



May 9, 2022

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

**Re: Remediation Work Plan  
Macho Nacho State Com 010H  
Incident Number NAPP2132756247  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum) on behalf of COG Operating, LLC (COG), has prepared the following Remediation Work Plan to document the site assessment and soil sampling activities completed to date and propose a work plan to address the impacted soil identified at the Macho Nacho State Com 010H (Site), resulting from a crude oil flare fire. The following Work Plan proposes delineation and excavation of the impacted soil and installation of a depth to water boring to confirm the Closure Criteria at the Site.

#### **SITE DESCRIPTION AND RELEASE SUMMARY**

The Site is located in Unit M, Section 07, Township 24 South, Range 33 East, in Lea County, New Mexico (32.22551° N, 103.61708° W) and is associated with oil and gas exploration and production operations on New Mexico State Land.

On November 10, 2021, a heater swamped out, resulting in the release of approximately 0.5 barrels (bbls) of crude oil out of the flare and a fire on the well pad. No fluids were recovered. COG reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on November 10, 2021, and submitted a Release Notification Form C-141 (Form C-141) on November 23, 2021. The release was assigned Incident Number NAPP2132756247.

#### **SITE CHARACTERIZATION AND CLOSURE CRITERIA**

The Site was characterized 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). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) Well C-03565-POD 3, located approximately 8,134 feet northeast of the Site. The groundwater well has a reported depth to groundwater greater than 100 feet bgs and an unknown total depth. Ground surface elevation at the

groundwater well location is 3,639 feet above mean sea level (amsl), which is approximately 25 feet higher in elevation than the Site. All wells used for depth to water determination are depicted on Figure 1 and the referenced well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a freshwater emergent wetland, located approximately 2.18 miles northeast 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.

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 29, 2021, Ensolum personnel completed a Site visit to evaluate the release extent based on information provided on the Form C-141 and visual observations. Nine preliminary assessment soil samples (SS01 through SS09) were collected within and around the release extent from a depth of approximately 0.5 feet bgs to assess the lateral extent of the release. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride Hach® chloride QuanTab® test strips. The release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

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

Laboratory analytical results for preliminary soil samples SS02 and SS05, collected within the release extent, indicated that TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary samples SS01, SS03, SS04, collected within the release extent, and SS06 through SS09, collected around the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria and confirmed the lateral extent of the release. Based on visible staining in the release area and laboratory analytical results for the preliminary soil samples, additional remediation activities are warranted. The laboratory analytical results are summarized on the attached Table 1 and the complete laboratory analytical report is included in Appendix C.

## PROPOSED REMEDIATION WORK PLAN

The results from the preliminary assessment soil sampling indicate soil containing elevated TPH concentrations is present in an approximate 700 square foot area around soil samples SS02 and SS05. COG proposes installation of a depth to water boring within 0.5 miles of the release to confirm the applied Closure Criteria, excavation of the TPH impacted soil to below the established Closure Criteria, and additional delineation activities to confirm the extent of the release.

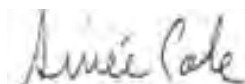
COG requests approval to complete the following remediation activities:

- In order to confirm depth to groundwater is greater than 100 feet bgs at the Site and confirm the applied Closure Criteria, Ensolum and COG propose to complete a depth to water boring within 0.5 miles of the release. The soil boring will be advanced to a depth of approximately 110 feet bgs or until groundwater is encountered. An Ensolum geologist will log and describe soils continuously and will document observations on a lithologic/ soil sampling log. The borehole will be left open for over 72 hours to allow for the potential slow infill of groundwater. Following the 72-hour waiting period depth to groundwater will be measured or the Ensolum geologist will confirm the boring is dry. The borehole will be properly abandoned following NMOSE procedures. Ensolum and COG will include documentation of the soil boring installation and lithologic/ soil sampling log in the subsequent closure request.
- Following confirmation of depth to groundwater, COG will proceed with lateral and vertical excavation of TPH impacted soil to below the established Site Closure Criteria. The estimated excavation extent is shown on Figure 3. An estimated 30 cubic yards of impacted soil will be excavated and disposed of at a licensed disposal facility.
- Following removal of the impacted soil, 5-point composite samples will be collected at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples will be collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation samples will be submitted for laboratory analysis of BTEX, TPH, and chloride.
- Vertical delineation will be completed at the SS01, SS03, and SS04 preliminary soil sample locations, to confirm the absence of impacted soil within the release extent. The proposed delineation locations are provided on Figure 3.
- The excavation will be backfilled and recontoured to match pre-existing conditions.

COG will complete the delineation and excavation activities within 90 days of the date of approval of this Work Plan by the NMOCD. The depth to water boring will be completed as soon as possible following approval from the surface landowner and scheduling with a driller. The Final C-141 is attached in Appendix E.

If you have any questions or comments, please contact Ms. Aimee Cole at (720) 384-7365 or [acole@ensolum.com](mailto:acole@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Kalei Jennings  
Senior Scientist

Aimee Cole  
Senior Managing Scientist

cc: Charles Beauvais, COG Operating, LLC  
New Mexico State Land Office

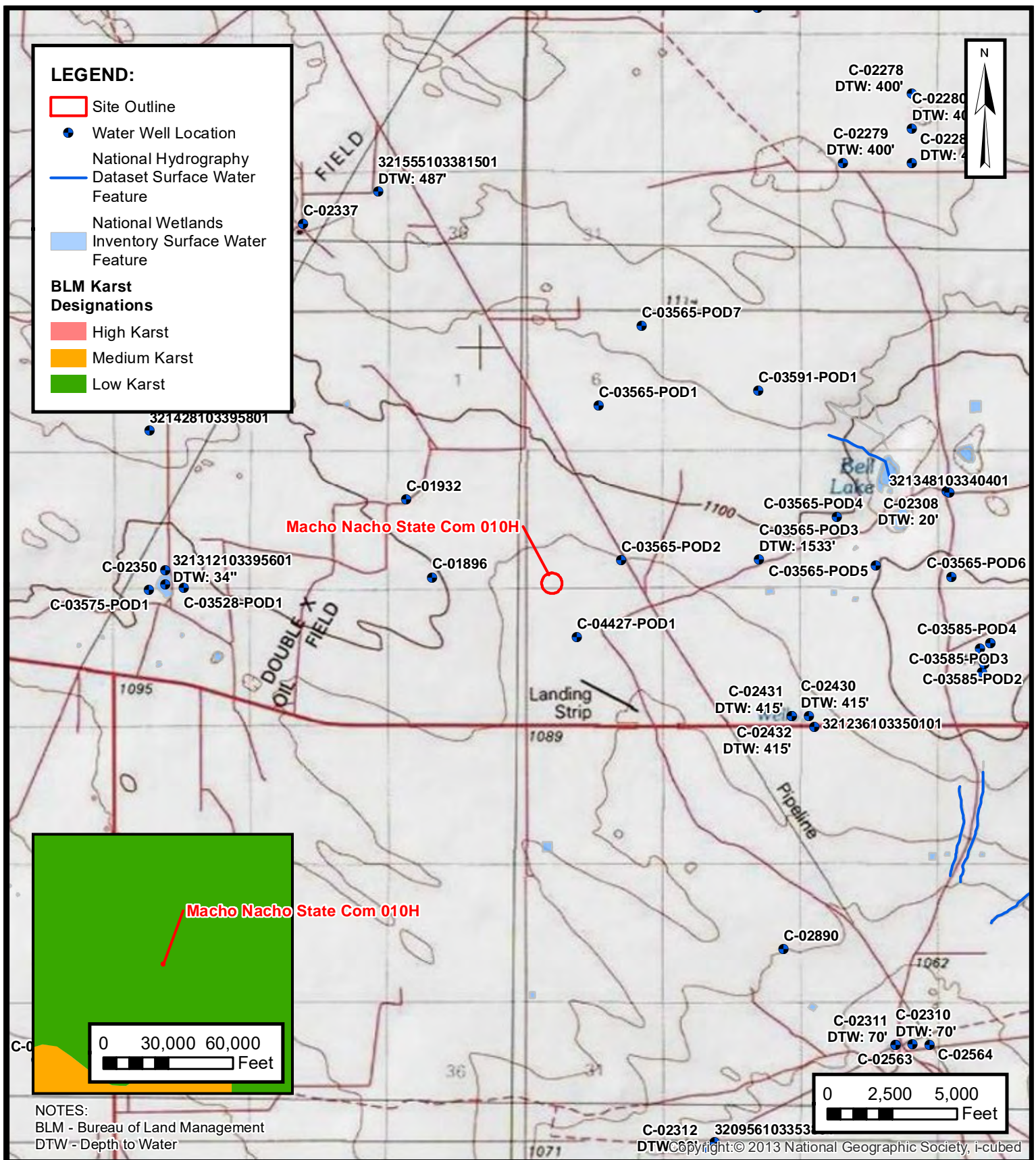
Appendices:

Figure 1	Site Receptor Map
Figure 2	Preliminary Soil Sample Locations
Figure 3	Proposed Delineation Locations and Estimated Excavation Extent
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Results
Appendix D	NMOCD Notifications
Appendix E	Final C-141



FIGURES





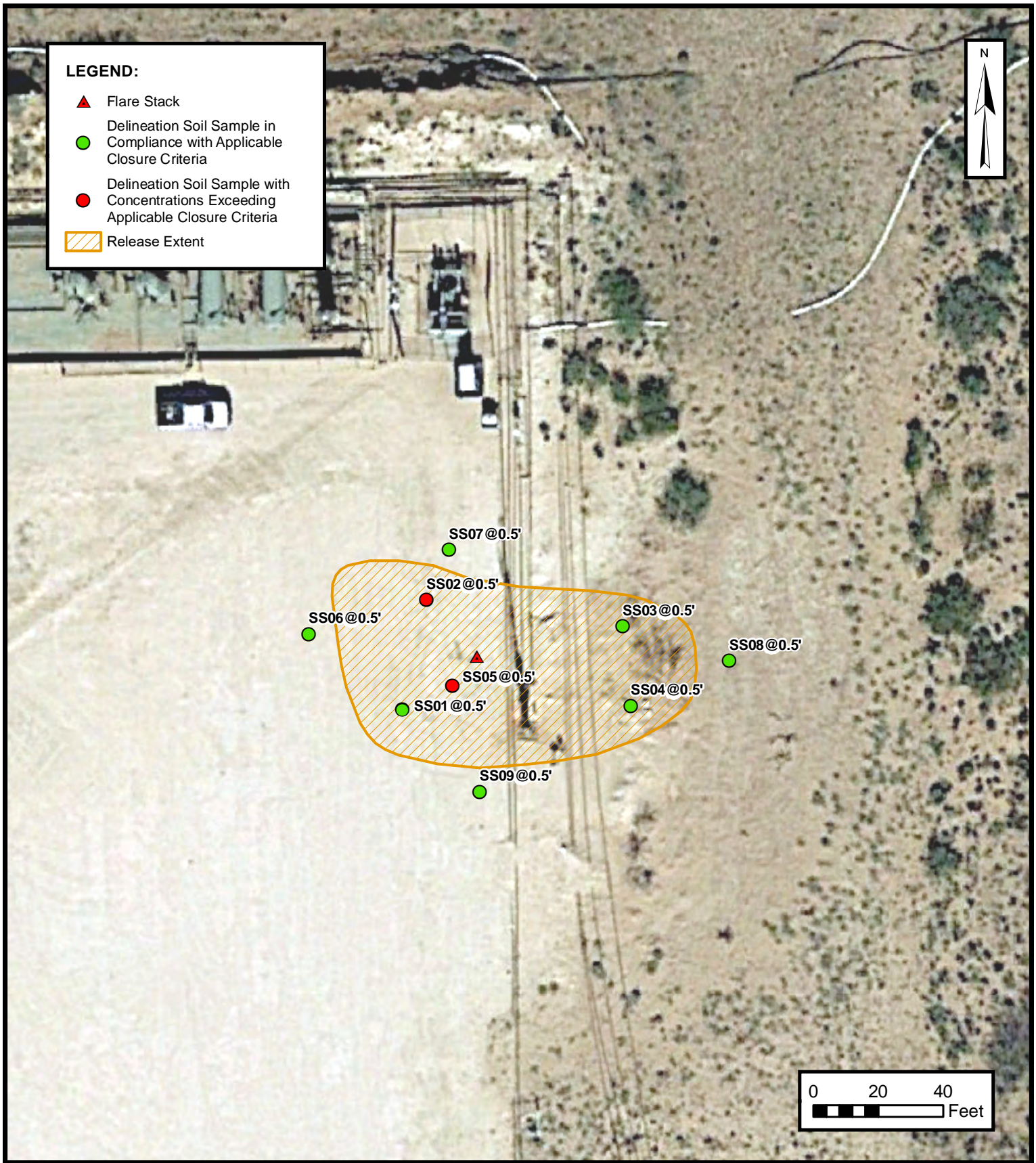
## SITE RECEPTOR MAP

CONOCOPHILLIPS COMPANY  
MACHO NACHO STATE COM 010H  
Incident Number NAPP2132756247  
Unit M. Sec 07, T24S, R33E  
Lea County, New Mexico

**FIGURE**

1



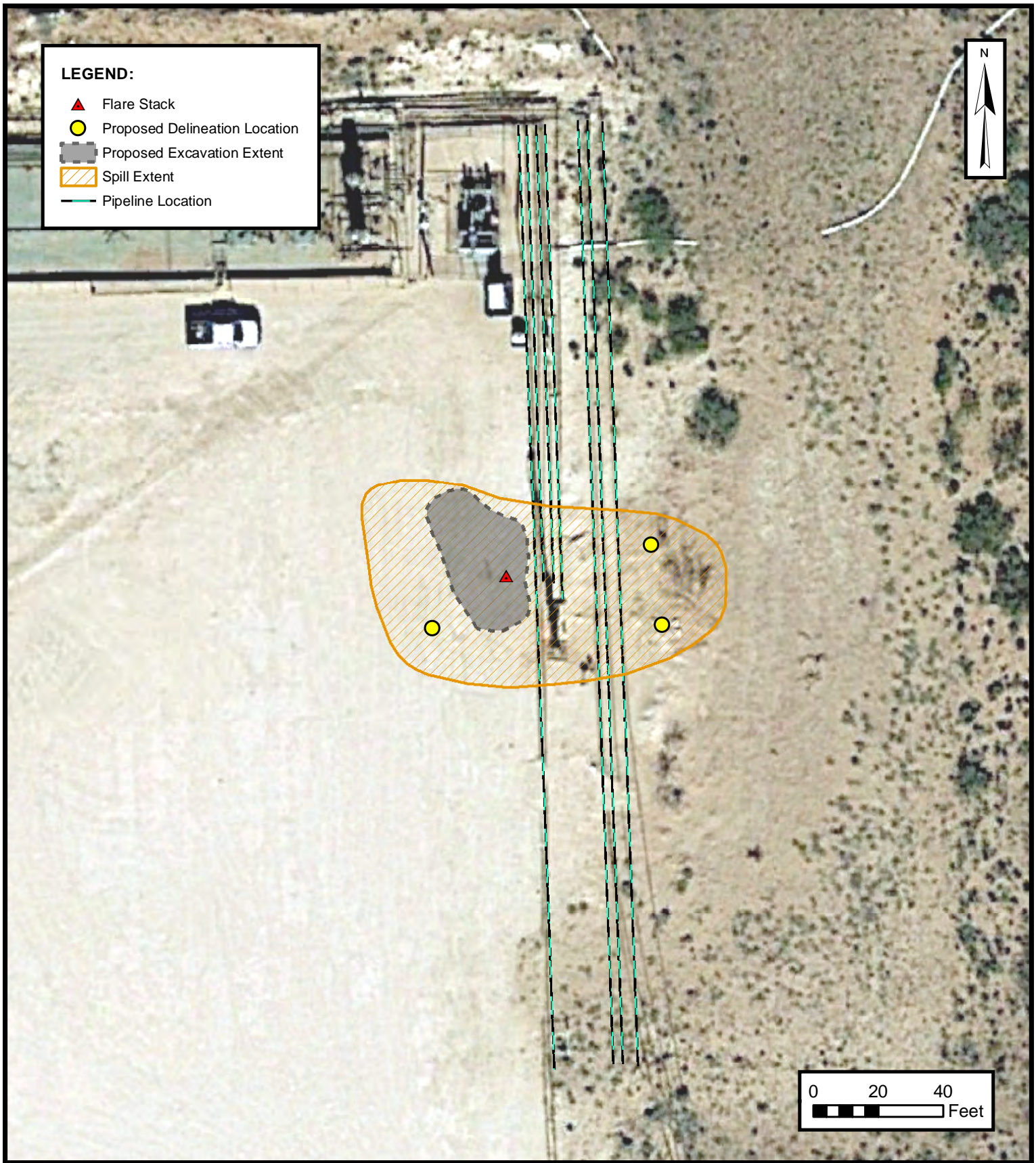


**PRELIMINARY SOIL SAMPLE LOCATIONS**

CONOCOPHILLIPS COMPANY  
MACHO NACHO STATE COM 010H  
NAPP2132756247  
Unit M. Sec 07, T24S, R33E  
Lea County, New Mexico

**FIGURE**  
**2**





**PROPOSED DELINEATION LOCATIONS AND ESTIMATED  
EXCAVATION EXTENT**  
CONOCOPHILLIPS COMPANY  
MACHO NACHO STATE COM 010H  
NAPP2132756247  
Unit M. Sec 07, T24S, R33E  
Lea County, New Mexico

**FIGURE  
2**

**ENSOLUM**  
Environmental & Hydrogeologic Consultants





TABLES



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 ConocoPhillips Company. - Macho Nacho State Com 010H  
 Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	1,000	2,500	20,000
Delineation Soil Sample Analytical Results										
SS01	11/29/2021	0.5	<0.00199	<0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	<4.99
SS02	11/29/2021	0.5	<0.00202	<0.00404	4,540	<50.0	<50.0	<b>4,540</b>	<b>4,540</b>	47.7
SS03	11/29/2021	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	<49.5
SS04	11/29/2021	0.5	<0.00198	<0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	<5.02
SS05	11/29/2021	0.5	<0.00199	<0.00398	3,760	<49.8	<49.8	<b>3,760</b>	<b>3,760</b>	56.7
SS07	11/29/2021	0.5	<0.00201	<0.00402	57.0	<49.8	<49.8	57.0	57.0	17.6
SS08	11/29/2021	0.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	<5.00
SS09	11/29/2021	0.5	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<4.96

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria for Soils Impacted by a Release





## APPENDIX A

### Referenced Well Records

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# New Mexico Office of the State Engineer

## Water Right Summary


[get image list](#)

WR File Number: C 03565

Subbasin: CUB

Cross Reference: -

Primary Purpose: EXP EXPLORATION

Primary Status:

Total Acres:

Subfile: -

Header: -

Total Diversion: 0

Cause/Case: -

Owner: INTERCONTINENTAL POTASH CORP

Contact: TOM COPE

### Documents on File

Trn #	Doc	File/Act	Status		Transaction Desc.	From/ To	Acres	Diversion	Consumptive
			1	2					
<a href="#">get images</a>	509298	EXPL 2012-08-07	PMT	APR	C 03565	T	0	0	

### Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q				X	Y	Other Location Desc
			64	Q16	Q4	Sec Tw	Rng		
<a href="#">C 03565 POD1</a>			1	4	06	24S	33E	630871	3568316 ICP-083
<a href="#">C 03565 POD2</a>			3	4	07	24S	33E	631156	3566515 ICP-084
<a href="#">C 03565 POD3</a>			3	4	08	24S	33E	632763	3566546 ICP-085
<a href="#">C 03565 POD4</a>			4	1	09	24S	33E	633672	3567057 ICP-086
<a href="#">C 03565 POD5</a>			3	4	09	24S	33E	634135	3566496 ICP-87
<a href="#">C 03565 POD6</a>			3	3	10	24S	33E	635022	3566373 ICP-089
<a href="#">C 03565 POD7</a>			2	2	06	24S	33E	631361	3569250 ICP-090
<a href="#">C 03565 POD8</a>			4	1	15	24S	33E	635485	3565610 ICP-092
<a href="#">C 03565 POD9</a>			4	4	15	24S	33E	636430	3565005 ICP-093

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.

11/29/21 8:14 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)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	03565 POD3	3	4	08	24S	33E	632763	3566546	

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**Driller License:** 331 **Driller Company:** SBQ2, LLC DBA STEWART BROTHERS DRILLING CO.

**Driller Name:**

**Drill Start Date:** 09/27/2012 **Drill Finish Date:** 10/21/2012 **Plug Date:**

**Log File Date:** 12/11/2012 **PCW Rev Date:** **Source:**

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

**Casing Size:** 8.90 **Depth Well:** **Depth Water:** 1533 feet

### Water Bearing Stratifications:

Top	Bottom	Description
0	20	Other/Unknown
20	55	Sandstone/Gravel/Conglomerate
55	1227	Shale/Mudstone/Siltstone
1227	1262	Other/Unknown
1262	1295	Other/Unknown
1295	1310	Other/Unknown
1310	1330	Other/Unknown
1330	1375	Other/Unknown
1479	1489	Other/Unknown
1489	1533	Other/Unknown

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.

11/29/21 8:14 AM

POINT OF DIVERSION SUMMARY



USGS Home  
Contact USGS  
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## National Water Information System: Web Interface

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

Click to hide News Bulletins

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

# USGS 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

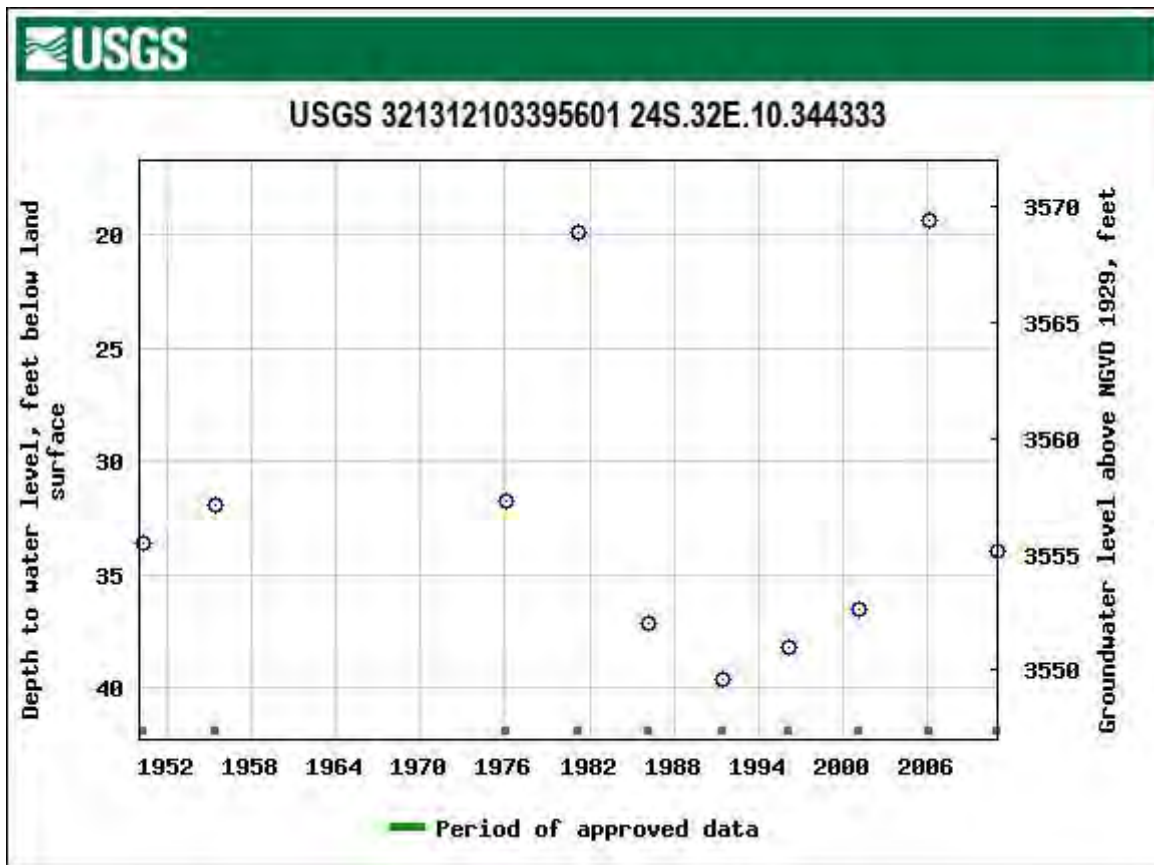
### AVAILABLE DATA:

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](#)







## APPENDIX B

### Photographic Log

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**Photographic Log**

ConocoPhillips Company  
Macho Nacho State Com 010H  
Incident Number NAPP232756247



Photograph 1

Date: November 29, 2021

Description: View of release extent facing northeast.



Photograph 2

Date: November 29, 2021

Description: View of flare area facing northwest.





## APPENDIX C

### Laboratory Analytical Reports & Chain of Custody Documentation

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## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1653-1

Laboratory Sample Delivery Group: 31403720.000 Task 15.02  
Client Project/Site: Macho Nacho State Com 010H

**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 10:27:32 AM

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

#### LINKS

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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: Macho Nacho State Com 010H

Laboratory Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

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## Definitions/Glossary

Client: WSP USA Inc.

Job ID: 890-1653-1

Project/Site: Macho Nacho State Com 010H

SDG: 31403720.000 Task 15.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
S1-	Surrogate recovery exceeds control limits, low biased.
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: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

**Job ID: 890-1653-1****Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative  
890-1653-1****Receipt**

The samples were received on 11/29/2021 2:05 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 1.2°C

**GC VOA**

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

**GC Semi VOA**

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: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS01

Lab Sample ID: 890-1653-1

Date Collected: 11/29/21 10:55

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/02/21 23:31	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/02/21 23:31	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/02/21 23:31	1
m-Xylene & p-Xylene	<0.00398	U F1	0.00398	mg/Kg		12/01/21 10:18	12/02/21 23:31	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/02/21 23:31	1
Xylenes, Total	<0.00398	U F1	0.00398	mg/Kg		12/01/21 10:18	12/02/21 23:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130	12/01/21 10:18	12/02/21 23:31	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/01/21 10:18	12/02/21 23:31	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			12/03/21 10:44	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		12/03/21 08:25	12/03/21 14:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 14:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 14:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	12/03/21 08:25	12/03/21 14:55	1
o-Terphenyl	82		70 - 130	12/03/21 08:25	12/03/21 14:55	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99	mg/Kg			12/09/21 05:59	1

Client Sample ID: SS02

Lab Sample ID: 890-1653-2

Date Collected: 11/29/21 10:57

Matrix: Solid

Date Received: 11/29/21 14:05

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 10:18	12/02/21 23:52	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/01/21 10:18	12/02/21 23:52	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/01/21 10:18	12/02/21 23:52	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		12/01/21 10:18	12/02/21 23:52	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/01/21 10:18	12/02/21 23:52	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		12/01/21 10:18	12/02/21 23:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/01/21 10:18	12/02/21 23:52	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS02

Lab Sample ID: 890-1653-2

Date Collected: 11/29/21 10:57

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	104		70 - 130	12/01/21 10:18	12/02/21 23:52	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			12/03/21 10:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	4540		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		12/03/21 08:25	12/03/21 15:16	1
Diesel Range Organics (Over C10-C28)	4540		50.0	mg/Kg		12/03/21 08:25	12/03/21 15:16	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 15:16	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	81		70 - 130			12/03/21 08:25	12/03/21 15:16	1
o-Terphenyl	77		70 - 130			12/03/21 08:25	12/03/21 15:16	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	47.7		5.00	mg/Kg			12/09/21 06:05	1

Client Sample ID: SS03

Lab Sample ID: 890-1653-3

Date Collected: 11/29/21 11:04

Matrix: Solid

Date Received: 11/29/21 14:05

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		12/01/21 10:18	12/03/21 00:12	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/03/21 00:12	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/03/21 00:12	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/01/21 10:18	12/03/21 00:12	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/03/21 00:12	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 10:18	12/03/21 00:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		70 - 130	12/01/21 10:18	12/03/21 00:12	1
1,4-Difluorobenzene (Surr)	101		70 - 130	12/01/21 10:18	12/03/21 00:12	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			12/03/21 10:44	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

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

## Client Sample ID: SS03

## Lab Sample ID: 890-1653-3

Date Collected: 11/29/21 11:04

Matrix: Solid

Date Received: 11/29/21 14:05

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		12/03/21 08:25	12/03/21 15:38	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 15:38	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 15:38	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	78		70 - 130			12/03/21 08:25	12/03/21 15:38	1
o-Terphenyl	74		70 - 130			12/03/21 08:25	12/03/21 15:38	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.95	U	4.95	mg/Kg			12/09/21 06:12	1

## Client Sample ID: SS04

## Lab Sample ID: 890-1653-4

Date Collected: 11/29/21 11:01

Matrix: Solid

Date Received: 11/29/21 14:05

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		12/01/21 10:18	12/03/21 00:32	1
Toluene	<0.00198	U	0.00198	mg/Kg		12/01/21 10:18	12/03/21 00:32	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		12/01/21 10:18	12/03/21 00:32	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		12/01/21 10:18	12/03/21 00:32	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		12/01/21 10:18	12/03/21 00:32	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		12/01/21 10:18	12/03/21 00:32	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	117		70 - 130			12/01/21 10:18	12/03/21 00:32	1
1,4-Difluorobenzene (Surr)	97		70 - 130			12/01/21 10:18	12/03/21 00:32	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			12/03/21 10:44	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		12/03/21 08:25	12/03/21 16:21	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 16:21	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 16:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	43	S1-	70 - 130			12/03/21 08:25	12/03/21 16:21	1
o-Terphenyl	77		70 - 130			12/03/21 08:25	12/03/21 16:21	1

Eurofins Xenco, Carlsbad



## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

## Client Sample ID: SS04

## Lab Sample ID: 890-1653-4

Date Collected: 11/29/21 11:01

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.02	U	5.02	mg/Kg			12/09/21 06:32	1

## Client Sample ID: SS05

## Lab Sample ID: 890-1653-5

Date Collected: 11/29/21 11:10

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/03/21 00:53	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/03/21 00:53	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/03/21 00:53	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/01/21 10:18	12/03/21 00:53	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/03/21 00:53	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 10:18	12/03/21 00:53	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	138	S1+	70 - 130			12/01/21 10:18	12/03/21 00:53	1
1,4-Difluorobenzene (Surr)	103		70 - 130			12/01/21 10:18	12/03/21 00:53	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			12/03/21 10:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	3760		49.8	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	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 16:43	1
Diesel Range Organics (Over C10-C28)	3760		49.8	mg/Kg		12/03/21 08:25	12/03/21 16:43	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 16:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	72		70 - 130			12/03/21 08:25	12/03/21 16:43	1
o-Terphenyl	67	S1-	70 - 130			12/03/21 08:25	12/03/21 16:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.7		4.97	mg/Kg			12/09/21 06:39	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS06

Lab Sample ID: 890-1653-6

Date Collected: 11/29/21 11:37

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/03/21 01:13	1
Toluene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/03/21 01:13	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/03/21 01:13	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		12/01/21 10:18	12/03/21 01:13	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		12/01/21 10:18	12/03/21 01:13	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		12/01/21 10:18	12/03/21 01:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/01/21 10:18	12/03/21 01:13	1
1,4-Difluorobenzene (Surr)	100		70 - 130	12/01/21 10:18	12/03/21 01:13	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			12/03/21 10:44	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		12/03/21 08:25	12/03/21 17:05	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 17:05	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		12/03/21 08:25	12/03/21 17:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	76		70 - 130	12/03/21 08:25	12/03/21 17:05	1
o-Terphenyl	72		70 - 130	12/03/21 08:25	12/03/21 17:05	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	172		4.95	mg/Kg			12/09/21 06:45	1

Client Sample ID: SS07

Lab Sample ID: 890-1653-7

Date Collected: 11/29/21 11:39

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		12/01/21 10:18	12/03/21 01:34	1
Toluene	<0.00201	U	0.00201	mg/Kg		12/01/21 10:18	12/03/21 01:34	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		12/01/21 10:18	12/03/21 01:34	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		12/01/21 10:18	12/03/21 01:34	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		12/01/21 10:18	12/03/21 01:34	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		12/01/21 10:18	12/03/21 01:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	124		70 - 130	12/01/21 10:18	12/03/21 01:34	1

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS07

Lab Sample ID: 890-1653-7

Date Collected: 11/29/21 11:39

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	99		70 - 130	12/01/21 10:18	12/03/21 01:34	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			12/03/21 10:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	57		49.8	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	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 17:27	1
Diesel Range Organics (Over C10-C28)	57		49.8	mg/Kg		12/03/21 08:25	12/03/21 17:27	1
Oil Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		12/03/21 08:25	12/03/21 17:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130			12/03/21 08:25	12/03/21 17:27	1
o-Terphenyl	71		70 - 130			12/03/21 08:25	12/03/21 17:27	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	17.6		4.99	mg/Kg			12/09/21 06:52	1

Client Sample ID: SS08

Lab Sample ID: 890-1653-8

Date Collected: 11/29/21 11:42

Matrix: Solid

Date Received: 11/29/21 14:05

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		12/01/21 10:18	12/03/21 01:54	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/03/21 01:54	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/03/21 01:54	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		12/01/21 10:18	12/03/21 01:54	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/03/21 01:54	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		12/01/21 10:18	12/03/21 01:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130	12/01/21 10:18	12/03/21 01:54	1
1,4-Difluorobenzene (Surr)	84		70 - 130	12/01/21 10:18	12/03/21 01:54	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			12/03/21 10:44	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

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS08

Lab Sample ID: 890-1653-8

Date Collected: 11/29/21 11:42

Matrix: Solid

Date Received: 11/29/21 14:05

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 17:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 17:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 17:48	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	68	S1-	70 - 130			12/03/21 08:25	12/03/21 17:48	1
o-Terphenyl	66	S1-	70 - 130			12/03/21 08:25	12/03/21 17:48	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00	mg/Kg			12/09/21 06:59	1

Client Sample ID: SS09

Lab Sample ID: 890-1653-9

Date Collected: 11/29/21 11:44

Matrix: Solid

Date Received: 11/29/21 14:05

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 10:18	12/03/21 02:14	1
Toluene	<0.00202	U	0.00202	mg/Kg		12/01/21 10:18	12/03/21 02:14	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		12/01/21 10:18	12/03/21 02:14	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		12/01/21 10:18	12/03/21 02:14	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		12/01/21 10:18	12/03/21 02:14	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		12/01/21 10:18	12/03/21 02:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130			12/01/21 10:18	12/03/21 02:14	1
1,4-Difluorobenzene (Surr)	95		70 - 130			12/01/21 10:18	12/03/21 02:14	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			12/03/21 10:44	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		12/03/21 08:25	12/03/21 18:09	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 18:09	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	77		70 - 130			12/03/21 08:25	12/03/21 18:09	1
o-Terphenyl	75		70 - 130			12/03/21 08:25	12/03/21 18:09	1

Eurofins Xenco, Carlsbad



Client Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS09  
Date Collected: 11/29/21 11:44  
Date Received: 11/29/21 14:05  
Sample Depth: 0.5

Lab Sample ID: 890-1653-9  
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.96	U F1	4.96	mg/Kg			12/09/21 07:05	1

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

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

## 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)
890-1653-1	SS01	126	100
890-1653-1 MS	SS01	149 S1+	81
890-1653-1 MSD	SS01	119	102
890-1653-2	SS02	114	104
890-1653-3	SS03	121	101
890-1653-4	SS04	117	97
890-1653-5	SS05	138 S1+	103
890-1653-6	SS06	122	100
890-1653-7	SS07	124	99
890-1653-8	SS08	114	84
890-1653-9	SS09	113	95
LCS 880-13446/1-A	Lab Control Sample	112	99
LCSD 880-13446/2-A	Lab Control Sample Dup	111	96
MB 880-13446/5-A	Method Blank	122	99
MB 880-13455/5-A	Method Blank	123	99
<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)
890-1653-1	SS01	82	82
890-1653-2	SS02	81	77
890-1653-3	SS03	78	74
890-1653-4	SS04	43 S1-	77
890-1653-5	SS05	72	67 S1-
890-1653-6	SS06	76	72
890-1653-7	SS07	71	71
890-1653-8	SS08	68 S1-	66 S1-
890-1653-9	SS09	77	75
890-1658-A-1-D MS	Matrix Spike	71	65 S1-
890-1658-A-1-E MSD	Matrix Spike Duplicate	72	65 S1-
LCS 880-13833/2-A	Lab Control Sample	64 S1-	61 S1-
LCSD 880-13833/3-A	Lab Control Sample Dup	69 S1-	68 S1-
MB 880-13833/1-A	Method Blank	97	97
<b>Surrogate Legend</b>			
1CO = 1-Chlorooctane			
OTPH = o-Terphenyl			

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

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

Lab Sample ID: MB 880-13446/5-A

Matrix: Solid

Analysis Batch: 13722

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13446

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/02/21 23:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/02/21 23:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/02/21 23:02	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/01/21 10:18	12/02/21 23:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 10:18	12/02/21 23:02	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 10:18	12/02/21 23:02	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	12/01/21 10:18	12/02/21 23:02	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/01/21 10:18	12/02/21 23:02	1

Lab Sample ID: LCS 880-13446/1-A

Matrix: Solid

Analysis Batch: 13722

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13446

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.09337		mg/Kg		93	70 - 130
Toluene	0.100	0.09366		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.09097		mg/Kg		91	70 - 130
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	0.100	0.09086		mg/Kg		91	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	112		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: LCSD 880-13446/2-A

Matrix: Solid

Analysis Batch: 13722

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13446

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08752		mg/Kg		88	70 - 130	6	35
Toluene	0.100	0.09320		mg/Kg		93	70 - 130	0	35
Ethylbenzene	0.100	0.09679		mg/Kg		97	70 - 130	6	35
m-Xylene & p-Xylene	0.200	0.1908		mg/Kg		95	70 - 130	6	35
o-Xylene	0.100	0.09434		mg/Kg		94	70 - 130	4	35

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

Lab Sample ID: 890-1653-1 MS

Matrix: Solid

Analysis Batch: 13722

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 13446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00199	U	0.100	0.08598		mg/Kg		85	70 - 130
Toluene	<0.00199	U	0.100	0.07857		mg/Kg		78	70 - 130

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

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

Lab Sample ID: 890-1653-1 MS

Matrix: Solid

Analysis Batch: 13722

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 13446

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00199	U	0.100	0.08168		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	<0.00398	U F1	0.201	0.1022	F1	mg/Kg		50	70 - 130
o-Xylene	<0.00199	U	0.100	0.08337		mg/Kg		81	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	149	S1+	70 - 130
1,4-Difluorobenzene (Surr)	81		70 - 130

Lab Sample ID: 890-1653-1 MSD

Matrix: Solid

Analysis Batch: 13722

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 13446

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00199	U	0.100	0.07355		mg/Kg		73	70 - 130	16	35
Toluene	<0.00199	U	0.100	0.07570		mg/Kg		76	70 - 130	4	35
Ethylbenzene	<0.00199	U	0.100	0.07810		mg/Kg		78	70 - 130	4	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.09868	F1	mg/Kg		48	70 - 130	3	35
o-Xylene	<0.00199	U	0.100	0.07790		mg/Kg		76	70 - 130	7	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	119		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-13455/5-A

Matrix: Solid

Analysis Batch: 13722

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13455

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		12/01/21 11:07	12/02/21 11:28	1
Toluene	<0.00200	U	0.00200	mg/Kg		12/01/21 11:07	12/02/21 11:28	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		12/01/21 11:07	12/02/21 11:28	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		12/01/21 11:07	12/02/21 11:28	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		12/01/21 11:07	12/02/21 11:28	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		12/01/21 11:07	12/02/21 11:28	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	12/01/21 11:07	12/02/21 11:28	1
1,4-Difluorobenzene (Surr)	99		70 - 130	12/01/21 11:07	12/02/21 11:28	1

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

Lab Sample ID: MB 880-13833/1-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13833

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		12/03/21 08:25	12/03/21 10:36	1

Eurofins Xenco, Carlsbad



## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

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

Lab Sample ID: MB 880-13833/1-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 13833

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		12/03/21 08:25	12/03/21 10:36	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		12/03/21 08:25	12/03/21 10:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130			12/03/21 08:25	12/03/21 10:36	1
o-Terphenyl	97		70 - 130			12/03/21 08:25	12/03/21 10:36	1

Lab Sample ID: LCS 880-13833/2-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	839.3		mg/Kg		84	70 - 130
Diesel Range Organics (Over C10-C28)	1000	712.0		mg/Kg		71	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	64	S1-	70 - 130				
o-Terphenyl	61	S1-	70 - 130				

Lab Sample ID: LCSD 880-13833/3-A

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	831.2		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	1000	800.1		mg/Kg		80	70 - 130	12	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	69	S1-	70 - 130						
o-Terphenyl	68	S1-	70 - 130						

Lab Sample ID: 890-1658-A-1-D MS

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 13833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	997	821.0		mg/Kg		82	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U	997	827.5		mg/Kg		83	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	71		70 - 130						
o-Terphenyl	65	S1-	70 - 130						

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

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

Lab Sample ID: 890-1658-A-1-E MSD

Matrix: Solid

Analysis Batch: 13850

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 13833

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	<50.0	U	999	830.7		mg/Kg		83	70 - 130	1	20
Diesel Range Organics (Over C10-C28)	<50.0	U	999	837.0		mg/Kg		84	70 - 130	1	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	72		70 - 130								
o-Terphenyl	65	S1-	70 - 130								

## 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: 890-1653-9 MS

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: SS09

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	<4.96	U F1	248	284.4	F1	mg/Kg		115	90 - 110

Lab Sample ID: 890-1653-9 MSD

Matrix: Solid

Analysis Batch: 14305

Client Sample ID: SS09

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<4.96	U F1	248	286.7	F1	mg/Kg		116	90 - 110	1	20

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

## GC VOA

## Prep Batch: 13446

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-1	SS01	Total/NA	Solid	5035	
890-1653-2	SS02	Total/NA	Solid	5035	
890-1653-3	SS03	Total/NA	Solid	5035	
890-1653-4	SS04	Total/NA	Solid	5035	
890-1653-5	SS05	Total/NA	Solid	5035	
890-1653-6	SS06	Total/NA	Solid	5035	
890-1653-7	SS07	Total/NA	Solid	5035	
890-1653-8	SS08	Total/NA	Solid	5035	
890-1653-9	SS09	Total/NA	Solid	5035	
MB 880-13446/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-13446/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-13446/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1653-1 MS	SS01	Total/NA	Solid	5035	
890-1653-1 MSD	SS01	Total/NA	Solid	5035	

## Prep Batch: 13455

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-13455/5-A	Method Blank	Total/NA	Solid	5035	

## Analysis Batch: 13722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-1	SS01	Total/NA	Solid	8021B	13446
890-1653-2	SS02	Total/NA	Solid	8021B	13446
890-1653-3	SS03	Total/NA	Solid	8021B	13446
890-1653-4	SS04	Total/NA	Solid	8021B	13446
890-1653-5	SS05	Total/NA	Solid	8021B	13446
890-1653-6	SS06	Total/NA	Solid	8021B	13446
890-1653-7	SS07	Total/NA	Solid	8021B	13446
890-1653-8	SS08	Total/NA	Solid	8021B	13446
890-1653-9	SS09	Total/NA	Solid	8021B	13446
MB 880-13446/5-A	Method Blank	Total/NA	Solid	8021B	13446
MB 880-13455/5-A	Method Blank	Total/NA	Solid	8021B	13455
LCS 880-13446/1-A	Lab Control Sample	Total/NA	Solid	8021B	13446
LCSD 880-13446/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	13446
890-1653-1 MS	SS01	Total/NA	Solid	8021B	13446
890-1653-1 MSD	SS01	Total/NA	Solid	8021B	13446

## Analysis Batch: 13868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-1	SS01	Total/NA	Solid	Total BTEX	
890-1653-2	SS02	Total/NA	Solid	Total BTEX	
890-1653-3	SS03	Total/NA	Solid	Total BTEX	
890-1653-4	SS04	Total/NA	Solid	Total BTEX	
890-1653-5	SS05	Total/NA	Solid	Total BTEX	
890-1653-6	SS06	Total/NA	Solid	Total BTEX	
890-1653-7	SS07	Total/NA	Solid	Total BTEX	
890-1653-8	SS08	Total/NA	Solid	Total BTEX	
890-1653-9	SS09	Total/NA	Solid	Total BTEX	

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

## GC Semi VOA

## Prep Batch: 13833

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-1	SS01	Total/NA	Solid	8015NM Prep	
890-1653-2	SS02	Total/NA	Solid	8015NM Prep	
890-1653-3	SS03	Total/NA	Solid	8015NM Prep	
890-1653-4	SS04	Total/NA	Solid	8015NM Prep	
890-1653-5	SS05	Total/NA	Solid	8015NM Prep	
890-1653-6	SS06	Total/NA	Solid	8015NM Prep	
890-1653-7	SS07	Total/NA	Solid	8015NM Prep	
890-1653-8	SS08	Total/NA	Solid	8015NM Prep	
890-1653-9	SS09	Total/NA	Solid	8015NM Prep	
MB 880-13833/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-13833/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-13833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1658-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1658-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 13850

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-1	SS01	Total/NA	Solid	8015B NM	13833
890-1653-2	SS02	Total/NA	Solid	8015B NM	13833
890-1653-3	SS03	Total/NA	Solid	8015B NM	13833
890-1653-4	SS04	Total/NA	Solid	8015B NM	13833
890-1653-5	SS05	Total/NA	Solid	8015B NM	13833
890-1653-6	SS06	Total/NA	Solid	8015B NM	13833
890-1653-7	SS07	Total/NA	Solid	8015B NM	13833
890-1653-8	SS08	Total/NA	Solid	8015B NM	13833
890-1653-9	SS09	Total/NA	Solid	8015B NM	13833
MB 880-13833/1-A	Method Blank	Total/NA	Solid	8015B NM	13833
LCS 880-13833/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	13833
LCSD 880-13833/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	13833
890-1658-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	13833
890-1658-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	13833

## Analysis Batch: 14112

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-1	SS01	Total/NA	Solid	8015 NM	
890-1653-2	SS02	Total/NA	Solid	8015 NM	
890-1653-3	SS03	Total/NA	Solid	8015 NM	
890-1653-4	SS04	Total/NA	Solid	8015 NM	
890-1653-5	SS05	Total/NA	Solid	8015 NM	
890-1653-6	SS06	Total/NA	Solid	8015 NM	
890-1653-7	SS07	Total/NA	Solid	8015 NM	
890-1653-8	SS08	Total/NA	Solid	8015 NM	
890-1653-9	SS09	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 13650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-1	SS01	Soluble	Solid	DI Leach	
890-1653-2	SS02	Soluble	Solid	DI Leach	
890-1653-3	SS03	Soluble	Solid	DI Leach	

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

## HPLC/IC (Continued)

## Leach Batch: 13650 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-4	SS04	Soluble	Solid	DI Leach	
890-1653-5	SS05	Soluble	Solid	DI Leach	
890-1653-6	SS06	Soluble	Solid	DI Leach	
890-1653-7	SS07	Soluble	Solid	DI Leach	
890-1653-8	SS08	Soluble	Solid	DI Leach	
890-1653-9	SS09	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	
890-1653-9 MS	SS09	Soluble	Solid	DI Leach	
890-1653-9 MSD	SS09	Soluble	Solid	DI Leach	

## Analysis Batch: 14305

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1653-1	SS01	Soluble	Solid	300.0	13650
890-1653-2	SS02	Soluble	Solid	300.0	13650
890-1653-3	SS03	Soluble	Solid	300.0	13650
890-1653-4	SS04	Soluble	Solid	300.0	13650
890-1653-5	SS05	Soluble	Solid	300.0	13650
890-1653-6	SS06	Soluble	Solid	300.0	13650
890-1653-7	SS07	Soluble	Solid	300.0	13650
890-1653-8	SS08	Soluble	Solid	300.0	13650
890-1653-9	SS09	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
890-1653-9 MS	SS09	Soluble	Solid	300.0	13650
890-1653-9 MSD	SS09	Soluble	Solid	300.0	13650



## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS01

Lab Sample ID: 890-1653-1

Date Collected: 11/29/21 10:55

Matrix: Solid

Date Received: 11/29/21 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/02/21 23:31	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 14:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 05:59	CH	XEN MID

Client Sample ID: SS02

Lab Sample ID: 890-1653-2

Date Collected: 11/29/21 10:57

Matrix: Solid

Date Received: 11/29/21 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/02/21 23:52	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 15:16	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 06:05	CH	XEN MID

Client Sample ID: SS03

Lab Sample ID: 890-1653-3

Date Collected: 11/29/21 11:04

Matrix: Solid

Date Received: 11/29/21 14:05

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	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/03/21 00:12	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 15:38	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 06:12	CH	XEN MID

Client Sample ID: SS04

Lab Sample ID: 890-1653-4

Date Collected: 11/29/21 11:01

Matrix: Solid

Date Received: 11/29/21 14:05

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	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/03/21 00:32	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS04

Lab Sample ID: 890-1653-4

Date Collected: 11/29/21 11:01

Matrix: Solid

Date Received: 11/29/21 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 16:21	AJ	XEN MID
Soluble	Leach	DI Leach			4.98 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 06:32	CH	XEN MID

Client Sample ID: SS05

Lab Sample ID: 890-1653-5

Date Collected: 11/29/21 11:10

Matrix: Solid

Date Received: 11/29/21 14:05

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	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/03/21 00:53	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 16:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 06:39	CH	XEN MID

Client Sample ID: SS06

Lab Sample ID: 890-1653-6

Date Collected: 11/29/21 11:37

Matrix: Solid

Date Received: 11/29/21 14:05

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	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/03/21 01:13	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 17:05	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 06:45	CH	XEN MID

Client Sample ID: SS07

Lab Sample ID: 890-1653-7

Date Collected: 11/29/21 11:39

Matrix: Solid

Date Received: 11/29/21 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mL	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/03/21 01:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 17:27	AJ	XEN MID

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

Client Sample ID: SS07

Lab Sample ID: 890-1653-7

Date Collected: 11/29/21 11:39

Matrix: Solid

Date Received: 11/29/21 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 06:52	CH	XEN MID

Client Sample ID: SS08

Lab Sample ID: 890-1653-8

Date Collected: 11/29/21 11:42

Matrix: Solid

Date Received: 11/29/21 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/03/21 01:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			14112	12/06/21 15:44	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 17:48	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 06:59	CH	XEN MID

Client Sample ID: SS09

Lab Sample ID: 890-1653-9

Date Collected: 11/29/21 11:44

Matrix: Solid

Date Received: 11/29/21 14:05

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	13446	12/01/21 10:18	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	13722	12/03/21 02:14	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			13868	12/03/21 10:44	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	13833	12/03/21 08:25	DM	XEN MID
Total/NA	Analysis	8015B NM		1			13850	12/03/21 18:09	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	13650	12/01/21 11:27	CA	XEN MID
Soluble	Analysis	300.0		1			14305	12/09/21 07:05	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: Macho Nacho State Com 010H

Job ID: 890-1653-1  
SDG: 31403720.000 Task 15.02

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.

Job ID: 890-1653-1

Project/Site: Macho Nacho State Com 010H

SDG: 31403720.000 Task 15.02

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: 890-1653-1

Project/Site: Macho Nacho State Com 010H

SDG: 31403720.000 Task 15.02

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1653-1	SS01	Solid	11/29/21 10:55	11/29/21 14:05	0.5
890-1653-2	SS02	Solid	11/29/21 10:57	11/29/21 14:05	0.5
890-1653-3	SS03	Solid	11/29/21 11:04	11/29/21 14:05	0.5
890-1653-4	SS04	Solid	11/29/21 11:01	11/29/21 14:05	0.5
890-1653-5	SS05	Solid	11/29/21 11:10	11/29/21 14:05	0.5
890-1653-6	SS06	Solid	11/29/21 11:37	11/29/21 14:05	0.5
890-1653-7	SS07	Solid	11/29/21 11:39	11/29/21 14:05	0.5
890-1653-8	SS08	Solid	11/29/21 11:42	11/29/21 14:05	0.5
890-1653-9	SS09	Solid	11/29/21 11:44	11/29/21 14:05	0.5

- 1
- 2
- 3
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- 9
- 10
- 11
- 12
- 13
- 14

Eurofins Xenco, Carlsbad

1069 N Canal St.  
Carlsbad NM 88220  
Phone 575-988-3199 Fax: 575-988-3199

Chain of Custody Record



eurofins  
Environment Testing  
America

<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM	Carrier Tracking No(s)	COC No									
Client Contact:		Phone:	Kramer, Jessica		890-527 1									
Shipping/Receiving			E-Mail: jessica.kramer@eurofins.com	State of Origin	Page 1 of 1									
Company:			Accreditations Required (See note)		Job #:									
Eurofins Xenco			NELAP - Louisiana NELAP - Texas		890-1653-1									
Address		Due Date Requested	Analysis Requested											
1211 W Florida Ave		12/9/2021												
City:		TAT Requested (days)												
Midland														
State, Zip:														
TX 79701														
Phone		PO #												
432-04-5440(Tel)														
Email:		WO #:												
Project Name:		Project #:												
Machito Nacho State Com 010H		89000048												
Site:		SSOW#:												
<b>Sample Identification - Client ID (Lab ID)</b>		<b>Sample Date</b>	<b>Sample Time</b>	<b>Sample Type (C=comp, G=grab)</b>	<b>Matrix (W=water, S=solid, O=other, M=mountain)</b>	<b>Field Filtered Sample (Yes or No)</b>	<b>Perform MS/MSD (Yes or No)</b>	<b>8015MOD_NM/8015NM_S_Prep Full TPH</b>	<b>300_ORGFWM_28D/DI_LEACH Chloride</b>	<b>8021B/5035FP_Calc BTEX</b>	<b>Total_BTEX_GCV</b>	<b>8015MOD_Calc</b>	<b>Total Number of containers</b>	<b>Special Instructions/Note:</b>
SS01 (890-1653-1)		11/29/21	10 55		Solid		X	X	X	X	X	X	1	
SS02 (890-1653-2)		11/29/21	10 57		Solid		X	X	X	X	X	X	1	
SS03 (890-1653-3)		11/29/21	11 04		Solid		X	X	X	X	X	X	1	
SS04 (890-1653-4)		11/29/21	11 01		Solid		X	X	X	X	X	X	1	
SS05 (890-1653-5)		11/29/21	11 10		Solid		X	X	X	X	X	X	1	
SS06 (890-1653-6)		11/29/21	11 37		Solid		X	X	X	X	X	X	1	
SS07 (890-1653-7)		11/29/21	11 39		Solid		X	X	X	X	X	X	1	
SS08 (890-1653-8)		11/29/21	11 42		Solid		X	X	X	X	X	X	1	
SS09 (890-1653-9)		11/29/21	11 44		Solid		X	X	X	X	X	X	1	
Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Xenco LLC.														
<b>Possible Hazard Identification</b>														
Unconfirmed														
Deliverable Requested I II III IV Other (specify)														
Primary Deliverable Rank 2														
Special Instructions/QAC Requirements														
Empty Kit Relinquished by														
Relinquished by														
Relinquished by														
Relinquished by														
Custody Seals Intact														
Custody Seal No														
Cooler Temperature(s) °C and Other Remarks.														

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1653-1

SDG Number: 31403720.000 Task 15.02

Login Number: 1653

List Source: Eurofins Xenco, Carlsbad

List Number: 1

Creator: Olivas, Nathaniel

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: 890-1653-1

SDG Number: 31403720.000 Task 15.02

Login Number: 1653

List Source: Eurofins Xenco, Midland

List Number: 2

List Creation: 11/30/21 11:54 AM

Creator: Kramer, Jessica

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	



## APPENDIX D

### NMOCD Notifications

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**From:** [Beauvais, Charles R](#)  
**To:** [Kalei Jennings](#)  
**Subject:** FW: Extension Request- Macho Nacho (Incident Number NAPP2132756247)  
**Date:** Tuesday, April 12, 2022 12:48:03 PM  
**Attachments:** [image001.png](#)  
[Macho Nacho Table \(NAPP2132756247\).pdf](#)

---

[ \*\*EXTERNAL EMAIL\*\* ]

FYI

---

**From:** Beauvais, Charles R  
**Sent:** Friday, April 8, 2022 3:00 PM  
**To:** Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; EMNRD-OCD-District1spills <EMNRD-OCD-District1spills@state.nm.us>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>; Fejervary Morena, Gustavo A <G.Fejervary@conocophillips.com>  
**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>  
**Subject:** Extension Request- Macho Nacho (Incident Number NAPP2132756247)

To Whom It May Concern,

COP is requesting an extension of the current April 10, 2022 deadline for submitting a Remediation Work Plan or Closure Report required in 19.15.29.12.B.(1) NMAC for the Macho Nacho State Com 010 CTB (Incident Number NAPP2132756247). The release was discovered on November 11, 2021 and remediation activities are ongoing. In addition, COP intends to drill a depth to water boring to confirm the closure criteria at the Site. In order to complete remediation activities, allow time to drill the depth to water boring, and submit a remediation work plan or closure report, COP request a 90-day extension of the deadline until July 10, 2022.

Respectfully,

*Charles R. Beauvais II*

Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**  
(M) 575-988-2043  
[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)

*Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.*



**From:** [Beauvais, Charles R](#)  
**To:** [Kalei Jennings](#)  
**Subject:** FW: [EXTERNAL](Extension Denied) - Macho Nacho (Incident Number NAPP2132756247)  
**Date:** Tuesday, April 12, 2022 12:46:38 PM  
**Attachments:** [image003.png](#)

---

[ \*\*EXTERNAL EMAIL \*\* ]

Per our discussion.

---

**From:** Esparza, Brittany <Brittany.Esparza@conocophillips.com>  
**Sent:** Tuesday, April 12, 2022 7:56 AM  
**To:** Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>  
**Subject:** FW: [EXTERNAL](Extension Denied) - Macho Nacho (Incident Number NAPP2132756247)

Charles, not sure if you saw this one or not but it was denied.

Thank you,

*Brittany N. Esparza*

**Brittany N. Esparza** | Environmental Technician, Permian | **ConocoPhillips**

**O:** 432-221-0398 | **C:** 432-349-1911 | 1CC-331 Midland, Texas

---

**From:** Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>  
**Sent:** Friday, April 8, 2022 4:38 PM  
**To:** Beauvais, Charles R <[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)>  
**Cc:** Esparza, Brittany <[Brittany.Esparza@conocophillips.com](mailto:Brittany.Esparza@conocophillips.com)>; Fejervary Morena, Gustavo A <[G.Fejervary@conocophillips.com](mailto:G.Fejervary@conocophillips.com)>; Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; Velez, Nelson, EMNRD <[Nelson.Velez@state.nm.us](mailto:Nelson.Velez@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>  
**Subject:** [EXTERNAL](Extension Denied) - Macho Nacho (Incident Number NAPP2132756247)

**CAUTION:** This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

RE: Incident #**NAPP2132756247**

**Charles,**

An extension for this release has already been granted. A remediation plan for this incident was due on 3/10/2022. Your request for another extension is **denied**. Include this e-mail correspondence in the remediation and/or closure report.

**Robert Hamlet** • Environmental Specialist - Advanced

Environmental Bureau  
EMNRD - Oil Conservation Division  
811 S. First Street | Artesia, NM 88210  
575.909.0302 | [robert.hamlet@state.nm.us](mailto:robert.hamlet@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>



---

**From:** Beauvais, Charles R <[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)>  
**Sent:** Friday, April 8, 2022 3:00 PM  
**To:** Hensley, Chad, EMNRD <[Chad.Hensley@state.nm.us](mailto:Chad.Hensley@state.nm.us)>; EMNRD-OCD-District1spills <[EMNRD-OCD-District1spills@state.nm.us](mailto:EMNRD-OCD-District1spills@state.nm.us)>; Esparza, Brittany <[Brittany.Esparza@conocophillips.com](mailto:Brittany.Esparza@conocophillips.com)>; Fejervary Morena, Gustavo A <[G.Fejervary@conocophillips.com](mailto:G.Fejervary@conocophillips.com)>  
**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Subject:** [EXTERNAL] Extension Request- Macho Nacho (Incident Number NAPP2132756247)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

COP is requesting an extension of the current April 10, 2022 deadline for submitting a Remediation Work Plan or Closure Report required in 19.15.29.12.B.(1) NMAC for the Macho Nacho State Com 010 CTB (Incident Number NAPP2132756247). The release was discovered on November 11, 2021 and remediation activities are ongoing. In addition, COP intends to drill a depth to water boring to confirm the closure criteria at the Site. In order to complete remediation activities, allow time to drill the depth to water boring, and submit a remediation work plan or closure report, COP request a 90-day extension of the deadline until July 10, 2022.

Respectfully,

*Charles R. Beauvais II*

Senior Environmental Engineer | Environmental Operations | **ConocoPhillips**  
(M) 575-988-2043  
[Charles.R.Beauvais@conocophillips.com](mailto:Charles.R.Beauvais@conocophillips.com)

*Our work is never so urgent or important that we cannot take the time to do it safely and in an environmentally responsible manner.*





APPENDIX E

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></u>	Date: _____
email: _____	Telephone: _____
<b><u>OCD Only</u></b>	
Received by: <u>Ramona Marcus</u>	Date: <u>11/29/2021</u>

## L48 Spill Volume Estimate Form

Received by OCD: 5/23/2022 3:06:16 PM

Page 55 of 60

Asset Area:	Macho Nacho #10	NAPP2132756247
Release Discovery Date & Time:	Delaware basin east north	
Release Type:	11/10/2021 9:10am	
Provide any known details about the event:	Oil	
	Heater swamped out causing flare fire	

## 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	No. of boundaries of "shore" in each area	Estimated Pool Area (sq. ft.)	Estimated Average Depth (ft.)	Estimated volume of each pool area (bbl.)	Penetration allowance (ft.)	Total Estimated Volume of Spill (bbl.)	Percentage of Oil if Spilled Fluid is a Mixture	Total Estimated Volume of Spilled Oil (bbl.)	Total Estimated Volume of Spilled Liquid other than Oil (bbl.)
Rectangle A	147.0	43.0	0.02	4	6321.000	0.000	0.469	0.000	0.469			
Rectangle B					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle C					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle D					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle E					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle F					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle G					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle H					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Rectangle I					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
					0.000	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!			
Total Volume Release:									0.469			

Released to Imaging: 6/1/2022 2:54:24 PM AM

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

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

CONDITIONS  
  
Action 63483

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 63483
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
marcus	None	11/29/2021

Incident ID	NAPP2132756247
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	NAPP2132756247
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: Charles Beauvais Title: Senior Environmental Engineer  
Signature: Charles R. Beauvais II Date: 05/09/2022  
email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

**OCD Only**

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

Incident ID	NAPP2132756247
District RP	
Facility ID	
Application ID	

## Remediation Plan

**Remediation Plan Checklist:** *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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: Charles Beauvais Title: Senior Environmental Engineer  
Signature: Charles R. Beauvais Date: 05/09/2022  
email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

**OCD Only**

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

☐ Approved ☒ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Jennifer Nobui Date: 06/01/2022



**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 109593

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 109593
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Remediation Plan Approved with Conditions. Complete vertical delineation by sample locations SS02 and SS05.	6/1/2022