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

November 5, 2021

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

RE: Closure Request
EVGSAU 0546-119
Incident Number NAPP2129840173
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 0546-119 (Site) located in Unit N, Section 25, Township 25 South, Range 33 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 onto the lease road 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 NAPP2129840173.

RELEASE BACKGROUND

On August 11, 2021, corrosion of a flowline resulted in the release of approximately 2 barrels (bbls) of produced water and 3.6 bbls of crude oil onto the lease road. A vacuum truck was dispatched to remove free-standing fluids; approximately 3 bbls of crude oil 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 NAPP2129840173.

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 51-100 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with depth to groundwater data is NMOSE well L-04829, located approximately 0.06 miles west of the Site. The groundwater well has a reported depth to groundwater of 85 feet bgs and a total depth of 198 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 Emergent Palustrine, located approximately 1,182 feet west 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. WSP personnel collected five preliminary assessment soil samples (SS01 through SS05) within the release extent from a depth of 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 SS01 through SS05 indicated that TPH and/or TPH-GRO/TPH-DRO 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 28, 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.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the 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 FS05 were collected from the floor of the excavation from a depth of approximately 1.5 feet bgs. Due to the shallow depth of the excavation, the floor samples are also representative of the excavation sidewalls. 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 892 square feet. A total of approximately 50 cubic yards of impacted soil were removed during the excavation activities. The impacted soil was transported and properly disposed of at R360 disposal facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.

Laboratory analytical results for excavation floor samples FS01 through FS05, indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and compliant with the most stringent Table 1 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 August 11, 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 Site Closure Criteria and compliant with the most stringent Table 1 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 NAPP2129840173. 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
Bureau of Land Management

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

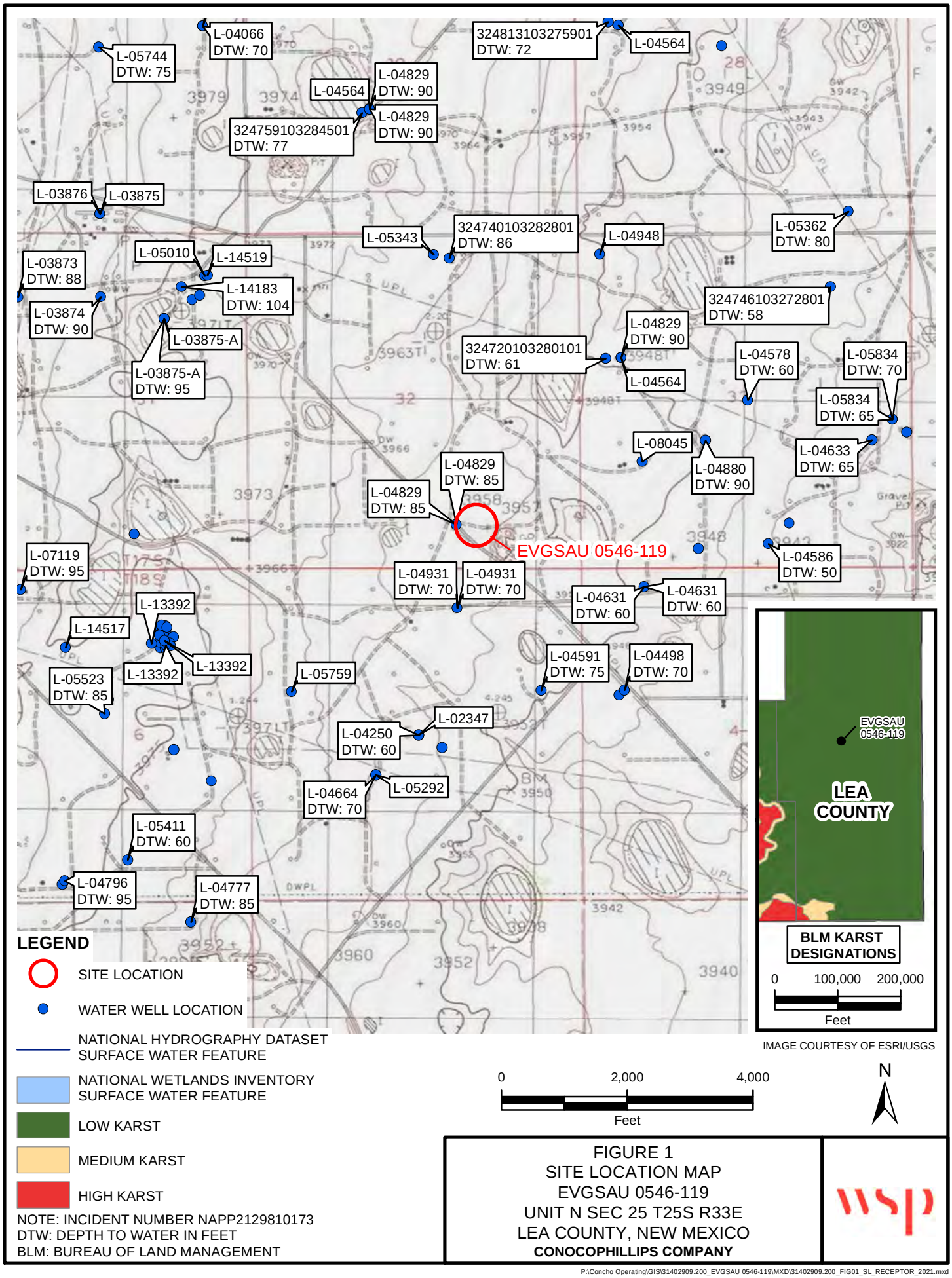


FIGURE 1
SITE LOCATION MAP
EVGSAU 0546-119
UNIT N SEC 25 T25S R33E
LEA COUNTY, NEW MEXICO
CONOCOPHILLIPS COMPANY

P:\Concho Operating\GIS\31402909.200_EVGSAU 0546-119\MXD\31402909.200_FIG01_SL_RECEPTOR_2021.mxd

IMAGE COURTESY OF ESRI

LEGEND

- PRELIMINARY SOIL SAMPLE WITH CONCENTRATIONS EXCEEDING APPLICABLE CLOSURE CRITERIA
- CULVERT PIPES
- RELEASE EXTENT

0 30 60
Feet

N

NOTE: INCIDENT NUMBER NAPP2129810173
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

FIGURE 2
PRELIMINARY SOIL SAMPLE LOCATIONS
EVGSAU 0546-119
UNIT N SEC 25 T25S R33E
LEA COUNTY, NEW MEXICO
CONOCOPHILLIPS COMPANY

P:\Concho Operating\GIS\31402909.200_EVGSAU 0546-119\MXD\31402909.200_FIG02_PRELIMINARY_2021.mxd

IMAGE COURTESY OF ESRI

LEGEND

FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

CULVERT PIPES

EXCAVATION EXTENT

0 30 60

Feet

N

NOTE: INCIDENT NUMBER NAPP2129810173
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)
TEXT: INDICATES SOIL REPRESENTED BY SAMPLE THAT WAS REMOVED

FIGURE 3
EXCAVATION SOIL SAMPLE LOCATIONS
EVGSAU 0546-119
UNIT N SEC 25 T25S R33E
LEA COUNTY, NEW MEXICO
CONOCOPHILLIPS COMPANY

P:\Concho Operating\GIS\31402909.200_EVGSAU 0546-119\MXD\31402909.200_FIG03_EXCAVATION_2021.mxd

TABLES

Table 1

Soil Analytical Results
EVGSAU 0546-119
Incident Number NAPP2129840173
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	<0.00201	<0.00200	4,740	<250	<250	**4,740**	**4,740**	830
SS02	09/29/2021	0.5	<0.00200	<0.00200	16,400	<249	<249	**16,400**	**16,400**	1,260
SS03	09/29/2021	0.5	<0.00200	<0.00200	6,010	<249	<249	**6,010**	**6,010**	3,310
SS04	09/29/2021	0.5	<0.00199	<0.00200	2,230	<250	<250	**2,230**	2,230	6,600
SS05	09/29/2021	0.5	<0.00200	<0.00200	3,010	<250	<250	**3,010**	**3,010**	1,600
Excavation Floor Samples										
FS01	10/28/2021	1.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	268
FS02	10/28/2021	1.5	<0.00198	<0.00396	73.8	<49.9	<49.9	73.8	73.8	236
FS03	10/28/2021	1.5	<0.00200	<0.00400	50.1	<50.0	<50.0	50.1	50.1	342
FS04	10/28/2021	1.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	223
FS05	10/28/2021	1.5	<0.00199	<0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	245

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

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 07695 **Subbasin:** L **Cross Reference:** -

Primary Purpose: SRO SECONDARY RECOVERY OF OIL

Primary Status: PMT PERMIT

Total Acres: 0 **Subfile:** - **Header:** -

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

Owner: PHILLIPS PETROLEUM COMPANY

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	532474	COMB	1979-08-13	PMT	PBU	L-4829, L-7695 & L-7816-COMB	F	0	480	
get images	488415	APPRO	1978-07-24	PMT	PCW	L 07695	T	0	480	

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 04829 S		Shallow		3	4	32	17S	35E	642554	3628586*	

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

Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
05/05/1977	PMT	0	480	L 04829 S	Shallow

Place of Use

Q 256	Q 64	Q16	Q4	Sec	Tws	Rng	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
				04	18S	35E	0	0		SRO	05/05/1977	TRN	SEE PREVIOUS DESCRIPTION FOR TOTAL DIVERSION PERMITTED.
				05	18S	35E	0	0		SRO	05/05/1977	TRN	SEE PREVIOUS DESCRIPTION FOR TOTAL DIVERSION PERMITTED.
				18	17S	35E	0	0		SRO	05/05/1977	TRN	SEE PREVIOUS

										DESCRIPTION FOR TOTAL DIVERSION PERMITTED.
		35	17S	34E	0	0	SRO	05/05/1977	TRN	SEE PREVIOUS DESCRIPTION FOR TOTAL DIVERSION PERMITTED.
	3	18	17S	35E	0	0	SRO	05/05/1977	TRN	SEE PREVIOUS DESCRIPTION FOR TOTAL DIVERSION PERMITTED.
	4	24	17S	34E	0	0	SRO	05/05/1977	TRN	
1	3	05	18S	35E	0	0	SRO	05/05/1977	TRN	SEE PREVIOUS DESCRIPTION FOR TOTAL DIVERSION PERMITTED.

x

Source

Acres	Diversion	CU	Use	Priority	Source	Description
0	0		SRO	05/05/1977	GW	

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 04829 S		3	4	32	17S	35E	642554	3628586*

Driller License: 46 **Driller Company:** ABBOTT BROTHERS COMPANY

Driller Name: MURRELL ABBOTT

Drill Start Date: 05/04/1979 **Drill Finish Date:** 05/14/1979 **Plug Date:**

Log File Date: 06/06/1979 **PCW Rcv Date:** 06/06/1979 **Source:** Shallow

Pump Type: TURBIN **Pipe Discharge Size:** **Estimated Yield:**

Casing Size: 12.75 **Depth Well:** 198 feet **Depth Water:** 85 feet

Water Bearing Stratifications:	Top	Bottom	Description
	85	198	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	115	195

Meter Number: 8632 **Meter Make:** BROKS

Meter Serial Number: 78092085223 **Meter Multiplier:** 10.0000

Number of Dials: 6 **Meter Type:** Diversion

Unit of Measure: Barrels 42 gal. **Return Flow Percent:**

Usage Multiplier: **Reading Frequency:** Quarterly

Meter Readings (in Acre-Feet)

Read Date	Year	Mtr Reading	Flag	Rdr	Comment	Mtr Amount	Online
01/01/2005	2005	0	A	jw		0	
03/31/2005	2005	944409	A	jw		121.728	
08/08/2005	2005	217766	R	jw	Meter Rollover	352.339	
09/30/2005	2005	548362	A	RPT		426.116	

12/31/2005	2005	119382	R	RPT	Meter Rollover	736.006
03/31/2006	2006	248548	A	RPT		166.486

x

**YTD Meter Amounts:	Year	Amount
	2005	1636.189
	2006	166.486

x

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

National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category: Site Information GO | Geographic Area: United States GO

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 324720103280101 17S.35E.33.13321

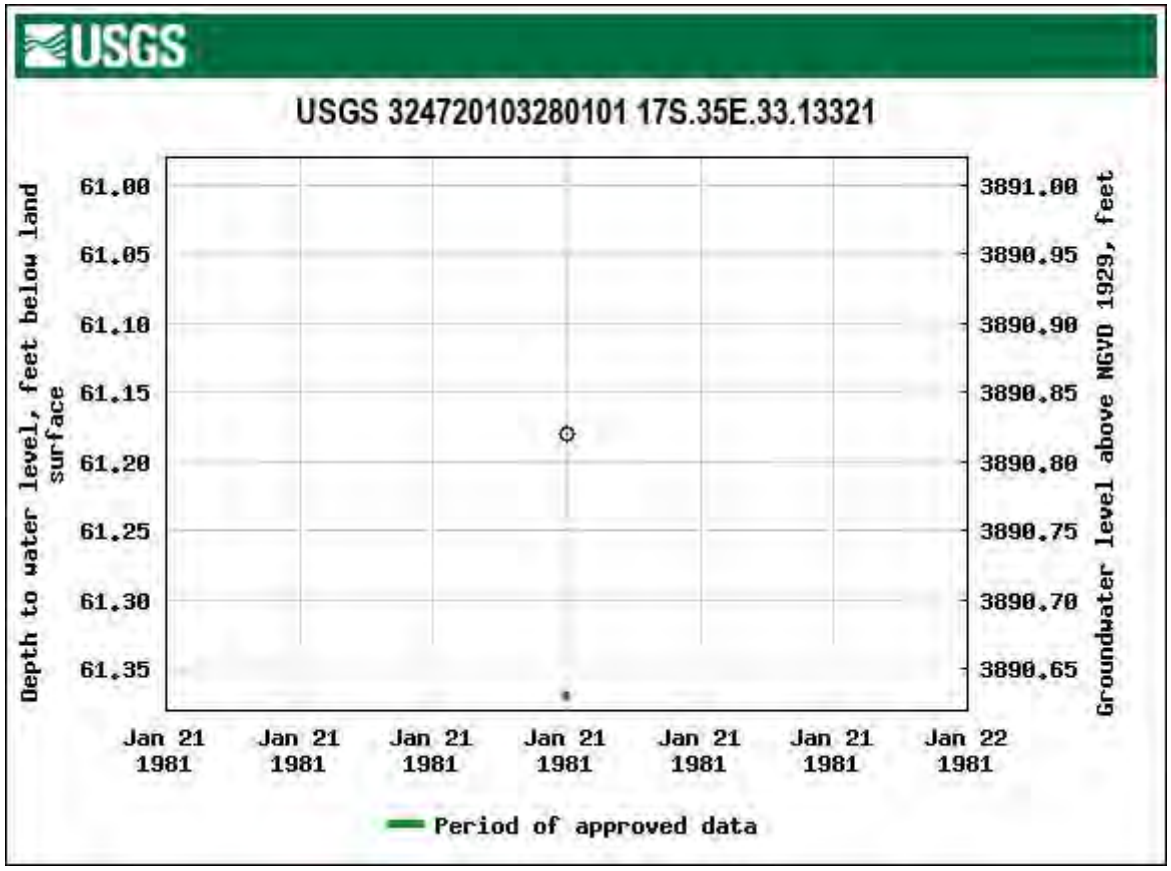
Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:
Latitude 32°47'35", Longitude 103°28'10" NAD27
Lea County, New Mexico , Hydrologic Unit 12080003
Well depth: 220 feet
Land surface altitude: 3,952.00 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	1981-01-21	1
Revisions	Unavailable (site:0) (timeseries:0)		


USGS
USGS 324720103280101 17S.35E.33.13321
Depth to water level, feet below land surface
61.00
61.05
61.10
61.15
61.20
61.25
61.30
61.35
Groundwater level above NGVD 1929, feet
3891.00
3890.95
3890.90
3890.85
3890.80
3890.75
3890.70
3890.65
Jan 21 1981
Jan 21 1981
Jan 21 1981
Jan 21 1981
Jan 21 1981
Jan 21 1981
Jan 22 1981
Period of approved data

ATTACHMENT 2: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
CONOCOPHILLIPS COMPANY	EVGSAU 0546-119 Lea County, New Mexico	NAPP2129840173

Photo No.	Date
1	August 11, 2021

View of release extent facing southeast.

Photo No.	Date
2	August 11, 2021

View of release extent facing northwest.

PHOTOGRAPHIC LOG		
CONOCOPHILLIPS COMPANY	EVGSAU 0546-119 Lea County, New Mexico	NAPP2129840173

Photo No.	Date
3	September 29, 2021

Photo of release extent during initial site assessment.

Photo No.	Date
4	September 29, 2021

Photo of release extent during initial site assessment.

PHOTOGRAPHIC LOG		
CONOCOPHILLIPS COMPANY	EVGSAU 0546-119 Lea County, New Mexico	NAPP2129840173

Photo No.	Date
5	October 29, 2021

East facing photo during excavation activities.

Photo No.	Date
6	October 29, 2021

West facing photo during excavation activities.

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: 890-1332-1
Laboratory Sample Delivery Group: 31402909.19
Client Project/Site: EVGSAU 0546-119

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
10/5/2021 12:02:41 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 0546-119

Laboratory Job ID: 890-1332-1
SDG: 31402909.19

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1332-1
Project/Site: EVGSAU 0546-119 SDG: 31402909.19

Qualifiers

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
S1+	Surrogate recovery exceeds control limits, high 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
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 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Job ID: 890-1332-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1332-1

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.

GC VOA
Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-8658 and 880-8658 and analytical batch 880-8712 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: Surrogate recovery for the following samples were outside control limits: SS03 (890-1332-3) and SS05 (890-1332-5). Evidence of matrix interferences is not obvious.

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
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 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Client Sample ID: SS01

Lab Sample ID: 890-1332-1
Matrix: Solid
Date Collected: 09/29/21 11:47
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 11:52	10/03/21 03:05	1
Toluene	<0.00201	U	0.00201		mg/Kg		09/30/21 11:52	10/03/21 03:05	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		09/30/21 11:52	10/03/21 03:05	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		09/30/21 11:52	10/03/21 03:05	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		09/30/21 11:52	10/03/21 03:05	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		09/30/21 11:52	10/03/21 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*09/30/21 11:52*	*10/03/21 03:05*	*1*
1,4-Difluorobenzene (Surr)	*82*		*70 - 130*	*09/30/21 11:52*	*10/03/21 03:05*	*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 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**4740**		50.0		mg/Kg			10/05/21 10:03	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	<250	U	250		mg/Kg		09/30/21 15:58	10/02/21 03:30	5
Diesel Range Organics (Over C10-C28)	**4740**		250		mg/Kg		09/30/21 15:58	10/02/21 03:30	5
OII Range Organics (Over C28-C36)	<250	U	250		mg/Kg		09/30/21 15:58	10/02/21 03:30	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*09/30/21 15:58*	*10/02/21 03:30*	*5*
o-Terphenyl	*100*		*70 - 130*	*09/30/21 15:58*	*10/02/21 03:30*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**830**		4.98		mg/Kg			10/04/21 22:41	1

Client Sample ID: SS02

Lab Sample ID: 890-1332-2
Matrix: Solid
Date Collected: 09/29/21 11:45
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	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/03/21 03:25	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/03/21 03:25	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/03/21 03:25	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/30/21 11:52	10/03/21 03:25	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/03/21 03:25	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/30/21 11:52	10/03/21 03:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/30/21 11:52*	*10/03/21 03:25*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Client Sample ID: SS02

Lab Sample ID: 890-1332-2
Matrix: Solid
Date Collected: 09/29/21 11:45
Date Received: 09/29/21 14:15
Sample Depth: 0.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*	*09/30/21 11:52*	*10/03/21 03:25*	*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 11:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**16400**		50.0	mg/Kg			10/05/21 10:03	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	<249	U	249	mg/Kg		09/30/21 15:58	10/02/21 03:51	5
Diesel Range Organics (Over C10-C28)	**16400**		249	mg/Kg		09/30/21 15:58	10/02/21 03:51	5
OII Range Organics (Over C28-C36)	<249	U	249	mg/Kg		09/30/21 15:58	10/02/21 03:51	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*101*		*70 - 130*	*09/30/21 15:58*	*10/02/21 03:51*	*5*
o-Terphenyl	*85*		*70 - 130*	*09/30/21 15:58*	*10/02/21 03:51*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1260**		4.95	mg/Kg			10/04/21 22:46	1

Client Sample ID: SS03

Lab Sample ID: 890-1332-3
Matrix: Solid
Date Collected: 09/29/21 11:44
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	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		09/30/21 11:52	10/03/21 03:46	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		09/30/21 11:52	10/03/21 03:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*09/30/21 11:52*	*10/03/21 03:46*	*1*
1,4-Difluorobenzene (Surr)	*81*		*70 - 130*	*09/30/21 11:52*	*10/03/21 03:46*	*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 11:24	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**6010**		50.0	mg/Kg			10/05/21 10:03	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Client Sample ID: SS03

Lab Sample ID: 890-1332-3
Matrix: Solid
Date Collected: 09/29/21 11:44
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	<249	U	249		mg/Kg		09/30/21 15:58	10/02/21 04:12	5
Diesel Range Organics (Over C10-C28)	**6010**		249		mg/Kg		09/30/21 15:58	10/02/21 04:12	5
Oil Range Organics (Over C28-C36)	<249	U	249		mg/Kg		09/30/21 15:58	10/02/21 04:12	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*09/30/21 15:58*	*10/02/21 04:12*	*5*
o-Terphenyl	*96*		*70 - 130*	*09/30/21 15:58*	*10/02/21 04:12*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3310**		25.2		mg/Kg			10/04/21 22:52	5

Client Sample ID: SS04

Lab Sample ID: 890-1332-4
Matrix: Solid
Date Collected: 09/29/21 11:43
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 11:52	10/03/21 04:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/30/21 11:52	10/03/21 04:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/30/21 11:52	10/03/21 04:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/30/21 11:52	10/03/21 04:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/30/21 11:52	10/03/21 04:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/30/21 11:52	10/03/21 04:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*		*70 - 130*	*09/30/21 11:52*	*10/03/21 04:06*	*1*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*	*09/30/21 11:52*	*10/03/21 04:06*	*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 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**2230**		50.0		mg/Kg			10/05/21 10:03	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	<250	U	250		mg/Kg		09/30/21 15:58	10/02/21 04:34	5
Diesel Range Organics (Over C10-C28)	**2230**		250		mg/Kg		09/30/21 15:58	10/02/21 04:34	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		09/30/21 15:58	10/02/21 04:34	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*96*		*70 - 130*	*09/30/21 15:58*	*10/02/21 04:34*	*5*
o-Terphenyl	*104*		*70 - 130*	*09/30/21 15:58*	*10/02/21 04:34*	*5*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Client Sample ID: SS04

Lab Sample ID: 890-1332-4
Matrix: Solid
Date Collected: 09/29/21 11:43
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	**6600**		50.1		mg/Kg			10/04/21 22:57	10

Client Sample ID: SS05

Lab Sample ID: 890-1332-5
Matrix: Solid
Date Collected: 09/29/21 11:42
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	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/03/21 04:26	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/03/21 04:26	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/03/21 04:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/21 11:52	10/03/21 04:26	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/03/21 04:26	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/21 11:52	10/03/21 04:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*131*	*S1+*	*70 - 130*	*09/30/21 11:52*	*10/03/21 04:26*	*1*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*	*09/30/21 11:52*	*10/03/21 04:26*	*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 11:24	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**3010**		50.0		mg/Kg			10/05/21 10:16	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	<250	U	250		mg/Kg		09/30/21 15:58	10/02/21 04:55	5
Diesel Range Organics (Over C10-C28)	**3010**		250		mg/Kg		09/30/21 15:58	10/02/21 04:55	5
Oil Range Organics (Over C28-C36)	<250	U	250		mg/Kg		09/30/21 15:58	10/02/21 04:55	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*102*		*70 - 130*	*09/30/21 15:58*	*10/02/21 04:55*	*5*
o-Terphenyl	*108*		*70 - 130*	*09/30/21 15:58*	*10/02/21 04:55*	*5*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		25.0		mg/Kg			10/04/21 23:03	5

Surrogate Summary

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
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)										
890-1332-1	SS01	114	82										
890-1332-2	SS02	113	83										
890-1332-3	SS03	132 S1+	81										
890-1332-4	SS04	129	71										
890-1332-5	SS05	131 S1+	79										
890-1333-A-41-A MS	Matrix Spike	120	71										
890-1333-A-41-B MSD	Matrix Spike Duplicate	124	83										
LCS 880-8658/1-A	Lab Control Sample	116	80										
LCSD 880-8658/2-A	Lab Control Sample Dup	119	79										
MB 880-8533/5-A	Method Blank	113	73										
MB 880-8658/5-A	Method Blank	121	76										

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)										
890-1332-1	SS01	102	100										
890-1332-2	SS02	101	85										
890-1332-3	SS03	97	96										
890-1332-4	SS04	96	104										
890-1332-5	SS05	102	108										
890-1333-A-41-E MS	Matrix Spike	95	95										
890-1333-A-41-F MSD	Matrix Spike Duplicate	97	94										
LCS 880-8689/2-A	Lab Control Sample	109	108										
LCSD 880-8689/3-A	Lab Control Sample Dup	101	103										
MB 880-8689/1-A	Method Blank	95	108										

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-8533/5-A
Matrix: Solid
Analysis Batch: 8712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8533

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/28/21 13:53	10/02/21 10:24	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/28/21 13:53	10/02/21 10:24	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/28/21 13:53	10/02/21 10:24	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/28/21 13:53	10/02/21 10:24	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*09/28/21 13:53*	*10/02/21 10:24*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*09/28/21 13:53*	*10/02/21 10:24*	*1*

Lab Sample ID: MB 880-8658/5-A
Matrix: Solid
Analysis Batch: 8712

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8658

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/02/21 21:17	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/30/21 11:52	10/02/21 21:17	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/30/21 11:52	10/02/21 21:17	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/30/21 11:52	10/02/21 21:17	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*	*09/30/21 11:52*	*10/02/21 21:17*	*1*
1,4-Difluorobenzene (Surr)	*76*		*70 - 130*	*09/30/21 11:52*	*10/02/21 21:17*	*1*

Lab Sample ID: LCS 880-8658/1-A
Matrix: Solid
Analysis Batch: 8712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8658

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08700		mg/Kg		87	70 - 130		
Toluene			0.100	0.09298		mg/Kg		93	70 - 130		
Ethylbenzene			0.100	0.09750		mg/Kg		98	70 - 130		
m-Xylene & p-Xylene			0.200	0.2025		mg/Kg		101	70 - 130		
o-Xylene			0.100	0.1015		mg/Kg		101	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*
1,4-Difluorobenzene (Surr)	*80*		*70 - 130*

Lab Sample ID: LCSD 880-8658/2-A
Matrix: Solid
Analysis Batch: 8712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8658

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.08720		mg/Kg		87	70 - 130	0	35

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QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

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

Lab Sample ID: LCSD 880-8658/2-A
Matrix: Solid
Analysis Batch: 8712

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8658

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			0.100	0.09169		mg/Kg		92	70 - 130	1	35
Ethylbenzene			0.100	0.09643		mg/Kg		96	70 - 130	1	35
m-Xylene & p-Xylene			0.200	0.2013		mg/Kg		101	70 - 130	1	35
o-Xylene			0.100	0.1018		mg/Kg		102	70 - 130	0	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*79*		*70 - 130*

Lab Sample ID: 890-1333-A-41-A MS
Matrix: Solid
Analysis Batch: 8712

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8658

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene	<0.00199	U F1	0.100	0.06627	F1	mg/Kg		66	70 - 130		
Toluene	<0.00199	U F1	0.100	0.07156		mg/Kg		71	70 - 130		
Ethylbenzene	<0.00199	U	0.100	0.07319		mg/Kg		73	70 - 130		
m-Xylene & p-Xylene	<0.00398	U	0.201	0.1519		mg/Kg		76	70 - 130		
o-Xylene	<0.00199	U	0.100	0.07476		mg/Kg		74	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*
1,4-Difluorobenzene (Surr)	*71*		*70 - 130*

Lab Sample ID: 890-1333-A-41-B MSD
Matrix: Solid
Analysis Batch: 8712

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 8658

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U F1	0.101	0.06653	F1	mg/Kg		66	70 - 130	0	35
Toluene	<0.00199	U F1	0.101	0.06790	F1	mg/Kg		67	70 - 130	5	35
Ethylbenzene	<0.00199	U	0.101	0.07041		mg/Kg		70	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U	0.202	0.1461		mg/Kg		72	70 - 130	4	35
o-Xylene	<0.00199	U	0.101	0.07217		mg/Kg		72	70 - 130	4	35

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*
1,4-Difluorobenzene (Surr)	*83*		*70 - 130*

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

Lab Sample ID: MB 880-8689/1-A
Matrix: Solid
Analysis Batch: 8701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8689

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 15:58	10/01/21 20:00	1

Eurofins Xenco, Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

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

Lab Sample ID: MB 880-8689/1-A
Matrix: Solid
Analysis Batch: 8701

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 8689

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 15:58	10/01/21 20:00	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/30/21 15:58	10/01/21 20:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*95*		*70 - 130*	*09/30/21 15:58*	*10/01/21 20:00*	*1*
o-Terphenyl	*108*		*70 - 130*	*09/30/21 15:58*	*10/01/21 20:00*	*1*

Lab Sample ID: LCS 880-8689/2-A
Matrix: Solid
Analysis Batch: 8701

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 8689

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	859.2		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	978.1		mg/Kg		98	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*109*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: LCSD 880-8689/3-A
Matrix: Solid
Analysis Batch: 8701

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 8689

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	995.5		mg/Kg		100	70 - 130	15	20
Diesel Range Organics (Over C10-C28)			1000	979.4		mg/Kg		98	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*101*		*70 - 130*
o-Terphenyl	*103*		*70 - 130*

Lab Sample ID: 890-1333-A-41-E MS
Matrix: Solid
Analysis Batch: 8701

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 8689

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	865.5		mg/Kg		87	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.8	U	997	857.7		mg/Kg		86	70 - 130		

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

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

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

Lab Sample ID: 890-1333-A-41-F MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 8701 — **Prep Batch: 8689**

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	826.4		mg/Kg		83	70 - 130	5	20
Diesel Range Organics (Over C10-C28)	<49.8	U	999	849.1		mg/Kg		85	70 - 130	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*97*		*70 - 130*
o-Terphenyl	*94*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-8727/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 8849

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			10/04/21 19:51	1

Lab Sample ID: LCS 880-8727/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 8849

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	262.0		mg/Kg		105	90 - 110		

Lab Sample ID: LCSD 880-8727/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 8849

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride			250	261.6		mg/Kg		105	90 - 110	0	20

Lab Sample ID: 890-1330-A-3-F MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 8849

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	37.2		250	303.4		mg/Kg		107	90 - 110		

Lab Sample ID: 890-1330-A-3-G MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Soluble**
Analysis Batch: 8849

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	37.2		250	304.4		mg/Kg		107	90 - 110	0	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

GC VOA

Prep Batch: 8533

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-8533/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 8658

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	5035	
890-1332-2	SS02	Total/NA	Solid	5035	
890-1332-3	SS03	Total/NA	Solid	5035	
890-1332-4	SS04	Total/NA	Solid	5035	
890-1332-5	SS05	Total/NA	Solid	5035	
MB 880-8658/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-8658/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-8658/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1333-A-41-A MS	Matrix Spike	Total/NA	Solid	5035	
890-1333-A-41-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 8712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	8021B	8658
890-1332-2	SS02	Total/NA	Solid	8021B	8658
890-1332-3	SS03	Total/NA	Solid	8021B	8658
890-1332-4	SS04	Total/NA	Solid	8021B	8658
890-1332-5	SS05	Total/NA	Solid	8021B	8658
MB 880-8533/5-A	Method Blank	Total/NA	Solid	8021B	8533
MB 880-8658/5-A	Method Blank	Total/NA	Solid	8021B	8658
LCS 880-8658/1-A	Lab Control Sample	Total/NA	Solid	8021B	8658
LCSD 880-8658/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	8658
890-1333-A-41-A MS	Matrix Spike	Total/NA	Solid	8021B	8658
890-1333-A-41-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	8658

Analysis Batch: 8717

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	Total BTEX	
890-1332-2	SS02	Total/NA	Solid	Total BTEX	
890-1332-3	SS03	Total/NA	Solid	Total BTEX	
890-1332-4	SS04	Total/NA	Solid	Total BTEX	
890-1332-5	SS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 8689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	8015NM Prep	
890-1332-2	SS02	Total/NA	Solid	8015NM Prep	
890-1332-3	SS03	Total/NA	Solid	8015NM Prep	
890-1332-4	SS04	Total/NA	Solid	8015NM Prep	
890-1332-5	SS05	Total/NA	Solid	8015NM Prep	
MB 880-8689/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-8689/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-8689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1333-A-41-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1333-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

GC Semi VOA

Analysis Batch: 8701

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	8015B NM	8689
890-1332-2	SS02	Total/NA	Solid	8015B NM	8689
890-1332-3	SS03	Total/NA	Solid	8015B NM	8689
890-1332-4	SS04	Total/NA	Solid	8015B NM	8689
890-1332-5	SS05	Total/NA	Solid	8015B NM	8689
MB 880-8689/1-A	Method Blank	Total/NA	Solid	8015B NM	8689
LCS 880-8689/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	8689
LCSD 880-8689/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	8689
890-1333-A-41-E MS	Matrix Spike	Total/NA	Solid	8015B NM	8689
890-1333-A-41-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	8689

Analysis Batch: 8889

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Total/NA	Solid	8015 NM	
890-1332-2	SS02	Total/NA	Solid	8015 NM	
890-1332-3	SS03	Total/NA	Solid	8015 NM	
890-1332-4	SS04	Total/NA	Solid	8015 NM	
890-1332-5	SS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 8727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Soluble	Solid	DI Leach	
890-1332-2	SS02	Soluble	Solid	DI Leach	
890-1332-3	SS03	Soluble	Solid	DI Leach	
890-1332-4	SS04	Soluble	Solid	DI Leach	
890-1332-5	SS05	Soluble	Solid	DI Leach	
MB 880-8727/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-8727/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-8727/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1330-A-3-F MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1330-A-3-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 8849

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1332-1	SS01	Soluble	Solid	300.0	8727
890-1332-2	SS02	Soluble	Solid	300.0	8727
890-1332-3	SS03	Soluble	Solid	300.0	8727
890-1332-4	SS04	Soluble	Solid	300.0	8727
890-1332-5	SS05	Soluble	Solid	300.0	8727
MB 880-8727/1-A	Method Blank	Soluble	Solid	300.0	8727
LCS 880-8727/2-A	Lab Control Sample	Soluble	Solid	300.0	8727
LCSD 880-8727/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	8727
890-1330-A-3-F MS	Matrix Spike	Soluble	Solid	300.0	8727
890-1330-A-3-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	8727

Lab Chronicle

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Client Sample ID: SS01

Date Collected: 09/29/21 11:47
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1332-1
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			4.98 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 03:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8889	10/05/21 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 03:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		1			8849	10/04/21 22:41	CH	XEN MID

Client Sample ID: SS02

Date Collected: 09/29/21 11:45
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1332-2
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			4.99 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 03:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8889	10/05/21 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 03:51	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		1			8849	10/04/21 22:46	CH	XEN MID

Client Sample ID: SS03

Date Collected: 09/29/21 11:44
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1332-3
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			5.01 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 03:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8889	10/05/21 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 04:12	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		5			8849	10/04/21 22:52	CH	XEN MID

Client Sample ID: SS04

Date Collected: 09/29/21 11:43
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1332-4
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	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 04:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: EVGSAU 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Client Sample ID: SS04
Date Collected: 09/29/21 11:43
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1332-4
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			8889	10/05/21 10:03	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 04:34	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		10			8849	10/04/21 22:57	CH	XEN MID

Client Sample ID: SS05
Date Collected: 09/29/21 11:42
Date Received: 09/29/21 14:15

Lab Sample ID: 890-1332-5
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			5.00 g	5 mL	8658	09/30/21 11:52	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	8712	10/03/21 04:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			8717	10/04/21 11:24	KL	XEN MID
Total/NA	Analysis	8015 NM		1			8889	10/05/21 10:16	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	8689	09/30/21 15:58	DM	XEN MID
Total/NA	Analysis	8015B NM		5			8701	10/02/21 04:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	8727	10/01/21 11:51	CA	XEN MID
Soluble	Analysis	300.0		5			8849	10/04/21 23:03	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 0546-119

Job ID: 890-1332-1
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 0546-119

Job ID: 890-1332-1
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 0546-119

Job ID: 890-1332-1
SDG: 31402909.19

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1332-1	SS01	Solid	09/29/21 11:47	09/29/21 14:15	0.5
890-1332-2	SS02	Solid	09/29/21 11:45	09/29/21 14:15	0.5
890-1332-3	SS03	Solid	09/29/21 11:44	09/29/21 14:15	0.5
890-1332-4	SS04	Solid	09/29/21 11:43	09/29/21 14:15	0.5
890-1332-5	SS05	Solid	09/29/21 11:42	09/29/21 14:15	0.5

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: _____

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 ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	EVGSAU 0546-119	Turn Around	
Project Number:	31402909.2	Routine	☒
P.O. Number:		Rush:	
Sampler's Name:	Payton Benner	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	Yes No	Wet Ice:	Yes No
Temperature (°C):	2.2/2.6	Thermometer ID	IWM-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

890-1332 Chain of Custody

Work Order Notes

CC:
AFE:
nAPP

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	11:47	0.5'	1	X	X	X	Discrete
SS02	S	9/29/2021	11:45	0.5'	1	X	X	X	Discrete
SS03	S	9/29/2021	11:44	0.5'	1	X	X	X	Discrete
SS04	S	9/29/2021	11:43	0.5'	1	X	X	X	Discrete
SS05	S	9/29/2021	11:42	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

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 PBenner	Cue Cruz	9-29-21 1415	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

Work Order No: _____

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)

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:

Project Name:	EVGSAU 0546-119	Turn Around	
Project Number:	31402909.2	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	IWM-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	11:47	0.5'	1	X	X	X	Discrete
SS02	S	9/29/2021	11:45	0.5'	1	X	X	X	Discrete
SS03	S	9/29/2021	11:44	0.5'	1	X	X	X	Discrete
SS04	S	9/29/2021	11:43	0.5'	1	X	X	X	Discrete
SS05	S	9/29/2021	11:42	0.5'	1	X	X	X	Discrete

890-1332 Chain of Custody

Work Order Notes

CC:
AFE:
nAPP

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	P Benner	Cue Cruz	9-29-21 1415	2		
3				4		
5				6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

Work Order No: _____

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)

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:

Project Name:	EVGSAU 0546-119	Turn Around	
Project Number:	31402909.2	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	IWM-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

890-1332 Chain of Custody

Work Order Notes

CC:
AFE:
nAPP

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	11:47	0.5'	1	X	X	X	Discrete
SS02	S	9/29/2021	11:45	0.5'	1	X	X	X	Discrete
SS03	S	9/29/2021	11:44	0.5'	1	X	X	X	Discrete
SS04	S	9/29/2021	11:43	0.5'	1	X	X	X	Discrete
SS05	S	9/29/2021	11:42	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

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Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1 PBenner	Cue Cuf	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 #: 890-1332-1
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 0546-119	Project #: 89000048			
Site	SSOW#:			

Analysis Requested

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:

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 (890-1332-1)	9/29/21	11 47 Mountain		Solid			X	X	X	1	
SS02 (890-1332-2)	9/29/21	11 45 Mountain		Solid			X	X	X	1	
SS03 (890-1332-3)	9/29/21	11 44 Mountain		Solid			X	X	X	1	
SS04 (890-1332-4)	9/29/21	11 43 Mountain		Solid			X	X	X	1	
SS05 (890-1332-5)	9/29/21	11 42 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	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month): ☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements.

Empty Kit Relinquished by:	Date	Time	Method of Shipment:

Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company
Chris Hall 9.29.21			Katina Dutta	9-30-21 11:00am	
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 12.7

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1332-1
SDG Number: 31402909.19

Login Number: 1332
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: 890-1332-1
SDG Number: 31402909.19

Login Number: 1332
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Xenco, Midland
List Creation: 09/30/21 11:04 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	

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1500-1
Laboratory Sample Delivery Group: 31402909.200
Client Project/Site: EVGS AV 0546-119

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
11/1/2021 4:07:18 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: EVGS AV 0546-119

Laboratory Job ID: 890-1500-1
SDG: 31402909.200

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1500-1
Project/Site: EVGS AV 0546-119 SDG: 31402909.200

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: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Job ID: 890-1500-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-1500-1

Receipt
The samples were received on 10/29/2021 10:16 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.8°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 880-11020 and analytical batch 880-11036 recovered outside control limits for the following analytes: Diesel Range Organics (Over C10-C28)

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: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Client Sample ID: FS01

Lab Sample ID: 890-1500-1
Matrix: Solid
Date Collected: 10/28/21 12:30
Date Received: 10/29/21 10:16
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 13:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 13:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 13:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		11/01/21 08:33	11/01/21 13:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 13:47	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		11/01/21 08:33	11/01/21 13:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*	*11/01/21 08:33*	*11/01/21 13:47*	*1*
1,4-Difluorobenzene (Surr)	*96*		*70 - 130*	*11/01/21 08:33*	*11/01/21 13:47*	*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			11/01/21 14:01	1

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

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			11/01/21 12:32	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	49.9		mg/Kg		11/01/21 08:30	11/01/21 12:30	1
Diesel Range Organics (Over C10-C28)	<49.9	U *1	49.9		mg/Kg		11/01/21 08:30	11/01/21 12:30	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		11/01/21 08:30	11/01/21 12:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*78*		*70 - 130*	*11/01/21 08:30*	*11/01/21 12:30*	*1*
o-Terphenyl	*89*		*70 - 130*	*11/01/21 08:30*	*11/01/21 12:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**268**		4.95		mg/Kg			11/01/21 15:05	1

Client Sample ID: FS02

Lab Sample ID: 890-1500-2
Matrix: Solid
Date Collected: 10/28/21 13:30
Date Received: 10/29/21 10:16
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		11/01/21 08:33	11/01/21 14:07	1
Toluene	<0.00198	U	0.00198		mg/Kg		11/01/21 08:33	11/01/21 14:07	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		11/01/21 08:33	11/01/21 14:07	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		11/01/21 08:33	11/01/21 14:07	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		11/01/21 08:33	11/01/21 14:07	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		11/01/21 08:33	11/01/21 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*	*11/01/21 08:33*	*11/01/21 14:07*	*1*

Eurofins Xenco, Carlsbad

Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Client Sample ID: FS02

Lab Sample ID: 890-1500-2
Matrix: Solid
Date Collected: 10/28/21 13:30
Date Received: 10/29/21 10:16
Sample Depth: 1.5

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/01/21 08:33*	*11/01/21 14:07*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			11/01/21 14:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**73.8**		49.9	mg/Kg			11/01/21 12:32	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	49.9	mg/Kg		11/01/21 08:30	11/01/21 13:30	1
Diesel Range Organics (Over C10-C28)	**73.8**	***1**	49.9	mg/Kg		11/01/21 08:30	11/01/21 13:30	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		11/01/21 08:30	11/01/21 13:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*79*		*70 - 130*	*11/01/21 08:30*	*11/01/21 13:30*	*1*
o-Terphenyl	*92*		*70 - 130*	*11/01/21 08:30*	*11/01/21 13:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**236**		4.99	mg/Kg			11/01/21 15:11	1

Client Sample ID: FS03

Lab Sample ID: 890-1500-3
Matrix: Solid
Date Collected: 10/28/21 14:00
Date Received: 10/29/21 10:16
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
Toluene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		11/01/21 08:33	11/01/21 14:27	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		11/01/21 08:33	11/01/21 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*132*	*S1+*	*70 - 130*	*11/01/21 08:33*	*11/01/21 14:27*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*11/01/21 08:33*	*11/01/21 14:27*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			11/01/21 14:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	**50.1**		50.0	mg/Kg			11/01/21 12:32	1

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Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Client Sample ID: FS03

Lab Sample ID: 890-1500-3
Matrix: Solid
Date Collected: 10/28/21 14:00
Date Received: 10/29/21 10:16
Sample Depth: 1.5

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		11/01/21 08:30	11/01/21 13:50	1
Diesel Range Organics (Over C10-C28)	**50.1**	***1**	50.0		mg/Kg		11/01/21 08:30	11/01/21 13:50	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/21 08:30	11/01/21 13:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*11/01/21 08:30*	*11/01/21 13:50*	*1*
o-Terphenyl	*97*		*70 - 130*	*11/01/21 08:30*	*11/01/21 13:50*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**342**		5.04		mg/Kg			11/01/21 15:17	1

Client Sample ID: FS04

Lab Sample ID: 890-1500-4
Matrix: Solid
Date Collected: 10/28/21 15:00
Date Received: 10/29/21 10:16
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 08:33	11/01/21 14:48	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 08:33	11/01/21 14:48	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 08:33	11/01/21 14:48	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 08:33	11/01/21 14:48	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 08:33	11/01/21 14:48	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 08:33	11/01/21 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*	*11/01/21 08:33*	*11/01/21 14:48*	*1*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*	*11/01/21 08:33*	*11/01/21 14:48*	*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			11/01/21 14:01	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			11/01/21 12:32	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		11/01/21 08:30	11/01/21 14:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U *1	50.0		mg/Kg		11/01/21 08:30	11/01/21 14:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/21 08:30	11/01/21 14:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*72*		*70 - 130*	*11/01/21 08:30*	*11/01/21 14:11*	*1*
o-Terphenyl	*78*		*70 - 130*	*11/01/21 08:30*	*11/01/21 14:11*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Client Sample ID: FS04

Lab Sample ID: 890-1500-4
Matrix: Solid
Date Collected: 10/28/21 15:00
Date Received: 10/29/21 10:16
Sample Depth: 1.5

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	223		5.00		mg/Kg			11/01/21 15:23	1

Client Sample ID: FS05

Lab Sample ID: 890-1500-5
Matrix: Solid
Date Collected: 10/28/21 15:30
Date Received: 10/29/21 10:16
Sample Depth: 1.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		11/01/21 08:33	11/01/21 15:08	1
Toluene	<0.00199	U	0.00199		mg/Kg		11/01/21 08:33	11/01/21 15:08	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		11/01/21 08:33	11/01/21 15:08	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		11/01/21 08:33	11/01/21 15:08	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		11/01/21 08:33	11/01/21 15:08	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		11/01/21 08:33	11/01/21 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*11/01/21 08:33*	*11/01/21 15:08*	*1*
1,4-Difluorobenzene (Surr)	*73*		*70 - 130*	*11/01/21 08:33*	*11/01/21 15:08*	*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			11/01/21 14:01	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			11/01/21 12:32	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		11/01/21 08:30	11/01/21 14:31	1
Diesel Range Organics (Over C10-C28)	<49.8	U *1	49.8		mg/Kg		11/01/21 08:30	11/01/21 14:31	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		11/01/21 08:30	11/01/21 14:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*71*		*70 - 130*	*11/01/21 08:30*	*11/01/21 14:31*	*1*
o-Terphenyl	*80*		*70 - 130*	*11/01/21 08:30*	*11/01/21 14:31*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	245		5.00		mg/Kg			11/01/21 15:29	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1498-A-1-A MS	Matrix Spike	117	99
890-1498-A-1-B MSD	Matrix Spike Duplicate	119	103
890-1500-1	FS01	111	96
890-1500-2	FS02	113	100
890-1500-3	FS03	132 S1+	95
890-1500-4	FS04	122	100
890-1500-5	FS05	120	73
LCS 880-11021/1-A	Lab Control Sample	121	103
LCSD 880-11021/2-A	Lab Control Sample Dup	110	100
MB 880-11021/5-A	Method Blank	106	101

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)	
		1CO1	OTPH1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-1500-1	FS01	78	89
890-1500-1 MS	FS01	79	74
890-1500-1 MSD	FS01	94	90
890-1500-2	FS02	79	92
890-1500-3	FS03	84	97
890-1500-4	FS04	72	78
890-1500-5	FS05	71	80
LCS 880-11020/2-A	Lab Control Sample	86	84
LCSD 880-11020/3-A	Lab Control Sample Dup	110	108
MB 880-11020/1-A	Method Blank	104	129

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-11021/5-A
Matrix: Solid
Analysis Batch: 11022

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11021

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		11/01/21 08:33	11/01/21 12:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		11/01/21 08:33	11/01/21 12:08	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*11/01/21 08:33*	*11/01/21 12:08*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*11/01/21 08:33*	*11/01/21 12:08*	*1*

Lab Sample ID: LCS 880-11021/1-A
Matrix: Solid
Analysis Batch: 11022

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11021

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.08284		mg/Kg		83	70 - 130		
Toluene			0.100	0.08405		mg/Kg		84	70 - 130		
Ethylbenzene			0.100	0.08962		mg/Kg		90	70 - 130		
m-Xylene & p-Xylene			0.200	0.1923		mg/Kg		96	70 - 130		
o-Xylene			0.100	0.09704		mg/Kg		97	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 880-11021/2-A
Matrix: Solid
Analysis Batch: 11022

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11021

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.07647		mg/Kg		76	70 - 130	8	35
Toluene			0.100	0.07398		mg/Kg		74	70 - 130	13	35
Ethylbenzene			0.100	0.07944		mg/Kg		79	70 - 130	12	35
m-Xylene & p-Xylene			0.200	0.1712		mg/Kg		86	70 - 130	12	35
o-Xylene			0.100	0.08722		mg/Kg		87	70 - 130	11	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: 890-1498-A-1-B MSD
Matrix: Solid
Analysis Batch: 11022

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 11021

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.0998	0.07206		mg/Kg					
Toluene	<0.00199	U	0.0998	0.07077		mg/Kg					

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QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

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

Lab Sample ID: 890-1498-A-1-B MSD
Matrix: Solid
Analysis Batch: 11022

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 11021

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00199	U	0.0998	0.07668		mg/Kg					
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1630		mg/Kg					
o-Xylene	<0.00199	U	0.0998	0.08213		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*
1,4-Difluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: 890-1498-A-1-A MS
Matrix: Solid
Analysis Batch: 11022

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

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*
1,4-Difluorobenzene (Surr)	*99*		*70 - 130*

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

Lab Sample ID: MB 880-11020/1-A
Matrix: Solid
Analysis Batch: 11036

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 11020

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		11/01/21 08:30	11/01/21 11:29	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		11/01/21 08:30	11/01/21 11:29	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		11/01/21 08:30	11/01/21 11:29	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*104*		*70 - 130*	*11/01/21 08:30*	*11/01/21 11:29*	*1*
o-Terphenyl	*129*		*70 - 130*	*11/01/21 08:30*	*11/01/21 11:29*	*1*

Lab Sample ID: LCS 880-11020/2-A
Matrix: Solid
Analysis Batch: 11036

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 11020

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	743.3		mg/Kg		74	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	735.4		mg/Kg		74	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*86*		*70 - 130*
o-Terphenyl	*84*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

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

Lab Sample ID: LCSD 880-11020/3-A
Matrix: Solid
Analysis Batch: 11036

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 11020

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	910.8		mg/Kg		91	70 - 130	20	20
Diesel Range Organics (Over C10-C28)			1000	970.3	*1	mg/Kg		97	70 - 130	28	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 890-1500-1 MS
Matrix: Solid
Analysis Batch: 11036

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 11020

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	900.2		mg/Kg		86	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U *1	997	744.6		mg/Kg		70	70 - 130		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*79*		*70 - 130*
o-Terphenyl	*74*		*70 - 130*

Lab Sample ID: 890-1500-1 MSD
Matrix: Solid
Analysis Batch: 11036

Client Sample ID: FS01
Prep Type: Total/NA
Prep Batch: 11020

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	<49.9	U	1000	929.1		mg/Kg		89	70 - 130	3	20
Diesel Range Organics (Over C10-C28)	<49.9	U *1	1000	908.9		mg/Kg		86	70 - 130	20	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*94*		*70 - 130*
o-Terphenyl	*90*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-11038/1-A
Matrix: Solid
Analysis Batch: 11110

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			11/01/21 12:38	1

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QC Sample Results

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-11038/2-A
Matrix: Solid
Analysis Batch: 11110

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	240.3		mg/Kg		96	90 - 110		

Lab Sample ID: LCSD 880-11038/3-A
Matrix: Solid
Analysis Batch: 11110

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	236.8		mg/Kg		95	90 - 110	1	20

Lab Sample ID: 890-1499-A-9-E MS
Matrix: Solid
Analysis Batch: 11110

Client Sample ID: Matrix Spike
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	155		249	416.2		mg/Kg		105	90 - 110		

Lab Sample ID: 890-1499-A-9-F MSD
Matrix: Solid
Analysis Batch: 11110

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	155		249	409.1		mg/Kg		102	90 - 110	2	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

GC VOA

Prep Batch: 11021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	5035	
890-1500-2	FS02	Total/NA	Solid	5035	
890-1500-3	FS03	Total/NA	Solid	5035	
890-1500-4	FS04	Total/NA	Solid	5035	
890-1500-5	FS05	Total/NA	Solid	5035	
MB 880-11021/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-11021/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-11021/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1498-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 11022

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	8021B	11021
890-1500-2	FS02	Total/NA	Solid	8021B	11021
890-1500-3	FS03	Total/NA	Solid	8021B	11021
890-1500-4	FS04	Total/NA	Solid	8021B	11021
890-1500-5	FS05	Total/NA	Solid	8021B	11021
MB 880-11021/5-A	Method Blank	Total/NA	Solid	8021B	11021
LCS 880-11021/1-A	Lab Control Sample	Total/NA	Solid	8021B	11021
LCSD 880-11021/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	11021
890-1498-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1498-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	11021

Analysis Batch: 11149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	Total BTEX	
890-1500-2	FS02	Total/NA	Solid	Total BTEX	
890-1500-3	FS03	Total/NA	Solid	Total BTEX	
890-1500-4	FS04	Total/NA	Solid	Total BTEX	
890-1500-5	FS05	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 11020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	8015NM Prep	
890-1500-2	FS02	Total/NA	Solid	8015NM Prep	
890-1500-3	FS03	Total/NA	Solid	8015NM Prep	
890-1500-4	FS04	Total/NA	Solid	8015NM Prep	
890-1500-5	FS05	Total/NA	Solid	8015NM Prep	
MB 880-11020/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-11020/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-11020/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1500-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-1500-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 11036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	8015B NM	11020
890-1500-2	FS02	Total/NA	Solid	8015B NM	11020
890-1500-3	FS03	Total/NA	Solid	8015B NM	11020

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1500-1
Project/Site: EVGS AV 0546-119 SDG: 31402909.200

GC Semi VOA (Continued)

Analysis Batch: 11036 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-4	FS04	Total/NA	Solid	8015B NM	11020
890-1500-5	FS05	Total/NA	Solid	8015B NM	11020
MB 880-11020/1-A	Method Blank	Total/NA	Solid	8015B NM	11020
LCS 880-11020/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	11020
LCSD 880-11020/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	11020
890-1500-1 MS	FS01	Total/NA	Solid	8015B NM	11020
890-1500-1 MSD	FS01	Total/NA	Solid	8015B NM	11020

Analysis Batch: 11118

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Total/NA	Solid	8015 NM	
890-1500-2	FS02	Total/NA	Solid	8015 NM	
890-1500-3	FS03	Total/NA	Solid	8015 NM	
890-1500-4	FS04	Total/NA	Solid	8015 NM	
890-1500-5	FS05	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 11038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Soluble	Solid	DI Leach	
890-1500-2	FS02	Soluble	Solid	DI Leach	
890-1500-3	FS03	Soluble	Solid	DI Leach	
890-1500-4	FS04	Soluble	Solid	DI Leach	
890-1500-5	FS05	Soluble	Solid	DI Leach	
MB 880-11038/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-11038/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-11038/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1499-A-9-E MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1499-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 11110

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1500-1	FS01	Soluble	Solid	300.0	11038
890-1500-2	FS02	Soluble	Solid	300.0	11038
890-1500-3	FS03	Soluble	Solid	300.0	11038
890-1500-4	FS04	Soluble	Solid	300.0	11038
890-1500-5	FS05	Soluble	Solid	300.0	11038
MB 880-11038/1-A	Method Blank	Soluble	Solid	300.0	11038
LCS 880-11038/2-A	Lab Control Sample	Soluble	Solid	300.0	11038
LCSD 880-11038/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	11038
890-1499-A-9-E MS	Matrix Spike	Soluble	Solid	300.0	11038
890-1499-A-9-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	11038

Lab Chronicle

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Client Sample ID: FS01

Lab Sample ID: 890-1500-1

Date Collected: 10/28/21 12:30

Matrix: Solid

Date Received: 10/29/21 10:16

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	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 13:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 12:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:05	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 890-1500-2

Date Collected: 10/28/21 13:30

Matrix: Solid

Date Received: 10/29/21 10:16

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 14:07	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 13:30	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:11	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 890-1500-3

Date Collected: 10/28/21 14:00

Matrix: Solid

Date Received: 10/29/21 10:16

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	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 14:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 13:50	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:17	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 890-1500-4

Date Collected: 10/28/21 15:00

Matrix: Solid

Date Received: 10/29/21 10:16

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	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 14:48	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID

Eurofins Xenco, Carlsbad

Lab Chronicle

Client: WSP USA Inc.
Project/Site: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Client Sample ID: FS04

Date Collected: 10/28/21 15:00
Date Received: 10/29/21 10:16

Lab Sample ID: 890-1500-4

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			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 14:11	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:23	CH	XEN MID

Client Sample ID: FS05

Date Collected: 10/28/21 15:30
Date Received: 10/29/21 10:16

Lab Sample ID: 890-1500-5

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			5.03 g	5 mL	11021	11/01/21 08:33	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	11022	11/01/21 15:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			11149	11/01/21 14:01	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			11118	11/01/21 12:32	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	11020	11/01/21 08:30	DM	XEN MID
Total/NA	Analysis	8015B NM		1			11036	11/01/21 14:31	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	11038	11/01/21 09:55	CH	XEN MID
Soluble	Analysis	300.0		1			11110	11/01/21 15:29	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. Job ID: 890-1500-1
Project/Site: EVGS AV 0546-119 SDG: 31402909.200

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: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

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: EVGS AV 0546-119

Job ID: 890-1500-1
SDG: 31402909.200

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1500-1	FS01	Solid	10/28/21 12:30	10/29/21 10:16	1.5
890-1500-2	FS02	Solid	10/28/21 13:30	10/29/21 10:16	1.5
890-1500-3	FS03	Solid	10/28/21 14:00	10/29/21 10:16	1.5
890-1500-4	FS04	Solid	10/28/21 15:00	10/29/21 10:16	1.5
890-1500-5	FS05	Solid	10/28/21 15:30	10/29/21 10:16	1.5

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: _____

www.xenco.com Page 1 of 1

Project Manager:	Kalei Jennings	Bill to: (if different)	Kalei Jennings
Company Name:	WSP	Company Name:	WSP
Address:	3300 North A Street	Address:	3300 North A Street
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Midland, TX 79705
Phone:	432.236.3849	Email:	ben.belill@wsp.com; kalei.jennings@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:	EVGSAV 0546-119	Turn Around	
Project Number:	31402909.200	Routine ☐	
P.O. Number:	NAPPL2298401 73	Rush: 24 HR	
Sampler's Name:	Benjamin Belill	Due Date:	

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Temperature (°C):	20/1.8	Thermometer ID	TVM_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

890-1500 Chain of Custody

Work Order Notes

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

Sample Comments

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 0=8021)	Chloride (EPA 300.0)
FS01	S	10/28/21	1230	1.5'	1	X	X	X
FS02			1330	1.5'				
FS03			1400	1.5'				
FS04			1500	1.5'				
FS05			1530	1.5'				

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	Cline Cap 10.29.21 1016	10/29/21 1015	2		
3			4		
5			6		

Revised Date 051418 Rev 2018 1

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1500-1
SDG Number: 31402909.200

Login Number: 1500
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: 890-1500-1
SDG Number: 31402909.200

Login Number: 1500
List Number: 2
Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland
List Creation: 11/01/21 08:46 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	2.6/2.7
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").	N/A	

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	NAPP2129840173
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	ConocoPhillips	OGRID	
Contact Name	Kelsy Waggaman	Contact Telephone	432-688-9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # *(assigned by OCD)*	NAPP2129840173
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

Location of Release Source

Latitude 32.09663 Longitude -103.52670

(NAD 83 in decimal degrees to 5 decimal places)

Site Name	EVGSAU 0546-119	Site Type	Flowline
Date Release Discovered	August 11, 2021	API# *(if applicable)*	

Unit Letter	Section	Township	Range	County
N	25	25S	33E	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)

☒ Crude Oil	Volume Released (bbls) 3.6	Volume Recovered (bbls) 3
☒ Produced Water	Volume Released (bbls) 2	Volume Recovered (bbls) 0
	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

The release was caused by a flowline failure due to corrosion.
The release was on the lease road. A vacuum truck was dispatched to remove all freestanding fluids. Concho will evaluate the site to determine if we may commence remediation immediately or delineate any possible impact from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation activities.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2129840173
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: Brittany N. Esparza Title: Environmental Technician

Signature: Brittany Esparza Date: 10/25/2021

email: Brittany.Esparza@ConocoPhillips.com Telephone: (432) 221-0398

OCD Only

Received by: Ramona Marcus Date: 11/01/2021

L48 Spill Volume Estimate Form

Facility Name & Number:	EVGSAU 0546-119 NAPP2129840173
Asset Area:	SENM (Buckeye)
Release Discovery Date & Time:	8/11/2021
Release Type:	Oil Mixture
Provide any known details about the event:	Flowline leaks

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	40.0	12.0	1.50	15.20%	10.680	1.623	25.00%	0.406	1.218
Rectangle B	15.0	9.0	0.50	15.20%	1.001	0.152	25.00%	0.038	0.114
Rectangle C	12.0	6.0	0.50	15.20%	0.534	0.081	25.00%	0.020	0.061
Rectangle D	63.0	9.0	0.50	15.20%	4.205	0.639	25.00%	0.160	0.479
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:	2.496		0.624	1.872

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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

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 57652
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	11/1/2021

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2129840173
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.

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2129840173
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: 11/8/21

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

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NAPP2129840173
District RP	
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Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Kelsy Waggaman Title: Environmental Coordinator

Signature: Kelsy Waggaman Date: 11/8/21

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

OCD Only

Received by: Chad Hensley Date: 12/08/2021

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: 12/08/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

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

CONDITIONS

Action 61107

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 61107
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/8/2021