



WSP USA

3300 North "A" Street  
Building 1, Unit 222  
Midland, Texas 79705  
432.704.5178

December 2, 2021

District I  
New Mexico Oil Conservation Division  
1625 N. French Drive  
Hobbs, New Mexico 88210

**RE: Closure Request  
Tin Foil Federal Com 23N CTB  
Incident Number NAPP2128040988  
Lea County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of COG Operating, LLC (COG), presents the following Closure Request detailing site assessment and soil sampling activities at the Tin Foil Federal Com 23N CTB (Site) in Unit N, Section 23, Township 25 South, Range 35 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, COG is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2128040988.

## **RELEASE BACKGROUND**

On June 9, 2021, an oil sight glass on a horizontal heater treater broke causing a release to occur within the lined containment. Approximately 27 barrels (bbls) of crude oil was released into the lined containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 27 bbls of the released crude oil were recovered from within the lined containment. COG reported the release immediately to the New Mexico Oil Conservation Division (NMOCD) via email on June 9, 2021 and a subsequent Release Notification Form C-141. The release was assigned Incident Number NAPP2128040988. A 48-hour advance notice of liner inspection was provided via email on October 14, 2021 to the NMOCD District I office. A liner integrity inspection was conducted by WSP personnel on October 18, 2021 and upon inspection, the liner was determined to be insufficient.

## **SITE CHARACTERIZATION**

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater



well with depth to groundwater data is USGS well number 320707103192901. The well is located approximately 0.77 miles northeast of the site. The groundwater well has a reported depth to groundwater of 223 feet bgs and a total depth of 606 feet bgs. Ground surface elevation at the groundwater well location is 3,097 feet amsl, which is approximately 55 feet lower in elevation than the Site. There are numerous wells with depth to groundwater data to the north of the Site and additional data points to the southwest and southeast. Depth to groundwater is greater than 200 feet in most wells and greater than 100 feet in all nearby wells as depicted on Figure 1. Based on the amount of available data, similar topographic setting, and the nearest water well being only slightly greater than ½ mile away, WSP proposes consideration of depth to groundwater using existing data. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an unnamed dry wash, located approximately 777 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

## **CLOSURE CRITERIA**

Based on the results of the Site Characterization, the following NMOCD Table 1 Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

## **SITE ASSESSMENT ACTIVITIES**

On November 3, 2021, WSP personnel visited the Site to evaluate the release and conduct site assessment activities. WSP personnel advanced one borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. Three soil samples were collected from the borehole at depths of approximately 0.5 feet, 1 foot, and 2 feet bgs. Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil



sampling log, which is included as Attachment 2. The borehole was backfilled with the soil removed and a COG contractor repaired the tear in the liner. The borehole location is depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 3.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

### **SOIL ANALYTICAL RESULTS**

Laboratory analytical results for delineation soil samples BH01, BH01A, and BH01B indicated that benzene, BTEX, TPH-DRO/TPH-GRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. In addition, delineation soil samples BH01A and BH01B collected at 1 foot and 2 feet bgs were compliant with the most stringent Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 4.

### **CLOSURE REQUEST**

Following the failed liner integrity inspection at the Site, WSP personnel advanced one borehole, (BH01), within the lined containment to assess for the presence or absence of soil impacts resulting from the June 9, 2021 crude oil release within lined containment. Three delineation soil samples were collected from borehole BH01, at depths of approximately 0.5 feet, 1 foot, and 2 feet bgs. Laboratory analytical results for the delineation soil samples indicated that benzene, BTEX, TPH-DRO/TPH-GRO, TPH and chloride concentrations were compliant with the Site Closure Criteria. In addition, delineation soil samples BH01A and BH01B collected at 1 foot and 2 feet bgs were compliant with the most stringent Table 1 Closure Criteria. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly beneath the tear in the liner, COG respectfully requests NFA for Incident Number NAPP2128040988. The final Form C-141 is included in Attachment 5.

If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096.



District I  
Page 4

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Kalei Jennings".

Kalei Jennings  
Associate Consultant

A handwritten signature in black ink that reads "Ashley L. Ager".

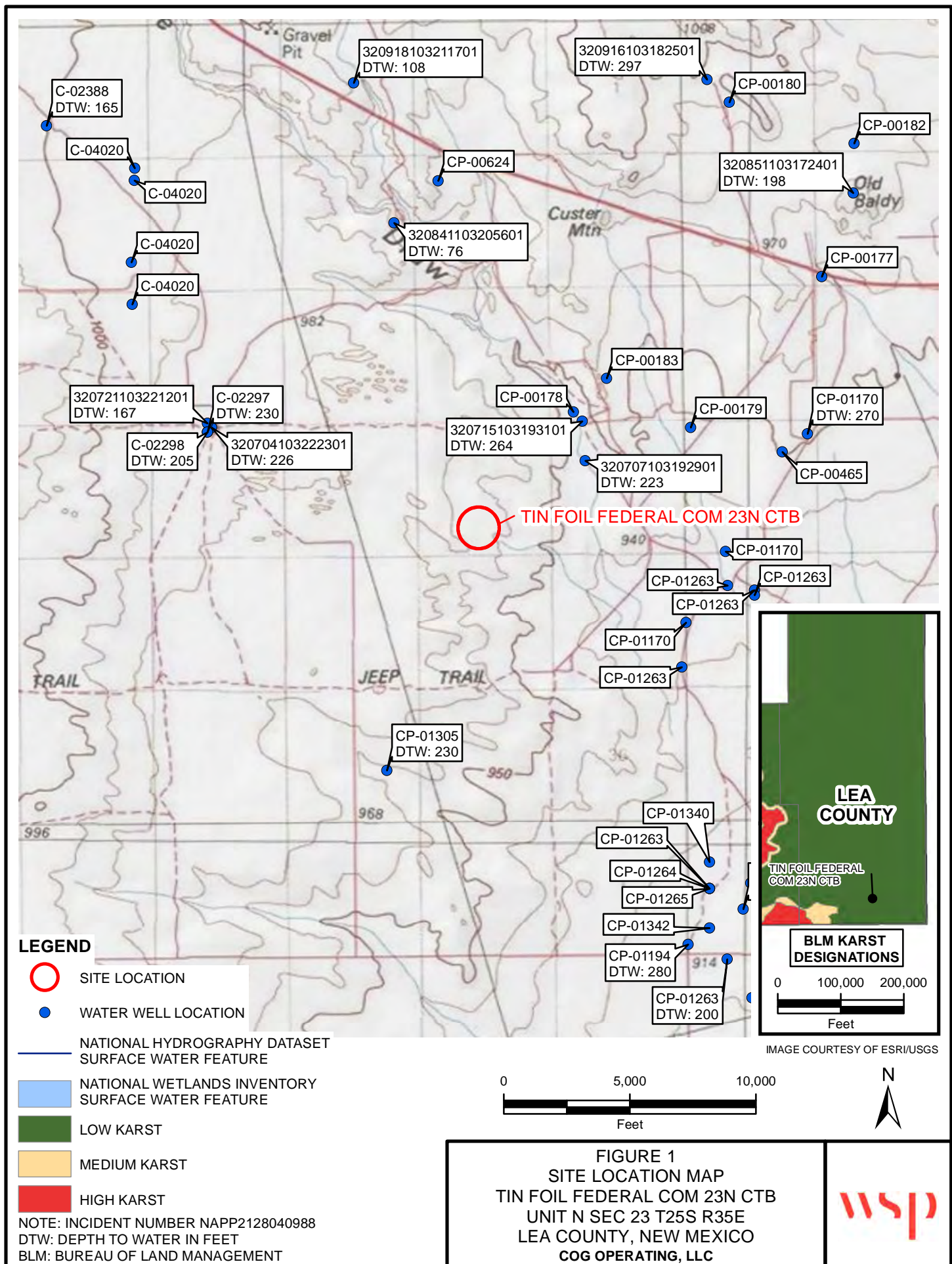
Ashley L. Ager, P.G.  
Managing Director, Geologist

cc: Kelsy Waggaman, COG Operating, LLC  
Bureau of Land Management

Attachments:

Figure 1 Site Location Map  
Figure 2 Delineation Soil Sample Locations  
Table 1 Soil Analytical Results  
Attachment 1 Referenced Well Records  
Attachment 2 Lithologic/Sampling Log  
Attachment 3 Photographic Log  
Attachment 4 Laboratory Analytical Reports  
Attachment 5 Final C-141

FIGURES







**LEGEND**



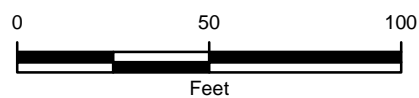
-  DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
-  LINED CONTAINMENT

IMAGE COURTESY OF ESRI



NOTE: INCIDENT NUMBER NAPP2128040988  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 2**  
**DELINEATION SOIL SAMPLE LOCATIONS**  
**TIN FOIL FEDERAL COM 23N CTB**  
**UNIT N SEC 23 T25S R35E**  
**LEA COUNTY, NEW MEXICO**  
**COG OPERATING, LLC**



TABLES



Table 1

Soil Analytical Results  
Tin Foil Federal Com 23N CTB  
Incident Number NAPP2128040988  
COG Operating, LLC  
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
<b>Delineation Samples</b>										
BH01	11/03/2021	0.5	<0.00200	<0.00399	193	<49.9	<49.9	193	193	27.5
BH01A	11/03/2021	1	<0.00199	<0.00398	90.7	<50.0	<50.0	90.7	90.7	18.2
BH01B	11/03/2021	2	<0.00200	<0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	17.0

**Notes**

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

&lt; - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

**BOLD** - indicates results exceed the higher of the background sample result or applicable regulatory standard

ATTACHMENT 1: REFERENCED WELL RECORD



USGS Home  
Contact USGS  
Search USGS

## National Water Information System: Web Interface

USGS Water Resources (Cooperator Access) Data Category: Site Information Geographic Area: United States GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

## USGS 320707103192901 25S.35E.24.11222

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

### Well Site

#### DESCRIPTION:

Latitude 32°07'07", Longitude 103°19'29" NAD27  
Lea County, New Mexico , Hydrologic Unit 13070007  
Well depth: 606 feet  
Land surface altitude: 3,101 feet above NAVD88.  
Well completed in "Other aquifers" (N9999OTHER) national aquifer.  
Well completed in "Santa Rosa Sandstone" (231SNRS) local aquifer

#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1965-10-20	1986-03-19	5
<a href="#">Revisions</a>	Unavailable (site:0) (timeseries:0)		

#### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center  
Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

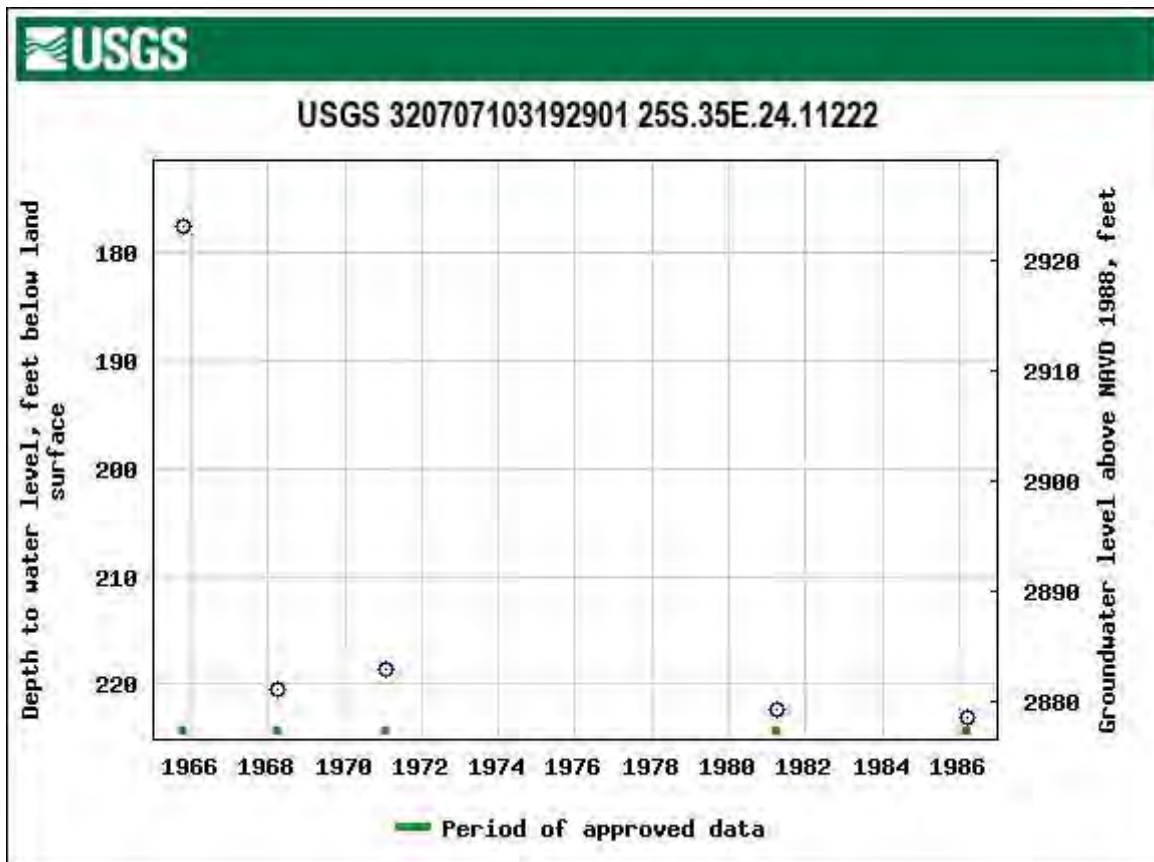
[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

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ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

<p style="margin: 0;">WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>								BH or PH Name: BH01		Date: 11/3/2021	
								Site Name: Tin Foil Federal Com 23N CTB			
								RP or Incident Number: NAPP2128040988			
								WSP Job Number: 31402909.240			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: PB		Method: Hand Auger	
Lat/Long: 32.11152, -103.33891				Field Screening: Chloride, PID				Hole Diameter: 3"		Total Depth: 2'	
Comments:											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
						0					
D	<156.8	1.5	N	BH01	0.5	0.5	SP-SC	SAND, TAN, MED-COARSE GRAIN, SOME CALICHE GRAVEL, POORLY SORTED, SOME SILT, NO STAIN, NO ODOR			
D	<156.8	1.7	N	BH01A	1	1	SP-SC	SAA, BROWN, MED-FINE GRAIN, SOME SILT AND CLAY			
D	<156.8	1.7	N	BH01B	2	2	SP-SC	SAA			
TD @ 2 ft bgs- Refusal											



ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
COG Operating, LLC	Tin Foil Federal Com 23N CTB Lea County, New Mexico	NAPP2128040988




Photo No.	Date	
1	October 18, 2021	
View of hole found in the compromised liner.		 A close-up photograph showing a dark, irregular hole in a light-colored, textured liner. The hole is surrounded by some debris and a small amount of water.

Photo No.	Date	
2	October 18, 2021	
View of hole found in the compromised liner.		 A close-up photograph showing a dark, irregular hole in a light-colored, textured liner. A person's finger is pointing at the hole. The hole is surrounded by some debris and a small amount of water.

**PHOTOGRAPHIC LOG**

<b>COG Operating, LLC</b>	<b>Tin Foil Federal Com 23N CTB Lea County, New Mexico</b>	<b>NAPP2128040988</b>
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<b>Photo No.</b>	<b>Date</b>	
3	November 3, 2021	
View of borehole location inside the liner.		 A photograph showing a close-up view of a borehole location inside a liner. The liner is a dark, textured material. A red bucket is visible on the left. A metal rod with a circular attachment is positioned over the borehole. A person's foot is visible at the bottom of the frame.

<b>Photo No.</b>	<b>Date</b>	
4	November 3, 2021	
View of borehole during delineation activities.		 A photograph showing a view of a borehole during delineation activities. The borehole is located on a concrete surface. A red bucket is visible on the left. A metal rod with a circular attachment is positioned over the borehole. The background shows a construction site with various equipment and materials.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS





## Environment Testing America

### ANALYTICAL REPORT

Eurofins Xenco, Carlsbad  
1089 N Canal St.  
Carlsbad, NM 88220  
Tel: (575)988-3199

Laboratory Job ID: 890-1536-1

Laboratory Sample Delivery Group: 31402909.24  
Client Project/Site: Tin Foil Federal Com 23N CTB

**For:**

WSP USA Inc.  
2777 N. Stemmons Freeway  
Suite 1600  
Dallas, Texas 75207

Attn: Kalei Jennings

A handwritten signature in black ink that reads "Jessica Kramer".

Authorized for release by:  
11/12/2021 6:18:17 PM

Jessica Kramer, Project Manager  
(432)704-5440  
[jessica.kramer@eurofinset.com](mailto:jessica.kramer@eurofinset.com)

#### LINKS

Review your project  
results through  
**TotalAccess**

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Visit us at:

[www.eurofinsus.com/Env](http://www.eurofinsus.com/Env)

*This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.*

*Results relate only to the items tested and the sample(s) as received by the laboratory.*

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Laboratory Job ID: 890-1536-1  
SDG: 31402909.24

# Table of Contents

Cover Page . . . . .	1
Table of Contents . . . . .	2
Definitions/Glossary . . . . .	3
Case Narrative . . . . .	4
Client Sample Results . . . . .	5
Surrogate Summary . . . . .	8
QC Sample Results . . . . .	9
QC Association Summary . . . . .	13
Lab Chronicle . . . . .	15
Certification Summary . . . . .	16
Method Summary . . . . .	17
Sample Summary . . . . .	18
Chain of Custody . . . . .	19
Receipt Checklists . . . . .	21

1

2

3

4

5

6

7

8

9

10

11

12

13

14



## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

---

**Job ID: 890-1536-1**

---

**Laboratory: Eurofins Xenco, Carlsbad****Narrative**

---

**Job Narrative  
890-1536-1****Receipt**

The samples were received on 11/4/2021 8:33 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-11610 and analytical batch 880-11624 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

Method 8015MOD\_NM: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 880-11610 and analytical batch 880-11624 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10

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

**HPLC/IC**

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

Client Sample ID: BH01

Lab Sample ID: 890-1536-1

Date Collected: 11/03/21 13:01

Matrix: Solid

Date Received: 11/04/21 08:33

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/06/21 07:10	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/06/21 07:10	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/06/21 07:10	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/05/21 09:00	11/06/21 07:10	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/06/21 07:10	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/05/21 09:00	11/06/21 07:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	11/05/21 09:00	11/06/21 07:10	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/05/21 09:00	11/06/21 07:10	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/11/21 14:02	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	193		49.9	mg/Kg			11/09/21 16:19	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	49.9	mg/Kg		11/05/21 14:32	11/06/21 18:54	1
Diesel Range Organics (Over C10-C28)	193		49.9	mg/Kg		11/05/21 14:32	11/06/21 18:54	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/05/21 14:32	11/06/21 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130	11/05/21 14:32	11/06/21 18:54	1
o-Terphenyl	116		70 - 130	11/05/21 14:32	11/06/21 18:54	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	27.5		4.98	mg/Kg			11/12/21 12:37	1

Client Sample ID: BH01A

Lab Sample ID: 890-1536-2

Date Collected: 11/03/21 13:06

Matrix: Solid

Date Received: 11/04/21 08:33

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		11/05/21 09:00	11/06/21 07:30	1
Toluene	<0.00199	U	0.00199	mg/Kg		11/05/21 09:00	11/06/21 07:30	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		11/05/21 09:00	11/06/21 07:30	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		11/05/21 09:00	11/06/21 07:30	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		11/05/21 09:00	11/06/21 07:30	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		11/05/21 09:00	11/06/21 07:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/05/21 09:00	11/06/21 07:30	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

## Client Sample ID: BH01A

## Lab Sample ID: 890-1536-2

Date Collected: 11/03/21 13:06

Matrix: Solid

Date Received: 11/04/21 08:33

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	102		70 - 130	11/05/21 09:00	11/06/21 07:30	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			11/11/21 14:02	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	90.7		50.0	mg/Kg			11/09/21 16:19	1

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		11/05/21 14:32	11/06/21 19:15	1
Diesel Range Organics (Over C10-C28)	90.7		50.0	mg/Kg		11/05/21 14:32	11/06/21 19:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/05/21 14:32	11/06/21 19:15	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	114		70 - 130			11/05/21 14:32	11/06/21 19:15	1
o-Terphenyl	129		70 - 130			11/05/21 14:32	11/06/21 19:15	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.2		4.95	mg/Kg			11/12/21 12:44	1

## Client Sample ID: BH01B

## Lab Sample ID: 890-1536-3

Date Collected: 11/03/21 13:12

Matrix: Solid

Date Received: 11/04/21 08:33

Sample Depth: 2

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/06/21 07:51	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/06/21 07:51	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/06/21 07:51	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		11/05/21 09:00	11/06/21 07:51	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/06/21 07:51	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		11/05/21 09:00	11/06/21 07:51	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	11/05/21 09:00	11/06/21 07:51	1
1,4-Difluorobenzene (Surr)	106		70 - 130	11/05/21 09:00	11/06/21 07:51	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			11/11/21 14:02	1

## Method: 8015 NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8	U	49.8	mg/Kg			11/09/21 16:19	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

Client Sample ID: BH01B

Lab Sample ID: 890-1536-3

Date Collected: 11/03/21 13:12

Matrix: Solid

Date Received: 11/04/21 08:33

Sample Depth: 2

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U *1	49.8	mg/Kg		11/05/21 14:32	11/06/21 19:37	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		11/05/21 14:32	11/06/21 19:37	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		11/05/21 14:32	11/06/21 19:37	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130			11/05/21 14:32	11/06/21 19:37	1
o-Terphenyl	104		70 - 130			11/05/21 14:32	11/06/21 19:37	1

## Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.0		5.00	mg/Kg			11/12/21 12:51	1

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
890-1536-1	BH01	105	106
890-1536-2	BH01A	109	102
890-1536-3	BH01B	109	106
890-1539-A-7-B MS	Matrix Spike	120	104
890-1539-A-7-C MSD	Matrix Spike Duplicate	161 S1+	97
LCS 880-11476/1-A	Lab Control Sample	111	96
LCSD 880-11476/2-A	Lab Control Sample Dup	106	104
MB 880-11475/5-A	Method Blank	110	94
MB 880-11476/5-A	Method Blank	128	97
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1531-A-1-C MS	Matrix Spike	99	102
890-1531-A-1-D MSD	Matrix Spike Duplicate	95	92
890-1536-1	BH01	102	116
890-1536-2	BH01A	114	129
890-1536-3	BH01B	92	104
LCS 880-11610/2-A	Lab Control Sample	77	76
LCSD 880-11610/3-A	Lab Control Sample Dup	72	73
MB 880-11610/1-A	Method Blank	99	112
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			



## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

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

Lab Sample ID: MB 880-11475/5-A

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11475

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 12:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 12:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 12:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/05/21 09:00	11/05/21 12:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 12:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/05/21 09:00	11/05/21 12:28	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130	11/05/21 09:00	11/05/21 12:28	1
1,4-Difluorobenzene (Surr)	94		70 - 130	11/05/21 09:00	11/05/21 12:28	1

Lab Sample ID: MB 880-11476/5-A

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11476

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/05/21 09:00	11/05/21 23:59	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/05/21 09:00	11/05/21 23:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130	11/05/21 09:00	11/05/21 23:59	1
1,4-Difluorobenzene (Surr)	97		70 - 130	11/05/21 09:00	11/05/21 23:59	1

Lab Sample ID: LCS 880-11476/1-A

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11476

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08527		mg/Kg		85	70 - 130
Toluene	0.100	0.08281		mg/Kg		83	70 - 130
Ethylbenzene	0.100	0.08441		mg/Kg		84	70 - 130
m-Xylene & p-Xylene	0.200	0.1795		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09450		mg/Kg		94	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	111		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-11476/2-A

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11476

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08953		mg/Kg		90	70 - 130	5	35

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

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

Lab Sample ID: LCSD 880-11476/2-A

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11476

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.08441		mg/Kg		84	70 - 130	2	35
Ethylbenzene	0.100	0.08588		mg/Kg		86	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1787		mg/Kg		89	70 - 130	0	35
o-Xylene	0.100	0.09270		mg/Kg		93	70 - 130	2	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: 890-1539-A-7-C MSD

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11476

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.05908		mg/Kg					
Toluene	0.00650		0.0996	0.05439		mg/Kg					
Ethylbenzene	0.0256		0.0996	0.06062		mg/Kg					
m-Xylene & p-Xylene	0.0846		0.199	0.1316		mg/Kg					
o-Xylene	0.0303		0.0996	0.06455		mg/Kg					

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	161	S1+	70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

Lab Sample ID: 890-1539-A-7-B MS

Matrix: Solid

Analysis Batch: 11515

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	120		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

## Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-11610/1-A

Matrix: Solid

Analysis Batch: 11624

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 11610

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		11/05/21 14:32	11/06/21 12:08	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		11/05/21 14:32	11/06/21 12:08	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		11/05/21 14:32	11/06/21 12:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130	11/05/21 14:32	11/06/21 12:08	1
o-Terphenyl	112		70 - 130	11/05/21 14:32	11/06/21 12:08	1

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 880-11610/2-A

Matrix: Solid

Analysis Batch: 11624

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 11610

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1096		mg/Kg		110		70 - 130		
Diesel Range Organics (Over C10-C28)	1000	834.8		mg/Kg		83		70 - 130		

Lab Sample ID: LCSD 880-11610/3-A

Matrix: Solid

Analysis Batch: 11624

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 11610

Asp Datum 1/2/21												
Analyte				Spike	LCSD	LCSD				%Rec.	RPD	
				Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10				1000	865.6	*1	mg/Kg		87	70 - 130	23	20
Diesel Range Organics (Over C10-C28)				1000	747.6		mg/Kg		75	70 - 130	11	20
Surrogate	LCSD		Limits									
	%Recovery	Qualifier										
1-Chlorooctane	72		70 - 130									
o-Terphenyl	73		70 - 130									

Lab Sample ID: 890-1531-A-1-C MS

Matrix: Solid

Analysis Batch: 11624

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 11610

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	997	1170		mg/Kg		117	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1044		mg/Kg		105	70 - 130		

Lab Sample ID: 890-1531-A-1-D MSD

Matrix: Solid

Analysis Batch: 11624

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11610

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U *1	1000	1283		mg/Kg		128	70 - 130	9	20
Diesel Range Organics (Over C10-C28)	<49.9	U	1000	969.9		mg/Kg		97	70 - 130	7	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	95		70 - 130								

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

## Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 890-1531-A-1-D MSD

Matrix: Solid

Analysis Batch: 11624

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 11610

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
<i>o</i> -Terphenyl	92		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11670/1-A

Matrix: Solid

Analysis Batch: 11952

Client Sample ID: Method Blank

Prep Type: Soluble

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil	Fac
Chloride	<5.00	U	5.00	mg/Kg			11/12/21 08:26		1

Lab Sample ID: LCS 880-11670/2-A

Matrix: Solid

Analysis Batch: 11952

Client Sample ID: Lab Control Sample

Prep Type: Soluble

			Spike	LCS	LCS				%Rec.	
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride			250	248.2		mg/Kg		99	90 - 110	

Lab Sample ID: LCSD 880-11670/3-A

Matrix: Solid

Analysis Batch: 11952

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride			250	249.0		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1533-A-3-H MS

Matrix: Solid

Analysis Batch: 11952

Client Sample ID: Matrix Spike

Prep Type: Soluble

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Chloride	16.7		248	249.3		mg/Kg		94	90 - 110		

Lab Sample ID: 890-1533-A-3-I MSD

Matrix: Solid

Analysis Batch: 11952

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	16.7		248	249.7		mg/Kg		94	90 - 110	0	20

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

## GC VOA

## Prep Batch: 11475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-11475/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 11476

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1536-1	BH01	Total/NA	Solid	5035	
890-1536-2	BH01A	Total/NA	Solid	5035	
890-1536-3	BH01B	Total/NA	Solid	5035	
MB 880-11476/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11476/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11476/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1539-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 11515

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1536-1	BH01	Total/NA	Solid	8021B	11476
890-1536-2	BH01A	Total/NA	Solid	8021B	11476
890-1536-3	BH01B	Total/NA	Solid	8021B	11476
MB 880-11475/5-A	Method Blank	Total/NA	Solid	8021B	11475
MB 880-11476/5-A	Method Blank	Total/NA	Solid	8021B	11476
LCS 880-11476/1-A	Lab Control Sample	Total/NA	Solid	8021B	11476
LCSD 880-11476/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11476
890-1539-A-7-B MS	Matrix Spike	Total/NA	Solid	8021B	
890-1539-A-7-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11476

## Analysis Batch: 12040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1536-1	BH01	Total/NA	Solid	Total BTEX	
890-1536-2	BH01A	Total/NA	Solid	Total BTEX	
890-1536-3	BH01B	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 11610

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1536-1	BH01	Total/NA	Solid	8015NM Prep	
890-1536-2	BH01A	Total/NA	Solid	8015NM Prep	
890-1536-3	BH01B	Total/NA	Solid	8015NM Prep	
MB 880-11610/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11610/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11610/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1531-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1531-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 11624

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1536-1	BH01	Total/NA	Solid	8015B NM	11610
890-1536-2	BH01A	Total/NA	Solid	8015B NM	11610
890-1536-3	BH01B	Total/NA	Solid	8015B NM	11610
MB 880-11610/1-A	Method Blank	Total/NA	Solid	8015B NM	11610
LCS 880-11610/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11610
LCSD 880-11610/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11610

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

## GC Semi VOA (Continued)

## Analysis Batch: 11624 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1531-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	11610
890-1531-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	11610

## Analysis Batch: 11856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1536-1	BH01	Total/NA	Solid	8015 NM	
890-1536-2	BH01A	Total/NA	Solid	8015 NM	
890-1536-3	BH01B	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 11670

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1536-1	BH01	Soluble	Solid	DI Leach	
890-1536-2	BH01A	Soluble	Solid	DI Leach	
890-1536-3	BH01B	Soluble	Solid	DI Leach	
MB 880-11670/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11670/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11670/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1533-A-3-H MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1533-A-3-I MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 11952

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1536-1	BH01	Soluble	Solid	300.0	11670
890-1536-2	BH01A	Soluble	Solid	300.0	11670
890-1536-3	BH01B	Soluble	Solid	300.0	11670
MB 880-11670/1-A	Method Blank	Soluble	Solid	300.0	11670
LCS 880-11670/2-A	Lab Control Sample	Soluble	Solid	300.0	11670
LCSD 880-11670/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11670
890-1533-A-3-H MS	Matrix Spike	Soluble	Solid	300.0	11670
890-1533-A-3-I MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11670

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

Client Sample ID: BH01

Lab Sample ID: 890-1536-1

Date Collected: 11/03/21 13:01

Matrix: Solid

Date Received: 11/04/21 08:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11476	11/05/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 07:10	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11610	11/05/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11624	11/06/21 18:54	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	11670	11/08/21 11:27	CH	XEN MID
Soluble	Analysis	300.0		1			11952	11/12/21 12:37	SC	XEN MID

Client Sample ID: BH01A

Lab Sample ID: 890-1536-2

Date Collected: 11/03/21 13:06

Matrix: Solid

Date Received: 11/04/21 08:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	11476	11/05/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 07:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	11610	11/05/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11624	11/06/21 19:15	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11670	11/08/21 11:27	CH	XEN MID
Soluble	Analysis	300.0		1			11952	11/12/21 12:44	SC	XEN MID

Client Sample ID: BH01B

Lab Sample ID: 890-1536-3

Date Collected: 11/03/21 13:12

Matrix: Solid

Date Received: 11/04/21 08:33

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	11476	11/05/21 09:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11515	11/06/21 07:51	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			12040	11/11/21 14:02	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11856	11/09/21 16:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11610	11/05/21 14:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11624	11/06/21 19:37	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11670	11/08/21 11:27	CH	XEN MID
Soluble	Analysis	300.0		1			11952	11/12/21 12:51	SC	XEN MID

## Laboratory References:

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-21-22	06-30-22

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015 NM		Solid	Total TPH
Total BTEX		Solid	Total BTEX



## Method Summary

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
8015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

XEN MID = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## Sample Summary

Client: WSP USA Inc.  
Project/Site: Tin Foil Federal Com 23N CTB

Job ID: 890-1536-1  
SDG: 31402909.24

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1536-1	BH01	Solid	11/03/21 13:01	11/04/21 08:33	0.5
890-1536-2	BH01A	Solid	11/03/21 13:06	11/04/21 08:33	1
890-1536-3	BH01B	Solid	11/03/21 13:12	11/04/21 08:33	2

1

2

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11

12

13

14



Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 505-3334  
Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296  
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813)111-1111  
Phoenix, AZ (575-392-7550)

## Chain of Custody

**Work Order No.:**

Page \_\_\_\_ of \_\_\_\_

Project Manager:		Kalei Jennings		Bill to: (if different)		Kalei Jennings	
Company Name:		WSP USA		Company Name:		WSP USA	
Address:		3300 North A Street Bldg 1, Unit 222		Address:		3300 North A Street Bldg 1, Unit 222	
City, State ZIP:		Midland, Texas 79705		City, State ZIP:		Midland, Texas 79705	
Phone:		817-683-2503		Email:		kalei.jennings@wsp.com, payton.benner@wsp.com	

Work Order Comments							
<b>Program: UST/PST</b> <input type="checkbox"/> RP <input type="checkbox"/> Growfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/>							
<b>State of Project:</b>							
Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> ST/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>							
Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other:							


[illegible]

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions for service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 <i>[Signature]</i>	<i>[Signature]</i>	11-11-21 4:00	2 <i>[Signature]</i>	<i>[Signature]</i>	11-11-21 05:33
3			4		
5			6		

Eurofins Xenco, Carlsbad

## Chain of Custody Record



## Environment Testing America

1089 N Canal St.  
Carlsbad NM 88220  
Phone 575-988-3199 Fax: 575-988-3199

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1536-1

SDG Number: 31402909.24

Login Number: 1536

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Xenco, Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	False	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1536-1

SDG Number: 31402909.24

Login Number: 1536

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/05/21 01:13 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	4.6/4.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

ATTACHMENT 5: [ADD TITLE]

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

State of New Mexico  
Energy Minerals and Natural  
Resources Department

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

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

Incident ID	NAPP2128040988
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688 - 9057
Contact email	Kelsy.Waggaman@ConocoPhillip.com	Incident # (assigned by OCD)	NAPP2128040988
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

### Location of Release Source

Latitude 32.11152 Longitude -103.33891  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Tin Foil Federal Com 23N CTB	Site Type	Tank Battery
Date Release Discovered	June 9, 2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
N	23	25S	35E	Lea

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

### Nature and Volume of Release

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

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) <b>27</b>	Volume Recovered (bbls) <b>27</b>
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

The release was caused by a broken oil sight glass on horizontal heater.  
The release occurred within the lined facility. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release.



Incident ID	NAPP2128040988
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The volume released was greater than 25 barrels.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Immediate notice was given by Kelsy Waggaman via e-mail June 9, 2021 at 10:56 PM to ocd.enviro@state.nm.us.	

### 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: <b>Brittany N. Esparza</b>	Title: <b>Environmental Technician</b>
Signature: 	Date: <b>10/7/2021</b>
email: <b>Brittany.Esparza@ConocoPhillips.com</b>	Telephone: <b>(432) 221-0398</b>
<b><u>OCD Only</u></b>	
Received by: <b>Ramona Marcus</b>	Date: <b>10/15/2021</b>

## L48 Spill Volume Estimate Form

NAPP2128040988

Page 3 of 4

Received by OCD: 10/14/2021 11:41:21 AM

Facility Name &amp; Number: Tin Foil Fed Com 23N CTB

Asset Area: Delaware East North

Release Discovery Date &amp; Time: 6/9/2021

Release Type: Oil

Provide any known details about the event: Oil sight glass on horizontal heater broke and spilled oil into poly liner. 25 bbls recovered

## Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated Pool Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	210.0	25.0	2.00	4	5250.000	0.042	38.938	0.002	39.019			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Total Volume Release:									39.019			

Released to Imaging: 11/17/2021 10:21:12 AM

**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 56005

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 56005
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	When submitting future reports regarding this release, please submit the calculations used or specific justification for the volumes reported on the initial C-141	11/17/2021

Incident ID	NAPP2128040988
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&gt;100</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 <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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


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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	NAPP2128040988
District RP	
Facility ID	
Application ID	

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

Printed Name: Kelsy Waggaman Title: Environmental CoordinatorSignature:  Date: 12/2/21email: kelsy.waggaman@conocophillips.com Telephone: (505) 577-9071**OCD Only**

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

Incident ID	NAPP2128040988
District RP	
Facility ID	
Application ID	

## Closure


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

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

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

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

Printed Name: Kelsy Waggaman Title: Environmental Coordinator

Signature:  Date: 12/2/21

email: kelsy.waggaman@conocophillips.com Telephone: (505) 577-9071

### OCD Only

Received by: Chad Hensley Date: 01/03/2022

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: 01/03/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

**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 65059

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 65059
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	1/3/2022