remediation (i.e. On-Site Land Farms)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
OTHER (Non-listed remedial process)	No
<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 Title: Business Manager Email: rkidd@buckhornproduction.com Date: 09/08/2025
<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 503687

QUESTIONS (continued)

Operator:  HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID:  10155
	Action Number:  503687
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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



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Action 503687

**QUESTIONS (continued)**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 503687
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**QUESTIONS**

Sampling Event Information	
Last sampling notification (C-141N) recorded	495446
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	08/15/2025
What was the (estimated) number of samples that were to be gathered	53
What was the sampling surface area in square feet	21283

**Remediation Closure Request**

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

Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	196
What was the total volume (cubic yards) remediated	22
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	196
What was the total volume (in cubic yards) reclaimed	22
Summarize any additional remediation activities not included by answers (above)	As detailed in attached report

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

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

I hereby agree and sign off to the above statement	Name: Roni Kidd Title: Business Manager Email: rkidd@buckhornproduction.com Date: 09/08/2025
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Action 503687

QUESTIONS (continued)

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	Action Number:  503687
	Action Type:  [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

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



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CONDITIONS

Action 503687

**CONDITIONS**

Operator: HARVARD PETROLEUM COMPANY, LLC P.O. Box 936 Roswell, NM 88202	OGRID: 10155
	Action Number: 503687
	Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)

**CONDITIONS**

Created By	Condition	Condition Date
michael.buchanan	Remediation closure is approved.	9/11/2025
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.	9/11/2025
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.	9/11/2025
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.	9/11/2025
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.	9/11/2025
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.	9/11/2025