



CLOSURE REPORT

Property:

Pure Gold A Fed. 14

**Eddy County, New Mexico
32.2958488 N, 103.787121 W
NMOCD Incident ID: nAB1717951624
RP No.: 2RP-4262
API No.: 30-015-35307**

July 12, 2022
Ensolum Project No. 03B1417030

Prepared for:

**Oxy USA Inc.
P.O. Box 4294
Houston, TX 77210
Attn: Mr. Wade Dittrich**

Prepared by:

Beaux Jennings
Senior Project Manager

Heather Holthaus
Senior Project Manager



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CLOSURE REPORT

Pure Gold A Fed. 14

Eddy County, New Mexico
32.2958488 N, 103.787121 W
NMOCD Incident ID: nAP1717951624
RP No.: 2RP-4262
API No.: 30-015-35307

Ensolum Project No. 03B1417030

1.0 INTRODUCTION

1.1 Executive Summary

- On June 26, 2017, a release of crude oil and produced water was reported from a 3-inch poly production flow line failure at the Pure Gold A Fed. 14, hereinafter referred to as the "Site". Approximately two (2) barrels (bbls) of crude oil and 10 bbls of produced water were released to the ground surface affecting an area approximately three (3) feet by 300 feet. The line was repaired and a *Delineation Workplan*, dated July 2017, was prepared by BBC International Inc. (BBC) on behalf of Oxy USA Inc. (Oxy). The workplan stated that the release area would be excavated to a depth of one (1) to four (4) feet. In April 2022, Tex-Mex Rentals & Service LLC (Tex-Mex) began excavating the release area with a backhoe, a hydrovac excavator and hand digging. The excavated soils were taken off-Site for proper disposal.
- On May 6, 2022, Ensolum, LLC (Ensolum) arrived on-Site and collected seven (7) composite soil samples from the excavation floor (FS-1 through FS-7) at depths ranging from 0.5 to four (4) feet below ground surface (bgs). In addition, Ensolum collected six (6) composite soil samples from the excavation sidewalls (SW-1 through SW-6) at depths ranging from 0-1 to 0-4 feet bgs. Based on laboratory analytical data, further excavation was required at floor sample locations FS-4 and FS-5 and side wall sample locations SW-1, SW-3 and SW-5.
- On May 19, 2022, subsequent to additional excavation based on laboratory analytical data, Ensolum arrived on-Site and collected two (2) additional composite soil samples from the excavation floor (FS-4 and FS-5) at depths from five (5) and 6.5 feet bgs, and three (3) additional composite soil samples from the excavation sidewalls (SW-1, SW-3 and SW-5) at depths ranging from 0-1 to 0-5 feet bgs.
- The primary objective of the closure activities was to reduce chemical of concern (COC) concentrations in the on-Site soils to below the applicable New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD) Closure Criteria for Soils Impacted by a Release using the New Mexico EMNRD OCD's NMAC 19.15.29 *Releases* as guidance.
- The final excavation area measured approximately 300 feet long and three (3) to 25 feet wide at the maximum extents. The excavation depth ranged from one (1) foot bgs in the areas of FS-6 and FS-7, 1.5 foot bgs in the areas of FS-1 and FS-2, four (4) feet bgs in the area of FS-3, and 5-6.5 feet bgs in the areas of FS-4 and FS-5.

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- A total of nine (9) composite soil samples from seven (7) locations from the excavation floor (FS-1 through FS-7), and nine (9) composite soil samples from six (6) locations from the excavation sidewalls (SW-1 through SW-6) were collected.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation floor and sidewalls did not exhibit benzene, total benzene, toluene, ethylbenzene, and xylene (BTEX), total petroleum hydrocarbons (TPH), gasoline range organics (GRO), diesel range organics (DRO) and/or motor oil range organics (MRO) or chloride concentrations above the applicable NMOCDC Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

1.2 Site Description & Background

Operator:	Oxy USA Inc. (Oxy)
Site Name:	Pure Gold A Fed 14
Location:	32.2958488 N, 103.787121 W Eddy County, New Mexico
Property:	Bureau of Land Management (BLM)
Regulatory:	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On June 26, 2017, a release of crude oil and produced water was reported from a 3-inch poly production flow line failure. Approximately two (2) bbls of crude oil and 10 bbls of produced water were released to the ground surface affecting an area approximately three (3) feet by 300 feet.

The Topographic Map depicting the location of the Site is included as **Figure 1**, the Site Vicinity Map is included as **Figure 2**, the Site Map indicating the locations of composite soil samples is included as **Figure 3**, and the Closure Criteria Map is included as **Figure 4** in **Appendix A**.

1.3 Project Objective

The primary objective of the closure activities was to reduce COC concentrations in the on-Site soils to below the applicable New Mexico EMNRD OCD closure criteria concentrations.

2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. In order to address activities related to exempt oil and gas releases, the New Mexico EMNRD OCD references NMAC 19.15.29 *Releases*, which establishes investigation and abatement action requirements for sites subject to reporting and/or corrective action. Ensolum utilized information provided by Oxy, the general site characteristics, and information available from the New Mexico Office of the State Engineer (OSE) and the New Mexico EMNRD OCD Imaging database to determine the appropriate closure criteria for the Site.

- The Site is not located within 300 feet of a New Mexico ENMRD OCD-defined continuously flowing watercourse or any other significant watercourse.

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- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet from an occupied permanent residence, school, hospital, institution, or church.
- According to the OSE WRSS database there are no private, domestic freshwater wells used by less than five (5) households for domestic or stock water purposes identified within 500 feet of the Site.
- According to the OSE WRSS database there are no freshwater wells identified within 1,000 feet of the Site as declared in the previous bullet.
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3.
- The Site is not located within 300 feet of a wetland.
- Based on information identified on the New Mexico Mining and Minerals Division's GIS, Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine.
- Based on the Karst Occurrence Potential (.kmz) provided by the BLM, the Site is not located within an unstable area, also referred to as low karst.
- The Site is noted to be located within an area of minimal flood hazard.

Based on the identified siting criteria, cleanup goals for soils remaining in place at the Site include:

Closure Criteria for Soils Impacted by a Release			
Minimum depth below any point within horizontal boundary of the release to groundwater less than 10,000 mg/l TDS	Constituent	Method	Limit
≤50 feet	Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	100 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

3.0 SOIL REMEDIATION ACTIVITIES

On June 26, 2017, a release of crude oil and produced water was reported from a 3-inch poly production flow line failure. Approximately two (2) bbls of crude oil and 10 bbls of produced water were released to the ground surface affecting an area approximately three (3) feet by 300 feet. The line was repaired and a *Delineation Workplan*, dated July 2017, was prepared by BBC International Inc. (BBC) on behalf of Oxy. The workplan stated that the release area would be excavated to a depth of one (1) to four (4) feet.

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In April 2022, Oxy began excavating the release area with a backhoe and a hydrovac excavator. The excavated soils were taken off-Site for proper disposal. On March 24, 2022, Ensolum was contacted by Oxy with the purpose of sampling the area of the release to determine if further excavation was required.

On May 6, 2022, Ensolum arrived on-Site and collected seven (7) composite soil samples from the excavation floor (FS-1 through FS-7) at depths ranging from 0.5 to four (4) feet bgs. In addition, Ensolum collected six (6) composite soil samples from the excavation sidewalls (SW-1 through SW-6) at depths ranging from 0-1 to 0-4 feet bgs. Based on laboratory analytical data, further excavation was required at floor sample locations FS-4 and FS-5 and at side wall sample locations SW-1, SW-3 and SW-5.

On May 19, 2022, subsequent to additional excavation based on laboratory analytical data, Ensolum arrived on-Site and collected two (2) additional composite soil samples from the excavation floor (FS-4 and FS-5) at depths ranging from five (5) to 6.5 feet bgs, and three (3) additional composite soil samples from the excavation sidewalls (SW-1, SW-3 and SW-5) at depths ranging from 0-1 to 0-5 feet bgs.

The composite soil samples were analyzed for BTEX, TPH and chloride in accordance with NMOCD Closure Criteria for Soils Impacted by a Release (NMOCD Closure Criteria).

The final excavation area measured approximately 300 feet long and three (3) to 25 feet wide at the maximum extents. The excavation depth ranged from one (1) foot bgs in the areas of FS-6 and FS-7, 1.5 foot bgs in the areas of FS-1 and FS-2, four (4) feet bgs in the area of FS-3, and 5-6.5 feet bgs in the areas of FS-4 and FS-5. The excavated impacted soils were removed and taken off-Site for proper disposal.

The lithology encountered during the completion of sampling activities consisted primarily of a poorly graded very fine brown sand.

Figure 3 identifies approximate composite soil sample locations and approximate dimensions of the impacted area with respect to the Site (**Appendix A**). Photographic documentation of the field activities is included in **Appendix C**.

4.0 SOIL SAMPLING PROGRAM

Ensolum's composite soil sampling program included the collection of nine (9) composite soil samples from seven (7) locations from the excavation floor (FS-1 through FS-7), and nine (9) composite soil samples from six (6) locations from the excavation sidewalls (SW-1 through SW-6).

The composite soil samples were collected and placed in laboratory prepared glassware, labeled/sealed using laboratory supplied labels and custody seals, and stored on ice in a cooler. The samples were relinquished to Cardinal Laboratories in Hobbs, New Mexico for an expedited laboratory analysis.

5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for BTEX utilizing Environmental Protection Agency (EPA) SW-846 Method 8021B, TPH GRO/DRO/MRO utilizing EPA SW-846 Method 8015M, and chloride utilizing EPA Method 4500-Cl B.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**. The executed chain-of-custody forms and laboratory analytical reports are provided in **Appendix E**.

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6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH GRO/DRO/MRO, and chloride concentrations associated with the composite soil samples collected from the excavation floor and sidewalls (FS-1 through FS-7, and SW-1 through SW-6) to the applicable NMOCD Closure Criteria.

- Laboratory analytical results indicate benzene concentrations for the composite soil samples are below the laboratory sample detection limits (SDLs), which are below the applicable NMOCD Closure Criteria of 10 milligrams per kilogram (mg/kg).
- Laboratory analytical results indicate that total BTEX concentrations for the composite soil samples are below the laboratory SDLs, which are below the applicable NMOCD Closure Criteria of 50 mg/kg.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the composite soil samples collected from the excavation floor and sidewalls (FS-4 at 4, FS-5 at 4, SW-1 at 0-1, SW-3 at 1-1.5 and SW-5 at 0-4) exhibited concentrations ranging from 241 mg/kg to 2,379 mg/kg, which exceed the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet. The soils in these locations were subsequently removed and taken off-Site for proper disposal.
- Laboratory analytical results indicate combined TPH GRO/DRO/MRO concentrations for the final composite soil samples are below the laboratory SDLs and/or the applicable NMOCD Closure Criteria of 100 mg/kg from ≤50 feet.
- Laboratory analytical results indicate chloride concentrations for the composite soil samples exhibited chloride concentrations ranging from below the laboratory SDLs to 144 mg/kg, which are below the applicable NMOCD Closure Criteria of 600 mg/kg from ≤50 feet.

Laboratory analytical results are summarized in **Table 1** in **Appendix D**.

7.0 RECLAMATION AND RE-VEGETATION

Subsequent to the results of the final confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal. The excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade. Once the area was brought back to original grade, a BLM approved seed mixture was sown into the surface area of the backfill for re-vegetation.

8.0 FINDINGS AND RECOMMENDATION

- On June 26, 2017, a release of crude oil and produced water was reported from a 3-inch poly production flow line failure at the Pure Gold A Fed. 14, hereinafter referred to as the "Site". Approximately two (2) bbls of crude oil and 10 bbls of produced water were released to the ground surface affecting an area approximately three (3) feet by 300 feet. The line was repaired and a *Delineation Workplan*, dated July 2017, was prepared by BBC on behalf of Oxy. The workplan stated that the release area would be excavated to a depth of one (1) to four (4) feet. In April 2022, Tex-Mex began excavating the release area with a backhoe, a hydrovac excavator and hand digging. The excavated soils were taken off-Site for proper disposal.

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- A total of nine (9) composite soil samples from seven (7) locations from the excavation floor (FS-1 through FS-7), and nine (9) composite soil samples from six (6) locations from the excavation sidewalls (SW-1 through SW-6) were collected.
- Based on the laboratory analytical results, the final composite soil samples collected from the excavation floor and sidewalls did not exhibit benzene, total BTEX, TPH GRO/DRO/MRO or chloride concentrations above the applicable NMOCD Closure Criteria. Subsequent to the results of the confirmation soil sampling, the identified impacted soils were removed and taken off-Site for proper disposal and the excavated area was backfilled with clean fill material, and then contoured to the original surrounding grade.

Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.

9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE

9.1 Standard of Care

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties). This scope of services was performed in accordance with the scope of work agreed with the client, as detailed in our proposal.

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9.2 Limitations

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-Site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings, and recommendations are based solely upon data available to Ensolum at the time of these services.

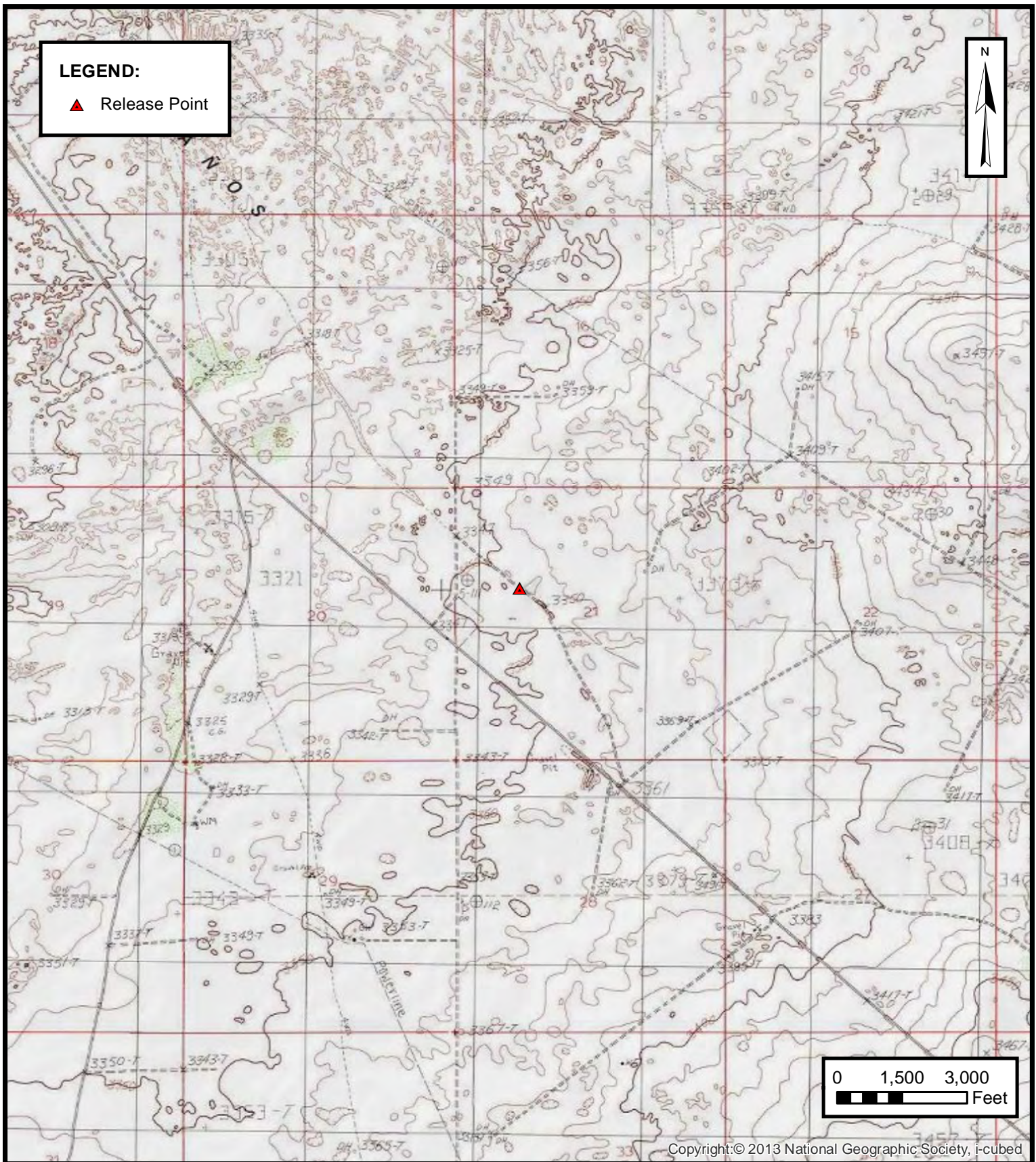
9.3 Reliance

This report has been prepared for the exclusive use of Oxy USA, Inc., and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization Oxy USA, Inc. and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the Closure Report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



APPENDIX A

Figures



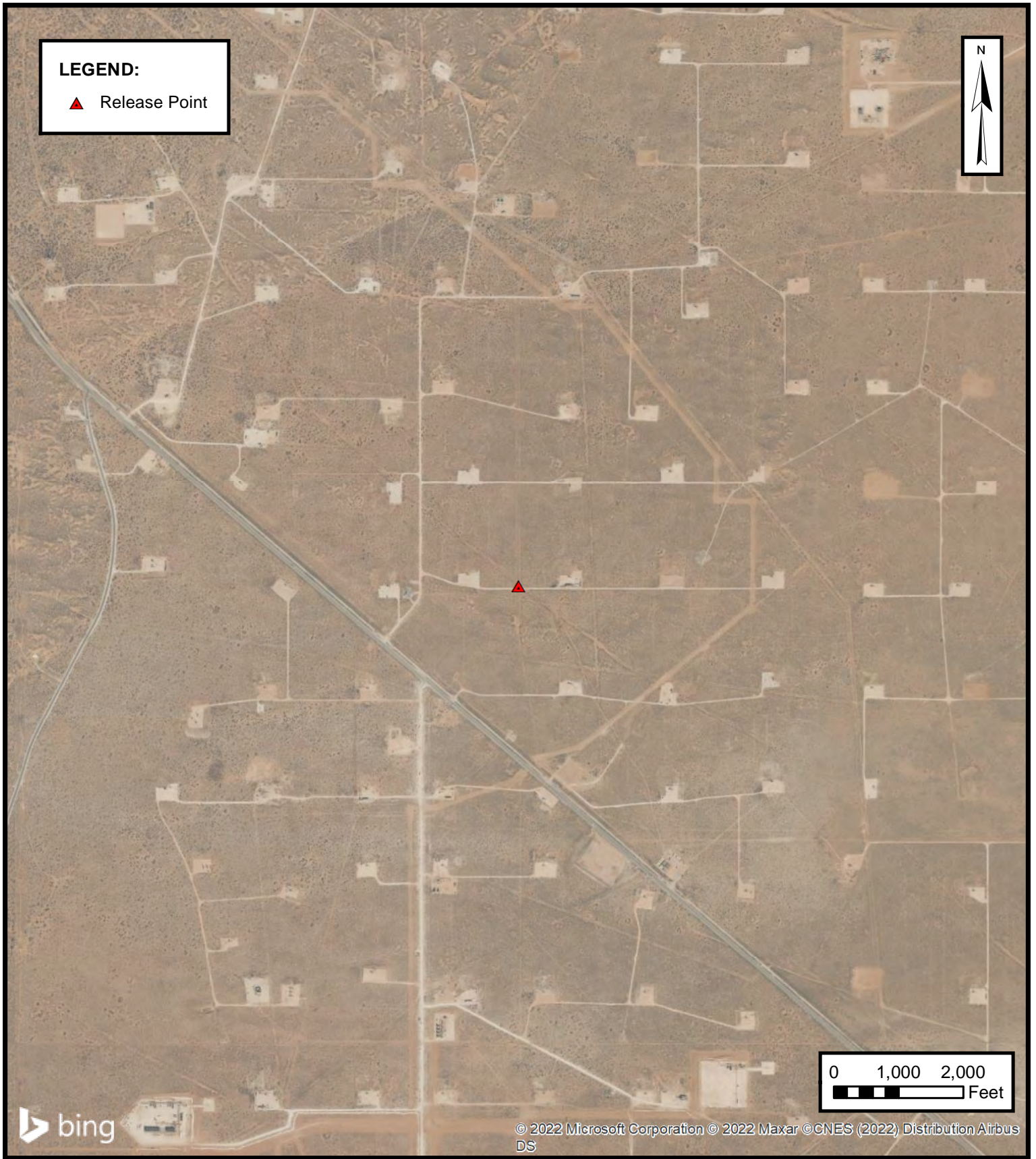
ENSOLUM
Environmental & Hydrogeologic Consultants

TOPOGRAPHIC MAP

OXY USA INC.
PURE GOLD A FEDERAL #14
Eddy County, New Mexico
32.2958488° N, 103.787121° W

PROJECT NUMBER: 03B1417030

FIGURE
1



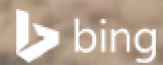
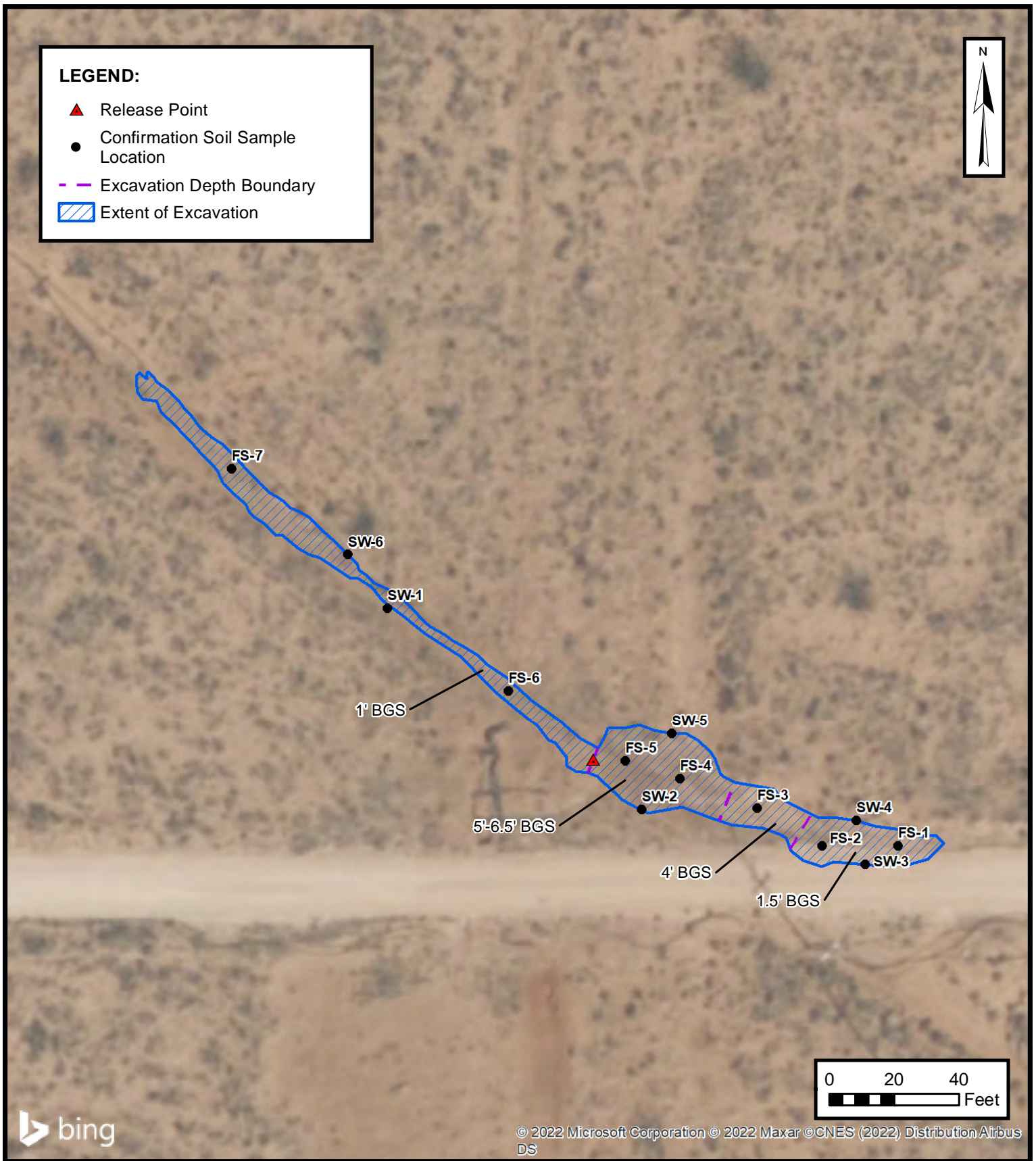
SITE VICINITY MAP

OXY USA INC.
PURE GOLD A FEDERAL #14
Eddy County, New Mexico
32.2958488° N, 103.787121° W

PROJECT NUMBER: 03B1417030

FIGURE

2



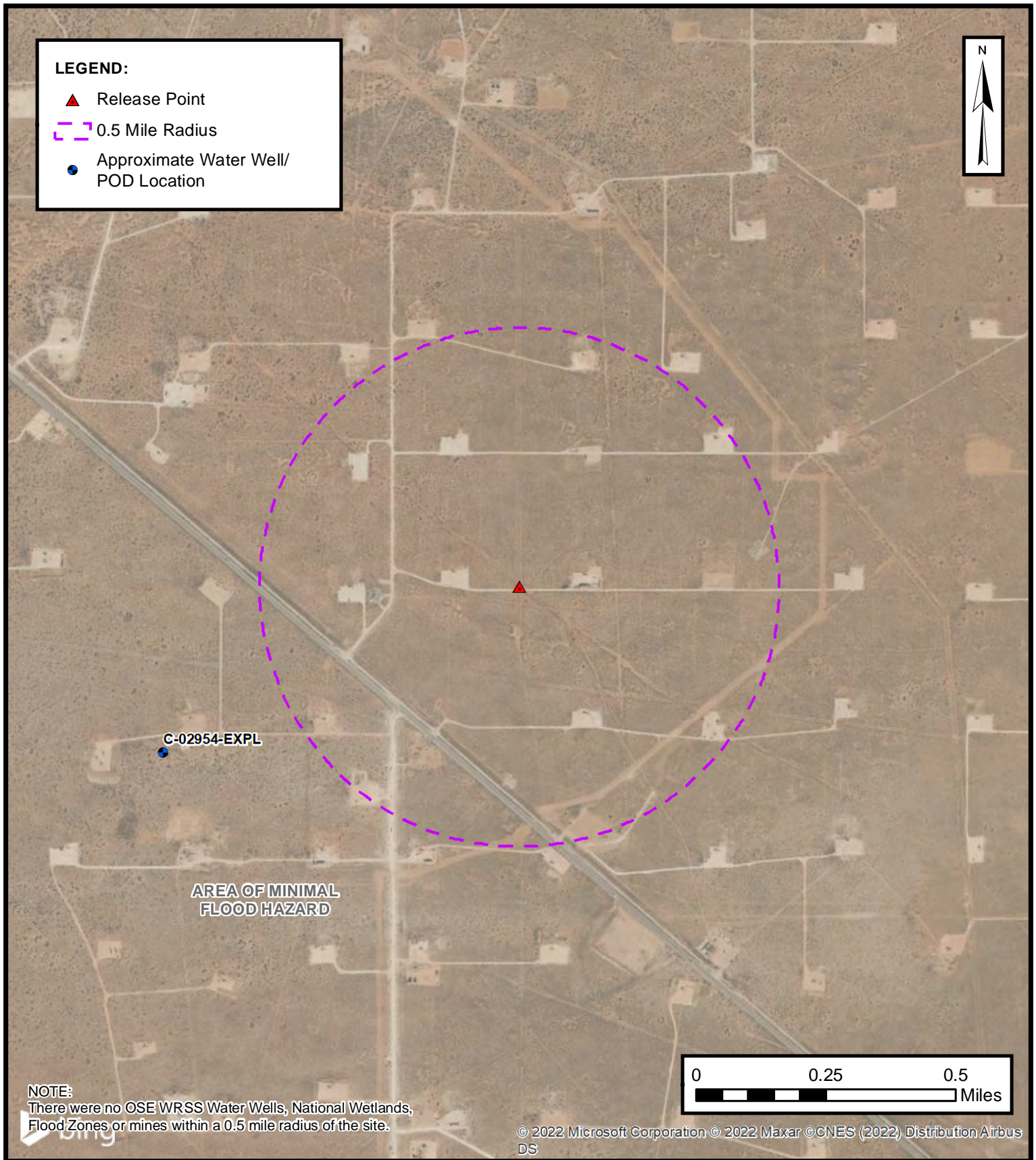
SITE MAP

OXY USA INC.
 PURE GOLD A FEDERAL #14
 Eddy County, New Mexico
 32.2958488° N, 103.787121° W

PROJECT NUMBER: 03B1417030

FIGURE

3

**CLOSURE CRITERIA MAP**

OXY USA INC.
PURE GOLD A FEDERAL #14
Eddy County, New Mexico
32.2958488° N, 103.787121° W

PROJECT NUMBER: 03B1417030

FIGURE**4****ENSOLUM**

Environmental & Hydrogeologic Consultants



APPENDIX B

Supporting Documentation

Beaux Jennings

From: Morgan, Crisha A <camorgan@blm.gov>
Sent: Wednesday, April 6, 2022 5:25 PM
To: Beaux Jennings; CFO_Spill, BLM_NM
Subject: Re: [EXTERNAL] Pure Gold A Fed. #14 (RP No. 2RP-4262)
Attachments: Seed_Mixture_LPC_HEA.doc

My Environmental review is as follows for this OXY USA Inc Release:

This release is from 06/23/2017 2bbls oil & 10 bbls produced water @ 32.2958488,-103.7806396

No Cave/Karst

BLM Surface/ BLM Minerals

This release is within the Secretary Potash Area Boundary

This is in Lesser Prairie Chicken Habitat

No Archeological survey will be needed for this release as it falls under a previously surveyed space.

The reclamation of this area will require BLM Seed Mixture for LPC-HEA (I have attached this information above)

Please consider this BLM's approval to begin remediation and clean-up for this release.

Please keep the BLM updated if any problems prevent remediation for the site. If you have any questions or concerns, please let me know.

Thank you,

Crisha A. Morgan | Certified - Environmental Protection Specialist | Program Officer | COR | Spills Coordinator | Orphaned Well POC Lead
Bureau of Land Management | Carlsbad Field Office
620 E. Greene Street Carlsbad, NM 88220
Cell 575-200-8648 | Office 575-234-5987 | camorgan@blm.gov



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From: Beaux Jennings <bjenning@ensolum.com>
Sent: Wednesday, April 6, 2022 3:23 PM
To: Morgan, Crisha A <camorgan@blm.gov>
Subject: [EXTERNAL] Pure Gold A Fed. #14 (RP No. 2RP-4262)

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Ms. Morgan,

We are looking to start another excavation in the next week or two, but wanted to get with you and have approval prior to any work being conducted. This site is Pure Gold A Fed. #14 (RP No. 2RP-4262) in a right-of-way located at 32.292046, -103.787584. I've attached a kmz for your reference as well. What all do you need from us for approved access to the site? Thank you again for your help!



Beaux Jennings

Senior Project Manager

210-219-8858

Ensolum, LLC



Beaux Jennings

From: Beaux Jennings
Sent: Monday, April 25, 2022 11:34 AM
To: 'Hamlet, Robert, EMNRD'
Cc: Bratcher, Mike, EMNRD; Nobui, Jennifer, EMNRD
Subject: RE: [EXTERNAL] Pure Gold A Fed. #14 (2RP-4262)

Friday, April 29, 2022.

-Beaux

From: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Sent: Monday, April 25, 2022 11:28 AM
To: Beaux Jennings <bjennings@ensolum.com>
Cc: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>
Subject: RE: [EXTERNAL] Pure Gold A Fed. #14 (2RP-4262)

[**EXTERNAL EMAIL**]

Beaux,

Time and date in case the OCD would like to witness?

Robert Hamlet • Environmental Specialist - Advanced
Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
<http://www.emnrd.state.nm.us/OCD/>



From: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Sent: Monday, April 25, 2022 9:51 AM
To: Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>
Subject: Fw: [EXTERNAL] Pure Gold A Fed. #14 (2RP-4262)

From: Beaux Jennings <bjennings@ensolum.com>
Sent: Sunday, April 24, 2022 7:29 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@state.nm.us>
Subject: [EXTERNAL] Pure Gold A Fed. #14 (2RP-4262)

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

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provided notification for sampling activities that will be conducted at the Pure Gold A Fed. #14 (2RP-4262). The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f 

Beaux Jennings

From: Beaux Jennings
Sent: Tuesday, May 17, 2022 9:26 PM
To: OCD.Enviro@state.nm.us
Subject: Pure Gold A Fed. #14 (2RP-4262)

Good Afternoon,

On behalf of Oxy USA Inc, Ensolum, LLC would like to provide notification for sampling activities that will be conducted at the Pure Gold A Fed. #14 (2RP-4262) on Thursday, May 19th at 0900. The samples may be used for closure, provided that they meet applicable closure limits.

Thank you,



Beaux Jennings
Senior Project Manager
210-219-8858
Ensolum, LLC
in f 



PHONE (575) 397-6388 • FAX (575) 397- 0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805
E-MAIL: cbrunson@bbcinternational.com

DELINEATION WORKPLAN

OXY – PURE GOLD A FEDERAL #14 (Leak Date: 6/23/17)

RP # 2RP-4262
API # 30-015-35307

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4262.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

OXY will excavate the spill area as depicted on the following site diagram. The leak area near SP1 – SP4 (pink shade on diagram) will be excavated to a depth of 4 feet with an impermeable liner installed in the excavation. The leak area near SP5 and SP6 (yellow shade on diagram) will be excavated to a depth of 1 foot.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

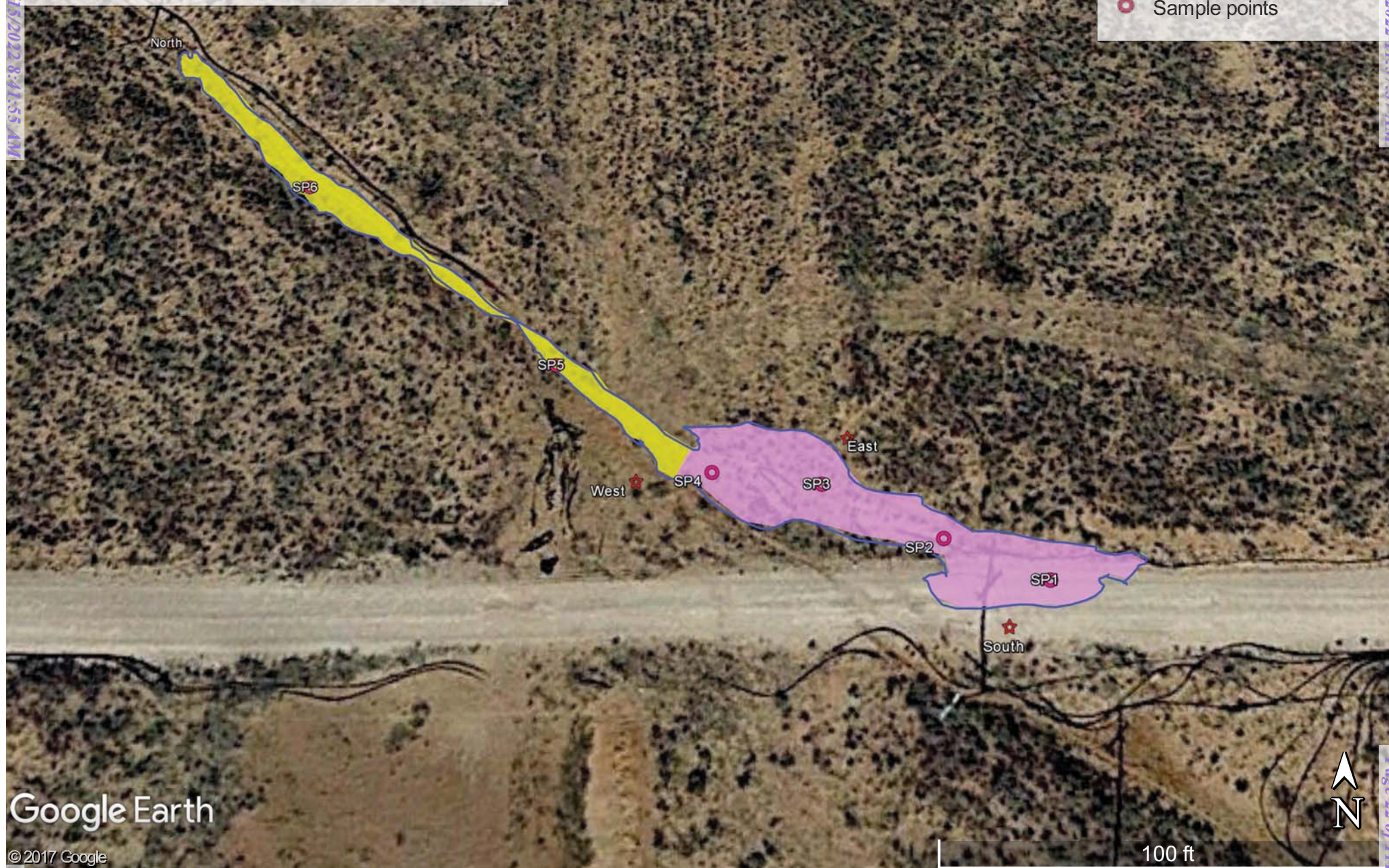
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Oxy, Pure Gold A Federal #14

Leak date: 06/23/2017
Eddy County, NM
API# 30-015-35307
2RP-4262

Legend

- 1 ft Excavation
- 4 ft Excavation with liner
- Cardinal sample points
- Leak Area
- Sample points



Oxy, Pure Gold A Federal #14

Sample points, hand auger

SP1, N 32.29171 W-103.78684

SP2, N 32.29174 W-103.78692

SP3, N 32.29178 W-103.78701

SP4, N 32.29178 W-103.78710

SP5, N 32.29186 W-103.78722

SP6, N 32.29200 W-103.78744

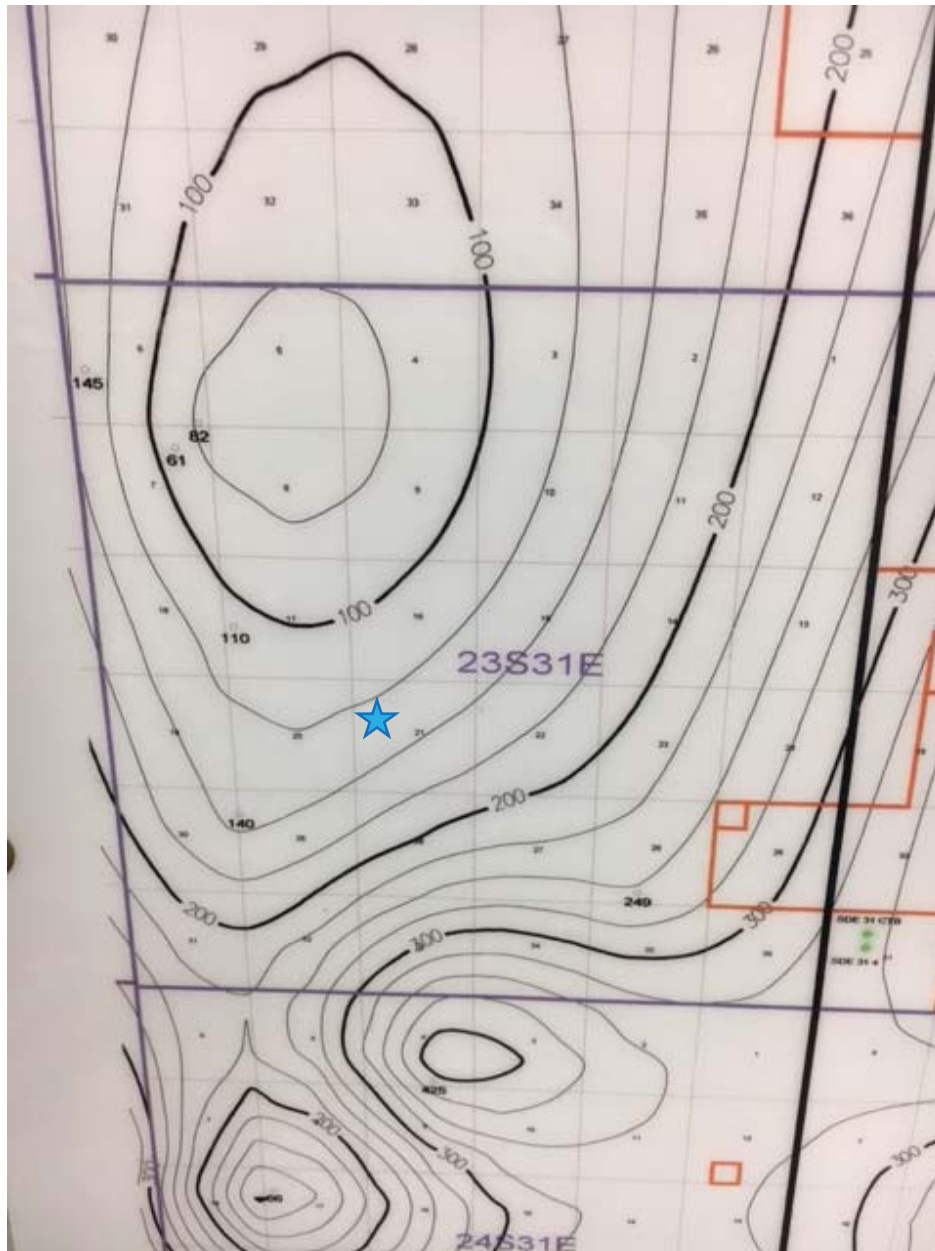
NORTH, N 32.29212 W-103.78758

SOUTH, N 32.29168 W-103.78688

EAST, N 32.29181 W-103.78699

WEST, N 32.29178 W-103.78716

Oxy, Pure Gold A Federal #14
U/L E, Section 21, T23S, R31E
Groundwater: 125'





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	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_02954 EXPL			ED	3	1	4	20	23S	31E	613114	3572906*	<input type="text"/>	1034	905	

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 614013

Northing (Y): 3573418

Radius: 1700

*UTM location was derived from PLSS - see Help

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

7/11/17 2:30 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

☐ Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

☐ X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

☐ X: ft Y: ft Zone:

Degrees/Minutes/Seconds

☐ Longitude (X): Degrees: ° Minutes: ' Seconds: "

Latitude (Y): Degrees: ° Minutes: ' Seconds: "

UTM - NAD27

☐ Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X): mtrs Northing (Y): mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~

**Laboratory Analytical Results Summary
Pure Gold A Federal #14**

		Sample	SP1 @ 1'	SP1 @ 3'	SP1 @ 5'	SP1 @ 8'	SP1 @ 10'	SP1 @ 12'	SP1 @ 13'
Analyte	Method	Date	7/10/17	7/10/17	7/10/17	7/14/17	7/14/17	7/14/17	7/14/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		6000	8260	6960	5760	176	192	80
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample	SP2 @ 1'	SP2 @ 3'	SP2 @ 5'	SP2 @ 8'	SP2 @ 10'	SP2 @ 12'	SP2 @ 13'
Analyte	Method	Date	7/10/17	7/10/17	7/10/17	7/14/17	7/14/17	7/14/17	7/14/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		5460	7060	6400	5920	576	192	96
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

		Sample	SP3 @ 1'	SP3 @ 3'	SP3 @ 5'	SP3 @ 7'	SP3 @ 9'	SP3 @ 11'	SP3 @ 12'	SP3 @ 13'
Analyte	Method	Date	7/10/17	7/10/17	7/10/17	7/10/17	7/14/17	7/14/17	7/14/17	7/14/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1600	9600	7060	6930	8130	1500	208	128
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		114	<10.0	<10.0	19.3	n/a	n/a	n/a	n/a

		Sample	SP4 @ 1'	SP4 @ 3'	SP4 @ 5'	SP4 @ 7'	SP4 @ 9'	SP4 @ 11'	SP4 @ 12'	SP4 @ 13'
Analyte	Method	Date	7/10/17	7/10/17	7/10/17	7/10/17	7/14/17	7/14/17	7/14/17	7/14/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300	n/a	n/a	n/a	n/a
Chloride	SM4500Cl-B		1760	9730	8000	7060	5600	1700	176	144
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a
DRO	TPH 8015M		28.4	<10.0	<10.0	<10.0	n/a	n/a	n/a	n/a

**Laboratory Analytical Results Summary
Pure Gold A Federal #14**

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 7'	SP5 @ 10'
Analyte	Method	Date	7/10/17	7/10/17	7/10/17	7/14/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		6400	208	160	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		<10.0	<10.0	<10.0	n/a

		Sample	SP6 @ 1'	SP6 @ 2'	SP6 @ 7'	SP6 @ 10'
Analyte	Method	Date	7/10/17	7/10/17	7/10/17	7/14/17
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	n/a
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	n/a
Chloride	SM4500Cl-B		6530	192	112	32
GRO	TPH 8015M		<10.0	<10.0	<10.0	n/a
DRO	TPH 8015M		42.7	<10.0	<10.0	n/a

		Sample	NORTH @ SURFACE
Analyte	Method	Date	7/10/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	EAST @ SURFACE
Analyte	Method	Date	7/10/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	WEST @ SURFACE
Analyte	Method	Date	7/10/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0

		Sample	SOUTH @ SURFACE
Analyte	Method	Date	7/10/17
			mg/Kg
Benzene	BTEX 8021B		<0.050
Toluene	BTEX 8021B		<0.050
Ethylbenzene	BTEX 8021B		<0.050
Total Xylenes	BTEX 8021B		<0.150
Total BTEX	BTEX 8021B		<0.300
Chloride	SM4500Cl-B		64
GRO	TPH 8015M		<10.0
DRO	TPH 8015M		<10.0



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 19, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PURE GOLD A FED #14

Enclosed are the results of analyses for samples received by the laboratory on 07/13/17 15:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP1 @ 1 (H701820-01)

BTX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317	
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695	
Total BTX	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	07/14/2017	ND	448	112	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 108 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP1 @ 3 (H701820-02)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317	
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695	
Total BTEx	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8260	16.0	07/14/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 101 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP1 @ 5 (H701820-03)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317		
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695		
Total BTEx	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6960	16.0	07/14/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 92.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.5 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP2 @ 1 (H701820-04)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317		
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695		
Total BTX	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 107 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5460	16.0	07/14/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 113 % 28.3-164

Surrogate: 1-Chlorooctadecane 115 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP2 @ 3 (H701820-05)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317		
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695		
Total BTX	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	07/14/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 98.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.6 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP2 @ 5 (H701820-06)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317		
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695		
Total BTX	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	07/14/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 90.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.7 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP3 @ 1 (H701820-07)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317		
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695		
Total BTX	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1600	16.0	07/14/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	114	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 91.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 102 % 34.7-157

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Analytical Results For:

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Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP3 @ 3 (H701820-08)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317		
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695		
Total BTEx	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	9600	16.0	07/14/2017	ND	448	112	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 94.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.5 % 34.7-157

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Analytical Results For:

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Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP3 @ 5 (H701820-09)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317	
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695	
Total BTX	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7060	16.0	07/14/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 89.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.8 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP3 @ 7 (H701820-10)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317	
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695	
Total BTX	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6930	16.0	07/14/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	19.3	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 92.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 95.1 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP4 @ 1 (H701820-11)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317	
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695	
Total BTX	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1760	16.0	07/14/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	28.4	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 95.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP4 @ 3 (H701820-12)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.06	103	2.00	0.317		
Toluene*	<0.050	0.050	07/18/2017	ND	2.01	100	2.00	0.0174		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.15	108	2.00	0.372		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.40	107	6.00	0.0695		
Total BTEx	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9730	16.0	07/14/2017	ND	448	112	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 97.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 96.4 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
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 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP4 @ 5 (H701820-13)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48	
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07	
Total BTEx	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8000	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 96.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.0 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP4 @ 7 (H701820-14)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48	
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07	
Total BTEx	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	7060	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 100 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.1 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP5 @ 1 (H701820-15)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48		
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07		
Total BTEx	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 102 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 88.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 89.4 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
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 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP5 @ 2 (H701820-16)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48	
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07	
Total BTEx	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	07/14/2017	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 87.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 90.2 % 34.7-157

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Analytical Results For:

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Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP5 @ 7 (H701820-17)

BTEx 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48		
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07		
Total BTEx	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	160	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 91.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 91.0 % 34.7-157

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Analytical Results For:

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Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP6 @ 1 (H701820-18)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48	
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07	
Total BTEx	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6530	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	42.7	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 95.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 103 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP6 @ 2 (H701820-19)

BTX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48	
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07	
Total BTX	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/14/2017	ND	199	99.4	200	3.35	
DRO >C10-C28	<10.0	10.0	07/14/2017	ND	203	101	200	2.94	

Surrogate: 1-Chlorooctane 84.6 % 28.3-164

Surrogate: 1-Chlorooctadecane 86.1 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP6 @ 7 (H701820-20)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48	
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07	
Total BTEx	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2017	ND	193	96.6	200	4.08	
DRO >C10-C28	<10.0	10.0	07/15/2017	ND	200	99.8	200	2.73	

Surrogate: 1-Chlorooctane 88.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.8 % 34.7-157

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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: NORTH @ SURFACE (H701820-21)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48		
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07		
Total BTX	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2017	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2017	ND	193	96.6	200	4.08	
DRO >C10-C28	<10.0	10.0	07/15/2017	ND	200	99.8	200	2.73	

Surrogate: 1-Chlorooctane 98.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 99.6 % 34.7-157

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Analytical Results For:

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 Cliff Brunson
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Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: EAST @ SURFACE (H701820-22)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48	
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07	
Total BTEx	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 104 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2017	ND	193	96.6	200	4.08	
DRO >C10-C28	<10.0	10.0	07/15/2017	ND	200	99.8	200	2.73	

Surrogate: 1-Chlorooctane 104 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: WEST @ SURFACE (H701820-23)

BTX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48		
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05		
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52		
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07		
Total BTX	<0.300	0.300	07/18/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	64.0	16.0	07/14/2017	ND	448	112	400	3.51		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2017	ND	193	96.6	200	4.08	
DRO >C10-C28	<10.0	10.0	07/15/2017	ND	200	99.8	200	2.73	

Surrogate: 1-Chlorooctane 103 % 28.3-164

Surrogate: 1-Chlorooctadecane 97.1 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/13/2017	Sampling Date:	07/10/2017
Reported:	07/19/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SOUTH @ SURFACE (H701820-24)

BTEx 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	07/18/2017	ND	2.04	102	2.00	7.48	
Toluene*	<0.050	0.050	07/18/2017	ND	1.99	99.7	2.00	8.05	
Ethylbenzene*	<0.050	0.050	07/18/2017	ND	2.14	107	2.00	8.52	
Total Xylenes*	<0.150	0.150	07/18/2017	ND	6.39	107	6.00	8.07	
Total BTEx	<0.300	0.300	07/18/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 106 % 72-148

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/14/2017	ND	448	112	400	3.51	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	07/15/2017	ND	193	96.6	200	4.08	
DRO >C10-C28	<10.0	10.0	07/15/2017	ND	200	99.8	200	2.73	

Surrogate: 1-Chlorooctane 97.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 93.0 % 34.7-157

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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

Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



ORDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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CARDINAL LABORATORIES
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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:		BILL TO												ANALYSIS REQUEST																									
Project Manager: Cliff Brunson		Company: OKY																																							
Address: P.O. Box 805		Attn:																																							
City: Hobbs		Address: Jurney																																							
Phone #: 575-397-6388		City:																																							
State: NM Zip: 88241		State:																																							
Fax #: 575-397-0397		Zip:																																							
Project #:		Project Owner: OKY																																							
Project Name: Pure Gold A-14		Phone #:																																							
Project Location: 13 th St		Fax #:																																							
Sampler Name: PH																																									
FOR LAB USE ONLY																																									
Lab I.D.		Sample I.D.		(G)RAB OR (C)OMP.		# CONTAINERS		GROUNDWATER		WASTEWATER		SOIL		OIL		SLUDGE		OTHER :		ACID/BASE:		ICE / COOL		OTHER :		DATE		TIME													
A701820		A.H.H.Q. Surface		G1		1		1		1		1		1		1		1		1		1		1		7-10		1:00		BTEX											
21		East of Surface		G1		1		1		1		1		1		1		1		1		1		1		7-10		1:05		TPH											
22		West of Surface		G1		1		1		1		1		1		1		1		1		1		1		7-10		1:10		Cl-											
23		South of Surface		G1		1		1		1		1		1		1		1		1		1		1		7-10		1:15													
24																																									

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Relinquished By: <i>W.H. O. - 1/1</i>	Date: <i>7-13-17</i>	Received By: <i>Jurney</i>	Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Phone #: <i>70-475</i>
Time: <i>3:05</i>	Time: <i>7-13-17</i>	Time: <i>7-13-17</i>	Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	Add'l Fax #: <i>70-475</i>
Delivered By: (Circle One) <i>-0.68</i>	Sample Condition: <input checked="" type="checkbox"/> Cool <input type="checkbox"/> Intact	CHECKED BY: <i>Jurney</i>		
Sampler - UPS - Bus - Other: <i>Permitted - 0.85</i>				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

July 25, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: PURE GOLD A FED #14

Enclosed are the results of analyses for samples received by the laboratory on 07/20/17 9:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/20/2017	Sampling Date:	07/14/2017
Reported:	07/25/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP6 @ 10' (H701884-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2017	ND	416	104	400	3.77	

Sample ID: SP5 @ 10' (H701884-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/20/2017	ND	416	104	400	3.77	

Sample ID: SP4 @ 9' (H701884-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	07/20/2017	ND	416	104	400	3.77	

Sample ID: SP4 @ 11' (H701884-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1700	16.0	07/20/2017	ND	416	104	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/20/2017	Sampling Date:	07/14/2017
Reported:	07/25/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP4 @ 12' (H701884-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	176	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP4 @ 13' (H701884-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	144	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP3 @ 9' (H701884-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	8130	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP3 @ 11' (H701884-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1500	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP3 @ 12' (H701884-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	07/20/2017	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/20/2017	Sampling Date:	07/14/2017
Reported:	07/25/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP3 @ 13' (H701884-10)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	128	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP2 @ 8' (H701884-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5920	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP2 @ 10' (H701884-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	576	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP2 @ 12' (H701884-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	192	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP2 @ 13' (H701884-14)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	07/20/2017	ND	416	104	400	3.77		

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	07/20/2017	Sampling Date:	07/14/2017
Reported:	07/25/2017	Sampling Type:	Soil
Project Name:	PURE GOLD A FED #14	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	OXY / 128		

Sample ID: SP1 @ 8' (H701884-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5760	16.0	07/20/2017	ND	416	104	400	3.77		

Sample ID: SP1 @ 10' (H701884-16)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	07/20/2017	ND	416	104	400	3.77	

Sample ID: SP1 @ 12' (H701884-17)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	07/20/2017	ND	416	104	400	3.77	

Sample ID: SP1 @ 13' (H701884-18)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	07/20/2017	ND	416	104	400	3.77		

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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "C. D. Keene".

Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1 of 2

Page 7 of 8



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

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

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 28 2017

Form C-141
Revised April 3, 2017

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

RECEIVED

Release Notification and Corrective Action

0AB1717951624 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company	OXY USA INC	Contact	CASEY L SUMMERS
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-513-8289
Facility Name	PURE GOLD A FEDERAL #14	Facility Type	BATTERY
Surface Owner	FEDERAL	Mineral Owner	FEDERAL
		API No.	30-015-35307

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	21	23S	31E	480	NORTH	1980	EAST	EDDY

Latitude_ 32.2958488_ Longitude_ -103.7806396_ NAD83

NATURE OF RELEASE

Type of Release:	OIL & PRODUCED WATER	Volume of Release	2 bbls OIL & 10 bbls PRODUCED WATER	Volume Recovered	0 bbls recovered
Source of Release:	3 INCH POLY PRODUCTION FLOW LINE	Date and Hour of Occurrence	06-23-2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM		
By Whom?	CASEY L SUMMERS	Date and Hour	06/26/2017 @ 11:56 am	*per email: 10:56am	
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.*

Describe Cause of Problem and Remedial Action Taken.*

Spill was caused by 3 inch poly production flow line failure. Line was repaired. No fluids were recovered.

Describe Area Affected and Cleanup Action Taken.*

Affected area is 3x300 FT, Leak is off location (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and BLM.

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:	OIL CONSERVATION DIVISION		
Printed Name:	CASEY L SUMMERS	Approved by Environmental Specialist: <i>[Signature]</i>	
Title:	ENVIRONMENTAL ADVISOR	Approval Date:	6/28/17
E-mail Address:	casey_summers@oxy.com	Expiration Date:	N/A
Date:	6-27-17	Phone:	575-513-8289
		Conditions of Approval:	Sec Attached
		Attached	<input type="checkbox"/>

* Attach Additional Sheets If Necessary

2RP 4262

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 6/28/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4263 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 7/28/17. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Casey_Summers@oxy.com
Sent: Wednesday, June 28, 2017 6:54 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov
Cc: Jennifer_Smith@oxy.com; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; Wade_Dittrich@oxy.com; jgilkey@bbcinternational.com; kathy@bbcinternational.com
Subject: RE: PURE GOLD A FEDERAL 0014
Attachments: PURE GOLD A FEDERAL 14 - INITIAL C141.pdf

Attached is the initial C141 for the release referred to in the initial notification email below. Please let me know if you have any questions.

Casey Summers
O: (575)-628-4152
C: (575)-513-8289

From: Summers, Casey L
Sent: Monday, June 26, 2017 10:56 AM
To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; 'stucker@blm.gov' <stucker@blm.gov>
Cc: Smith, Jennifer A <Jennifer_Smith@oxy.com>; 'cbrunson@bbcinternational.com' <cbrunson@bbcinternational.com>; 'kswinney@bbcinternational.com' <kswinney@bbcinternational.com>; Dittrich, John W (Ervin Well Site Consultants) <Wade_Dittrich@oxy.com>; 'jgilkey@bbcinternational.com' <jgilkey@bbcinternational.com>; 'kathy@bbcinternational.com' <kathy@bbcinternational.com>
Subject: PURE GOLD A FEDERAL 0014

All,
This is to inform you that Oxy Permian had a release in Eddy County at the PURE GOLD A FEDERAL 0014 on 6/23/2017.

- **Release Location:** Legal B-21-23S-31E, API: 30-015-35307
- **Release Volume:** 2 bbls of Oil and 10 bbls of Produced Water.
- **Recovered:** 0 bbls recovered
- **Cause of Release:** 3 INCH POLY PRODUCTION FLOW LINE
- **Approximate Area impacted by release:** 3x300 FT, Leak is off location (measurements are subject to change with GPS tracking)
- **GPS Coordinates and Driving Direction:** 32.2958488,-103.7806396, FROM CARLSBAD ON 285 SOUTH GO 9 MILES, TURN ONTO HWY 31 THEN GO TO HWY128 AND TURN RIGHT, GO 4-5 MILES, 2ND ROAD PAST TWIN WELLS ROAD TAKE 2ND ROAD NORTH

Please let me know if you have any questions.

Casey Summers
O: (575)-628-4152
C: (575)-513-8289

Weaver, Crystal, EMNRD

From: Casey_Summers@oxy.com
Sent: Monday, June 26, 2017 10:56 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov
Cc: Jennifer_Smith@oxy.com; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; Wade_Dittrich@oxy.com; jgilkey@bbcinternational.com; kathy@bbcinternational.com
Subject: PURE GOLD A FEDERAL 0014

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Please let me know if you have any questions.

Casey Summers
O: (575)-628-4152
C: (575)-513-8289



APPENDIX C

Photographic Documentation



View of the initial release point at the failed poly line (June 27, 2017), facing northwest.



View of the initial release area from the northern extent of the surface staining (June 27, 2017), facing southeast.



View of the final excavation area at the release point (May 6, 2022), facing east.



View of the central portion of the final excavation area (May 6, 2022), facing east/southeast.



View of the southern portion of the final excavation area (May 6, 2022), facing east/southeast.



View of the northern portion of the final excavation area (May 6, 2022), facing west/northwest.



APPENDIX D

Tables

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Oxy USA Inc. - Pure Gold Fed. 14
Eddy County, New Mexico

Ensolum Project No. 03B1417030

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total TPH (GRO+DRO+MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)			10	NE	NE	NE	50	NE	NE	NE	100	600
Composite Floor Sample Analytical Results												
FS-1	5/6/2022	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	32.0
FS-2	5/6/2022	1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
FS-3	5/6/2022	3.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	52.5	17.4	69.9	176
FS-4	5/6/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	1,850	529	2,379	80.0
	5/19/2022	6.5	NS					<10.0	19.8	<10.0	19.8	NS
FS-5	5/6/2022	4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	890	258	1,148	128
	5/19/2022	5	NS					<10.0	<10.0	<10.0	<10.0	NS
FS-6	5/6/2022	0.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
FS-7	5/6/2022	1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0
Composite Sidewall Sample Analytical Results												
SW-1	5/6/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	954	332	1,286	32.0
	5/19/2022	0 - 1	NS					<10.0	<10.0	<10.0	<10.0	NS
SW-2	5/6/2022	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	13.0	<10.0	13.0	<16.0
SW-3	5/6/2022	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	161	80.3	241	112
	5/19/2022	0 - 1.5	NS					<10.0	<10.0	<10.0	<10.0	NS
SW-4	5/6/2022	0 - 1.5	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	64.0
SW-5	5/6/2022	0 - 4	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	473	143	616	48.0
	5/19/2022	0 - 5	NS					<10.0	<10.0	<10.0	<10.0	NS
SW-6	5/6/2022	0 - 1	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	<16.0

Concentrations in **bold** and yellow exceed the New Mexico Oil Conservation Division Closure Criteria for Soils Impacted by a Release (≤ 50 feet)

bgs: below ground surface

mg/kg: milligrams per kilogram

NA: Not Applicable

NE: Not Established

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

MRO: Motor Oil/Lube Oil Range Organics

TPH: Total Petroleum Hydrocarbon



APPENDIX E

Laboratory Data Sheets and Chain-of-Custody Documentation



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 11, 2022

BEAUX JENNINGS

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: PURE GOLD A FED 14

Enclosed are the results of analyses for samples received by the laboratory on 05/06/22 13:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 1 (H221921-01)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTEX	<0.300	0.300	05/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	05/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 86.6 % 66.9-136

Surrogate: 1-Chlorooctadecane 103 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 2 (H221921-02)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTEX	<0.300	0.300	05/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	05/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 85.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

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 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 3 (H221921-03)

BTX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTX	<0.300	0.300	05/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	05/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	52.5	10.0	05/10/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	17.4	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 83.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 100 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 4 (H221921-04)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTEX	<0.300	0.300	05/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS				S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/11/2022	ND	191	95.7	200	3.78	
DRO >C10-C28*	1850	10.0	05/11/2022	ND	199	99.6	200	6.13	
EXT DRO >C28-C36	529	10.0	05/11/2022	ND					

Surrogate: 1-Chlorooctane 99.5 % 66.9-136

Surrogate: 1-Chlorooctadecane 151 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 5 (H221921-05)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTEx	<0.300	0.300	05/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	890	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	258	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 97.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 116 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 6 (H221921-06)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2022	ND	2.05	103	2.00	0.697		
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03		
Total BTEx	<0.300	0.300	05/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 94.2 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: FS - 7 (H221921-07)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTEx	<0.300	0.300	05/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 85.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 89.7 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 1 (H221921-08)

BTEx 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/10/2022	ND	2.05	103	2.00	0.697	
Toluene*	<0.050	0.050	05/10/2022	ND	2.03	101	2.00	0.736	
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	1.92	95.8	2.00	1.15	
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.01	100	6.00	2.03	
Total BTEx	<0.300	0.300	05/10/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	954	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	332	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 98.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 2 (H221921-09)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2022	ND	2.14	107	2.00	6.63		
Toluene*	<0.050	0.050	05/10/2022	ND	2.10	105	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	2.06	103	2.00	7.61		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.36	106	6.00	7.80		
Total BTEX	<0.300	0.300	05/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	13.0	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 87.1 % 66.9-136

Surrogate: 1-Chlorooctadecane 93.0 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
BEAUX JENNINGS
705 W WADLEY AVE.
MIDLAND TX, 79705
Fax To:

Received: 05/06/2022
Reported: 05/11/2022
Project Name: PURE GOLD A FED 14
Project Number: 03B1417030
Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: SW - 3 (H221921-10)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2022	ND	2.14	107	2.00	6.63		
Toluene*	<0.050	0.050	05/10/2022	ND	2.10	105	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	2.06	103	2.00	7.61		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.36	106	6.00	7.80		
Total BTEx	<0.300	0.300	05/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 103 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	161	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	80.3	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 89.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 92.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 4 (H221921-11)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2022	ND	2.14	107	2.00	6.63		
Toluene*	<0.050	0.050	05/10/2022	ND	2.10	105	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	2.06	103	2.00	7.61		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.36	106	6.00	7.80		
Total BTEX	<0.300	0.300	05/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/10/2022	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 93.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 96.9 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 5 (H221921-12)

BTEx 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2022	ND	2.14	107	2.00	6.63		
Toluene*	<0.050	0.050	05/10/2022	ND	2.10	105	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	2.06	103	2.00	7.61		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.36	106	6.00	7.80		
Total BTEx	<0.300	0.300	05/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	473	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	143	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 84.4 % 66.9-136

Surrogate: 1-Chlorooctadecane 99.0 % 59.5-142

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/06/2022
 Reported: 05/11/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/06/2022
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Shalyn Rodriguez

Sample ID: SW - 6 (H221921-13)

BTEX 8021B		mg/kg		Analyzed By: MS\						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	05/10/2022	ND	2.14	107	2.00	6.63		
Toluene*	<0.050	0.050	05/10/2022	ND	2.10	105	2.00	6.83		
Ethylbenzene*	<0.050	0.050	05/10/2022	ND	2.06	103	2.00	7.61		
Total Xylenes*	<0.150	0.150	05/10/2022	ND	6.36	106	6.00	7.80		
Total BTEX	<0.300	0.300	05/10/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	05/10/2022	ND	416	104	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/10/2022	ND	209	104	200	2.78	
DRO >C10-C28*	<10.0	10.0	05/10/2022	ND	193	96.4	200	3.59	
EXT DRO >C28-C36	<10.0	10.0	05/10/2022	ND					

Surrogate: 1-Chlorooctane 91.0 % 66.9-136

Surrogate: 1-Chlorooctadecane 94.3 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Enselon LLC						P.O. #:					
Project Manager: Beau Jennings #400						Company:					
Address: 601 Moricentfield #400						Attn:					
City: M.Deland						Address:					
Phone #: 210 219 8858						City:					
Fax #:						State:					
Project #: 03B1417030						Zip:					
Project Owner: Dxy						Phone #:					
Project Location: Pure Gold A Fed. 14						Fax #:					
Sampler Name: SHANE DRIVER						SAMPLING					
FOR LAB USE ONLY						PRESERV.					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					DATE	TIME	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			
1	FS-1	C	1	X					5-6-22	1145	BTEX 8021 B
2	FS-2	C	1	X					5-6-22	1150	TPH 8015 M
3	FS-3	C	1	X					5-6-22	1155	Chlorides 4500
4	FS-4	C	1	X					5-6-22	1200	
5	FS-5	C	1	X					5-6-22	1205	
6	FS-6	C	1	X					5-6-22	1210	
7	FS-7	C	1	X					5-6-22	1215	
8	SW-1	C	1	X					5-6-22	1220	
9	SW-2	C	1	X					5-6-22	1225	
10	SW-3	C	1	X					5-6-22	1230	

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Relinquished By:	Date: 5-2-22	Received By: Shoenigues
Time: 1300		
Date:		
Time:		
Relinquished By:		Received By:
Turnaround Time:	Standard	Rush
Thermometer ID #113	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Correction Factor -0.5°C	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Remarks:	Jennings@enselvn.com	
Verbal Result:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Add'l Phone #:
All Results are emailed. Please provide Email address:		



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2 of 2

Company Name: <u>Ensober</u>		BILL TO		ANALYSIS REQUEST	
Project Manager: <u>Beau Jennings</u>		P.O. #:			
Address: <u>601 Mainfield</u>		Company:			
City: <u>Midland</u>		Attn:			
State: <u>TX</u> Zip: <u>79705</u>		Address:			
Phone #: <u>210 219 8858</u> Fax #:		City:			
Project #: <u>03B1417030</u> Project Owner: <u>Arx</u>		State:			
Project Name: <u>Pure Gold</u>		Zip:			
Project Location: <u>Eddy County</u>		Phone #:			
Sample Name: <u>SHANE DUEBA</u>		Fax #:			

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	ANALYSIS	
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
11	SW-4	C	1			X							
12	SW-5	C	1			X							
13	SW-6	C	1			X							
14													
15													
16													
17													
18													

Relinquished By: <u>[Signature]</u>		Date: <u>5-10-20</u>	Received By: <u>[Signature]</u>	Date: <u>5-10-20</u>
Relinquished By: <u>[Signature]</u>		Date: <u>5-10-20</u>	Received By: <u>[Signature]</u>	Date: <u>5-10-20</u>

Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	CHECKED BY: (Initials)	Turnaround Time:	Standard	Bacteria (only)	Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C	Cool Intact			Rush	Cool Intact	Observed Temp. °C
		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				Yes <input type="checkbox"/> No <input type="checkbox"/>	Corrected Temp. °C

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Verbal Result: ☐ Yes ☐ No ☐ Add'l Phone #:

All Results are emailed. Please provide Email address:

REMARKS:

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

May 25, 2022

BEAUX JENNINGS
ENSOLUM, LLC
705 W WADLEY AVE.
MIDLAND, TX 79705

RE: PURE GOLD A FED 14

Enclosed are the results of analyses for samples received by the laboratory on 05/19/22 12:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene
Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/19/2022
 Reported: 05/25/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/19/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW - 1 0'-1' (H222136-01)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2022	ND	195	97.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/24/2022	ND	208	104	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/24/2022	ND					
Surrogate: 1-Chlorooctane	88.8 %	66.9-136							
Surrogate: 1-Chlorooctadecane	97.5 %	59.5-142							

Sample ID: FS - 5 5' (H222136-02)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2022	ND	195	97.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/24/2022	ND	208	104	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/24/2022	ND					
Surrogate: 1-Chlorooctane	89.5 %	66.9-136							
Surrogate: 1-Chlorooctadecane	100 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/19/2022
 Reported: 05/25/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/19/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: SW - 5 0'-5' (H222136-03)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2022	ND	195	97.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/24/2022	ND	208	104	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/24/2022	ND					
Surrogate: 1-Chlorooctane	91.2 %	66.9-136							
Surrogate: 1-Chlorooctadecane	102 %	59.5-142							

Sample ID: SW - 3 0'-1.5' (H222136-04)

TPH 8015M	mg/kg	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2022	ND	195	97.4	200	2.52	
DRO >C10-C28*	<10.0	10.0	05/24/2022	ND	208	104	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/24/2022	ND					
Surrogate: 1-Chlorooctane	78.3 %	66.9-136							
Surrogate: 1-Chlorooctadecane	87.0 %	59.5-142							

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ENSOLUM, LLC
 BEAUX JENNINGS
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received: 05/19/2022
 Reported: 05/25/2022
 Project Name: PURE GOLD A FED 14
 Project Number: 03B1417030
 Project Location: OXY - EDDY CO NM

Sampling Date: 05/19/2022
 Sampling Type: Soil
 Sampling Condition: ** (See Notes)
 Sample Received By: Tamara Oldaker

Sample ID: FS - 4 6.5' (H222136-05)

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	05/24/2022	ND	195	97.4	200	2.52	
DRO >C10-C28*	19.8	10.0	05/24/2022	ND	208	104	200	1.28	
EXT DRO >C28-C36	<10.0	10.0	05/24/2022	ND					
<hr/>									
Surrogate: 1-Chlorooctane	79.4 %	66.9-136							
Surrogate: 1-Chlorooctadecane	90.5 %	59.5-142							

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



APPENDIX F

C-141

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

NM OIL CONSERVATION

ARTESIA DISTRICT

JUN 28 2017

Form C-141
Revised April 3, 2017

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

RECEIVED

Release Notification and Corrective Action

0AB1717951624 **OPERATOR** ☒ Initial Report ☐ Final Report

Name of Company	OXY USA INC	Contact	CASEY L SUMMERS
Address	PO BOX 4294; HOUSTON, TX 77210	Telephone No.	575-513-8289
Facility Name	PURE GOLD A FEDERAL #14	Facility Type	BATTERY

Surface Owner	FEDERAL	Mineral Owner	FEDERAL	API No.	30-015-35307
---------------	---------	---------------	---------	---------	--------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
B	21	23S	31E	480	NORTH	1980	EAST	EDDY

Latitude_ 32.2958488_ Longitude_ -103.7806396_ NAD83

NATURE OF RELEASE

Type of Release:	OIL & PRODUCED WATER	Volume of Release	2 bbls OIL & 10 bbls PRODUCED WATER	Volume Recovered	0 bbls recovered
Source of Release:	3 INCH POLY PRODUCTION FLOW LINE	Date and Hour of Occurrence	06-23-2017	Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	MIKE BRATCHER-NMOCD; CRYSTAL WEAVER-NMOCD; SHELLY TUCKER-BLM		
By Whom?	CASEY L SUMMERS	Date and Hour	06/26/2017 @ 11:56 am	<i>*per email: 10:56am</i>	
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.*					
Describe Cause of Problem and Remedial Action Taken.*					
Spill was caused by 3 inch poly production flow line failure. Line was repaired. No fluids were recovered.					
Describe Area Affected and Cleanup Action Taken.*					
Affected area is 3x300 FT, Leak is off location (measurements are subject to change with GPS tracking). Remediation will be completed in accordance with a remediation plan approved by the NMOCD and BLM.					
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:		OIL CONSERVATION DIVISION			
Printed Name: CASEY L SUMMERS		Approved by Environmental Specialist: <i>[Signature]</i>			
Title: ENVIRONMENTAL ADVISOR		Approval Date: 6/28/17		Expiration Date: N/A	
E-mail Address: casey_summers@oxy.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 6-27-17 Phone: 575-513-8289		See Attached			

* Attach Additional Sheets If Necessary

2RP 4262

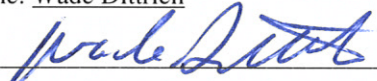
State of New Mexico
Oil Conservation Division

Incident ID	nAB1717951624
District RP	2RP-4262
Facility ID	
Application ID	pAB1717951488

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

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>Wade Dittrich</u>	Title: <u>Environmental Specialist</u>
Signature: <u></u>	Date: <u>7-14-22</u>
email: <u>wade_dittrich@oxy.com</u>	Telephone: <u>575-390-2828</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

Incident ID	nAB1717951624
District RP	2RP-4262
Facility ID	
Application ID	pAB1717951488

Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico
Oil Conservation Division

Incident ID	nAB1717951624
District RP	2RP-4262
Facility ID	
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Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 7-14-22

email: wade_dittrich@oxy.com

Telephone: 575-390-2828

OCD Only

Received by: _____

Date: _____

Incident ID	nAB1717951624
District RP	2RP-4262
Facility ID	
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Closure

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

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

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

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

Printed Name: Wade Dittrich

Title: Environmental Specialist

Signature: 

Date: 7-14-22

email: wade_dittrich@oxy.com


Telephone: 575-390-2828

OCD Only

Received by: OCD

Date: 7/14/2022

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

Closure Approved by: 

Date: 9/15/2022

Printed Name: Ashley Maxwell

Title: Environmental Specialist

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 6/28/17 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4263 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 7/28/17.** If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Casey_Summers@oxy.com
Sent: Wednesday, June 28, 2017 6:54 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov
Cc: Jennifer_Smith@oxy.com; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; Wade_Dittrich@oxy.com; jgilkey@bbcinternational.com; kathy@bbcinternational.com
Subject: RE: PURE GOLD A FEDERAL 0014
Attachments: PURE GOLD A FEDERAL 14 - INITIAL C141.pdf

Attached is the initial C141 for the release referred to in the initial notification email below. Please let me know if you have any questions.

Casey Summers
O: (575)-628-4152
C: (575)-513-8289

From: Summers, Casey L
Sent: Monday, June 26, 2017 10:56 AM
To: 'Bratcher, Mike, EMNRD' <mike.bratcher@state.nm.us>; 'Weaver, Crystal, EMNRD' <Crystal.Weaver@state.nm.us>; 'stucker@blm.gov' <stucker@blm.gov>
Cc: Smith, Jennifer A <Jennifer_Smith@oxy.com>; 'cbrunson@bbcinternational.com' <cbrunson@bbcinternational.com>; 'kswinney@bbcinternational.com' <kswinney@bbcinternational.com>; Dittrich, John W (Ervin Well Site Consultants) <Wade_Dittrich@oxy.com>; 'jgilkey@bbcinternational.com' <jgilkey@bbcinternational.com>; 'kathy@bbcinternational.com' <kathy@bbcinternational.com>
Subject: PURE GOLD A FEDERAL 0014

All,
This is to inform you that Oxy Permian had a release in Eddy County at the PURE GOLD A FEDERAL 0014 on 6/23/2017.

- **Release Location:** Legal B-21-23S-31E, API: 30-015-35307
- **Release Volume:** 2 bbls of Oil and 10 bbls of Produced Water.
- **Recovered:** 0 bbls recovered
- **Cause of Release:** 3 INCH POLY PRODUCTION FLOW LINE
- **Approximate Area impacted by release:** 3x300 FT, Leak is off location (measurements are subject to change with GPS tracking)
- **GPS Coordinates and Driving Direction:** 32.2958488,-103.7806396, FROM CARLSBAD ON 285 SOUTH GO 9 MILES, TURN ONTO HWY 31 THEN GO TO HWY128 AND TURN RIGHT, GO 4-5 MILES, 2ND ROAD PAST TWIN WELLS ROAD TAKE 2ND ROAD NORTH

Please let me know if you have any questions.

Casey Summers
O: (575)-628-4152
C: (575)-513-8289

Weaver, Crystal, EMNRD

From: Casey_Summers@oxy.com
Sent: Monday, June 26, 2017 10:56 AM
To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD; stucker@blm.gov
Cc: Jennifer_Smith@oxy.com; cbrunson@bbcinternational.com; kswinney@bbcinternational.com; Wade_Dittrich@oxy.com; jgilkey@bbcinternational.com; kathy@bbcinternational.com
Subject: PURE GOLD A FEDERAL 0014

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Please let me know if you have any questions.

Casey Summers
O: (575)-628-4152
C: (575)-513-8289

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 125454

CONDITIONS

Operator: OXY USA INC P.O. Box 4294 Houston, TX 772104294	OGRID: 16696
	Action Number: 125454
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	9/15/2022