



WSP USA

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

November 30, 2021

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

**RE: Closure Request  
Eider 23 Federal  
Incident Number NAPP2128531481  
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 Eider 23 Federal (Site) in Unit B, Section 23, Township 24 South, Range 32 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 produced water 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 NAPP2128531481.

## **RELEASE BACKGROUND**

On September 1, 2021, a lease operator turned a well into a test separator and failed to notice that a ball valve was missing from under the water dump. Approximately 8.2 barrels (bbls) of produced water were released into the lined containment. A vacuum truck was dispatched to remove free-standing fluids. COG 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 nAPP2128531481.

## **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 less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The nearest permitted groundwater well with depth to groundwater data is the United States Geological Survey (USGS) well 321312103395601, located approximately 1.7 miles northwest of the Site. The groundwater well was most recently measured in December 2010 and has a reported depth to groundwater of 34 feet bgs and a total



depth of 60 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland located approximately 1-mile northwest 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, or church. 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 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): 100 mg/kg
- Chloride: 600 mg/kg

### **LINER INSPECTION**

WSP personnel conducted a liner integrity inspection to confirm that the liner was operating as designed. The liner was visually inspected and no rips, holes, or damage to the liner was observed. The liner was determined to be in good condition. WSP observed potential discolored soil on the well pad near the containment. As a precaution, WSP collected three assessment soil samples (SS01 through SS03) from a depth of 0.5 feet bgs in the release area outside of the lined containment to assess for the presence or absence of impacted soil. Soil from the 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 potentially stained or wet area and soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the Site visit. A photographic log is included in Attachment 2.

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, TPH-

District I  
Page 3

diesel range organics, 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 soil samples SS01 through SS03 indicated that no benzene, BTEX, or TPH concentrations were detected in the precautionary samples. Chloride concentrations were compliant with the most stringent of NMOCD Table 1 Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 3.

### CLOSURE REQUEST

The produced water release occurred within lined containment; the liner was inspected and determined to be in good condition. Soil samples SS01 through SS03 were collected within an area that appeared discolored outside of the lined containment as a precautionary measure to assess for the presence or absence of soil impacts. Laboratory analytical results for the soil samples indicated that no benzene, BTEX, or TPH concentrations were detected, and chloride concentrations were compliant with the most stringent Closure Criteria. The area did not appear to be impacted by the release.

Based on soil sample laboratory analytical results compliant with the most stringent Table 1 Closure Criteria, no impacted soil was identified, and no excavation was warranted as a result of the release. As such, COG respectfully requests no further action for Incident Number nAPP2128531481. If you have any questions or comments, please do not hesitate to contact Ms. Ashley Ager at (970) 385-1096. The final Form C-141 is included in Attachment 4.

Sincerely,

WSP USA Inc.

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

Kalei Jennings  
Associate Consultant

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

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

cc: Kelsy Waggaman, COG

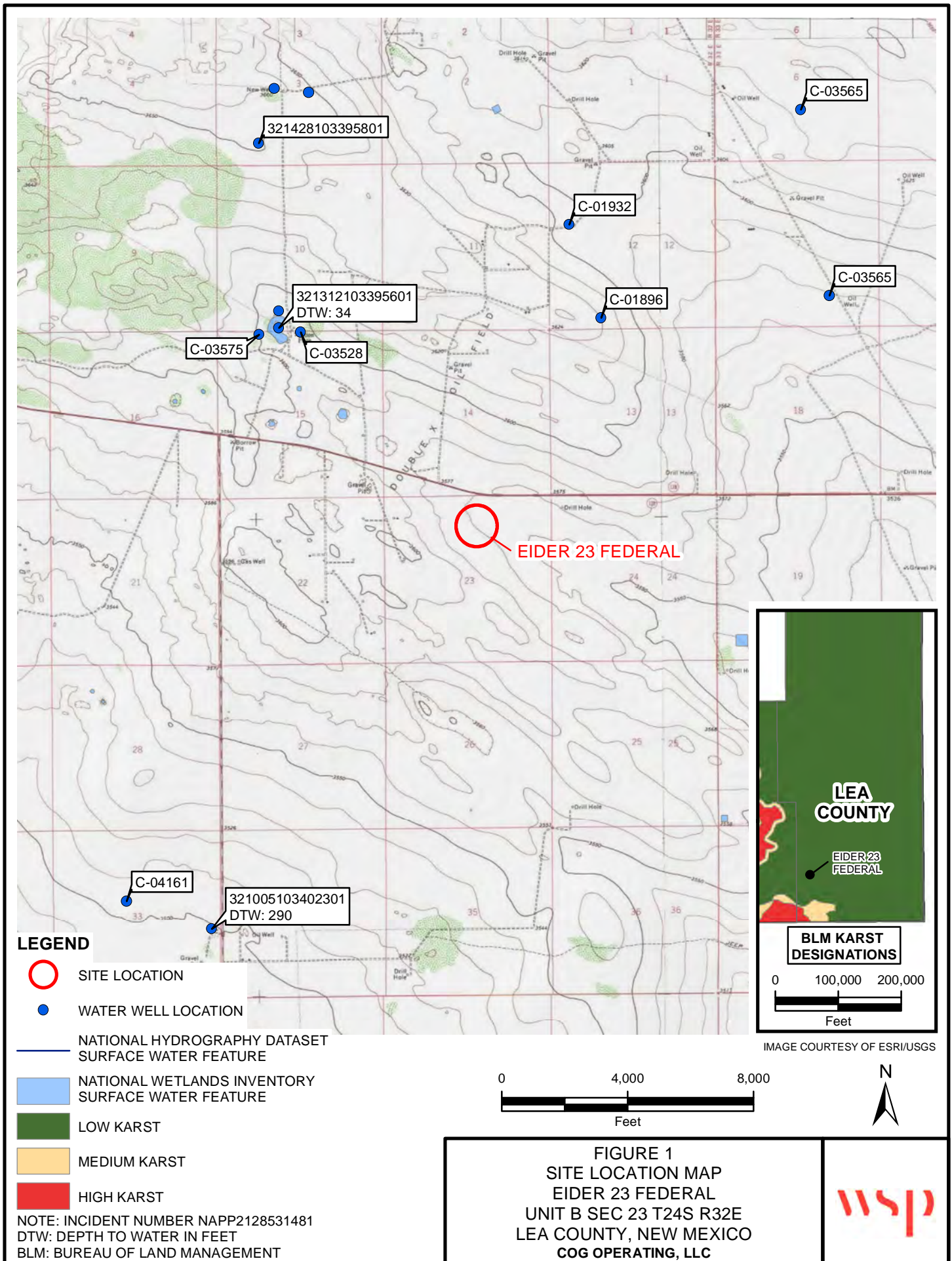
Attachments:



District I  
Page 4

Figure 1	Site Location Map
Figure 2	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



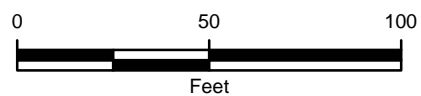
P:\Concho Operating\GIS\31402909 220\_EIDER 23 FEDERAL\MXD\31402909 220\_FIG01\_SL\_RECEPTOR\_2021.mxd



IMAGE COURTESY OF ESRI

# LEGEND

- SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- WET AREA
- LINED CONTAINMENT



NOTE: INCIDENT NUMBER NAPP2128531481  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2  
SOIL SAMPLE LOCATIONS  
EIDER 23 FEDERAL  
UNIT B SEC 23 T24S R32E  
LEA COUNTY, NEW MEXICO  
COG OPERATING, LLC



TABLES

Table 1

**Soil Analytical Results**  
**Eider 23 Federal**  
**Incident Number NAPP2128531481**  
**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	NE	100	600
<b>Assessment Soil Samples</b>										
SS01	10/19/2021	0.5	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	18.5
SS02	10/19/2021	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	362
SS03	10/19/2021	0.5	0.00237	<0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	55.9

**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:** C 03528      **Subbasin:** C      **Cross Reference:** -  
**Primary Purpose:** STK 72-12-1 LIVESTOCK WATERING  
**Primary Status:** PMT PERMIT  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 3      **Cause/Case:** -  
**Owner:** NGL WATER SOLUTIONS PERMIAN  
**Contact:** R CHARLES WILKIN

### Documents on File

	Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
				1	2					
<a href="#">get images</a>	633171	COWNF	2018-09-17	CHG	PRC	C 03528	T		0	
<a href="#">get images</a>	491386	72121	2011-12-14	PMT	LOG	C 03528	T		3	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q	64Q16Q4Sec	Tws	Rng	X	Y	Other Location Desc
<a href="#">C 03528 POD1</a>		Shallow	1	1	2	15 24S 32E	626040	3566129	NO FIELD GPS DONE BY DRILLER

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.


10/19/21 7:49 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</b>	<b>Q16</b>	<b>Q4</b>	<b>Sec</b>	<b>Tw</b>	<b>Rng</b>	<b>X</b>	<b>Y</b>
C	03528 POD1	1	1	2	15	24S	32E	626040	3566129 

---

**Driller License:** 1682      **Driller Company:** HUNGRY HORSE, LLC.

**Driller Name:** NORRIS, JOHN D. (LD)

**Drill Start Date:** 02/20/2012      **Drill Finish Date:** 03/12/2012      **Plug Date:**

**Log File Date:** 04/30/2012      **PCW Rev Date:**      **Source:** Shallow

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

**Casing Size:** 6.38      **Depth Well:** 541 feet      **Depth Water:**

---

**Water Bearing Stratifications:**

<b>Top</b>	<b>Bottom</b>	<b>Description</b>
133	152	Sandstone/Gravel/Conglomerate

---

**Casing Perforations:**

<b>Top</b>	<b>Bottom</b>
133	152

---

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.

10/19/21 7:49 AM

POINT OF DIVERSION SUMMARY



USGS Home  
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## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Site Information ▼

Geographic Area:

United States ▼

GO

Click to hide News Bulletins

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

# USGS 321312103395601 24S.32E.10.344333

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

## Well Site

### DESCRIPTION:

Latitude 32°13'30.4", Longitude 103°39'52.7" NAD83

Lea County, New Mexico , Hydrologic Unit 13070007

Well depth: 60 feet

Land surface altitude: 3,589.00 feet above NGVD29.

Well completed in "Other aquifers" (N9999OTHER) national aquifer.

Well completed in "Alluvium, Bolson Deposits and Other Surface Deposits" (110AVMB) local aquifer

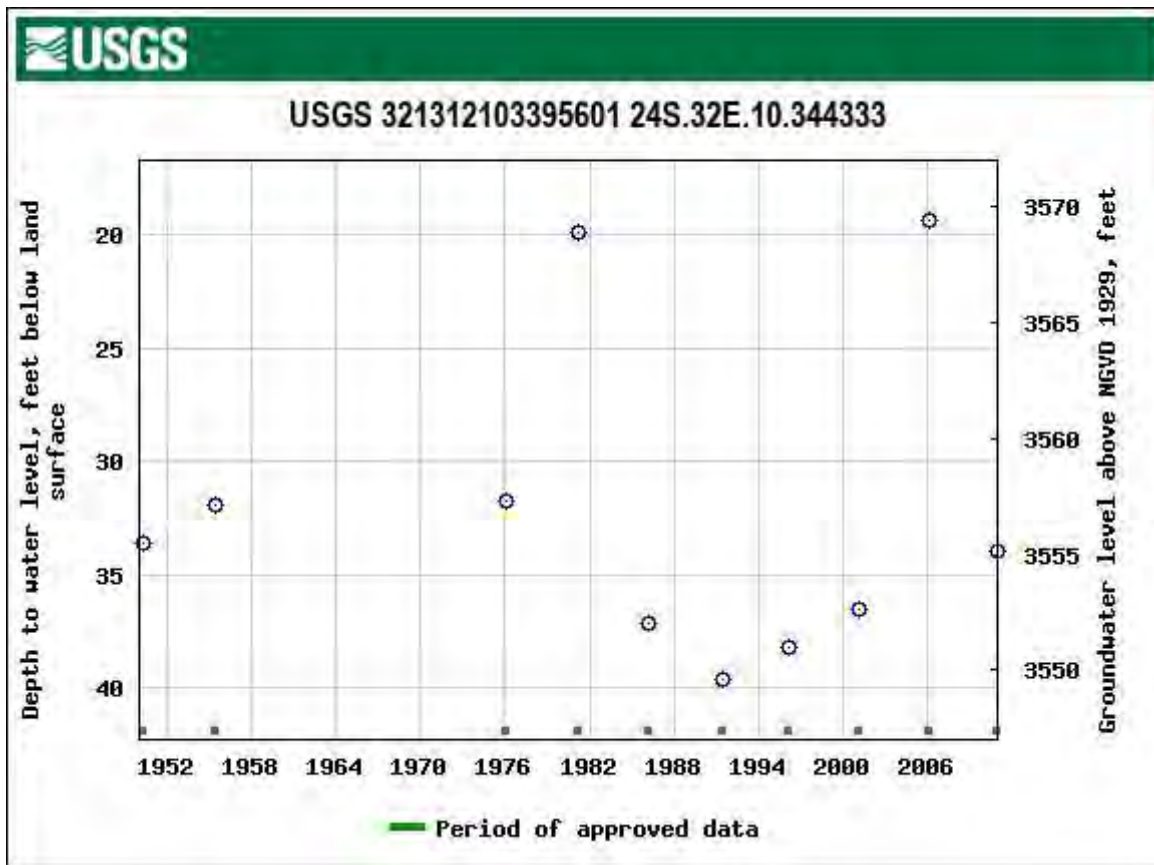
### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1950-04-13	2010-12-16	10
<a href="#">Revisions</a>	Unavailable (site:0) (timeseries:0)		
Additional Data Sources	Begin Date	End Date	Count
<a href="#">Annual Water-Data Report (pdf)</a> **offsite**	2011	2011	1

### OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center

Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)



ATTACHMENT 2: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG		
COG OPERATING, LLC	Eider 23 Federal Lea County, New Mexico	NAPP2128531481





Photo No.	Date	
1	October 19, 2021	
Photo taken by WSP personal during liner integrity inspection.		

Photo No.	Date	
2	October 19, 2021	
Photo taken by WSP personal during liner integrity check.		

**PHOTOGRAPHIC LOG**


<b>COG OPERATING, LLC</b>	<b>Eider 23 Federal Lea County, New Mexico</b>	<b>NAPP2128531481</b>
---------------------------	--	-----------------------

<b>Photo No.</b>	<b>Date</b>	
3	October 19, 2021	
Photo taken by WSP personal during liner integrity check.		

<b>Photo No.</b>	<b>Date</b>	
4	October 19, 2021	
Photo taken by WSP personal during liner integrity check.		



PHOTOGRAPHIC LOG		
COG OPERATING, LLC	Eider 23 Federal Lea County, New Mexico	NAPP2128531481

Photo No.	Date	
5	October 19, 2021	
Photo of potential stained area on the well pad.		

ATTACHMENT 3: 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: 890-1451-1  
Laboratory Sample Delivery Group: 31402909.22  
Client Project/Site: Eider 23 Federal

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:  
10/28/2021 3:12:46 PM

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

#### LINKS

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results through  
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[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: Eider 23 Federal

Laboratory Job ID: 890-1451-1  
SDG: 31402909.22

# Table of Contents

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

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14

## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

## Qualifiers

## GC VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## GC Semi VOA

Qualifier	Qualifier Description
S1+	Surrogate recovery exceeds control limits, high biased.
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.
α	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: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

**Job ID: 890-1451-1****Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative  
890-1451-1****Receipt**

The samples were received on 10/19/2021 3:54 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.0°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-10011 and analytical batch 880-10332 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: (890-1450-A-1-D). 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.

**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: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

Client Sample ID: SS01

Lab Sample ID: 890-1451-1

Date Collected: 10/19/21 11:00

Matrix: Solid

Date Received: 10/19/21 15:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		10/20/21 14:16	10/24/21 22:17	1
Toluene	<0.00198	U	0.00198	mg/Kg		10/20/21 14:16	10/24/21 22:17	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		10/20/21 14:16	10/24/21 22:17	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		10/20/21 14:16	10/24/21 22:17	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		10/20/21 14:16	10/24/21 22:17	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		10/20/21 14:16	10/24/21 22:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	10/20/21 14:16	10/24/21 22:17	1
1,4-Difluorobenzene (Surr)	104		70 - 130	10/20/21 14:16	10/24/21 22:17	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			10/26/21 15:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			10/27/21 11:09	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		10/27/21 13:40	10/27/21 23:31	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		10/27/21 13:40	10/27/21 23:31	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/21 13:40	10/27/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130	10/27/21 13:40	10/27/21 23:31	1
o-Terphenyl	112		70 - 130	10/27/21 13:40	10/27/21 23:31	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.5		4.95	mg/Kg			10/25/21 22:45	1

Client Sample ID: SS02

Lab Sample ID: 890-1451-2

Date Collected: 10/19/21 11:03

Matrix: Solid

Date Received: 10/19/21 15:54

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		10/20/21 14:16	10/24/21 22:38	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 22:38	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 22:38	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 14:16	10/24/21 22:38	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 22:38	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 14:16	10/24/21 22:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		70 - 130	10/20/21 14:16	10/24/21 22:38	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

Client Sample ID: SS02

Lab Sample ID: 890-1451-2

Date Collected: 10/19/21 11:03

Matrix: Solid

Date Received: 10/19/21 15:54

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	10/20/21 14:16	10/24/21 22:38	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			10/26/21 15:12	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			10/27/21 11:09	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		10/27/21 13:40	10/27/21 23:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/21 13:40	10/27/21 23:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/21 13:40	10/27/21 23:51	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			10/27/21 13:40	10/27/21 23:51	1
o-Terphenyl	108		70 - 130			10/27/21 13:40	10/27/21 23:51	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	362		25.2	mg/Kg			10/25/21 22:51	5

Client Sample ID: SS03

Lab Sample ID: 890-1451-3

Date Collected: 10/19/21 11:06

Matrix: Solid

Date Received: 10/19/21 15:54

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00237		0.00201	mg/Kg		10/20/21 14:16	10/24/21 22:59	1
Toluene	<0.00201	U	0.00201	mg/Kg		10/20/21 14:16	10/24/21 22:59	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		10/20/21 14:16	10/24/21 22:59	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		10/20/21 14:16	10/24/21 22:59	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		10/20/21 14:16	10/24/21 22:59	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		10/20/21 14:16	10/24/21 22:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	151	S1+	70 - 130	10/20/21 14:16	10/24/21 22:59	1
1,4-Difluorobenzene (Surr)	115		70 - 130	10/20/21 14:16	10/24/21 22:59	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			10/26/21 15:12	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			10/27/21 11:09	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

Client Sample ID: SS03

Lab Sample ID: 890-1451-3

Date Collected: 10/19/21 11:06

Matrix: Solid

Date Received: 10/19/21 15:54

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	<49.9	U	49.9	mg/Kg		10/27/21 13:40	10/28/21 00:12	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		10/27/21 13:40	10/28/21 00:12	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		10/27/21 13:40	10/28/21 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	106		70 - 130	10/27/21 13:40	10/28/21 00:12	1
o-Terphenyl	119		70 - 130	10/27/21 13:40	10/28/21 00:12	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	55.9		4.99	mg/Kg			10/25/21 23:09	1

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

## 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)
880-7292-A-1-B MS	Matrix Spike	8 S1-	127
880-7292-A-1-C MSD	Matrix Spike Duplicate	21 S1-	0.006 S1-
890-1451-1	SS01	107	104
890-1451-2	SS02	101	105
890-1451-3	SS03	151 S1+	115
LCS 880-10011/1-A	Lab Control Sample	90	105
LCSD 880-10011/2-A	Lab Control Sample Dup	93	101
MB 880-10009/5-A	Method Blank	119	99
MB 880-10011/5-A	Method Blank	107	107
<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)
890-1450-A-1-E MS	Matrix Spike	111	113
890-1450-A-1-F MSD	Matrix Spike Duplicate	127	129
890-1451-1	SS01	101	112
890-1451-2	SS02	98	108
890-1451-3	SS03	106	119
LCS 880-10752/2-A	Lab Control Sample	87	94
LCSD 880-10752/3-A	Lab Control Sample Dup	87	92
MB 880-10752/1-A	Method Blank	124	143 S1+
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

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

Lab Sample ID: MB 880-10009/5-A

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10009

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:10	10/24/21 04:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 14:10	10/24/21 04:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	10/20/21 14:10	10/24/21 04:18	1
1,4-Difluorobenzene (Surr)	99		70 - 130	10/20/21 14:10	10/24/21 04:18	1

Lab Sample ID: MB 880-10011/5-A

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10011

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 15:20	1
Toluene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 15:20	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 15:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		10/20/21 14:16	10/24/21 15:20	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		10/20/21 14:16	10/24/21 15:20	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		10/20/21 14:16	10/24/21 15:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	10/20/21 14:16	10/24/21 15:20	1
1,4-Difluorobenzene (Surr)	107		70 - 130	10/20/21 14:16	10/24/21 15:20	1

Lab Sample ID: LCS 880-10011/1-A

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10011

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.1028		mg/Kg		103	70 - 130
Toluene	0.100	0.07866		mg/Kg		79	70 - 130
Ethylbenzene	0.100	0.07910		mg/Kg		79	70 - 130
m-Xylene & p-Xylene	0.200	0.1485		mg/Kg		74	70 - 130
o-Xylene	0.100	0.07658		mg/Kg		77	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		70 - 130
1,4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: LCSD 880-10011/2-A

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.08414		mg/Kg		84	70 - 130	20	35

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

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

Lab Sample ID: LCSD 880-10011/2-A

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10011

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.07026		mg/Kg		70	70 - 130	11	35
Ethylbenzene	0.100	0.07046		mg/Kg		70	70 - 130	12	35
m-Xylene & p-Xylene	0.200	0.1400		mg/Kg		70	70 - 130	6	35
o-Xylene	0.100	0.07068		mg/Kg		71	70 - 130	8	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-7292-A-1-B MS

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10011

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.0580	F1	0.101	<0.00202	U F1	mg/Kg		0	70 - 130
Toluene	0.195	F1	0.101	0.02703	F1	mg/Kg		-166	70 - 130
Ethylbenzene	0.714	E	0.101	0.006642	4	mg/Kg		-700	70 - 130
m-Xylene & p-Xylene	0.138	F1	0.202	<0.00404	U F1	mg/Kg		-68	70 - 130
o-Xylene	2.20	E	0.101	0.06402	4	mg/Kg		-2117	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	8	S1-	70 - 130
1,4-Difluorobenzene (Surr)	127		70 - 130

Lab Sample ID: 880-7292-A-1-C MSD

Matrix: Solid

Analysis Batch: 10332

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10011

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.0580	F1	0.0998	<0.00200	U F1	mg/Kg		-58	70 - 130	NC	35
Toluene	0.195	F1	0.0998	<0.00200	U F1 F2	mg/Kg		-194	70 - 130	180	35
Ethylbenzene	0.714	E	0.0998	0.05093	4 F2	mg/Kg		-664	70 - 130	154	35
m-Xylene & p-Xylene	0.138	F1	0.200	0.02850	F1 F2	mg/Kg		-55	70 - 130	183	35
o-Xylene	2.20	E	0.0998	0.1697	4 F2	mg/Kg		-2037	70 - 130	90	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	21	S1-	70 - 130
1,4-Difluorobenzene (Surr)	0.006	S1-	70 - 130

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

Lab Sample ID: MB 880-10752/1-A

Matrix: Solid

Analysis Batch: 10661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10752

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		10/27/21 13:40	10/27/21 19:28	1

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

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

Lab Sample ID: MB 880-10752/1-A

Matrix: Solid

Analysis Batch: 10661

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 10752

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		10/27/21 13:40	10/27/21 19:28	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		10/27/21 13:40	10/27/21 19:28	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	124		70 - 130			10/27/21 13:40	10/27/21 19:28	1
o-Terphenyl	143	S1+	70 - 130			10/27/21 13:40	10/27/21 19:28	1

Lab Sample ID: LCS 880-10752/2-A

Matrix: Solid

Analysis Batch: 10661

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 10752

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	927.4		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	920.2		mg/Kg		92	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	87		70 - 130				
o-Terphenyl	94		70 - 130				

Lab Sample ID: LCSD 880-10752/3-A

Matrix: Solid

Analysis Batch: 10661

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 10752

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1115		mg/Kg		111	70 - 130	18	20
Diesel Range Organics (Over C10-C28)	1000	770.0		mg/Kg		77	70 - 130	18	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	87		70 - 130						
o-Terphenyl	92		70 - 130						

Lab Sample ID: 890-1450-A-1-E MS

Matrix: Solid

Analysis Batch: 10661

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 10752

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	1192		mg/Kg		120	70 - 130
Diesel Range Organics (Over C10-C28)	65.1		997	1095		mg/Kg		103	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	111		70 - 130						
o-Terphenyl	113		70 - 130						

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

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

Lab Sample ID: 890-1450-A-1-F MSD

Matrix: Solid

Analysis Batch: 10661

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 10752

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	1221		mg/Kg		122	70 - 130	2	20
Diesel Range Organics (Over C10-C28)	65.1		1000	1233		mg/Kg		117	70 - 130	12	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	127		70 - 130								
o-Terphenyl	129		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-10301/1-A

Matrix: Solid

Analysis Batch: 10621

Client Sample ID: Method Blank

Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			10/25/21 21:11	1

Lab Sample ID: LCS 880-10301/2-A

Matrix: Solid

Analysis Batch: 10621

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	259.2		mg/Kg		104	90 - 110

Lab Sample ID: LCSD 880-10301/3-A

Matrix: Solid

Analysis Batch: 10621

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	256.5		mg/Kg		103	90 - 110	1	20

Lab Sample ID: 890-1451-2 MS

Matrix: Solid

Analysis Batch: 10621

Client Sample ID: SS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	362		1260	1708		mg/Kg		107	90 - 110

Lab Sample ID: 890-1451-2 MSD

Matrix: Solid

Analysis Batch: 10621

Client Sample ID: SS02

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	362		1260	1691		mg/Kg		105	90 - 110	1	20

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

## GC VOA

## Prep Batch: 10009

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-10009/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 10011

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1451-1	SS01	Total/NA	Solid	5035	
890-1451-2	SS02	Total/NA	Solid	5035	
890-1451-3	SS03	Total/NA	Solid	5035	
MB 880-10011/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-10011/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-10011/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-7292-A-1-B MS	Matrix Spike	Total/NA	Solid	5035	
880-7292-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 10332

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1451-1	SS01	Total/NA	Solid	8021B	10011
890-1451-2	SS02	Total/NA	Solid	8021B	10011
890-1451-3	SS03	Total/NA	Solid	8021B	10011
MB 880-10009/5-A	Method Blank	Total/NA	Solid	8021B	10009
MB 880-10011/5-A	Method Blank	Total/NA	Solid	8021B	10011
LCS 880-10011/1-A	Lab Control Sample	Total/NA	Solid	8021B	10011
LCSD 880-10011/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	10011
880-7292-A-1-B MS	Matrix Spike	Total/NA	Solid	8021B	10011
880-7292-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	10011

## Analysis Batch: 10619

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1451-1	SS01	Total/NA	Solid	Total BTEX	
890-1451-2	SS02	Total/NA	Solid	Total BTEX	
890-1451-3	SS03	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 10661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1451-1	SS01	Total/NA	Solid	8015B NM	10752
890-1451-2	SS02	Total/NA	Solid	8015B NM	10752
890-1451-3	SS03	Total/NA	Solid	8015B NM	10752
MB 880-10752/1-A	Method Blank	Total/NA	Solid	8015B NM	10752
LCS 880-10752/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	10752
LCSD 880-10752/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	10752
890-1450-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	10752
890-1450-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	10752

## Analysis Batch: 10676

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1451-1	SS01	Total/NA	Solid	8015 NM	
890-1451-2	SS02	Total/NA	Solid	8015 NM	
890-1451-3	SS03	Total/NA	Solid	8015 NM	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

## GC Semi VOA

## Prep Batch: 10752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1451-1	SS01	Total/NA	Solid	8015NM Prep	
890-1451-2	SS02	Total/NA	Solid	8015NM Prep	
890-1451-3	SS03	Total/NA	Solid	8015NM Prep	
MB 880-10752/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-10752/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-10752/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1450-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1450-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## HPLC/IC

## Leach Batch: 10301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1451-1	SS01	Soluble	Solid	DI Leach	
890-1451-2	SS02	Soluble	Solid	DI Leach	
890-1451-3	SS03	Soluble	Solid	DI Leach	
MB 880-10301/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-10301/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-10301/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1451-2 MS	SS02	Soluble	Solid	DI Leach	
890-1451-2 MSD	SS02	Soluble	Solid	DI Leach	

## Analysis Batch: 10621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1451-1	SS01	Soluble	Solid	300.0	10301
890-1451-2	SS02	Soluble	Solid	300.0	10301
890-1451-3	SS03	Soluble	Solid	300.0	10301
MB 880-10301/1-A	Method Blank	Soluble	Solid	300.0	10301
LCS 880-10301/2-A	Lab Control Sample	Soluble	Solid	300.0	10301
LCSD 880-10301/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	10301
890-1451-2 MS	SS02	Soluble	Solid	300.0	10301
890-1451-2 MSD	SS02	Soluble	Solid	300.0	10301

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

Client Sample ID: SS01

Lab Sample ID: 890-1451-1

Date Collected: 10/19/21 11:00

Matrix: Solid

Date Received: 10/19/21 15:54

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	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 22:17	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10619	10/26/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 11:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	10752	10/27/21 13:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10661	10/27/21 23:31	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	10301	10/22/21 17:46	SC	XEN MID
Soluble	Analysis	300.0		1			10621	10/25/21 22:45	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-1451-2

Date Collected: 10/19/21 11:03

Matrix: Solid

Date Received: 10/19/21 15:54

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	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 22:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10619	10/26/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 11:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	10752	10/27/21 13:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10661	10/27/21 23:51	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	10301	10/22/21 17:46	SC	XEN MID
Soluble	Analysis	300.0		5			10621	10/25/21 22:51	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-1451-3

Date Collected: 10/19/21 11:06

Matrix: Solid

Date Received: 10/19/21 15:54

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	10011	10/20/21 14:16	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	10332	10/24/21 22:59	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			10619	10/26/21 15:12	KL	XEN MID
Total/NA	Analysis	8015 NM		1			10676	10/27/21 11:09	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	10752	10/27/21 13:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			10661	10/28/21 00:12	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	10301	10/22/21 17:46	SC	XEN MID
Soluble	Analysis	300.0		1			10621	10/25/21 23:09	CH	XEN MID

## Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

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: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

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: Eider 23 Federal

Job ID: 890-1451-1  
SDG: 31402909.22

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1451-1	SS01	Solid	10/19/21 11:00	10/19/21 15:54	0.5
890-1451-2	SS02	Solid	10/19/21 11:03	10/19/21 15:54	0.5
890-1451-3	SS03	Solid	10/19/21 11:06	10/19/21 15:54	0.5

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- 11
- 12
- 13
- 14



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) 233-3927  
Hobbs, NM (505-392-7550)

## Chain of Custody

**Work Order No:**

Page 1 of 1  
www.xenco.com

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

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

[illegible]


<b>SAMPLE RECEIPT</b>		Temp Blank:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	
Temperature (°C):	4.2 / 4.0							
Received intact:	Yes No <u>Yes</u> Thermometer ID <u>F-111-002</u>							
Cooler Custody Seals:	Yes No		N/A		Correction Factor:			<u>-0.2</u>
Sample Custody Seals:	Yes No		N/A		Total Containers:			

Number of Containers

(EPA 8015)

(EPA 0=8021)

(EPA 300.0)



890-1451 Chain of Custody

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

[illegible]

**Total 200.7 / 6010      200.8 / 6020:**

Circle Method(s) and Metal(s) to be analyzed

	Al	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	I	Sn	U	V	Zn		
8RCRA 13PPM Texas 11	AI	Sb	As	Ba	Be	B	Cd	Cr	Co	Cu	Fe	Pb	Mg	Mn	Mo	Ni	K	Se	Ag	SiO <sub>2</sub>	Na	Sr	I	Sn	U	V	Zn
TCLP / SPLP 6010:	8RCRA	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Mn	Mo	Ni	Se	Ag	Tl	U										

1631 / 245.1 / 7470 / 74

1631 / 245.1 / 7470 / 7471 : Hg

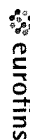
**Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenoco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenoco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenoco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenoco, 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>phemer</i>	<i>N. Ste</i>	10/19/20 3:54			

Revised Date: 05/14/18 Rev: 2018

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## Chain of Custody Record



## Environment Testing America

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

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[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1451-1

SDG Number: 31402909.22

Login Number: 1451

List Number: 1

Creator: Olivas, Nathaniel

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: 890-1451-1

SDG Number: 31402909.22

Login Number: 1451

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Xenco, Midland

List Creation: 10/21/21 10:24 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	1.6/1.7
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	NAPP2128531481
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	COG Operating, LLC	OGRID	229137
Contact Name	Kelsy Waggaman	Contact Telephone	(432) 688 - 9057
Contact email	Kelsy.Waggaman@ConocoPhillips.com	Incident # (assigned by OCD)	NAPP2128531481
Contact mailing address	600 West Illinois Avenue, Midland, Texas 79701		

### Location of Release Source

Latitude 32.2077247 Longitude -103.6444606  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Eider 23 Federal	Site Type	Tank Battery
Date Release Discovered	September 1, 2021	API# (if applicable)	

Unit Letter	Section	Township	Range	County
B	23	24S	32E	Lea

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: NGL WATER SOLUTIONS PERMIAN LLC)

### 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 checked="" type="checkbox"/> Produced Water	Volume Released (bbls) <b>8.2</b>	Volume Recovered (bbls) <b>8.2</b>
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

#### Cause of Release

The release was caused by a nipple and ball valve missing from the bottom of the water dump. The release occurred within the lined facility. A vacuum truck was dispatched to remove all freestanding fluids. Concho will have the spill area evaluated for any possible impact from the release.

Incident ID	NAPP2128531481
District RP	
Facility ID	
Application ID	

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

## Initial Response

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

<div style="display: flex; flex-direction: column; gap: 10px;"><div><input type="checkbox"/> The source of the release has been stopped.</div><div><input type="checkbox"/> The impacted area has been secured to protect human health and the environment.</div><div><input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.</div><div><input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.</div></div>	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
Printed Name <b>Brittany N. Esparza</b>	Title: <b>Environmental Technician</b>
Signature: 	Date: <b>10/11/2021</b>
email: <b>Brittany.Esparza@ConocoPhillips.com</b>	Telephone: <b>(432) 221-0398</b>
<b><u>OCD Only</u></b>	
Received by: _____	Date: _____

# L48 Spill Volume Estimate Form

Page 45 of 49

Received by OCD: 11/30/2021 3:51:08 PM

Facility Name & Number:	Eider 23
Asset Area:	DBE
Release Discovery Date & Time:	9/1/2021 2:00P.M.
Release Type:	Produced Water
Provide any known details about the event:	Turned well into test separator and didn't notice that nipple and ball valve were missing from under water dump.

## 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.)
Rectangle A	20.0	5.0	0.25	3	100.000	0.007	0.124	0.000	0.124
Rectangle B	15.0	20.0	0.50	2	300.000	0.021	1.113	0.001	1.114
Rectangle C	10.0	15.0	6.00	2	150.000	0.250	6.675	0.013	6.758
Rectangle D	8.0	20.0	0.25	3	160.000	0.007	0.198	0.000	0.198
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Rectangle J					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
Total Volume Release:									8.194

Released to Imaging: 12/27/2021 1:17:49 PM

Incident ID	NAPP2128531481
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>&lt;50</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.

## Oil Conservation Division

Incident ID	NAPP2128531481
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: 11/30/2021  
email: Kelsy.Waggaman@ConocoPhillips.com Telephone: (432) 688-9057

**OCD Only**

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

Incident ID	NAPP2128531481
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 19.15.29.12NMAC.

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

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

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

Printed Name: Kelsy Waggaman Title: Environmental Coordinator  
Signature: \_\_\_\_\_ Date: 11/30/2021  
email: Kelsy.Waggaman@ConocoPhillips.com Telephone: (432) 688 -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 64332

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 64332
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	12/27/2021