

Incident ID	NAPP2130844927
District RP	
Facility ID	
Application ID	

## Closure


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

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

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

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

Printed Name: Kelsy Waggaman Title: Environmental Engineer


Signature:  Date: 12/20/2021

email: kelsy.waggaman@conocophillips.com Telephone: (432) 668-9057

### OCD Only

Received by: Chad Hensley Date: 01/18/2022

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

Closure Approved by:  Date: 01/18/2022

Printed Name: Chad Hensley Title: Environmental Specialist Advanced



WSP USA

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

December 20, 2021

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

**RE: Closure Request  
Jazz Bass 34 Federal 003H  
Incident Number NAPP2130844927  
Lea County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of COG Operating, LLC (COG), presents the following Closure Request detailing site assessment and soil sampling activities at the Jazz Bass 34 Federal 003H (Site) in Unit O, Section 34, Township 25 South, Range 35 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of crude oil and produced water within lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, COG is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2130844927.

## **RELEASE BACKGROUND**

On October 21, 2021, a release was caused by a corrosion hole in a fire tube. Approximately 15 barrels (bbls) of crude oil and 5 bbls of produced water were released into the lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover free-standing fluids; all 20 bbls of the released fluids were recovered from within the lined containment. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) and submitted a Release Notification Form C-141 on October 25, 2021. The release was assigned Incident Number NAPP2130844927. A 48-hour advance notice of liner inspection was provided via email on November 3, 2021 to the NMOCD District I office. A liner integrity inspection was conducted by WSP personnel on November 8, 2021 following the fluid recovery and upon inspection, the liner was determined to be insufficient.

## **SITE CHARACTERIZATION**

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



to groundwater data is New Mexico Office of the State Engineer (NMOSE) well CP-01305-POD1, located approximately 0.28 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 230 feet bgs and a total depth of 420 feet bgs. Ground surface elevation at the groundwater well location is 3,142 feet amsl, which is approximately 27 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 4,945 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

## **CLOSURE CRITERIA**

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

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

## **SITE ASSESSMENT ACTIVITIES**

On November 24, 2021, WSP personnel visited the Site to evaluate the release and conduct site assessment activities. WSP personnel advanced one borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. Two soil samples (BH01 and BH01A) were collected from the borehole at depths of approximately 0.5 feet and 4 feet bgs. Soil from the borehole was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log, which is included as Attachment 2. The borehole was backfilled with the soil removed and a COG contractor repaired the tear in the liner. The borehole delineation soil sample location is depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 3.

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

## **SOIL ANALYTICAL RESULTS**

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

## **CLOSURE REQUEST**

Following the failed liner integrity inspection at the Site, WSP personnel advanced one borehole, (BH01), within the lined containment to assess for the presence or absence of soil impacts resulting from the October 21, 2021 crude oil and produced water release within the lined containment. Two delineation soil samples were collected from borehole BH01, at depths of approximately 0.5 feet and 4 feet bgs. Laboratory analytical results for the delineation soil samples indicated that benzene, BTEX, TPH-DRO/TPH-GRO, TPH and chloride concentrations were compliant with the Closure Criteria. In addition, all delineation soil samples were compliant with the most stringent Table 1 Closure Criteria. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly beneath the tear in the liner, COG respectfully requests NFA for Incident Number NAPP2130844927. The final Form C-141 is included in Attachment 5.

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

Sincerely,

WSP USA Inc.



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Page 4

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

Kalei Jennings  
Associate Consultant

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

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

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

Attachments:

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

FIGURES



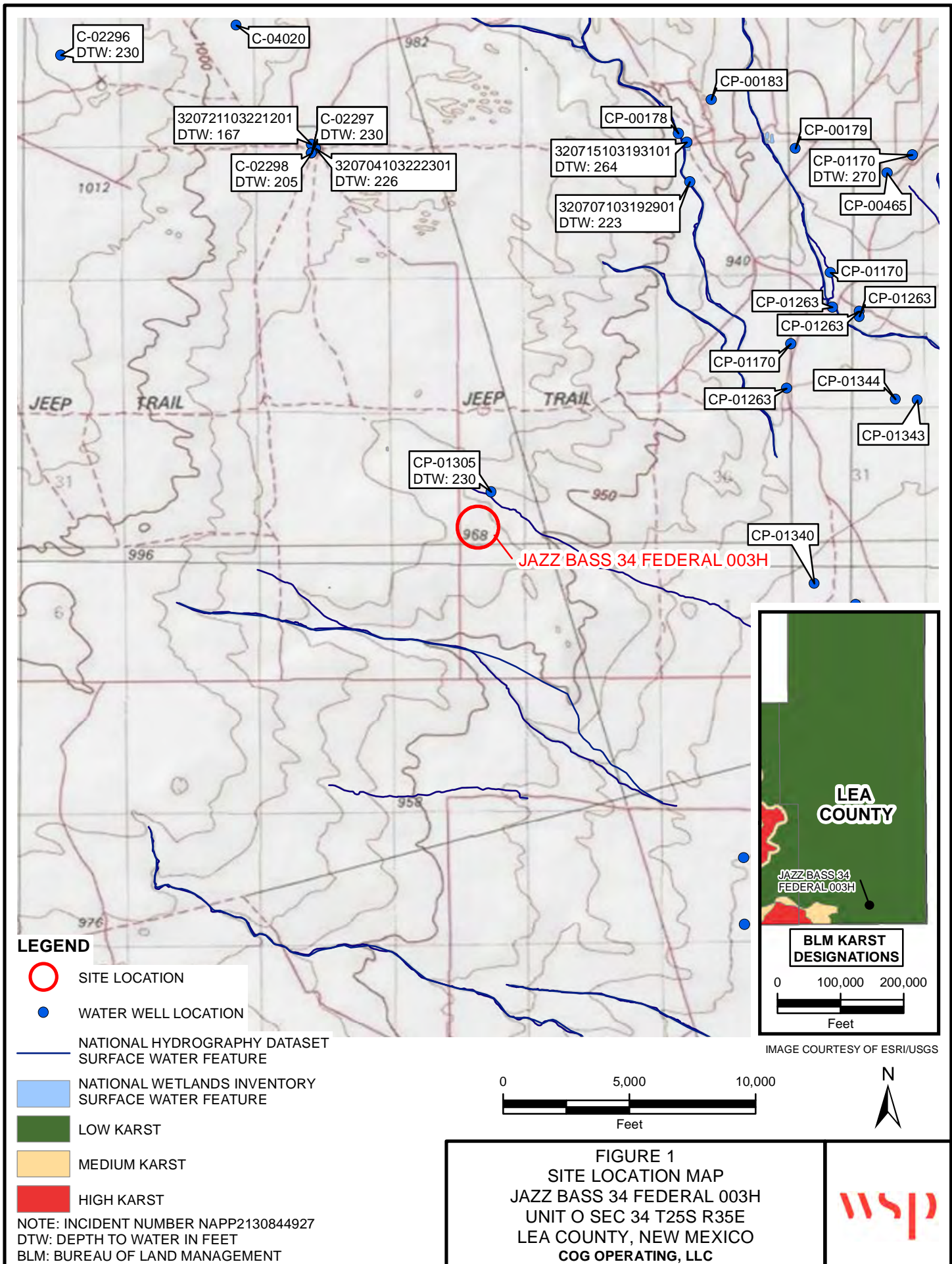
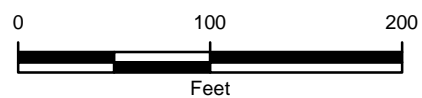




IMAGE COURTESY OF ESRI

# LEGEND

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



NOTE: INCIDENT NUMBER NAPP2130844927  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 2**  
**DELINEATION SOIL SAMPLE LOCATIONS**  
JAZZ BASS 34 FEDERAL 003H  
UNIT O SEC 34 T25S R35E  
LEA COUNTY, NEW MEXICO  
**COG OPERATING, LLC**





TABLES

Table 1

**Soil Analytical Results**  
**Jazz Bass 34 Federal 3H**  
**Incident Number NAPP2130844927**  
**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)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			10	50	NE	NE	NE	1,000	2,500	20,000
<b>Delineation Soil Samples</b>										
BH01	11/24/2021	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
BH01A	11/24/2021	4	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<5.04

**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 - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

ATTACHMENT 1: REFERENCED WELL RECORD



# New Mexico Office of the State Engineer

## Water Right Summary


[get image list](#)

**WR File Number:** CP 01305      **Subbasin:** CP      **Cross Reference:** -  
**Primary Purpose:** COM COMMERCIAL  
**Primary Status:** PMT PERMIT  
**Total Acres:** 0      **Subfile:** -      **Header:** -  
**Total Diversion:** 100      **Cause/Case:** -  
**Owner:** FULFER OIL & CATTLE COMPANY  
**Contact:** GREGG FULFER  
**Owner:** ATKINS ENGR ASSOC INC  
**Contact:** RICHARD CIBAK

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">get images</a>	604490	APPRO 2016-01-21	PMT	MTR	CP 01305	T	0	100	100

### Current Points of Diversion

POD Number	Well Tag	Source	Q		X	Y	Other Location Desc
			64Q16Q4Sec	Tws Rng			
<a href="#">CP 01305 POD1</a>		Artesian	1 4 31 25S 37E		655628	3551065	

### Priority Summary

Priority	Status	Acres	Diversion	Pod Number	
03/27/2014	PMT	0	100	<a href="#">CP 01305 POD1</a>	Artesian

### Place of Use

Q	Q	Acres	Diversion	CU	Use	Priority	Status	Other Location Desc
256	64 Q16 Q4Sec Tws Rng							
		0	100	100	COM	03/27/2014	PMT	NO PLACE OF USE GIVEN

### Source

Acres	Diversion	CU	Use	Priority	Source Description
0	100	100	COM	03/27/2014	GW

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

11/8/21 7:03 AM

 WATER RIGHT  
SUMMARY



# 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)

<b>Well Tag</b>	<b>POD Number</b>	<b>Q64 Q16 Q4 Sec TwS Rng</b>	<b>X</b>	<b>Y</b>
	CP 01305 POD1	1 4 31 25S 37E	655628	3551065



x

**Driller License:** 1706 **Driller Company:** ELITE DRILLERS CORPORATION

**Driller Name:** WALLACE, BRYCE J.

<b>Drill Start Date:</b> 05/04/2017	<b>Drill Finish Date:</b> 05/06/2017	<b>Plug Date:</b>
<b>Log File Date:</b> 07/07/2017	<b>PCW Rev Date:</b>	<b>Source:</b> Artesian
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 60 GPM
<b>Casing Size:</b> 6.00	<b>Depth Well:</b> 420 feet	<b>Depth Water:</b> 230 feet

x

<b>Water Bearing Stratifications:</b>	<b>Top</b>	<b>Bottom</b>	<b>Description</b>
	280	320	Sandstone/Gravel/Conglomerate
	330	400	Sandstone/Gravel/Conglomerate
	400	420	Shale/Mudstone/Siltstone

x

<b>Casing Perforations:</b>	<b>Top</b>	<b>Bottom</b>
	320	420

x

<b>Meter Number:</b> 19203	<b>Meter Make:</b> TURBINES
<b>Meter Serial Number:</b> 7678015	<b>Meter Multiplier:</b> 1.0000
<b>Number of Dials:</b> 9	<b>Meter Type:</b> Diversion
<b>Unit of Measure:</b> Barrels 42 gal.	<b>Return Flow Percent:</b>
<b>Usage Multiplier:</b>	<b>Reading Frequency:</b> Monthly

x

### Meter Readings (in Acre-Feet)

<b>Read Date</b>	<b>Year</b>	<b>Mtr Reading</b>	<b>Flag</b>	<b>Rdr Comment</b>	<b>Mtr Amount Online</b>
03/31/2021	2021	141799	A	RPT Initial reading submitted	0
05/31/2021	2021	1470544	A	ad	171.266
10/31/2021	2021	1610094	A	ad	17.987

x

<b>**YTD Meter Amounts:</b>	<b>Year</b>	<b>Amount</b>
	2021	189.253

x


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

12/17/21 3:58 PM

POINT OF DIVERSION SUMMARY



ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

 <p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>		BH or PH Name: BH01		Date: 11/24/2021				
		Site Name: Jazz Bass 34 Federal 3H						
		RP or Incident Number: NAPP2130844927						
		WSP Job Number: 31403720.000						
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								
Lat/Long: 32.08135, -103.35269		Field Screening: Chloride, PID		Logged By: PB, NK Hole Diameter: 3" Method: Hand Auger Total Depth: 4'				
Comments:								
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks
					0			
D	<162.4	0.2	N	BH01	0.5	0.5	SP-SM	SAND, TAN-BROWN, ABUNDANT CALICHE GRAVEL AND SILT, MODERATELY SORTED, MED-COARSE GRAIN, NO STAIN, NO ODOR
D	<162.4	0.1	N		1	1	SP-SM	SAND, BROWN, DRY, TRACE CALICHE AND SILT, POORLY SORTED, MED-FINE GRAIN, NO STAIN, NO ODOR
D	<162.4	0.1	N		2	2	SP-SM	SAA
D	<162.4	0.0	N		3	3	SP	SAND, DARK BROWN, TRACE SILT/CLAY, FINE GRAIN, POORLY SORTED, MED-FINE GRAIN, NO STAIN, NO ODOR
D	<162.4	0.0	N	BH01A	4	4	SP	SAA
					5	5		
					6	6		
					7	7		
					8	8		
					9	9		
					10	10		
TD @ 4 ft bgs								

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
COG Operating, LLC	Jazz Bass 34 Federal 003H Lea County, New Mexico	NAPP2130844927



Photo No.	Date	
1	November 8, 2021	
View of hole identified in tank battery liner during inspection.		

Photo No.	Date	
2	November 24, 2021	
View of BH01 location inside tank battery containment.		

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS





## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1642-1

Laboratory Sample Delivery Group: 31403720.000 Task 08.02  
Client Project/Site: Jazz Bass 34 Federal 3H

**For:**

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

Attn: Kalei Jennings

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

Authorized for release by:  
12/9/2021 10:27:28 AM

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

#### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Laboratory Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

## 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
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
U	Indicates the analyte was analyzed for but not detected.

## Glossary

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

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

**Job ID: 890-1642-1****Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative  
890-1642-1****Receipt**

The samples were received on 11/29/2021 9:11 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 3.4°C

**GC VOA**

Method 8021B: Surrogate recovery for the following samples were outside control limits: BH01 (890-1642-1), BH01A (890-1642-2) and (890-1635-A-1-K). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

**GC Semi VOA**

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-13650 and analytical batch 880-14305 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

Client Sample ID: BH01

Lab Sample ID: 890-1642-1

Date Collected: 11/24/21 08:48

Matrix: Solid

Date Received: 11/29/21 09:11

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:45	12/01/21 22:16	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:45	12/01/21 22:16	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:45	12/01/21 22:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/01/21 08:45	12/01/21 22:16	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/01/21 08:45	12/01/21 22:16	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/01/21 08:45	12/01/21 22:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	159	S1+	70 - 130	12/01/21 08:45	12/01/21 22:16	1
1,4-Difluorobenzene (Surr)	107		70 - 130	12/01/21 08:45	12/01/21 22:16	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			12/06/21 15:15	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			12/06/21 15:44	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		12/02/21 11:27	12/03/21 15:28	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 15:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 15:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130	12/02/21 11:27	12/03/21 15:28	1
o-Terphenyl	98		70 - 130	12/02/21 11:27	12/03/21 15:28	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U F1	4.98	mg/Kg			12/09/21 05:32	1

Client Sample ID: BH01A

Lab Sample ID: 890-1642-2

Date Collected: 11/24/21 08:57

Matrix: Solid

Date Received: 11/29/21 09:11

Sample Depth: 4

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:45	12/01/21 22:42	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:45	12/01/21 22:42	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:45	12/01/21 22:42	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/01/21 08:45	12/01/21 22:42	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 08:45	12/01/21 22:42	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 08:45	12/01/21 22:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	156	S1+	70 - 130	12/01/21 08:45	12/01/21 22:42	1

Eurofins Xenco, Carlsbad



## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

Client Sample ID: BH01A

Lab Sample ID: 890-1642-2

Date Collected: 11/24/21 08:57

Matrix: Solid

Date Received: 11/29/21 09:11

Sample Depth: 4

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114		70 - 130	12/01/21 08:45	12/01/21 22:42	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			12/06/21 15:15	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			12/06/21 15:44	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		12/02/21 11:27	12/03/21 15:48	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 15:48	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/02/21 11:27	12/03/21 15:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	86		70 - 130			12/02/21 11:27	12/03/21 15:48	1
o-Terphenyl	98		70 - 130			12/02/21 11:27	12/03/21 15:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.04	U	5.04	mg/Kg			12/09/21 05:52	1

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

## 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)
890-1635-A-1-I MS	Matrix Spike	143 S1+	98
890-1635-A-1-J MSD	Matrix Spike Duplicate	119	114
890-1642-1	BH01	159 S1+	107
890-1642-2	BH01A	156 S1+	114
LCS 880-13362/1-A	Lab Control Sample	105	94
LCSD 880-13362/2-A	Lab Control Sample Dup	113	93
MB 880-13362/5-A	Method Blank	85	104
<b>Surrogate Legend</b>			
BFB = 4-Bromofluorobenzene (Surr)			
DFBZ = 1,4-Difluorobenzene (Surr)			

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
890-1635-A-1-O MS	Matrix Spike	96	98
890-1635-A-1-P MSD	Matrix Spike Duplicate	96	96
890-1642-1	BH01	86	98
890-1642-2	BH01A	86	98
LCS 880-13730/2-A	Lab Control Sample	76	77
LCSD 880-13730/3-A	Lab Control Sample Dup	94	97
MB 880-13730/1-A	Method Blank	90	105
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

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

Lab Sample ID: MB 880-13362/5-A

Matrix: Solid

Analysis Batch: 13606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13362

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:45	12/01/21 13:56	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:45	12/01/21 13:56	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:45	12/01/21 13:56	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/01/21 08:45	12/01/21 13:56	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 08:45	12/01/21 13:56	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 08:45	12/01/21 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		70 - 130	12/01/21 08:45	12/01/21 13:56	1
1,4-Difluorobenzene (Surr)	104		70 - 130	12/01/21 08:45	12/01/21 13:56	1

Lab Sample ID: LCS 880-13362/1-A

Matrix: Solid

Analysis Batch: 13606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13362

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09162		mg/Kg		92	70 - 130
Toluene	0.100	0.1023		mg/Kg		102	70 - 130
Ethylbenzene	0.100	0.09786		mg/Kg		98	70 - 130
m-Xylene & p-Xylene	0.200	0.2177		mg/Kg		109	70 - 130
o-Xylene	0.100	0.1009		mg/Kg		101	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: LCSD 880-13362/2-A

Matrix: Solid

Analysis Batch: 13606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13362

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.09373		mg/Kg		94	70 - 130	2	35
Toluene	0.100	0.1043		mg/Kg		104	70 - 130	2	35
Ethylbenzene	0.100	0.1040		mg/Kg		104	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.2247		mg/Kg		112	70 - 130	3	35
o-Xylene	0.100	0.1040		mg/Kg		104	70 - 130	3	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: 890-1635-A-1-I MS

Matrix: Solid

Analysis Batch: 13606

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.100	0.08943		mg/Kg		89	70 - 130
Toluene	<0.00200	U	0.100	0.1030		mg/Kg		103	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

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

Lab Sample ID: 890-1635-A-1-I MS

Matrix: Solid

Analysis Batch: 13606

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13362

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.100	0.09992		mg/Kg		100	70 - 130
m-Xylene & p-Xylene	<0.00399	U	0.200	0.2191		mg/Kg		110	70 - 130
o-Xylene	<0.00200	U	0.100	0.1033		mg/Kg		103	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	143	S1+	70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

Lab Sample ID: 890-1635-A-1-J MSD

Matrix: Solid

Analysis Batch: 13606

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13362

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00200	U	0.0996	0.08847		mg/Kg		89	70 - 130	1	35
Toluene	<0.00200	U	0.0996	0.09828		mg/Kg		99	70 - 130	5	35
Ethylbenzene	<0.00200	U	0.0996	0.09313		mg/Kg		94	70 - 130	7	35
m-Xylene & p-Xylene	<0.00399	U	0.199	0.2045		mg/Kg		103	70 - 130	7	35
o-Xylene	<0.00200	U	0.0996	0.09722		mg/Kg		98	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	114		70 - 130

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

Lab Sample ID: MB 880-13730/1-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13730

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		12/02/21 11:27	12/03/21 09:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 09:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/02/21 11:27	12/03/21 09:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130	12/02/21 11:27	12/03/21 09:30	1
o-Terphenyl	105		70 - 130	12/02/21 11:27	12/03/21 09:30	1

Lab Sample ID: LCS 880-13730/2-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13730

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	756.7		mg/Kg		76	70 - 130
Diesel Range Organics (Over C10-C28)	1000	746.3		mg/Kg		75	70 - 130

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

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

Lab Sample ID: LCS 880-13730/2-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13730

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	76		70 - 130
o-Terphenyl	77		70 - 130

Lab Sample ID: LCSD 880-13730/3-A

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13730

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	804.9		mg/Kg		80	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	1000	848.7		mg/Kg		85	70 - 130	13	20

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

Lab Sample ID: 890-1635-A-1-O MS

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13730

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1081		mg/Kg		108	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1092		mg/Kg		106	70 - 130		

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	98		70 - 130

Lab Sample ID: 890-1635-A-1-P MSD

Matrix: Solid

Analysis Batch: 13825

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13730

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	999	1175		mg/Kg		118	70 - 130	8	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	1107		mg/Kg		107	70 - 130	1	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	96		70 - 130
o-Terphenyl	96		70 - 130

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-13650/1-A

Matrix: Solid

Analysis Batch: 14305

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			12/09/21 05:12	1

Lab Sample ID: LCS 880-13650/2-A

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	268.2		mg/Kg		107	90 - 110

Lab Sample ID: LCSD 880-13650/3-A

Matrix: Solid

Analysis Batch: 14305

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	268.3		mg/Kg		107	90 - 110	0	20

Lab Sample ID: 890-1642-1 MS

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<4.98	U F1	249	297.0	F1	mg/Kg		119	90 - 110

Lab Sample ID: 890-1642-1 MSD

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: BH01

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<4.98	U F1	249	294.5	F1	mg/Kg		118	90 - 110	1	20

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

## GC VOA

## Prep Batch: 13362

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1642-1	BH01	Total/NA	Solid	5035	
890-1642-2	BH01A	Total/NA	Solid	5035	
MB 880-13362/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13362/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13362/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1635-A-1-I MS	Matrix Spike	Total/NA	Solid	5035	
890-1635-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 13606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1642-1	BH01	Total/NA	Solid	8021B	13362
890-1642-2	BH01A	Total/NA	Solid	8021B	13362
MB 880-13362/5-A	Method Blank	Total/NA	Solid	8021B	13362
LCS 880-13362/1-A	Lab Control Sample	Total/NA	Solid	8021B	13362
LCSD 880-13362/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13362
890-1635-A-1-I MS	Matrix Spike	Total/NA	Solid	8021B	13362
890-1635-A-1-J MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	13362

## Analysis Batch: 14097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1642-1	BH01	Total/NA	Solid	Total BTEX	
890-1642-2	BH01A	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 13730

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1642-1	BH01	Total/NA	Solid	8015NM Prep	
890-1642-2	BH01A	Total/NA	Solid	8015NM Prep	
MB 880-13730/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13730/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1635-A-1-O MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1635-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 13825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1642-1	BH01	Total/NA	Solid	8015B NM	13730
890-1642-2	BH01A	Total/NA	Solid	8015B NM	13730
MB 880-13730/1-A	Method Blank	Total/NA	Solid	8015B NM	13730
LCS 880-13730/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13730
LCSD 880-13730/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13730
890-1635-A-1-O MS	Matrix Spike	Total/NA	Solid	8015B NM	13730
890-1635-A-1-P MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13730

## Analysis Batch: 14112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1642-1	BH01	Total/NA	Solid	8015 NM	
890-1642-2	BH01A	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

## HPLC/IC

## Leach Batch: 13650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1642-1	BH01	Soluble	Solid	DI Leach	
890-1642-2	BH01A	Soluble	Solid	DI Leach	
MB 880-13650/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-13650/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-13650/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1642-1 MS	BH01	Soluble	Solid	DI Leach	
890-1642-1 MSD	BH01	Soluble	Solid	DI Leach	

## Analysis Batch: 14305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1642-1	BH01	Soluble	Solid	300.0	13650
890-1642-2	BH01A	Soluble	Solid	300.0	13650
MB 880-13650/1-A	Method Blank	Soluble	Solid	300.0	13650
LCS 880-13650/2-A	Lab Control Sample	Soluble	Solid	300.0	13650
LCSD 880-13650/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	13650
890-1642-1 MS	BH01	Soluble	Solid	300.0	13650
890-1642-1 MSD	BH01	Soluble	Solid	300.0	13650

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

Client Sample ID: BH01

Lab Sample ID: 890-1642-1

Date Collected: 11/24/21 08:48

Matrix: Solid

Date Received: 11/29/21 09:11

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	13362	12/01/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13606	12/01/21 22:16	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14097	12/06/21 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 15:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 05:32	CH	XEN MID

Client Sample ID: BH01A

Lab Sample ID: 890-1642-2

Date Collected: 11/24/21 08:57

Matrix: Solid

Date Received: 11/29/21 09:11

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	13362	12/01/21 08:45	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13606	12/01/21 22:42	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			14097	12/06/21 15:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13730	12/02/21 11:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13825	12/03/21 15:48	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 05:52	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: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

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: Jazz Bass 34 Federal 3H

Job ID: 890-1642-1  
SDG: 31403720.000 Task 08.02

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.

Job ID: 890-1642-1

Project/Site: Jazz Bass 34 Federal 3H

SDG: 31403720.000 Task 08.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1642-1	BH01	Solid	11/24/21 08:48	11/29/21 09:11	0.5
890-1642-2	BH01A	Solid	11/24/21 08:57	11/29/21 09:11	4

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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  
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 281-2222  
Hobbs, NM (575-392-7550)


## Chain of Custody

**Work Order No:**

Page 1 of 1

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

<b>Work Order Comments</b>									
Program: <b>UST/ST</b> <input type="checkbox"/> RP <input type="checkbox"/> Growfields <input checked="" type="checkbox"/> RC <input type="checkbox"/> perfund <input type="checkbox"/>									
State of Project:									
Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> T/U/ST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/>									
Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other:									

Project Name:	Jazz Bass 34 Federal 3H	Turn Around		<b>ANALYSIS REQUEST</b>  <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 5px;">PA 8015)</div> <div style="border: 1px solid black; padding: 5px;">EPA 0=8021)</div> <div style="border: 1px solid black; padding: 5px;">le (EPA 300.0)</div> </div> <div style="text-align: center; margin-top: 20px;">               890-1642 Chain of Custody           </div>	<b>Work Order Notes</b>  TAT starts the day received by the lab. If received by 4:30pm
Project Number:	31403720.000 Task 08.02	Routine <input checked="" type="checkbox"/>			
P.O. Number:		Rush: <input type="checkbox"/>			
Sampler's Name:	Payton Benner	Due Date:			

[illegible]

**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 SiO<sub>2</sub> Na Sr Ti Sn U V Zn  
**TCLP / SPLP 6010:** 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U  
**1631 / 245.1 / 7470 / 7471 :** Hg

**Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company for Xencro, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xencro 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 Xencro. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xencro, 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
<i>[Signature]</i>	<i>[Signature]</i>	11.29.21 0911			

Download Date: 05/11/18 Row: 2018

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### Environment "Testing"

## Chain of Custody Record



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

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1642-1

SDG Number: 31403720.000 Task 08.02

Login Number: 1642

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: 890-1642-1  
SDG Number: 31403720.000 Task 08.02

Login Number: 1642

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 11/29/21 02:35 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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	

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1634-1

SDG Number: 31403720.000 Task 06.02

Login Number: 1634

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: 890-1634-1  
SDG Number: 31403720.000 Task 06.02Login Number: 1634  
List Number: 2  
Creator: Kramer, JessicaList Source: Eurofins Xenco, Midland  
List Creation: 11/29/21 02:35 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
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	

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1419-1

SDG Number: 31402909.12

**Login Number: 1419****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: 890-1419-1

SDG Number: 31402909.12

**Login Number: 1419****List Number: 2****Creator: Kramer, Jessica****List Source: Eurofins Xenco, Midland****List Creation: 10/15/21 12:05 PM**

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 5: FINAL C-141

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

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

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

### Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

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

### Nature and Volume of Release

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

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

### Initial Response

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

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

# L48 Spill Volume Estimate Form

Received by OCD: 12/29/2021 12:25:36 PM

Page 47 of 51

Facility Name & Number:	Jazzbass 34 Federal 3H
Asset Area:	Battle Axe East
Release Discovery Date & Time:	10/21/2021 / 2:00 PM
Release Type:	Oil Mixture
Provide any known details about the event:	Hole in Fire tube

## Spill Calculation - On Pad Surface Pool Spill

Convert Irregular shape into a series of rectangles	Length (ft.)	Width (ft.)	Deepest point in each of the areas (in.)	No. of boundaries of "shore" in each area	Estimated <u>Pool</u> Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	15.0	30.0	1.00	3	450.000	0.028	2.225	0.001	2.228		0.000	2.228
Rectangle B	10.0	30.0	1.00	2	300.000	0.042	2.225	0.002	2.230		0.000	2.230
Rectangle C	10.0	30.0	2.00	2	300.000	0.083	4.450	0.004	4.469		0.000	4.469
Rectangle D	15.0	30.0	5.00	3	450.000	0.139	11.125	0.007	11.202		0.000	11.202
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!		#DIV/0!	#DIV/0!
Total Volume Release:									20.129		0.000	20.129

Released to Imaging: 1/18/2022 1:40:57 PM

Incident ID	NAPP2130844927
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

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

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

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

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

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

State of New Mexico  
Oil Conservation Division

Page 4

Incident ID	NAPP2130844927
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 Engineer  
Signature:  Date: 12/20/2021  
email: Kelsy.Waggaman@conocophillips.com Telephone: (432)-688-9057

**OCD Only**

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



Incident ID	NAPP2130844927
District RP	
Facility ID	
Application ID	

## Closure

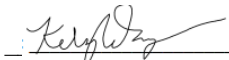
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled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

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

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

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

Printed Name: Kelsy Waggaman Title: Environmental Engineer

Signature:  Date: 12/20/2021

email: kelsy.waggaman@conocophillips.com Telephone: (432) 668-9057

### OCD Only

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

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

Closure Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_

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

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

CONDITIONS  
  
Action 69440

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 69440
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	1/18/2022