State of New Mexico
Oil Conservation Division

Incident ID	nAPP2123242125
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: 11/19/2021

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

OCD Only

Received by: Ramona Marcus Date: 11/19/2021

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: Chad Hensley Date: 12/21/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

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

November 15, 2021

District I
New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, New Mexico 88240

RE: Closure Request
EVGSAU 2801-002
Incident Number NAPP2123242125
Lea County, New Mexico

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of ConocoPhillips Company (Conoco), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the EVGSAU 2801-002 (Site) located in Unit M, Section 28, Township 17 South, Range 35 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following a release of crude oil and produced water at the Site. Based on excavation activities and confirmation soil sample laboratory analytical results, Conoco is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2123242125.

RELEASE BACKGROUND

On July 23, 2021, a ¼-inch tubing pressure gauge broke, resulting in the release of approximately 7 barrels (bbls) of produced water and 1 bbl of crude oil onto the caliche well pad; no fluids were recovered. Conoco reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141). The release was assigned Incident Number NAPP2123242125.

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 between 51 feet to 100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with published depth to groundwater data is United States Geological Survey (USGS) well 324813103275901, located approximately 0.43 miles northwest of the Site. The groundwater well records indicate a depth to water of 72 feet bgs and a total depth of 215 feet bgs. Ground surface elevation at the groundwater well location is 3,961 feet above mean sea level (amsl), which is approximately 5 feet higher in elevation than the Site. The next closest

permitted groundwater well with depth to groundwater data is NMOSE well L-05362, located approximately 0.57 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 80 feet bgs and a total depth of 140 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated referenced well records are included in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an ephemeral pond, located approximately 0.23 miles 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: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES AND ANALYTICAL RESULTS

On September 29, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. Conoco Operations completed initial scaping of the stained soil within the release footprint prior to WSP personnel visiting the Site. WSP personnel collected five preliminary assessment soil samples (SS01 through SS05) within the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of impacted soil. Soil from the preliminary soil samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

Preliminary 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-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for preliminary soil samples SS02, SS03, and SS05 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 and SS04 indicated chloride concentrations exceeded the Closure Criteria. Based on visible staining in the release area, field screening activities, and laboratory analytical results for the preliminary soil samples, excavation activities were warranted.

EXCAVATION ACTIVITIES AND ANALYTICAL RESULTS

On October 13, 2021, WSP personnel returned to the Site to oversee excavation activities as indicated by surficial staining in the release footprint and laboratory analytical results for the preliminary soil samples. Excavation activities were performed using a track hoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a PID and Hach® chloride QuanTab® test strips, respectively. The excavation was completed to a depth of 1-foot bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor samples FS01 through FS09 were collected from the floor of the excavation from a depth of 1-foot bgs. Composite sidewall samples SW01 and SW02 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 1-foot bgs. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation is included in Attachment 2.

The excavation area measured approximately 1,786 square feet. A total of approximately 66 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at the Northern Delaware Basin Landfill located in Jal, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

Laboratory analytical results for excavation sidewall samples SW01 and SW02 and excavation floor samples FS01 through FS09, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 3.

CLOSURE REQUEST

Site assessment and excavation activities were conducted to address the July 23, 2021 release of crude oil and produced water at the Site. Laboratory analytical results for the excavation soil samples, collected from the final excavation extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no further remediation was required. Conoco backfilled the excavation with material purchased locally and recontoured the Site to match pre-existing site conditions.

Depth to groundwater at the Site is estimated to be between 51-100 feet bgs and no other sensitive receptors were identified near the release extent. WSP and Conoco believe these remedial actions are protective of human health, the environment, and groundwater. As such, Conoco respectfully requests no further action for Incident Number NAPP2123242125. The final Form C-141 is included in Attachment 4.

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

Sincerely,

WSP USA Inc.

Kalei Jennings
Associate Consultant

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

cc: Kelsy Waggaman, ConocoPhillips Company
New Mexico State Land Office

Attachments:

Figure 1	Site Location Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Excavation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Photographic Log

Attachment 3 Laboratory Analytical Reports
Attachment 4 Final C-141

FIGURES

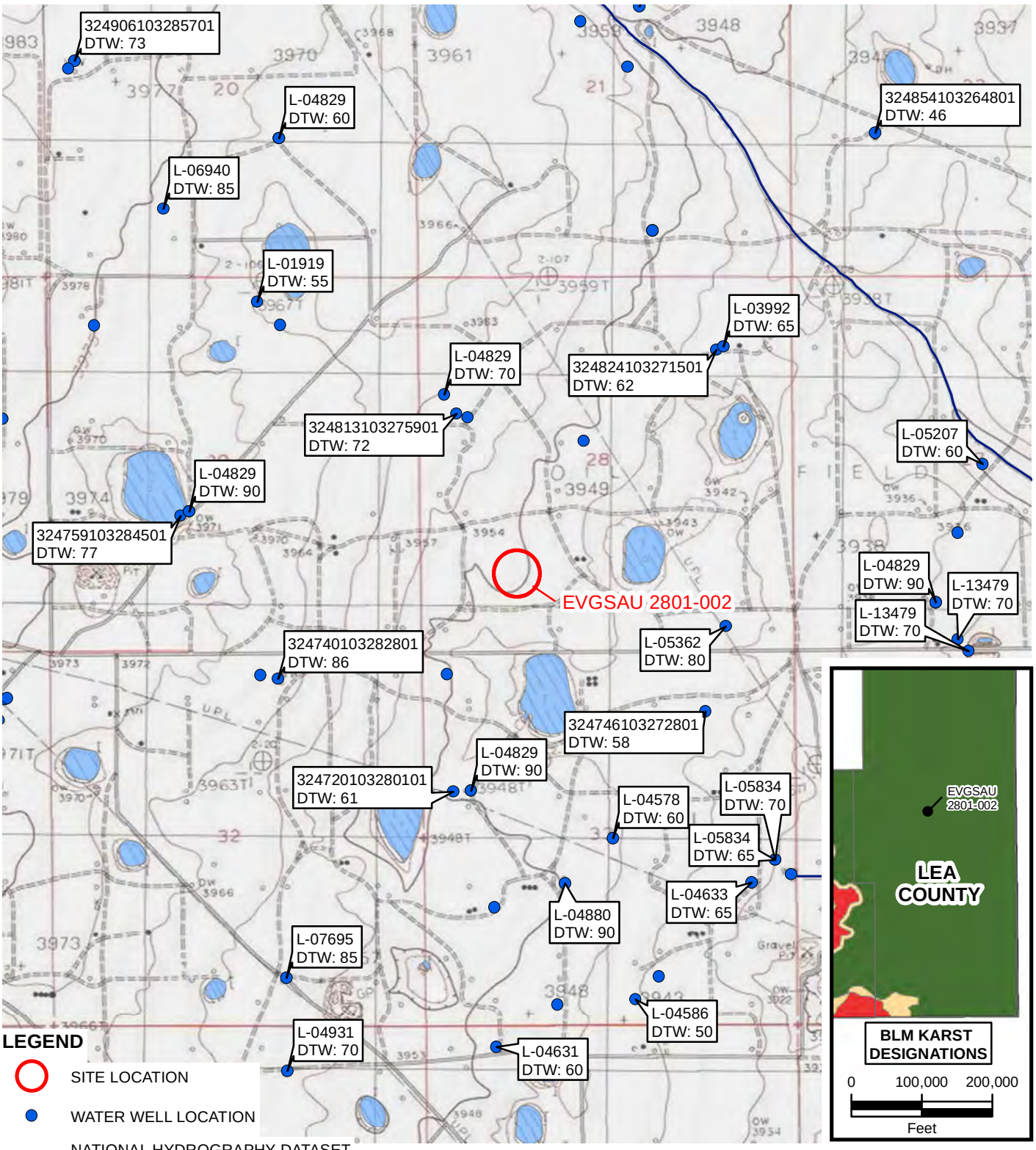
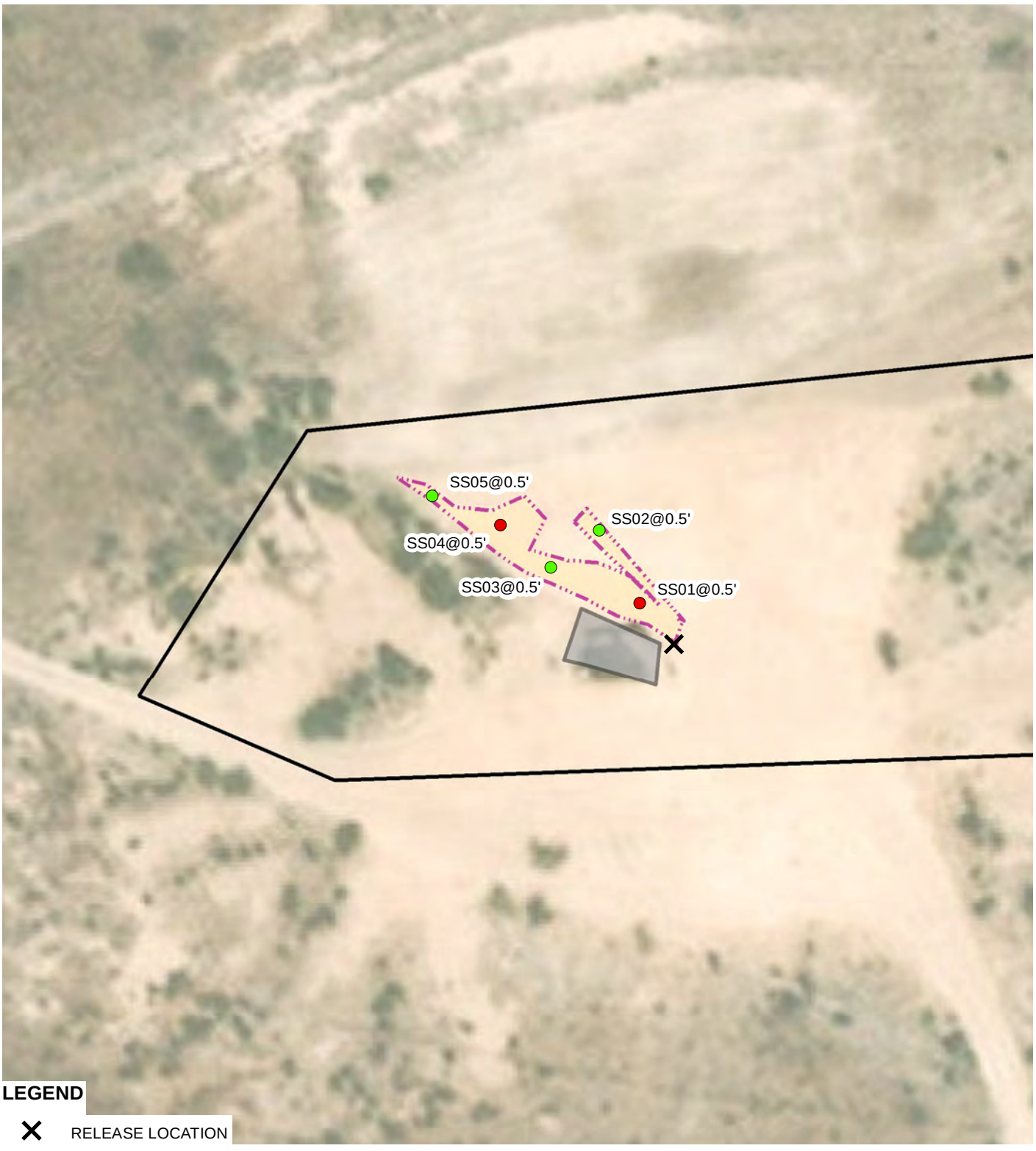


FIGURE 1
SITE LOCATION MAP
EVGSAU 2801-002
UNIT M SEC 28 T17S R35E
LEA COUNTY, NEW MEXICO
CONOCOPHILLIPS COMPANY

P:\Concho Operating\GIS\31402909.190_EVGSAU 2801-002\MXD\31402909.190_FIG01_SL_RECEPTOR_2021.mxd



LEGEND

- RELEASE LOCATION
- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- PRELIMINARY SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- RELEASE EXTENT
- PUMPJACK
- PAD BOUNDARY

NOTE: INCIDENT NUMBER NAPP2123242125
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

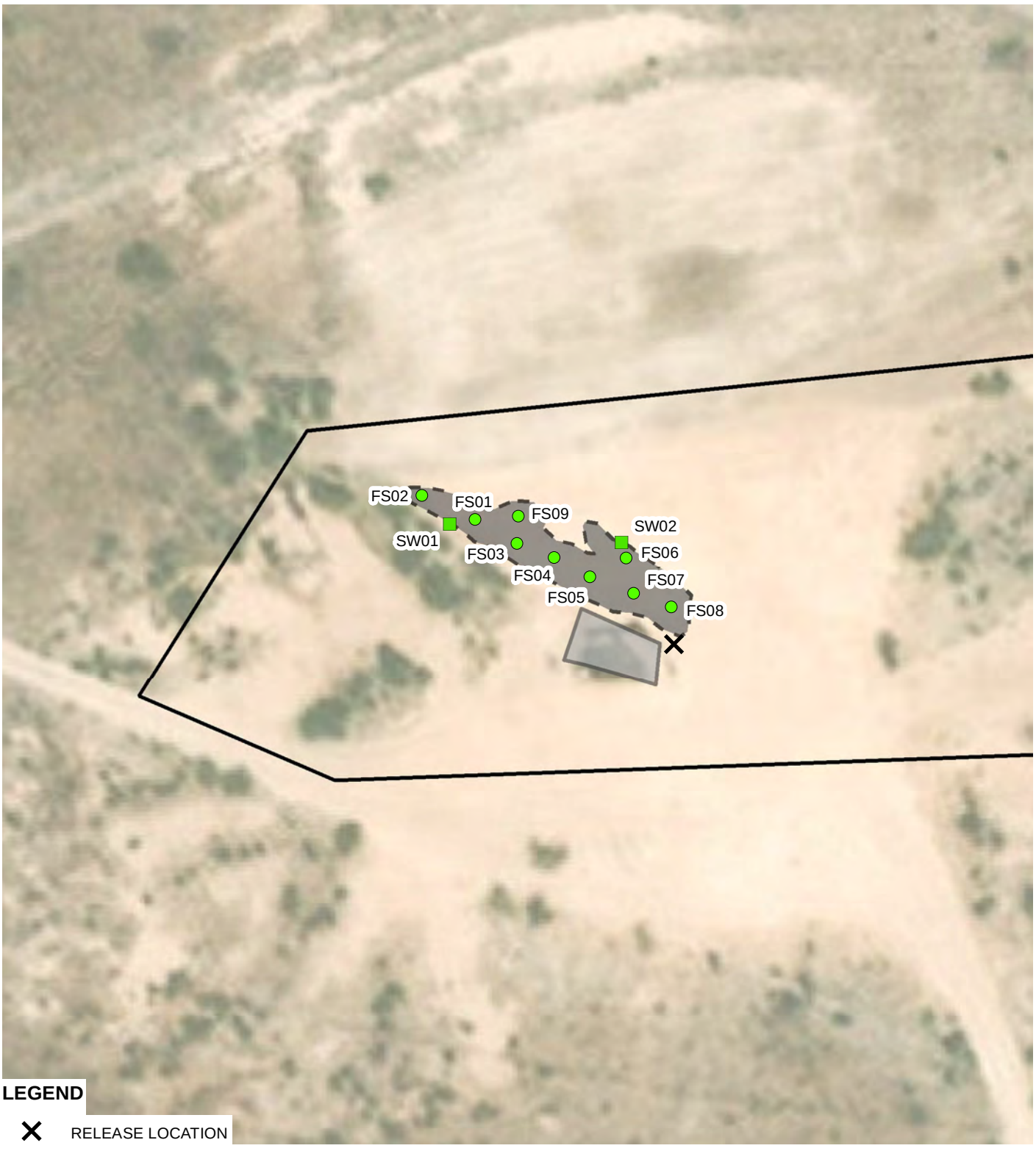
IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
EVGSAU 2801-002
UNIT M SEC 28 T17S R35E
LEA COUNTY, NEW MEXICO
CONOCOPHILLIPS COMPANY

P:\Concho Operating\GIS\31402909.190_EVGSAU 2801-002\MXD\31402909.190_FIG02_PRELIMINARY_2021.mxd



LEGEND

- RELEASE LOCATION
- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- SIDEWALL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- EXCAVATION EXTENT
- PUMPJACK
- PAD BOUNDARY

NOTE: INCIDENT NUMBER NAPP2123242125
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI

0 50 100
Feet

N

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
EVGSAU 2801-002
UNIT M SEC 28 T17S R35E
LEA COUNTY, NEW MEXICO
CONOCOPHILLIPS COMPANY

P:\Concho Operating\GIS\31402909.190_EVGSAU 2801-002\MXD\31402909.190_FIG03_EXCAVATION_2021.mxd

TABLES

Table 1

Soil Analytical Results
EVGSAU 2801-002
Incident Number NAPP2123242125
ConocoPhillips Company
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	10,000
Surface Samples										
SS01	09/29/2021	0.5	<0.00202	<0.00200	<49.8	<49.8	<49.8	<49.8	<50.0	**10,300**
SS02	09/29/2021	0.5	<0.00200	<0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	2,490
SS03	09/29/2021	0.5	<0.00201	<0.00200	336	<50.0	69.4	336	405	6,980
SS04	09/29/2021	0.5	<0.00199	<0.00200	55.3	<49.8	<49.8	55.3	55.3	**10,200**
SS05	09/29/2021	0.5	<0.00201	<0.00200	174	<50.0	<50.0	174	174	711
Excavation Floor Samples										
FS01	10/13/2021	1	<0.00201	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	793
FS02	10/13/2021	1	<0.00200	<0.00400	85.1	<50.0	<50.0	85.1	85.1	938
FS03	10/13/2021	1	<0.00201	<0.00402	49.9	<49.9	<49.9	49.9	49.9	1,210
FS04	10/13/2021	1	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	2,210
FS05	10/13/2021	1	<0.00200	<0.00401	202	<49.9	<49.9	202	202	877
FS06	10/13/2021	1	<0.00199	<0.00398	114	<49.9	<49.9	114	114	740
FS07	10/13/2021	1	<0.00202	<0.00403	64.7	<50.0	<50.0	64.7	64.7	1,650
FS08	10/13/2021	1	<0.00199	<0.00398	533	<250	<250	533	533	3,100
FS09	10/13/2021	1	<0.00200	<0.00399	60.0	<50.0	<50.0	60.0	60.0	1,170
Excavation Sidewall Samples										
SW01	10/13/2021	0-1	<0.00200	<0.00399	78.1	<50.0	<50.0	78.1	78.1	2,150
SW02	10/13/2021	0-1	<0.00201	<0.00402	563	<49.9	108	563	671	2,220

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
< - 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
Text impacted soil was excavated

ATTACHMENT 1: REFERENCED WELL RECORD

Click to hideNews 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 324813103275901 17S.35E.28.131443

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

Latitude 32°48'28", Longitude 103°28'09" NAD27
Lea County, New Mexico , Hydrologic Unit 12080003
Well depth: 215 feet
Land surface altitude: 3,961.00 feet above NGVD29.
Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.
Well completed in "Ogallala Formation" (121OGLL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1981-01-21	1986-04-08	2
Revisions	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

Title: NWIS Site Information for USA: Site Inventory
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324813103275901

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2021-10-20 11:45:32 EDT
0.27 0.25 caww01

Click to hideNews Bulletins

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

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324813103275901

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324813103275901 17S.35E.28.131443

Lea County, New Mexico
Latitude 32°48'28", Longitude 103°28'09" NAD27
Land-surface elevation 3,961.00 feet above NGVD29
The depth of the well is 215 feet below land surface.
This well is completed in the High Plains aquifer (N100HGHPLN) national aquifer.
This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1981-01-21		D	62610		3891.20	NGVD29	1	Z		
1981-01-21		D	62611		3892.68	NAVD88	1	Z		
1981-01-21		D	72019	69.80			1	Z		
1986-04-08		D	62610		3889.31	NGVD29	1	Z		
1986-04-08		D	62611		3890.79	NAVD88	1	Z		
1986-04-08		D	72019	71.69			1	Z		

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929

Section	Code	Description
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Accessibility FOIA Privacy Policies and Notices

U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2021-11-01 15:57:40 EDT
0.35 0.32 nadww02

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 05362 **Subbasin:** L **Cross Reference:** -

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: HUMBLE OIL & REFINING COMPANY

Contact: E S DAVIS

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	502378	72121	1964-04-02	PMT	LOG	L 05362 (T) EXPIRED	T		3	

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 05362		Shallow	3	4	4	28	17S	35E	644444	3630117*	

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

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	L 05362	3	4	4	28	17S	35E	644444	3630117*

Driller License:	46	**Driller Company:**	ABBOTT BROTHERS COMPANY		
Driller Name:	MURRELL ABBOTT				
Drill Start Date:	04/02/1964	**Drill Finish Date:**	04/02/1964	**Plug Date:**	01/15/1965
Log File Date:	04/16/1964	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	140 feet	**Depth Water:**	80 feet

Water Bearing Stratifications:	Top	Bottom	Description
	80	140	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	80	140

***UTM location was derived from PLSS - see Help**

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
ConocoPhillips Company	EVGSAU 2801-002 Lea County, New Mexico	NAPP2123242125

Photo No.	Date
1	July 23, 2021

View of release extent facing northwest.

Photo No.	Date
2	September 29, 2021

Southeastern view of release during initial site assessment activities.

PHOTOGRAPHIC LOG		
ConocoPhillips Company	EVGSAU 2801-002 Lea County, New Mexico	NAPP2123242125

Photo No.	Date
3	October 13, 2021

View of excavation activities facing south.

Photo No.	Date
4	October 13, 2021

View of completed excavation extent facing east.

ATTACHMENT 3: LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1331-1
Laboratory Sample Delivery Group: 31402909.19
Client Project/Site: EVGSAU 2801-002

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/6/2021 3:57:37 PM

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

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: EVGSAU 2801-002

Laboratory Job ID: 890-1331-1
SDG: 31402909.19

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1331-1
Project/Site: EVGSAU 2801-002 SDG: 31402909.19

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
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: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Job ID: 890-1331-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1331-1

Receipt
The samples were received on 9/29/2021 2:15 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8654 and analytical batch 880-8743 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 880-8654 and analytical batch 880-8743 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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

HPLC/IC
Method 300_ORGFM_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-8734 and analytical batch 880-8968 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Client Sample ID: SS01

Date Collected: 09/29/21 10:11
Date Received: 09/29/21 14:15
Sample Depth: 0.5

Lab Sample ID: 890-1331-1

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		09/30/21 11:45	10/03/21 08:31	1
Toluene	<0.00202	U	0.00202		mg/Kg		09/30/21 11:45	10/03/21 08:31	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		09/30/21 11:45	10/03/21 08:31	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		09/30/21 11:45	10/03/21 08:31	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		09/30/21 11:45	10/03/21 08:31	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		09/30/21 11:45	10/03/21 08:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*	*09/30/21 11:45*	*10/03/21 08:31*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*09/30/21 11:45*	*10/03/21 08:31*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/04/21 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			10/04/21 10:33	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	<49.8	U	49.8		mg/Kg		09/30/21 15:11	10/02/21 16:56	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		09/30/21 15:11	10/02/21 16:56	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/30/21 15:11	10/02/21 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*09/30/21 15:11*	*10/02/21 16:56*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/30/21 15:11*	*10/02/21 16:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10300**	**F1**	99.8		mg/Kg			10/06/21 06:27	20

Client Sample ID: SS02

Date Collected: 09/29/21 10:13
Date Received: 09/29/21 14:15
Sample Depth: 0.5

Lab Sample ID: 890-1331-2

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:45	10/03/21 08:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:45	10/03/21 08:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:45	10/03/21 08:59	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/21 11:45	10/03/21 08:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:45	10/03/21 08:59	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/21 11:45	10/03/21 08:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*09/30/21 11:45*	*10/03/21 08:59*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Client Sample ID: SS02

Date Collected: 09/29/21 10:13
Date Received: 09/29/21 14:15
Sample Depth: 0.5

Lab Sample ID: 890-1331-2

Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*09/30/21 11:45*	*10/03/21 08:59*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/04/21 10:33	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	50.0	mg/Kg		09/30/21 15:11	10/02/21 17:17	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		09/30/21 15:11	10/02/21 17:17	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		09/30/21 15:11	10/02/21 17:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*113*		*70 - 130*	*09/30/21 15:11*	*10/02/21 17:17*	*1*
o-Terphenyl	*125*		*70 - 130*	*09/30/21 15:11*	*10/02/21 17:17*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2490**		25.3	mg/Kg			10/06/21 06:48	5

Client Sample ID: SS03

Date Collected: 09/29/21 10:08
Date Received: 09/29/21 14:15
Sample Depth: 0.5

Lab Sample ID: 890-1331-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:45	10/03/21 09:27	1
Toluene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:45	10/03/21 09:27	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:45	10/03/21 09:27	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		09/30/21 11:45	10/03/21 09:27	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		09/30/21 11:45	10/03/21 09:27	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		09/30/21 11:45	10/03/21 09:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*09/30/21 11:45*	*10/03/21 09:27*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*09/30/21 11:45*	*10/03/21 09:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200	mg/Kg			10/04/21 10:14	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**405**		50.0	mg/Kg			10/04/21 10:33	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Client Sample ID: SS03

Lab Sample ID: 890-1331-3
Matrix: Solid
Date Collected: 09/29/21 10:08
Date Received: 09/29/21 14:15
Sample Depth: 0.5

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	50.0		mg/Kg		09/30/21 15:11	10/02/21 17:38	1
Diesel Range Organics (Over C10-C28)	**336**		50.0		mg/Kg		09/30/21 15:11	10/02/21 17:38	1
Oil Range Organics (Over C28-C36)	**69.4**		50.0		mg/Kg		09/30/21 15:11	10/02/21 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*09/30/21 15:11*	*10/02/21 17:38*	*1*
o-Terphenyl	*110*		*70 - 130*	*09/30/21 15:11*	*10/02/21 17:38*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6980**		50.1		mg/Kg			10/06/21 06:55	10

Client Sample ID: SS04

Lab Sample ID: 890-1331-4
Matrix: Solid
Date Collected: 09/29/21 10:04
Date Received: 09/29/21 14:15
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/30/21 11:45	10/03/21 09:55	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/21 11:45	10/03/21 09:55	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/21 11:45	10/03/21 09:55	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/21 11:45	10/03/21 09:55	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/21 11:45	10/03/21 09:55	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/21 11:45	10/03/21 09:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*09/30/21 11:45*	*10/03/21 09:55*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*09/30/21 11:45*	*10/03/21 09:55*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/04/21 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**55.3**		50.0		mg/Kg			10/04/21 10:33	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	<49.8	U	49.8		mg/Kg		09/30/21 15:11	10/02/21 17:59	1
Diesel Range Organics (Over C10-C28)	**55.3**		49.8		mg/Kg		09/30/21 15:11	10/02/21 17:59	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/30/21 15:11	10/02/21 17:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*99*		*70 - 130*	*09/30/21 15:11*	*10/02/21 17:59*	*1*
o-Terphenyl	*107*		*70 - 130*	*09/30/21 15:11*	*10/02/21 17:59*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Client Sample ID: SS04

Lab Sample ID: 890-1331-4
Matrix: Solid
Date Collected: 09/29/21 10:04
Date Received: 09/29/21 14:15
Sample Depth: 0.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10200**		49.7		mg/Kg			10/06/21 07:17	10

Client Sample ID: SS05

Lab Sample ID: 890-1331-5
Matrix: Solid
Date Collected: 09/29/21 10:05
Date Received: 09/29/21 14:15
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		09/30/21 11:45	10/03/21 10:23	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/21 11:45	10/03/21 10:23	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/21 11:45	10/03/21 10:23	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/21 11:45	10/03/21 10:23	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/21 11:45	10/03/21 10:23	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/21 11:45	10/03/21 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*	*09/30/21 11:45*	*10/03/21 10:23*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/30/21 11:45*	*10/03/21 10:23*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00200	U	0.00200		mg/Kg			10/04/21 10:14	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**174**		50.0		mg/Kg			10/04/21 10:33	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	50.0		mg/Kg		09/30/21 15:11	10/02/21 18:20	1
Diesel Range Organics (Over C10-C28)	**174**		50.0		mg/Kg		09/30/21 15:11	10/02/21 18:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/21 15:11	10/02/21 18:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*100*		*70 - 130*	*09/30/21 15:11*	*10/02/21 18:20*	*1*
o-Terphenyl	*109*		*70 - 130*	*09/30/21 15:11*	*10/02/21 18:20*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**711**		4.95		mg/Kg			10/06/21 07:24	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

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)										
890-1324-A-21-E MS	Matrix Spike	104	100										
890-1324-A-21-F MSD	Matrix Spike Duplicate	99	88										
890-1331-1	SS01	125	96										
890-1331-2	SS02	95	100										
890-1331-3	SS03	103	104										
890-1331-4	SS04	99	105										
890-1331-5	SS05	97	94										
LCS 880-8654/1-A	Lab Control Sample	111	93										
LCSD 880-8654/2-A	Lab Control Sample Dup	124	103										
MB 880-8650/5-A	Method Blank	67 S1-	95										
MB 880-8654/5-A	Method Blank	70	94										

Surrogate Legend

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)										
880-6676-A-1-C MS	Matrix Spike	97	93										
880-6676-A-1-D MSD	Matrix Spike Duplicate	100	95										
890-1331-1	SS01	99	109										
890-1331-2	SS02	113	125										
890-1331-3	SS03	102	110										
890-1331-4	SS04	99	107										
890-1331-5	SS05	100	109										
LCS 880-8688/2-A	Lab Control Sample	112	115										
LCSD 880-8688/3-A	Lab Control Sample Dup	109	112										
MB 880-8688/1-A	Method Blank	111	129										

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8650/5-A
Matrix: Solid
Analysis Batch: 8743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8650

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:34	10/02/21 10:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:34	10/02/21 10:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:34	10/02/21 10:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/21 11:34	10/02/21 10:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:34	10/02/21 10:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/21 11:34	10/02/21 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*	*S1-*	*70 - 130*	*09/30/21 11:34*	*10/02/21 10:41*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*09/30/21 11:34*	*10/02/21 10:41*	*1*

Lab Sample ID: MB 880-8654/5-A
Matrix: Solid
Analysis Batch: 8743

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8654

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:45	10/03/21 00:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:45	10/03/21 00:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:45	10/03/21 00:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/21 11:45	10/03/21 00:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:45	10/03/21 00:12	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/21 11:45	10/03/21 00:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*70*		*70 - 130*	*09/30/21 11:45*	*10/03/21 00:12*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*09/30/21 11:45*	*10/03/21 00:12*	*1*

Lab Sample ID: LCS 880-8654/1-A
Matrix: Solid
Analysis Batch: 8743

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8654

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08345		mg/Kg		83	70 - 130		
Toluene			0.100	0.09467		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09116		mg/Kg		91	70 - 130		
m-Xylene & p-Xylene			0.200	0.1965		mg/Kg		98	70 - 130		
o-Xylene			0.100	0.1027		mg/Kg		103	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*
1,4-Difluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: LCSD 880-8654/2-A
Matrix: Solid
Analysis Batch: 8743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8654

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.09421		mg/Kg		94	70 - 130	12	35

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

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

Lab Sample ID: LCSD 880-8654/2-A
Matrix: Solid
Analysis Batch: 8743

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8654

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.1037		mg/Kg		104	70 - 130	9	35
Ethylbenzene			0.100	0.09803		mg/Kg		98	70 - 130	7	35
m-Xylene & p-Xylene			0.200	0.2107		mg/Kg		105	70 - 130	7	35
o-Xylene			0.100	0.1092		mg/Kg		109	70 - 130	6	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-1324-A-21-E MS
Matrix: Solid
Analysis Batch: 8743

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8654

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00198	U F2 F1	0.100	0.003905	F1	mg/Kg		4	70 - 130		
Toluene	<0.00198	U F1	0.100	0.006534	F1	mg/Kg		7	70 - 130		
Ethylbenzene	<0.00198	U F1	0.100	0.008906	F1	mg/Kg		9	70 - 130		
m-Xylene & p-Xylene	<0.00396	U F1	0.201	0.01579	F1	mg/Kg		8	70 - 130		
o-Xylene	<0.00198	U F1	0.100	0.01168	F1	mg/Kg		12	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-1324-A-21-F MSD
Matrix: Solid
Analysis Batch: 8743

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 8654

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U F2 F1	0.0990	0.005958	F2 F1	mg/Kg		6	70 - 130	42	35
Toluene	<0.00198	U F1	0.0990	0.007302	F1	mg/Kg		7	70 - 130	11	35
Ethylbenzene	<0.00198	U F1	0.0990	0.01021	F1	mg/Kg		10	70 - 130	14	35
m-Xylene & p-Xylene	<0.00396	U F1	0.198	0.01777	F1	mg/Kg		9	70 - 130	12	35
o-Xylene	<0.00198	U F1	0.0990	0.01328	F1	mg/Kg		13	70 - 130	13	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*

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

Lab Sample ID: MB 880-8688/1-A
Matrix: Solid
Analysis Batch: 8766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8688

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		09/30/21 15:11	10/02/21 10:10	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

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

Lab Sample ID: MB 880-8688/1-A
Matrix: Solid
Analysis Batch: 8766

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8688

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/30/21 15:11	10/02/21 10:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/21 15:11	10/02/21 10:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*111*		*70 - 130*	*09/30/21 15:11*	*10/02/21 10:10*	*1*
o-Terphenyl	*129*		*70 - 130*	*09/30/21 15:11*	*10/02/21 10:10*	*1*

Lab Sample ID: LCS 880-8688/2-A
Matrix: Solid
Analysis Batch: 8766

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8688

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	898.6		mg/Kg		90	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	1135		mg/Kg		114	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*112*		*70 - 130*
o-Terphenyl	*115*		*70 - 130*

Lab Sample ID: LCSD 880-8688/3-A
Matrix: Solid
Analysis Batch: 8766

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8688

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	912.9		mg/Kg		91	70 - 130	2	20
Diesel Range Organics (Over C10-C28)			1000	1108		mg/Kg		111	70 - 130	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*112*		*70 - 130*

Lab Sample ID: 880-6676-A-1-C MS
Matrix: Solid
Analysis Batch: 8766

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8688

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	997	866.0		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	218		997	926.5		mg/Kg		71	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*93*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

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

Lab Sample ID: 880-6676-A-1-D MSD
Matrix: Solid
Analysis Batch: 8766

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 8688

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	999	903.1		mg/Kg		90	70 - 130	4	20
Diesel Range Organics (Over C10-C28)	218		999	966.2		mg/Kg		75	70 - 130	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*100*		*70 - 130*
o-Terphenyl	*95*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8734/1-A
Matrix: Solid
Analysis Batch: 8968

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/06/21 04:25	1

Lab Sample ID: LCS 880-8734/2-A
Matrix: Solid
Analysis Batch: 8968

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	252.1		mg/Kg		101	90 - 110		

Lab Sample ID: LCSD 880-8734/3-A
Matrix: Solid
Analysis Batch: 8968

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	255.1		mg/Kg		102	90 - 110	1	20

Lab Sample ID: 890-1331-1 MS
Matrix: Solid
Analysis Batch: 8968

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	10300	F1	4990	17280	F1	mg/Kg		140	90 - 110		

Lab Sample ID: 890-1331-1 MSD
Matrix: Solid
Analysis Batch: 8968

Client Sample ID: SS01
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	10300	F1	4990	17260	F1	mg/Kg		140	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

GC VOA

Prep Batch: 8650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8650/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8654

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1331-1	SS01	Total/NA	Solid	5035	
890-1331-2	SS02	Total/NA	Solid	5035	
890-1331-3	SS03	Total/NA	Solid	5035	
890-1331-4	SS04	Total/NA	Solid	5035	
890-1331-5	SS05	Total/NA	Solid	5035	
MB 880-8654/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8654/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8654/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1324-A-21-E MS	Matrix Spike	Total/NA	Solid	5035	
890-1324-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 8743

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1331-1	SS01	Total/NA	Solid	8021B	8654
890-1331-2	SS02	Total/NA	Solid	8021B	8654
890-1331-3	SS03	Total/NA	Solid	8021B	8654
890-1331-4	SS04	Total/NA	Solid	8021B	8654
890-1331-5	SS05	Total/NA	Solid	8021B	8654
MB 880-8650/5-A	Method Blank	Total/NA	Solid	8021B	8650
MB 880-8654/5-A	Method Blank	Total/NA	Solid	8021B	8654
LCS 880-8654/1-A	Lab Control Sample	Total/NA	Solid	8021B	8654
LCSD 880-8654/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8654
890-1324-A-21-E MS	Matrix Spike	Total/NA	Solid	8021B	8654
890-1324-A-21-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8654

Analysis Batch: 8782

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1331-1	SS01	Total/NA	Solid	Total BTEX	
890-1331-2	SS02	Total/NA	Solid	Total BTEX	
890-1331-3	SS03	Total/NA	Solid	Total BTEX	
890-1331-4	SS04	Total/NA	Solid	Total BTEX	
890-1331-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 8688

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1331-1	SS01	Total/NA	Solid	8015NM Prep	
890-1331-2	SS02	Total/NA	Solid	8015NM Prep	
890-1331-3	SS03	Total/NA	Solid	8015NM Prep	
890-1331-4	SS04	Total/NA	Solid	8015NM Prep	
890-1331-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-8688/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8688/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8688/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6676-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6676-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

GC Semi VOA

Analysis Batch: 8766

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1331-1	SS01	Total/NA	Solid	8015B NM	8688
890-1331-2	SS02	Total/NA	Solid	8015B NM	8688
890-1331-3	SS03	Total/NA	Solid	8015B NM	8688
890-1331-4	SS04	Total/NA	Solid	8015B NM	8688
890-1331-5	SS05	Total/NA	Solid	8015B NM	8688
MB 880-8688/1-A	Method Blank	Total/NA	Solid	8015B NM	8688
LCS 880-8688/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8688
LCSD 880-8688/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8688
880-6676-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	8688
880-6676-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8688

Analysis Batch: 8793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1331-1	SS01	Total/NA	Solid	8015 NM	
890-1331-2	SS02	Total/NA	Solid	8015 NM	
890-1331-3	SS03	Total/NA	Solid	8015 NM	
890-1331-4	SS04	Total/NA	Solid	8015 NM	
890-1331-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8734

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1331-1	SS01	Soluble	Solid	DI Leach	
890-1331-2	SS02	Soluble	Solid	DI Leach	
890-1331-3	SS03	Soluble	Solid	DI Leach	
890-1331-4	SS04	Soluble	Solid	DI Leach	
890-1331-5	SS05	Soluble	Solid	DI Leach	
MB 880-8734/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8734/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8734/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1331-1 MS	SS01	Soluble	Solid	DI Leach	
890-1331-1 MSD	SS01	Soluble	Solid	DI Leach	

Analysis Batch: 8968

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1331-1	SS01	Soluble	Solid	300.0	8734
890-1331-2	SS02	Soluble	Solid	300.0	8734
890-1331-3	SS03	Soluble	Solid	300.0	8734
890-1331-4	SS04	Soluble	Solid	300.0	8734
890-1331-5	SS05	Soluble	Solid	300.0	8734
MB 880-8734/1-A	Method Blank	Soluble	Solid	300.0	8734
LCS 880-8734/2-A	Lab Control Sample	Soluble	Solid	300.0	8734
LCSD 880-8734/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8734
890-1331-1 MS	SS01	Soluble	Solid	300.0	8734
890-1331-1 MSD	SS01	Soluble	Solid	300.0	8734

Lab Chronicle

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Client Sample ID: SS01
Date Collected: 09/29/21 10:11
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1331-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 08:31	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8688	09/30/21 15:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8766	10/02/21 16:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		20			8968	10/06/21 06:27	CH	XEN MID

Client Sample ID: SS02
Date Collected: 09/29/21 10:13
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1331-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 08:59	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	8688	09/30/21 15:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8766	10/02/21 17:17	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		5			8968	10/06/21 06:48	CH	XEN MID

Client Sample ID: SS03
Date Collected: 09/29/21 10:08
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1331-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 09:27	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8688	09/30/21 15:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8766	10/02/21 17:38	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		10			8968	10/06/21 06:55	CH	XEN MID

Client Sample ID: SS04
Date Collected: 09/29/21 10:04
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1331-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 09:55	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Client Sample ID: SS04

Date Collected: 09/29/21 10:04
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1331-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8688	09/30/21 15:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8766	10/02/21 17:59	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		10			8968	10/06/21 07:17	CH	XEN MID

Client Sample ID: SS05

Date Collected: 09/29/21 10:05
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1331-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	8654	09/30/21 11:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8743	10/03/21 10:23	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			8782	10/04/21 10:14	MR	XEN MID
Total/NA	Analysis	8015 NM		1			8793	10/04/21 10:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8688	09/30/21 15:11	DM	XEN MID
Total/NA	Analysis	8015B NM		1			8766	10/02/21 18:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8734	10/01/21 12:10	CA	XEN MID
Soluble	Analysis	300.0		1			8968	10/06/21 07:24	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

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: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

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: EVGSAU 2801-002

Job ID: 890-1331-1
SDG: 31402909.19

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1331-1	SS01	Solid	09/29/21 10:11	09/29/21 14:15	0.5
890-1331-2	SS02	Solid	09/29/21 10:13	09/29/21 14:15	0.5
890-1331-3	SS03	Solid	09/29/21 10:08	09/29/21 14:15	0.5
890-1331-4	SS04	Solid	09/29/21 10:04	09/29/21 14:15	0.5
890-1331-5	SS05	Solid	09/29/21 10:05	09/29/21 14:15	0.5

XENCO LABORATORIES

Chain of Custody

Work Order No: ______

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)
www.xenco.com

Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	WSP
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

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

		Turn Around	
Project Name:	EVGSAU 2801-002		
Project Number:	31402909.19	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT

Temp Blank: (Yes) No — Wet Ice: (Yes) No
Temperature (°C): 2.2/2.0 — Thermometer ID: TNM-007
Received Intact: (Yes) No
Cooler Custody Seals: Yes No (N/A) — Correction Factor: -0.2
Sample Custody Seals: Yes No (N/A) — Total Containers:

ANALYSIS REQUEST

Work Order Notes

CC:
AFE:
nAPP2123242125

890-1331 Chain of Custody

TAT starts the day recevied by the lab, if received by 4:30pm

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SS01	S	9/29/2021	10:11	0.5'	1	X	X	X	Discrete
SS02	S	9/29/2021	10:13	0.5'	1	X	X	X	Discrete
SS03	S	9/29/2021	10:08	0.5'	1	X	X	X	Discrete
SS04	S	9/29/2021	10:04	0.5'	1	X	X	X	Discrete
SS05	S	9/29/2021	10:05	0.5'	1	X	X	X	Discrete

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 P Benner	[signature]	9-29-21 1415	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

XENCO LABORATORIES

Chain of Custody

Work Order No: ______

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	WSP
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

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

		Turn Around	
Project Name:	EVGSAU 2801-002	Routine	☒
Project Number:	31402909.19	Rush:	
P.O. Number:			
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT

Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	2.2/2.0	Thermometer ID	TNM-007
Received Intact:	(Yes) No		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2
Sample Custody Seals:	Yes No (N/A)	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SS01	S	9/29/2021	10:11	0.5'	1	X	X	X	Discrete
SS02	S	9/29/2021	10:13	0.5'	1	X	X	X	Discrete
SS03	S	9/29/2021	10:08	0.5'	1	X	X	X	Discrete
SS04	S	9/29/2021	10:04	0.5'	1	X	X	X	Discrete
SS05	S	9/29/2021	10:05	0.5'	1	X	X	X	Discrete

890-1331 Chain of Custody

Work Order Notes

CC:
AFE:
nAPP2123242125

TAT starts the day recevied by the lab, if received by 4:30pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010**: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

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 of 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 P. Benner	[signature]	9-29-21 1415	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

XENCO LABORATORIES

Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334
Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296
Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)

Work Order No: _____

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Project Manager:	Kalei Jennings	Bill to: (if different)	
Company Name:	WSP USA	Company Name:	WSP
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

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ ST/UST ☐ RP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	EVGSAU 2801-002	Turn Around	
Project Number:	31402909.19	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	2.2/2.0	Thermometer ID	TNM-007
Received Intact:	Yes No		
Cooler Custody Seals:	Yes No N/A	Correction Factor:	-0.2
Sample Custody Seals:	Yes No N/A	Total Containers:	

ANALYSIS REQUEST

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)	Sample Comments
SS01	S	9/29/2021	10:11	0.5'	1	X	X	X	Discrete
SS02	S	9/29/2021	10:13	0.5'	1	X	X	X	Discrete
SS03	S	9/29/2021	10:08	0.5'	1	X	X	X	Discrete
SS04	S	9/29/2021	10:04	0.5'	1	X	X	X	Discrete
SS05	S	9/29/2021	10:05	0.5'	1	X	X	X	Discrete

890-1331 Chain of Custody

Work Order Notes

CC:
AFE:
nAPP2123242125

TAT starts the day recevied by the lab, if received by 4:30pm

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn
Circle Method(s) and Metal(s) to be analyzed **TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 J Benner	Chase Cathey	9-29-21 1415	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

Eurofins Xenco, Carlsbad
1089 N Canal St
Carlsbad NM 88220
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-435 1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset com	State of Origin: New Mexico	Page: Page 1 of 1
Company: Eurofins Xenco		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1331-1
Address: 1211 W Florida Ave	Due Date Requested: 10/5/2021			
City: Midland	TAT Requested (days):			
State Zip: TX 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: EVGSAU 2801-002	Project #: 89000048			
Site:	SSOW#:			

Preservation Codes
A HCL; B NaOH; C Zn Acetate; D - Nitric Acid; E NaHSO4; F MeOH; G Amchlor; H Ascorbic Acid; I - Ice; J DI Water; K EDTA; L EDA
M Hexane; N - None; O AsNaO2; P Na2O4S; Q Na2SO3; R Na2S2O3; S - H2SO4; T TSP Dodecahydrate; U Acetone; V MCAA; W pH 4-5; Z other (specify)
Other:

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total Number of containers	Special Instructions/Note.
			Preservation Code:								
SS01 (890-1331-1)	9/29/21	10 11 Mountain		Solid			X	X	X	1	
SS02 (890-1331-2)	9/29/21	10 13 Mountain		Solid			X	X	X	1	
SS03 (890-1331-3)	9/29/21	10 08 Mountain		Solid			X	X	X	1	
SS04 (890-1331-4)	9/29/21	10 04 Mountain		Solid			X	X	X	1	
SS05 (890-1331-5)	9/29/21	10 05 Mountain		Solid			X	X	X	1	

Note: Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.

Possible Hazard Identification
Unconfirmed
Deliverable Requested I II III, IV Other (specify) Primary Deliverable Rank 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* ______ *Months*
Special Instructions/QC Requirements

Empty Kit Relinquished by		Date	Time:	Method of Shipment:	
Relinquished by: Cloe Aff 9·29·21	Date/Time:	Company	Received by: [signature]	Date/Time: 9-30-21	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Custody Seals Intact: Δ Yes Δ No	Custody Seal No		Cooler Temperature(s) °C and Other Remarks 2.2/2.7		

Ver 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1331-1
SDG Number: 31402909.19

Login Number: 1331
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.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1331-1
SDG Number: 31402909.19

Login Number: 1331
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 09/30/21 11:05 AM

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	2.2 / 2.7
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").	True	

ATTACHMENT 4: FINAL 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 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	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)
Cause of Release		

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

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

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

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

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

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

L48 Spill Volume Estimate Form

Facility Name & Number:	[illegible]
Release Discovery Date & Time:	12:04P M. 7/23/21
Release Type:	Oil Mixture
Provide any known details about the event:	1/4 tubing PSI gauge busted causing a leak of production of oil and water to spill. MSO isolated leak by closing 1/4 to valve.5 bbls of fluid was recovered by vac. Truck.

Spill Calculation - Subsurface Spill - Rectangle

Was the release on pad or off pad?	On Pad - 10.5%, Off Pad - 15.12% soil spilled-fluid saturation factor
Has it rained at least a half inch in the last 24 hours?	Yes, On Pad - 8%, Off Pad - 13.57% soil spilled-fluid saturation factor, if No, use factors above.

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Depth (in.)	Soil Spilled-Fluid Saturation	Estimated volume of each area (bbl.)	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	47.0	24.0	1.50	10.50%	25.098	2.635	12.00%	0.316	2.319
Rectangle B					0.000	0.000	0.00%	0.000	0.000
Rectangle C					0.000	0.000	0.00%	0.000	0.000
Rectangle D					0.000	0.000	0.00%	0.000	0.000
Rectangle E					0.000	0.000	0.00%	0.000	0.000
Rectangle F					0.000	0.000		0.000	0.000
Rectangle G					0.000	0.000		0.000	0.000
Rectangle H					0.000	0.000		0.000	0.000
Rectangle I					0.000	0.000		0.000	0.000
Rectangle J					0.000	0.000		0.000	0.000
					Total Volume Release:	2.635		0.316	2.319

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2123242125
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?	51-100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

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

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

☒ 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.

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Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2123242125
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 Coordinator

Signature: Date:

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

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	nAPP2123242125
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: _____

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

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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 65980

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 65980
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	1/4/2022