



June 25, 2022

District 1  
New Mexico Oil Conservation Division  
1625 North French Drive  
Hobbs, New Mexico 88240

**Re: Remediation Work Plan  
Broadcaster 29 Federal 003H  
Incident Numbers NAPP2132773092 and NAPP2201938653  
Lea County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of COG Operating, LLC (COG), has prepared this Remediation Work Plan to document site assessment, excavation, and soil sampling activities completed to date from two separate release events, each resulting from crude oil flare fires at the Site. The following Work Plan proposes 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 B, Section 29, Township 23 South, Range 34 East, in Lea County, New Mexico (32.282° N, 103.494° W) and is associated with oil and gas exploration and production operations on private land.

##### NAPP2132773092

On October 26, 2021, the heater failed to dump, causing approximately 0.5 barrels (bbls) of crude oil to release out of the flare. The released crude oil ignited and extinguished itself after reaching the ground. COG reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD) on October 28, 2021 and submitted a Release Notification Form C-141 (Form C-141) on November 23, 2021. The release was assigned Incident Number NAPP2132773092.

##### NAPP2201938653

On January 4, 2022, the heater failed to dump, causing approximately 0.2 bbls of crude oil to release out of the flare. The released crude oil ignited and extinguished itself after reaching the ground. COG reported the release immediately via email to the NMOCD on January 5, 2022 and submitted a Form C-141 on January 19, 2022. The release was assigned Incident Number NAPP2201938653.

#### **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 United States Geological Survey (USGS) well 321734103290001, located approximately 1.14 miles northeast of the Site. The groundwater well has a reported depth to groundwater of 345 feet bgs and a total depth of 400 feet bgs. Ground surface elevation at the groundwater well location is 3,061 feet above mean sea level (amsl), which is approximately 13 feet lower in elevation than the Site. All wells used for depth to groundwater determination are presented on Figure 1. Regionally, depth to groundwater appears to range from 130 feet bgs to 475 feet bgs, indicating groundwater beneath the Site is reasonably estimated to be greater than 100 feet bgs. The referenced well records are included in Attachment 1.

The closest continuously flowing or significant watercourse to the Site is a palustrine, located approximately 511 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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 AND ANALYTICAL RESULTS

On January 7 and March 29, 2022, Site assessment activities were conducted to evaluate the two release events based on information provided on the Form C-141's and visual observations. Seven preliminary assessment soil samples (SS01 through SS07) were collected around the flare stack at a depth of 0.5 feet bgs, to assess the lateral extent of the releases. The preliminary soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The visible release extent and preliminary soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

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

Laboratory analytical results for preliminary soil sample SS02 indicated TPH-GRO/TPH-DRO and TPH concentrations exceeded the Closure Criteria. Laboratory analytical results for preliminary soil samples SS01 and SS03 through SS07 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, soil samples SS05 through SS07, collected around the flare stack were compliant with the most stringent Table 1 Closure Criteria, and successfully defined the lateral extent of the release and confirmed no fluids migrated off pad. Based on laboratory analytical results for the preliminary soil sample SS02, excavation activities appeared to be warranted.

## EXCAVATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS

On March 29, 2022, Ensolum personnel were at the Site to oversee site assessment and excavation activities based on preliminary soil sample SS02.

Excavation activities were performed via backhoe and transport vehicle. To direct excavation activities, soil was field screened for VOCs and chloride. The excavation was completed to a depth of 0.75 feet bgs. Photographic documentation is included in Appendix B.

Following removal of impacted soil, a 5-point composite soil sample was collected based on a frequency of every 200 square feet from the floor of the excavation. The 5-point composite sample was collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite soil sample FS01 was collected from the floor of the excavation at a depth of 0.75 feet bgs. Due to the shallow depth of the excavation, soil from the sidewalls was incorporated into the floor sample. The excavation and lateral delineation soil samples were handled and analyzed following the same procedures as described above. The excavation extent and excavation confirmation soil sample location are presented on Figure 3.

The excavation measured approximately 195 square feet in areal extent. A total of approximately 5 cubic yards of impacted soil was removed during the excavation activities. The impacted soil was transported and properly disposed of at the R360 Facility in Hobbs, New Mexico.

Laboratory analytical results for excavation confirmation floor sample FS01 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

## PROPOSED REMEDIATION WORK PLAN

COG proposes installation of a depth to water boring within 0.5 miles of the release to confirm the applied Closure Criteria at the Site.

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 until groundwater is encountered or to a maximum depth of approximately 110 feet bgs. 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 a minimum of 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 groundwater is absent in the boring. The borehole will be properly abandoned following New Mexico Office of the State Engineer (NMOSE) procedures. Ensolum and COG will include documentation of the soil boring installation and lithologic/ soil sampling log in the subsequent closure request if groundwater is confirmed to be greater than 100 feet bgs.

The depth to water boring will be completed as soon as possible following approval from the surface landowner and scheduling with a New Mexico licensed driller. Ensolum will present the drilling schedule within 60 days of approved Work Plan. The Final C-141 is attached in Appendix E.

If you have any questions or comments, please contact Ms. Kalei Jennings at (817) 683-2503 or [kjennings@ensolum.com](mailto:kjennings@ensolum.com).

Sincerely,  
**Ensolum, LLC**



Kalei Jennings  
Senior Scientist



Daniel R. Moir, P.G.  
Senior Managing Geologist

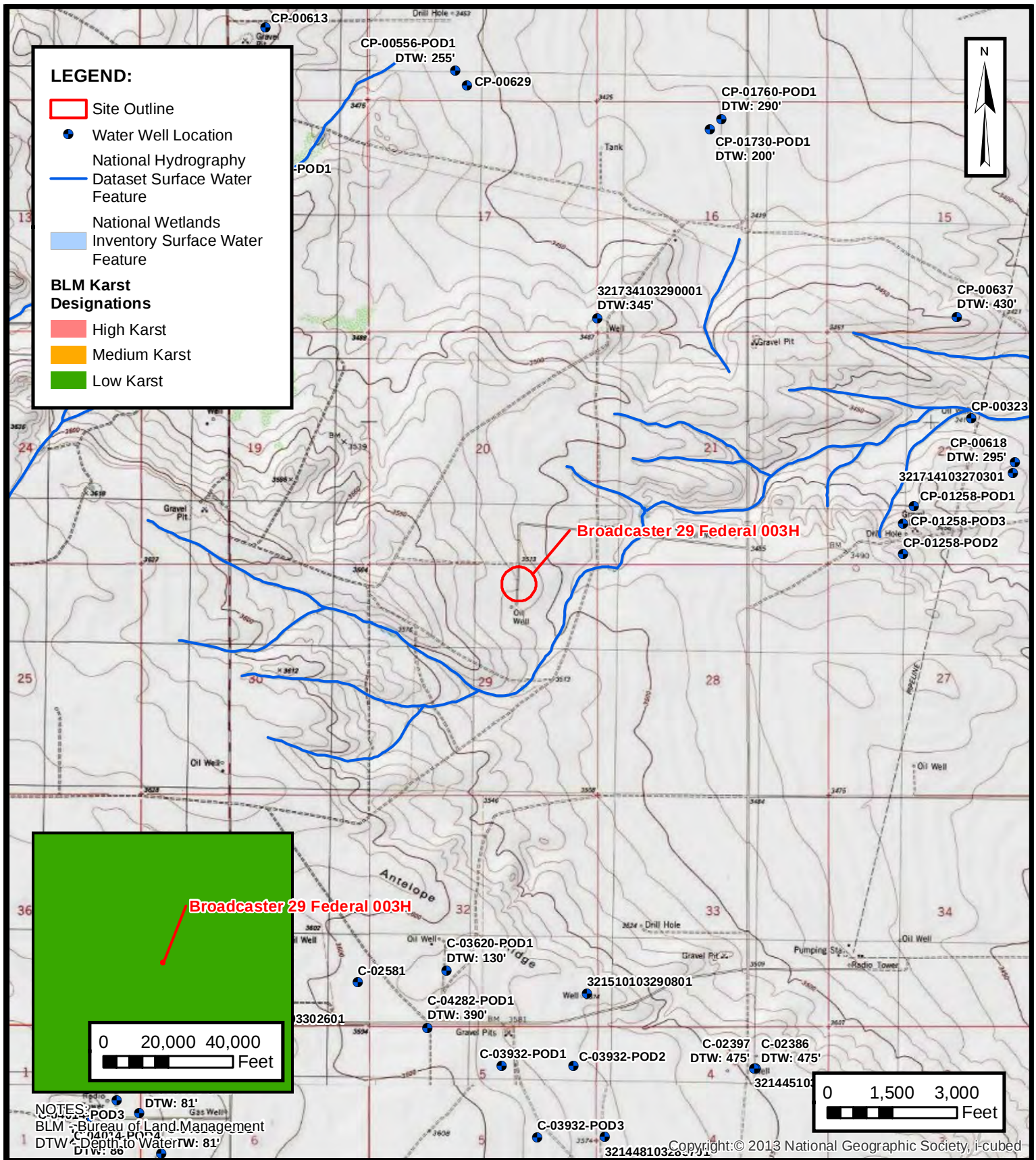
cc: Charles Beauvais, COG Operating, LLC

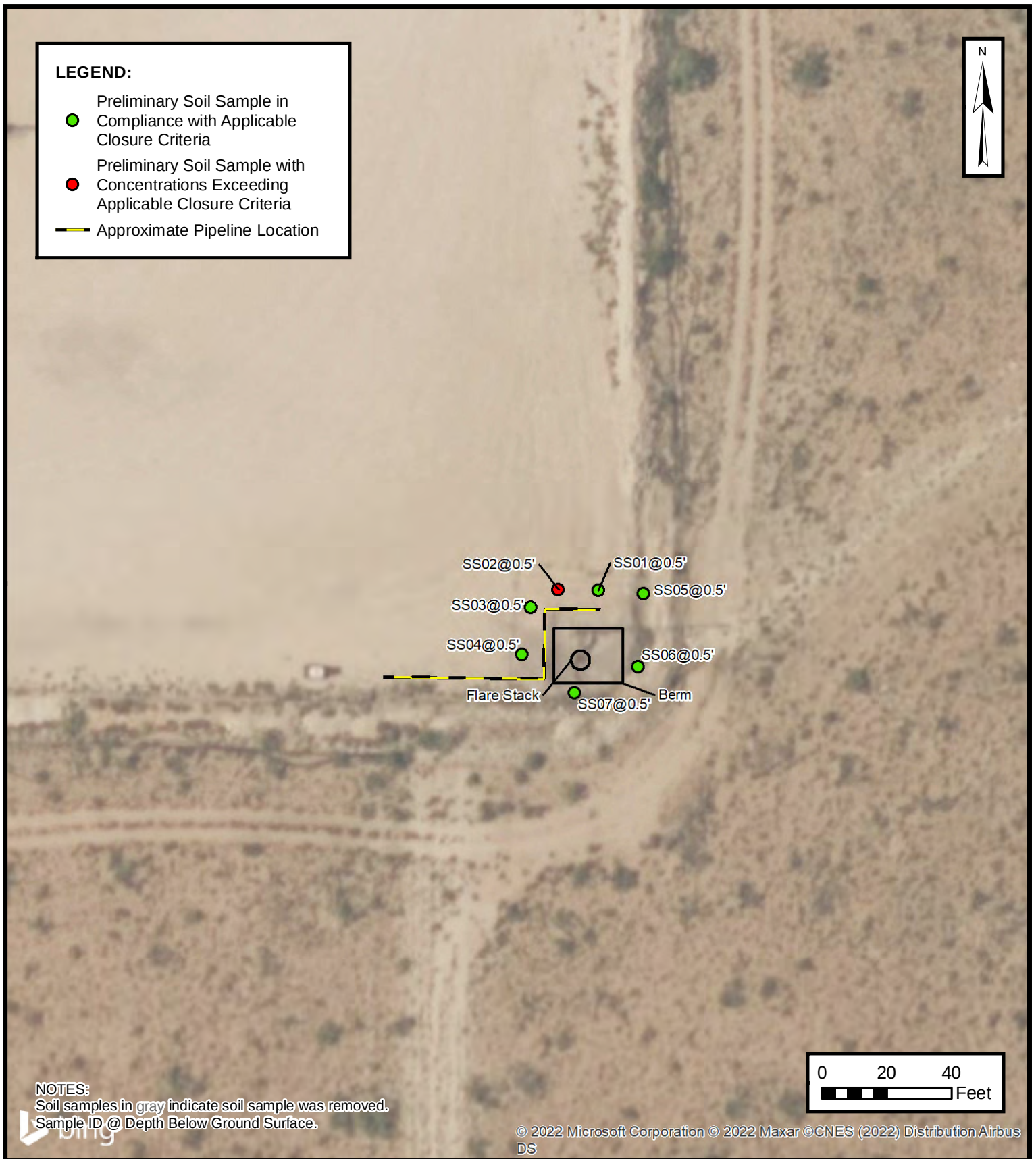
Appendices:

|            |                                                                |
|------------|----------------------------------------------------------------|
| Figure 1   | Site Location Map                                              |
| Figure 2   | Preliminary Soil Sample Locations                              |
| Figure 3   | Excavation Soil Sample Locations                               |
| Table 1    | Soil Sample Analytical Results                                 |
| Appendix A | Referenced Well Records                                        |
| Appendix B | Photographic Log                                               |
| Appendix C | Laboratory Analytical Reports & Chain-of-Custody Documentation |
| Appendix D | NMOCD Sample Notification                                      |
| Appendix E | Final C-141                                                    |



FIGURES





### PRELIMINARY SOIL SAMPLE LOCATIONS

COG OPERATING, LLC  
BROADCASTER 29 FEDERAL 003H  
NAPP2132773092 & NAPP2201938653  
Unit B, Sec 29 T23S R34E  
Lea County, New Mexico

**FIGURE**  
**2**



### EXCAVATION SOIL SAMPLE LOCATIONS

COG OPERATING, LLC  
BROADCASTER 29 FEDERAL 003H  
NAPP2132773092 & NAPP2201938653  
Unit B, Sec 29 T23S R34E  
Lea County, New Mexico

**FIGURE**  
**3**



TABLE



**TABLE 1**  
**SOIL SAMPLE ANALYTICAL RESULTS**  
 Broadcaster 29 Federal 003H  
 COG Operating, LLC  
 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           |
| Preliminary Assessment Soil Samples            |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| SS01                                           | 01/07/2022  | 0.5                     | <0.00200        | <0.00399           | <49.9           | 271             | <49.9           | 271             | 271               | 23.0             |
| SS02                                           | 01/07/2022  | 0.5                     | <0.00199        | <0.00398           | <250            | 8,710           | <250            | <b>8,710</b>    | <b>8,710</b>      | 122              |
| SS03                                           | 01/07/2022  | 0.5                     | <0.00200        | <0.00401           | <49.9           | 283             | <49.9           | 283             | 283               | 283              |
| SS04                                           | 01/07/2022  | 0.5                     | <0.00199        | <0.00398           | <49.9           | 64.4            | <49.9           | 64.4            | 64.4              | 77.1             |
| SS05                                           | 03/29/2022  | 0.5                     | <0.00202        | <0.00403           | <49.8           | <49.8           | <49.8           | <49.8           | <49.8             | <5.00            |
| SS06                                           | 03/29/2022  | 0.5                     | <0.00201        | <0.00402           | <49.9           | 14.5            | <49.9           | 14.5            | 14.5              | 59.3             |
| SS07                                           | 03/29/2022  | 0.5                     | <0.00204        | <0.00408           | <50.0           | <50.0           | <50.0           | <50.0           | <50.0             | 6.94             |
| Excavation Floor Soil Samples                  |             |                         |                 |                    |                 |                 |                 |                 |                   |                  |
| FS01                                           | 03/29/2022  | 0.75                    | <0.00198        | <0.00396           | <49.9           | 167             | <49.9           | 167             | 167               | 22.3             |

## Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in bold exceed the NMOCD Table 1 Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

\* indicates sample was collected in area to be reclaimed after remediation is complete; reclamation standard for chloride in the top 4 feet is 600 mg/kg



## APPENDIX A

### Referenced Well Records



[USGS Home](#)  
[Contact USGS](#)  
[Search USGS](#)

## National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater



Geographic Area:

United States



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- [Full News](#) 

Groundwater levels for the Nation



Important: [Next Generation Monitoring Location Page](#)

### Search Results -- 1 sites found

site\_no list =

- 321734103290001

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

### USGS 321734103290001 23S.34E.16.333312

Available data for this site

Groundwater: Field measurements



GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°17'53", Longitude 103°28'59" NAD27

Land-surface elevation 3,478.00 feet above NGVD29

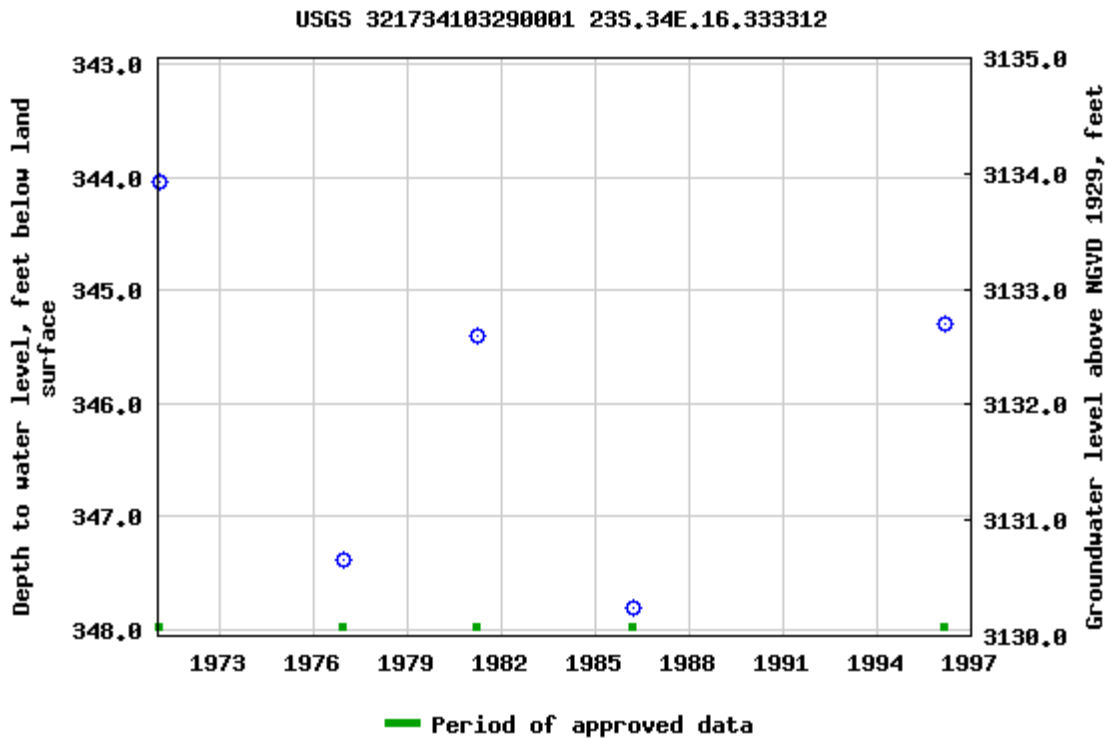
The depth of the well is 400 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

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



Breaks in the plot represent a gap of at least one year between field measurements.  
[Download a presentation-quality graph](#)

- [Questions about sites/data?](#)
- [Feedback on this web site](#)
- [Automated retrievals](#)
- [Help](#)
- [Data Tips](#)
- [Explanation of terms](#)



National Water Information System: Web Interface

USGS Water Resources

Data Category:  
Groundwater

Geographic Area:  
United States

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Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

Agency code = usgs  
site\_no list =

- 321734103290001

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

USGS 321734103290001 23S.34E.16.333312

Lea County, New Mexico  
Latitude 32°17'53", Longitude 103°28'59" NAD27  
Land-surface elevation 3,478.00 feet above NGVD29  
The depth of the well is 400 feet below land surface.  
This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
This well is completed in the Chinle Formation (231CHNL) local aquifer.

Output formats

|                                    |
|------------------------------------|
| <a href="#">Table of data</a>      |
| <a href="#">Tab-separated data</a> |
| <a href="#">Graph of data</a>      |
| <a href="#">Reselect period</a>    |

| Date       | Time | ?<br>Water-level<br>date-time<br>accuracy | ?<br>Parameter<br>code | Water<br>level,<br>feet<br>below<br>land<br>surface | Water<br>level,<br>feet<br>above<br>specific<br>vertical<br>datum | Referenced<br>vertical<br>datum | ?<br>Status | ?<br>Method of<br>measurement | ?<br>Measuring<br>agency | ?<br>Source of<br>measurement | ?<br>Water-level<br>approval<br>status |
|------------|------|-------------------------------------------|------------------------|-----------------------------------------------------|-------------------------------------------------------------------|---------------------------------|-------------|-------------------------------|--------------------------|-------------------------------|----------------------------------------|
|            |      |                                           |                        |                                                     |                                                                   |                                 |             |                               |                          |                               |                                        |
| 1971-01-13 |      |                                           | D                      | 62610                                               | 3133.95                                                           | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1971-01-13 |      |                                           | D                      | 62611                                               | 3135.58                                                           | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1971-01-13 |      |                                           | D                      | 72019                                               | 344.05                                                            |                                 | 1           | Z                             |                          |                               | A                                      |
| 1976-12-16 |      |                                           | D                      | 62610                                               | 3130.62                                                           | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1976-12-16 |      |                                           | D                      | 62611                                               | 3132.25                                                           | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1976-12-16 |      |                                           | D                      | 72019                                               | 347.38                                                            |                                 | 1           | Z                             |                          |                               | A                                      |
| 1981-03-30 |      |                                           | D                      | 62610                                               | 3132.60                                                           | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1981-03-30 |      |                                           | D                      | 62611                                               | 3134.23                                                           | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1981-03-30 |      |                                           | D                      | 72019                                               | 345.40                                                            |                                 | 1           | Z                             |                          |                               | A                                      |
| 1986-03-21 |      |                                           | D                      | 62610                                               | 3130.20                                                           | NGVD29                          | 1           | Z                             |                          |                               | A                                      |
| 1986-03-21 |      |                                           | D                      | 62611                                               | 3131.83                                                           | NAVD88                          | 1           | Z                             |                          |                               | A                                      |
| 1986-03-21 |      |                                           | D                      | 72019                                               | 347.80                                                            |                                 | 1           | Z                             |                          |                               | A                                      |
| 1996-03-08 |      |                                           | D                      | 62610                                               | 3132.70                                                           | NGVD29                          | 1           | S                             |                          |                               | A                                      |
| 1996-03-08 |      |                                           | D                      | 62611                                               | 3134.33                                                           | NAVD88                          | 1           | S                             |                          |                               | A                                      |
| 1996-03-08 |      |                                           | D                      | 72019                                               | 345.30                                                            |                                 | 1           | S                             |                          |                               | A                                      |

| Explanation                    |        |                                                              |
|--------------------------------|--------|--------------------------------------------------------------|
| Section                        | Code   | Description                                                  |
| Water-level date-time accuracy | D      | Date is accurate to the Day                                  |
| Parameter code                 | 62610  | Groundwater level above NGVD 1929, feet                      |
| Parameter code                 | 62611  | Groundwater level above NAVD 1988, feet                      |
| Parameter code                 | 72019  | Depth to water level, feet below land surface                |
| Referenced vertical datum      | NAVD88 | North American Vertical Datum of 1988                        |
| Referenced vertical datum      | NGVD29 | National Geodetic Vertical Datum of 1929                     |
| Status                         | 1      | Static                                                       |
| Method of measurement          | S      | Steel-tape measurement.                                      |
| Method of measurement          | Z      | Other.                                                       |
| Measuring agency               |        | Not determined                                               |
| Source of measurement          |        | Not determined                                               |
| Water-level approval status    | A      | Approved for publication -- Processing and review completed. |



# New Mexico Office of the State Engineer

## Water Right Summary


[get image list](#)

**WR File Number:** CP 00618      **Subbasin:** CP      **Cross Reference:** -  
**Primary Purpose:** PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE  
**Primary Status:** PMT PERMIT  
**Total Acres:**      **Subfile:** -      **Header:** -  
**Total Diversion:** 0      **Cause/Case:** -  
**Owner:** ESTORIL PRODUCING CO.

### Documents on File

| Trn #                      | Doc                    | File/Act              | Status                     |     | Transaction Desc. | From/    | Acres | Diversion | Consumptive |
|----------------------------|------------------------|-----------------------|----------------------------|-----|-------------------|----------|-------|-----------|-------------|
|                            |                        |                       | 1                          | 2   |                   | To       |       |           |             |
| <a href="#">get images</a> | <a href="#">475152</a> | <a href="#">72121</a> | <a href="#">1980-05-01</a> | PMT | LOG               | CP 00618 | T     |           | 3           |

### Current Points of Diversion

| (NAD83 UTM in meters)    |          |         |   |   |   |    |     |     |                     |
|--------------------------|----------|---------|---|---|---|----|-----|-----|---------------------|
| POD Number               | Well Tag | Source  | Q |   |   |    | X   | Y   | Other Location Desc |
| <a href="#">CP 00618</a> |          | Shallow | 1 | 2 | 4 | 22 | 23S | 34E | 645713 3573539*     |

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

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.

7/25/22 8:52 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                                                                                            |
|----------|------------|-----|-----|----|-----|-----|-----|--------|----------------------------------------------------------------------------------------------|
|          | CP 00618   | 1   | 2   | 4  | 22  | 23S | 34E | 645713 | 3573539*  |

x

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

**Driller Name:** ABBOTT, MURRELL

**Drill Start Date:** 05/01/1980 **Drill Finish Date:** 05/05/1980 **Plug Date:** 06/10/1981

**Log File Date:** 05/09/1980 **PCW Rcv Date:** **Source:** Shallow

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

**Casing Size:** 7.00 **Depth Well:** 428 feet **Depth Water:** 295 feet

x

| Water Bearing Stratifications: | Top | Bottom | Description   |
|--------------------------------|-----|--------|---------------|
|                                | 295 | 428    | Other/Unknown |

x

| Casing Perforations: | Top | Bottom |
|----------------------|-----|--------|
|                      | 358 | 428    |

x

\*UTM location was derived from PLSS - see Help

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.

7/25/22 8:52 AM

POINT OF DIVERSION SUMMARY



## APPENDIX B

### Photographic Log

**Photographic Log**

COG Operating, LLC

Broadcaster 29 Federal 003H

Incident Numbers NAPP2132773092 &amp; NAPP2201938653



Photograph 1

Date: January 7, 2022

Description: View during initial site assessment.



Photograph 2

Date: January 7, 2022

Description: View during initial site assessment.



Photograph 3

Date: March 29, 2022

Description: View of excavation activities.



Photograph 4

Date: March 29, 2022

Description: View of excavation activities.



## APPENDIX C

### Laboratory Analytical Report



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2147-1

Laboratory Sample Delivery Group: 31403720.000 task 20.02  
Client Project/Site: Broadcaster 29

For:

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

Attn: Kalei Jennings

Authorized for release by:  
4/8/2022 10:09:43 AM

Jessica Kramer, Project Manager  
(432)704-5440  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

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results through  
**TotalAccess**

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Visit us at:

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

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

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

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Laboratory Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| S1+       | Surrogate recovery exceeds control limits, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

**Job ID: 890-2147-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-2147-1****Comments**

No additional comments.

**Receipt**

The sample was received on 3/29/2022 1:27 PM. Unless otherwise noted below, the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 8.0° C.

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-22613 and analytical batch 880-22684 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015B NM: Surrogate recovery for the following samples were outside control limits: (MB 880-22659/1-A), (890-2143-A-21-O MS) and (890-2143-A-21-P MSD). Evidence of matrix interferences is not obvious.

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

**General Chemistry**

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

**Organic Prep**

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

**VOA Prep**

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

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

Client Sample ID: FS01

Lab Sample ID: 890-2147-1

Date Collected: 03/29/22 09:25

Matrix: Solid

Date Received: 03/29/22 13:27

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 |   | 03/31/22 11:00 | 03/31/22 15:15 | 1       |
| Toluene             | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/31/22 11:00 | 03/31/22 15:15 | 1       |
| Ethylbenzene        | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/31/22 11:00 | 03/31/22 15:15 | 1       |
| m-Xylene & p-Xylene | <0.00396 | U         | 0.00396 | mg/Kg |   | 03/31/22 11:00 | 03/31/22 15:15 | 1       |
| o-Xylene            | <0.00198 | U         | 0.00198 | mg/Kg |   | 03/31/22 11:00 | 03/31/22 15:15 | 1       |
| Xylenes, Total      | <0.00396 | U         | 0.00396 | mg/Kg |   | 03/31/22 11:00 | 03/31/22 15:15 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 109       |           | 70 - 130 | 03/31/22 11:00 | 03/31/22 15:15 | 1       |
| 1,4-Difluorobenzene (Surr)  | 109       |           | 70 - 130 | 03/31/22 11:00 | 03/31/22 15:15 | 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 |   |          | 03/31/22 16:27 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 167    |           | 49.9 | mg/Kg |   |          | 03/31/22 08:59 | 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 |   | 03/30/22 14:43 | 03/31/22 01:13 | 1       |
| Diesel Range Organics (Over C10-C28) | 167       |           | 49.9     | mg/Kg |   | 03/30/22 14:43 | 03/31/22 01:13 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/30/22 14:43 | 03/31/22 01:13 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 120       |           | 70 - 130 |       |   | 03/30/22 14:43 | 03/31/22 01:13 | 1       |
| o-Terphenyl                          | 120       |           | 70 - 130 |       |   | 03/30/22 14:43 | 03/31/22 01:13 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 22.3   |           | 4.97 | mg/Kg |   |          | 04/08/22 07:04 | 1       |

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 890-2145-A-27-F MS                | Matrix Spike           | 105                                            | 111               |
| 890-2145-A-27-G MSD               | Matrix Spike Duplicate | 104                                            | 109               |
| 890-2147-1                        | FS01                   | 109                                            | 109               |
| LCS 880-22613/1-A                 | Lab Control Sample     | 102                                            | 112               |
| LCSD 880-22613/2-A                | Lab Control Sample Dup | 106                                            | 113               |
| MB 880-22613/5-A                  | Method Blank           | 104                                            | 103               |
| <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<br>(70-130)                               | OTPH1<br>(70-130) |
| 890-2143-A-21-O MS      | Matrix Spike           | 148 S1+                                        | 139 S1+           |
| 890-2143-A-21-P MSD     | Matrix Spike Duplicate | 145 S1+                                        | 135 S1+           |
| 890-2147-1              | FS01                   | 120                                            | 120               |
| LCS 880-22659/2-A       | Lab Control Sample     | 103                                            | 93                |
| LCSD 880-22659/3-A      | Lab Control Sample Dup | 111                                            | 101               |
| MB 880-22659/1-A        | Method Blank           | 146 S1+                                        | 160 S1+           |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

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

Lab Sample ID: MB 880-22613/5-A

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22613

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/31/22 07:30 | 03/31/22 10:26 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/31/22 07:30 | 03/31/22 10:26 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/31/22 07:30 | 03/31/22 10:26 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/31/22 07:30 | 03/31/22 10:26 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/31/22 07:30 | 03/31/22 10:26 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/31/22 07:30 | 03/31/22 10:26 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 104          |              | 70 - 130 | 03/31/22 07:30 | 03/31/22 10:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 | 03/31/22 07:30 | 03/31/22 10:26 | 1       |

Lab Sample ID: LCS 880-22613/1-A

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22613

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1005     |               | mg/Kg |   | 101  | 70 - 130    |
| Toluene             | 0.100       | 0.09948    |               | mg/Kg |   | 99   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.1004     |               | mg/Kg |   | 100  | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2087     |               | mg/Kg |   | 104  | 70 - 130    |
| o-Xylene            | 0.100       | 0.1007     |               | mg/Kg |   | 101  | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 102           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 112           |               | 70 - 130 |

Lab Sample ID: LCSD 880-22613/2-A

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22613

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.09921     |                | mg/Kg |   | 99   | 70 - 130    | 1   | 35        |
| Toluene             | 0.100       | 0.09749     |                | mg/Kg |   | 97   | 70 - 130    | 2   | 35        |
| Ethylbenzene        | 0.100       | 0.1001      |                | mg/Kg |   | 100  | 70 - 130    | 0   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2082      |                | mg/Kg |   | 104  | 70 - 130    | 0   | 35        |
| o-Xylene            | 0.100       | 0.1013      |                | mg/Kg |   | 101  | 70 - 130    | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 106            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 113            |                | 70 - 130 |

Lab Sample ID: 890-2145-A-27-F MS

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22613

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene | <0.00201      | U F1 F2          | 0.0996      | 0.09005   |              | mg/Kg |   | 90   | 70 - 130    |
| Toluene | 0.00281       | F1 F2            | 0.0996      | 0.08700   |              | mg/Kg |   | 85   | 70 - 130    |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

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

Lab Sample ID: 890-2145-A-27-F MS

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22613

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Ethylbenzene        | <0.00201      | U F1 F2          | 0.0996      | 0.08603   |              | mg/Kg |   | 85   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00402      | U F1 F2          | 0.199       | 0.1777    |              | mg/Kg |   | 88   | 70 - 130    |
| o-Xylene            | 0.00245       | F1 F2            | 0.0996      | 0.08670   |              | mg/Kg |   | 85   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 105          |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 111          |              | 70 - 130 |

Lab Sample ID: 890-2145-A-27-G MSD

Matrix: Solid

Analysis Batch: 22684

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22613

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene             | <0.00201      | U F1 F2          | 0.101       | 0.03291    | F1 F2         | mg/Kg |   | 32   | 70 - 130    | 93  | 35        |
| Toluene             | 0.00281       | F1 F2            | 0.101       | 0.03429    | F1 F2         | mg/Kg |   | 31   | 70 - 130    | 87  | 35        |
| Ethylbenzene        | <0.00201      | U F1 F2          | 0.101       | 0.03471    | F1 F2         | mg/Kg |   | 33   | 70 - 130    | 85  | 35        |
| m-Xylene & p-Xylene | <0.00402      | U F1 F2          | 0.201       | 0.07523    | F1 F2         | mg/Kg |   | 36   | 70 - 130    | 81  | 35        |
| o-Xylene            | 0.00245       | F1 F2            | 0.101       | 0.04224    | F1 F2         | mg/Kg |   | 40   | 70 - 130    | 69  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 104           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 109           |               | 70 - 130 |

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

Lab Sample ID: MB 880-22659/1-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22659

| 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 |   | 03/30/22 14:43 | 03/30/22 16:31 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 03/30/22 14:43 | 03/30/22 16:31 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 03/30/22 14:43 | 03/30/22 16:31 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 146          | S1+          | 70 - 130 | 03/30/22 14:43 | 03/30/22 16:31 | 1       |
| o-Terphenyl    | 160          | S1+          | 70 - 130 | 03/30/22 14:43 | 03/30/22 16:31 | 1       |

Lab Sample ID: LCS 880-22659/2-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22659

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 926.1      |               | mg/Kg |   | 93   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 891.8      |               | mg/Kg |   | 89   | 70 - 130    |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

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

Lab Sample ID: LCS 880-22659/2-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22659

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 103       |           | 70 - 130 |
| o-Terphenyl    | 93        |           | 70 - 130 |

Lab Sample ID: LCSD 880-22659/3-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22659

|                                      | Spike | LCSD   | LCSD      |       |   |      |          | %Rec |       |  |  |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|------|-------|--|--|
| Analyte                              | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD  | Limit |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | 1000  | 929.5  |           | mg/Kg |   | 93   | 70 - 130 | 0    | 20    |  |  |
| Diesel Range Organics (Over C10-C28) | 1000  | 936.7  |           | mg/Kg |   | 94   | 70 - 130 | 5    | 20    |  |  |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 111       |           | 70 - 130 |
| o-Terphenyl    | 101       |           | 70 - 130 |

Lab Sample ID: 890-2143-A-21-O MS

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22659

|                                      | Sample | Sample    | Spike | MS     | MS        |       |   | %Rec |          |     |       |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 998   | 1025   |           | mg/Kg |   | 103  | 70 - 130 |     |       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 998   | 934.7  |           | mg/Kg |   | 94   | 70 - 130 |     |       |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 148       | S1+       | 70 - 130 |
| o-Terphenyl    | 139       | S1+       | 70 - 130 |

Lab Sample ID: 890-2143-A-21-P MSD

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22659

|                                      | Sample | Sample    | Spike | MSD    | MSD       |       |   | %Rec |          |     |       |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 995   | 1017   |           | mg/Kg |   | 102  | 70 - 130 | 1   | 20    |
| Diesel Range Organics (Over C10-C28) | <50.0  | U         | 995   | 911.3  |           | mg/Kg |   | 92   | 70 - 130 | 3   | 20    |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 145       | S1+       | 70 - 130 |
| o-Terphenyl    | 135       | S1+       | 70 - 130 |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22997/1-A

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 04/08/22 04:33 | 1       |

Lab Sample ID: LCS 880-22997/2-A

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 250.2         |                  | mg/Kg |   | 100  | 90 - 110       |

Lab Sample ID: LCSD 880-22997/3-A

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 244.6          |                   | mg/Kg |   | 98   | 90 - 110       | 2   | 20           |

Lab Sample ID: 890-2142-A-22-F MS

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 284              |                     | 249            | 515.7        |                 | mg/Kg |   | 93   | 90 - 110       |

Lab Sample ID: 890-2142-A-22-G MSD

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 284              |                     | 249            | 518.1         |                  | mg/Kg |   | 94   | 90 - 110       | 0   | 20           |

Eurofins Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

## GC VOA

## Prep Batch: 22613

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2147-1          | FS01                   | Total/NA  | Solid  | 5035   |            |
| MB 880-22613/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-22613/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-22613/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 890-2145-A-27-F MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 890-2145-A-27-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 22684

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2147-1          | FS01                   | Total/NA  | Solid  | 8021B  | 22613      |
| MB 880-22613/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 22613      |
| LCS 880-22613/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 22613      |
| LCSD 880-22613/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 22613      |
| 890-2145-A-27-F MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 22613      |
| 890-2145-A-27-G MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 22613      |

## Analysis Batch: 22749

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2147-1    | FS01             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 22606

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2147-1          | FS01                   | Total/NA  | Solid  | 8015B NM | 22659      |
| MB 880-22659/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 22659      |
| LCS 880-22659/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 22659      |
| LCSD 880-22659/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 22659      |
| 890-2143-A-21-O MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 22659      |
| 890-2143-A-21-P MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 22659      |

## Prep Batch: 22659

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2147-1          | FS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-22659/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-22659/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-22659/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2143-A-21-O MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2143-A-21-P MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 22696

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2147-1    | FS01             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 22997

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 890-2147-1         | FS01                   | Soluble   | Solid  | DI Leach |            |
| MB 880-22997/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-22997/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-22997/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

Eurofins Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

## HPLC/IC (Continued)

## Leach Batch: 22997 (Continued)

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2142-A-22-F MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-2142-A-22-G MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 23131

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2147-1          | FS01                   | Soluble   | Solid  | 300.0  | 22997      |
| MB 880-22997/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 22997      |
| LCS 880-22997/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 22997      |
| LCSD 880-22997/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 22997      |
| 890-2142-A-22-F MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 22997      |
| 890-2142-A-22-G MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 22997      |

Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

Client Sample ID: FS01  
Date Collected: 03/29/22 09:25  
Date Received: 03/29/22 13:27

Lab Sample ID: 890-2147-1  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.05 g         | 5 mL         | 22613        | 03/31/22 11:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22684        | 03/31/22 15:15       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22749        | 03/31/22 16:27       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22696        | 03/31/22 08:59       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 22659        | 03/30/22 14:43       | AM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 22606        | 03/31/22 01:13       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.03 g         | 50 mL        | 22997        | 04/05/22 09:20       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 23131        | 04/08/22 07:04       | CH      | XEN MID |

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

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

Laboratory: Eurofins 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 |

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## Method Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

| 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 Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2147-1  
SDG: 31403720.000 task 20.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2147-1    | FS01             | Solid  | 03/29/22 09:25 | 03/29/22 13:27 | 0.5   |

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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
Midland, TX (432-704-5440) El Paso, TX (915)585-3443 Lubbock, TX (806)794-1296  
Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813) 233-3333  
Hobbs, NM (575-392-7550)

Work Order No: \_\_\_\_\_

Page \_\_\_\_ of \_\_\_\_

www.xenco.com

## Chain of Custody

|                  |  |                                          |  |                         |  |                                          |  |
|------------------|--|------------------------------------------|--|-------------------------|--|------------------------------------------|--|
| Project Manager: |  | Kalel Jennings                           |  | Bill to: (if different) |  | Kalel Jennings                           |  |
| Company Name:    |  | WSP USA                                  |  | Company Name:           |  | WSP USA                                  |  |
| Address:         |  | 3300 North A Street Building 1, unit 222 |  | Address:                |  | 3300 North A Street Building 1, unit 222 |  |
| City, State ZIP: |  | Midland, Texas 79705                     |  | City, State ZIP:        |  | Midland, Texas 79705                     |  |
| Phone:           |  | 817-683-2503                             |  | Email:                  |  | Kalel.jennings@wsp.com                   |  |

|                                                                                                                                                                               |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|--|--|--|
| Work Order Comments                                                                                                                                                           |  |  |  |  |  |  |  |  |  |
| Program: UST/PST <input type="checkbox"/> RP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> Spurfund <input type="checkbox"/>        |  |  |  |  |  |  |  |  |  |
| State of Project:                                                                                                                                                             |  |  |  |  |  |  |  |  |  |
| Reporting Level II <input type="checkbox"/> Level III <input type="checkbox"/> T/U/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> |  |  |  |  |  |  |  |  |  |
| Deliverables: EDD <input type="checkbox"/> ADaPT <input type="checkbox"/> Other: <input type="checkbox"/>                                                                     |  |  |  |  |  |  |  |  |  |

[illegible]

| Total             | 200.7 / 6010 | 200.8 / 6020:                                  |                                                                                   |
|-------------------|--------------|------------------------------------------------|-----------------------------------------------------------------------------------|
| 8RCRA             | 13PPM        | Texas 11                                       | Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn |
| TCLP / SPLP 6010: | 8RCRA        | Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U | 1631 / 245.1 / 7470 / 7471 : Hg                                                   |

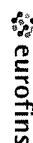
**Notice:** Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

|   | Relinquished by: (Signature) | Received by: (Signature) | Date/Time | Relinquished by: (Signature) | Received by: (Signature) | Date/Time |
|---|------------------------------|--------------------------|-----------|------------------------------|--------------------------|-----------|
| 1 | [Signature]                  | [Signature]              | 8/29/2013 |                              |                          |           |
| 2 |                              |                          |           |                              |                          |           |
| 3 |                              |                          |           |                              |                          |           |
| 4 |                              |                          |           |                              |                          |           |
| 5 |                              |                          |           |                              |                          |           |
| 6 |                              |                          |           |                              |                          |           |

## Eurofins Carlsbad

1089 N Canal St.  
Carlsbad, NM 86220  
Phone: 575-988-3199 Fax: 575-988-3199

## Chain of Custody Record



**Environment Testing  
America**

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2147-1

SDG Number: 31403720.000 task 20.02

Login Number: 2147

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2147-1  
SDG Number: 31403720.000 task 20.02Login Number: 2147  
List Number: 2  
Creator: Teel, BriannaList Source: Eurofins Midland  
List Creation: 03/30/22 11:54 AM

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-2148-1

Laboratory Sample Delivery Group: 31403720.0000 task20.02  
Client Project/Site: Broadcaster 29

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:  
4/8/2022 10:09:58 AM

Jessica Kramer, Project Manager  
(432)704-5440  
[Jessica.Kramer@et.eurofinsus.com](mailto:Jessica.Kramer@et.eurofinsus.com)

#### LINKS

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*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: Broadcaster 29

Laboratory Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

## 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, high biased.  |
| U         | Indicates the analyte was analyzed for but not detected. |

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

---

**Job ID: 890-2148-1**

---

**Laboratory: Eurofins Carlsbad**

---

**Narrative**

---

**Job Narrative**  
**890-2148-1**

**Receipt**

The samples were received on 3/29/2022 1:27 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 8.0°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**

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: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

Client Sample ID: SS05

Lab Sample ID: 890-2148-1

Date Collected: 03/29/22 09:40

Matrix: Solid

Date Received: 03/29/22 13:27

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 |   | 03/31/22 12:00 | 03/31/22 22:32 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:32 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:32 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:32 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:32 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:32 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 141       | S1+       | 70 - 130 | 03/31/22 12:00 | 03/31/22 22:32 | 1       |
| 1,4-Difluorobenzene (Surr)  | 102       |           | 70 - 130 | 03/31/22 12:00 | 03/31/22 22:32 | 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 |   |          | 04/01/22 15:18 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | <49.8  | U         | 49.8 | mg/Kg |   |          | 03/31/22 08:59 | 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 |   | 03/30/22 10:05 | 03/30/22 15:05 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.8  | U         | 49.8 | mg/Kg |   | 03/30/22 10:05 | 03/30/22 15:05 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.8  | U         | 49.8 | mg/Kg |   | 03/30/22 10:05 | 03/30/22 15:05 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 122       |           | 70 - 130 | 03/30/22 10:05 | 03/30/22 15:05 | 1       |
| o-Terphenyl    | 120       |           | 70 - 130 | 03/30/22 10:05 | 03/30/22 15:05 | 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 |   |          | 04/08/22 07:10 | 1       |

Client Sample ID: SS06

Lab Sample ID: 890-2148-2

Date Collected: 03/29/22 09:42

Matrix: Solid

Date Received: 03/29/22 13:27

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 |   | 03/31/22 12:00 | 03/31/22 22:53 | 1       |
| Toluene             | 0.00242  |           | 0.00201 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:53 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:53 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:53 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:53 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 22:53 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 149       | S1+       | 70 - 130 | 03/31/22 12:00 | 03/31/22 22:53 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

Client Sample ID: SS06

Lab Sample ID: 890-2148-2

Date Collected: 03/29/22 09:42

Matrix: Solid

Date Received: 03/29/22 13:27

Sample Depth: 0.5

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 97        |           | 70 - 130 | 03/31/22 12:00 | 03/31/22 22:53 | 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 |   |          | 04/01/22 15:18 | 1       |

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

| Analyte   | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Total TPH | 14.5   |           | 49.9 | mg/Kg |   |          | 03/31/22 08:59 | 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 |   | 03/30/22 10:05 | 03/30/22 15:27 | 1       |
| Diesel Range Organics (Over C10-C28) | 14.5      |           | 49.9     | mg/Kg |   | 03/30/22 10:05 | 03/30/22 15:27 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     | mg/Kg |   | 03/30/22 10:05 | 03/30/22 15:27 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 120       |           | 70 - 130 |       |   | 03/30/22 10:05 | 03/30/22 15:27 | 1       |
| o-Terphenyl                          | 117       |           | 70 - 130 |       |   | 03/30/22 10:05 | 03/30/22 15:27 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 59.3   |           | 5.00 | mg/Kg |   |          | 04/08/22 08:20 | 1       |

Client Sample ID: SS07

Lab Sample ID: 890-2148-3

Date Collected: 03/29/22 09:44

Matrix: Solid

Date Received: 03/29/22 13:27

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00204 | U         | 0.00204 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 23:13 | 1       |
| Toluene             | <0.00204 | U         | 0.00204 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 23:13 | 1       |
| Ethylbenzene        | <0.00204 | U         | 0.00204 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 23:13 | 1       |
| m-Xylene & p-Xylene | <0.00408 | U         | 0.00408 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 23:13 | 1       |
| o-Xylene            | <0.00204 | U         | 0.00204 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 23:13 | 1       |
| Xylenes, Total      | <0.00408 | U         | 0.00408 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 23:13 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 | 03/31/22 12:00 | 03/31/22 23:13 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100       |           | 70 - 130 | 03/31/22 12:00 | 03/31/22 23:13 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-------|---|----------|----------------|---------|
| Total BTEX | <0.00408 | U         | 0.00408 | mg/Kg |   |          | 04/01/22 15:18 | 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 |   |          | 03/31/22 08:59 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

Client Sample ID: SS07

Lab Sample ID: 890-2148-3

Date Collected: 03/29/22 09:44

Matrix: Solid

Date Received: 03/29/22 13:27

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 |   | 03/30/22 10:05 | 03/30/22 15:48 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U         | 50.0     | mg/Kg |   | 03/30/22 10:05 | 03/30/22 15:48 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U         | 50.0     | mg/Kg |   | 03/30/22 10:05 | 03/30/22 15:48 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 112       |           | 70 - 130 |       |   | 03/30/22 10:05 | 03/30/22 15:48 | 1       |
| o-Terphenyl                          | 111       |           | 70 - 130 |       |   | 03/30/22 10:05 | 03/30/22 15:48 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 6.94   |           | 5.00 | mg/Kg |   |          | 04/08/22 08:26 | 1       |

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-12957-A-1-L MSD               | Matrix Spike Duplicate | 100                                            | 108               |
| 880-12957-A-1-N MS                | Matrix Spike           | 103                                            | 111               |
| 890-2148-1                        | SS05                   | 141 S1+                                        | 102               |
| 890-2148-2                        | SS06                   | 149 S1+                                        | 97                |
| 890-2148-3                        | SS07                   | 118                                            | 100               |
| LCS 880-22658/1-A                 | Lab Control Sample     | 97                                             | 105               |
| LCSD 880-22658/2-A                | Lab Control Sample Dup | 97                                             | 107               |
| MB 880-22658/5-A                  | Method Blank           | 118                                            | 100               |
| <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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-13046-A-1-D MS      | Matrix Spike           | 130                                            | 122               |
| 880-13046-A-1-E MSD     | Matrix Spike Duplicate | 119                                            | 112               |
| 890-2148-1              | SS05                   | 122                                            | 120               |
| 890-2148-2              | SS06                   | 120                                            | 117               |
| 890-2148-3              | SS07                   | 112                                            | 111               |
| LCS 880-22621/2-A       | Lab Control Sample     | 99                                             | 90                |
| LCSD 880-22621/3-A      | Lab Control Sample Dup | 107                                            | 96                |
| MB 880-22621/1-A        | Method Blank           | 144 S1+                                        | 155 S1+           |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

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

Lab Sample ID: MB 880-22658/5-A

Matrix: Solid

Analysis Batch: 22719

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22658

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 15:35 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 15:35 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 15:35 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 15:35 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 15:35 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 03/31/22 12:00 | 03/31/22 15:35 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118          |              | 70 - 130 | 03/31/22 12:00 | 03/31/22 15:35 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100          |              | 70 - 130 | 03/31/22 12:00 | 03/31/22 15:35 | 1       |

Lab Sample ID: LCS 880-22658/1-A

Matrix: Solid

Analysis Batch: 22719

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22658

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|-------------|------------|---------------|-------|---|------|-------------|
| Benzene             | 0.100       | 0.1059     |               | mg/Kg |   | 106  | 70 - 130    |
| Toluene             | 0.100       | 0.08868    |               | mg/Kg |   | 89   | 70 - 130    |
| Ethylbenzene        | 0.100       | 0.09566    |               | mg/Kg |   | 96   | 70 - 130    |
| m-Xylene & p-Xylene | 0.200       | 0.2009     |               | mg/Kg |   | 100  | 70 - 130    |
| o-Xylene            | 0.100       | 0.09872    |               | mg/Kg |   | 99   | 70 - 130    |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 97            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105           |               | 70 - 130 |

Lab Sample ID: LCSD 880-22658/2-A

Matrix: Solid

Analysis Batch: 22719

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22658

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|-------------|-----|-----------|
| Benzene             | 0.100       | 0.1028      |                | mg/Kg |   | 103  | 70 - 130    | 3   | 35        |
| Toluene             | 0.100       | 0.08247     |                | mg/Kg |   | 82   | 70 - 130    | 7   | 35        |
| Ethylbenzene        | 0.100       | 0.08947     |                | mg/Kg |   | 89   | 70 - 130    | 7   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1885      |                | mg/Kg |   | 94   | 70 - 130    | 6   | 35        |
| o-Xylene            | 0.100       | 0.09437     |                | mg/Kg |   | 94   | 70 - 130    | 5   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 97             |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 107            |                | 70 - 130 |

Lab Sample ID: 880-12957-A-1-L MSD

Matrix: Solid

Analysis Batch: 22719

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22658

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Benzene | <0.00202      | U                | 0.0996      | 0.08510    |               | mg/Kg |   | 85   | 70 - 130    | 4   | 35        |
| Toluene | <0.00202      | U F1             | 0.0996      | 0.06941    | F1            | mg/Kg |   | 69   | 70 - 130    | 5   | 35        |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

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

Lab Sample ID: 880-12957-A-1-L MSD

Matrix: Solid

Analysis Batch: 22719

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22658

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|-------------|-----|-----------|
| Ethylbenzene        | <0.00202      | U                | 0.0996      | 0.07530    |               | mg/Kg |   | 76   | 70 - 130    | 3   | 35        |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.199       | 0.1580     |               | mg/Kg |   | 79   | 70 - 130    | 3   | 35        |
| o-Xylene            | <0.00202      | U                | 0.0996      | 0.07836    |               | mg/Kg |   | 79   | 70 - 130    | 4   | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | MSD Limits |
|-----------------------------|---------------|---------------|------------|
| 4-Bromofluorobenzene (Surr) | 100           |               | 70 - 130   |
| 1,4-Difluorobenzene (Surr)  | 108           |               | 70 - 130   |

Lab Sample ID: 880-12957-A-1-N MS

Matrix: Solid

Analysis Batch: 22719

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22658

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|-------------|
| Benzene             | <0.00202      | U                | 0.0992      | 0.08872   |              | mg/Kg |   | 89   | 70 - 130    |
| Toluene             | <0.00202      | U F1             | 0.0992      | 0.07307   |              | mg/Kg |   | 73   | 70 - 130    |
| Ethylbenzene        | <0.00202      | U                | 0.0992      | 0.07727   |              | mg/Kg |   | 78   | 70 - 130    |
| m-Xylene & p-Xylene | <0.00404      | U                | 0.198       | 0.1629    |              | mg/Kg |   | 82   | 70 - 130    |
| o-Xylene            | <0.00202      | U                | 0.0992      | 0.08143   |              | mg/Kg |   | 82   | 70 - 130    |

| Surrogate                   | MS %Recovery | MS Qualifier | MS Limits |
|-----------------------------|--------------|--------------|-----------|
| 4-Bromofluorobenzene (Surr) | 103          |              | 70 - 130  |
| 1,4-Difluorobenzene (Surr)  | 111          |              | 70 - 130  |

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

Lab Sample ID: MB 880-22621/1-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 22621

| 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 |   | 03/30/22 10:05 | 03/30/22 10:35 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 03/30/22 10:05 | 03/30/22 10:35 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 03/30/22 10:05 | 03/30/22 10:35 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | MB Limits | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|-----------|----------------|----------------|---------|
| 1-Chlorooctane | 144          | S1+          | 70 - 130  | 03/30/22 10:05 | 03/30/22 10:35 | 1       |
| o-Terphenyl    | 155          | S1+          | 70 - 130  | 03/30/22 10:05 | 03/30/22 10:35 | 1       |

Lab Sample ID: LCS 880-22621/2-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22621

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|-------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 807.8      |               | mg/Kg |   | 81   | 70 - 130    |
| Diesel Range Organics (Over C10-C28) | 1000        | 810.5      |               | mg/Kg |   | 81   | 70 - 130    |

Eurofins Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

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

Lab Sample ID: LCS 880-22621/2-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 22621

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 99        |           | 70 - 130 |
| o-Terphenyl    | 90        |           | 70 - 130 |

Lab Sample ID: LCSD 880-22621/3-A

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 22621

|                                      | Spike | LCSD   | LCSD      |       |   |      |          | %Rec |       |  |  |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|------|-------|--|--|
| Analyte                              | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD  | Limit |  |  |
| Gasoline Range Organics (GRO)-C6-C10 | 1000  | 834.6  |           | mg/Kg |   | 83   | 70 - 130 | 3    | 20    |  |  |
| Diesel Range Organics (Over C10-C28) | 1000  | 874.6  |           | mg/Kg |   | 87   | 70 - 130 | 8    | 20    |  |  |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 107       |           | 70 - 130 |
| o-Terphenyl    | 96        |           | 70 - 130 |

Lab Sample ID: 880-13046-A-1-D MS

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 22621

|                                      | Sample | Sample    | Spike | MS     | MS        |       |   | %Rec |          |     |       |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 998   | 848.3  |           | mg/Kg |   | 85   | 70 - 130 |     |       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 998   | 825.6  |           | mg/Kg |   | 83   | 70 - 130 |     |       |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 130       |           | 70 - 130 |
| o-Terphenyl    | 122       |           | 70 - 130 |

Lab Sample ID: 880-13046-A-1-E MSD

Matrix: Solid

Analysis Batch: 22606

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 22621

|                                      | Sample | Sample    | Spike | MSD    | MSD       |       |   | %Rec |          |     |       |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|------|----------|-----|-------|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 998   | 864.3  |           | mg/Kg |   | 87   | 70 - 130 | 2   | 20    |
| Diesel Range Organics (Over C10-C28) | <49.9  | U         | 998   | 761.8  |           | mg/Kg |   | 76   | 70 - 130 | 8   | 20    |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 119       |           | 70 - 130 |
| o-Terphenyl    | 112       |           | 70 - 130 |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-22997/1-A

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 | mg/Kg |   |          | 04/08/22 04:33 | 1       |

Lab Sample ID: LCS 880-22997/2-A

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|----------------|
| Chloride | 250            | 250.2         |                  | mg/Kg |   | 100  | 90 - 110       |

Lab Sample ID: LCSD 880-22997/3-A

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 250            | 244.6          |                   | mg/Kg |   | 98   | 90 - 110       | 2   | 20           |

Lab Sample ID: 890-2142-A-22-F MS

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|----------------|
| Chloride | 284              |                     | 249            | 515.7        |                 | mg/Kg |   | 93   | 90 - 110       |

Lab Sample ID: 890-2142-A-22-G MSD

Matrix: Solid

Analysis Batch: 23131

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|----------------|-----|--------------|
| Chloride | 284              |                     | 249            | 518.1         |                  | mg/Kg |   | 94   | 90 - 110       | 0   | 20           |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

## GC VOA

## Prep Batch: 22658

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2148-1          | SS05                   | Total/NA  | Solid  | 5035   |            |
| 890-2148-2          | SS06                   | Total/NA  | Solid  | 5035   |            |
| 890-2148-3          | SS07                   | Total/NA  | Solid  | 5035   |            |
| MB 880-22658/5-A    | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-22658/1-A   | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-22658/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-12957-A-1-L MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |
| 880-12957-A-1-N MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 22719

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2148-1          | SS05                   | Total/NA  | Solid  | 8021B  | 22658      |
| 890-2148-2          | SS06                   | Total/NA  | Solid  | 8021B  | 22658      |
| 890-2148-3          | SS07                   | Total/NA  | Solid  | 8021B  | 22658      |
| MB 880-22658/5-A    | Method Blank           | Total/NA  | Solid  | 8021B  | 22658      |
| LCS 880-22658/1-A   | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 22658      |
| LCSD 880-22658/2-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 22658      |
| 880-12957-A-1-L MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 22658      |
| 880-12957-A-1-N MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 22658      |

## Analysis Batch: 22833

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 890-2148-1    | SS05             | Total/NA  | Solid  | Total BTEX |            |
| 890-2148-2    | SS06             | Total/NA  | Solid  | Total BTEX |            |
| 890-2148-3    | SS07             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 22606

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2148-1          | SS05                   | Total/NA  | Solid  | 8015B NM | 22621      |
| 890-2148-2          | SS06                   | Total/NA  | Solid  | 8015B NM | 22621      |
| 890-2148-3          | SS07                   | Total/NA  | Solid  | 8015B NM | 22621      |
| MB 880-22621/1-A    | Method Blank           | Total/NA  | Solid  | 8015B NM | 22621      |
| LCS 880-22621/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 22621      |
| LCSD 880-22621/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 22621      |
| 880-13046-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8015B NM | 22621      |
| 880-13046-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015B NM | 22621      |

## Prep Batch: 22621

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|---------------------|------------------------|-----------|--------|-------------|------------|
| 890-2148-1          | SS05                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2148-2          | SS06                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-2148-3          | SS07                   | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-22621/1-A    | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-22621/2-A   | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-22621/3-A  | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-13046-A-1-D MS  | Matrix Spike           | Total/NA  | Solid  | 8015NM Prep |            |
| 880-13046-A-1-E MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8015NM Prep |            |

Eurofins Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

## GC Semi VOA

## Analysis Batch: 22693

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 890-2148-1    | SS05             | Total/NA  | Solid  | 8015 NM |            |
| 890-2148-2    | SS06             | Total/NA  | Solid  | 8015 NM |            |
| 890-2148-3    | SS07             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 22997

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|---------------------|------------------------|-----------|--------|----------|------------|
| 890-2148-1          | SS05                   | Soluble   | Solid  | DI Leach |            |
| 890-2148-2          | SS06                   | Soluble   | Solid  | DI Leach |            |
| 890-2148-3          | SS07                   | Soluble   | Solid  | DI Leach |            |
| MB 880-22997/1-A    | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-22997/2-A   | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-22997/3-A  | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-2142-A-22-F MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 890-2142-A-22-G MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 23131

| Lab Sample ID       | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|---------------------|------------------------|-----------|--------|--------|------------|
| 890-2148-1          | SS05                   | Soluble   | Solid  | 300.0  | 22997      |
| 890-2148-2          | SS06                   | Soluble   | Solid  | 300.0  | 22997      |
| 890-2148-3          | SS07                   | Soluble   | Solid  | 300.0  | 22997      |
| MB 880-22997/1-A    | Method Blank           | Soluble   | Solid  | 300.0  | 22997      |
| LCS 880-22997/2-A   | Lab Control Sample     | Soluble   | Solid  | 300.0  | 22997      |
| LCSD 880-22997/3-A  | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 22997      |
| 890-2142-A-22-F MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 22997      |
| 890-2142-A-22-G MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 22997      |

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

Client Sample ID: SS05

Lab Sample ID: 890-2148-1

Date Collected: 03/29/22 09:40

Matrix: Solid

Date Received: 03/29/22 13:27

| 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         | 22658        | 03/31/22 12:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22719        | 03/31/22 22:32       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22833        | 04/01/22 15:18       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22693        | 03/31/22 08:59       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.04 g        | 10 mL        | 22621        | 03/30/22 10:05       | AM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 22606        | 03/30/22 15:05       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 22997        | 04/05/22 09:20       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 23131        | 04/08/22 07:10       | CH      | XEN MID |

Client Sample ID: SS06

Lab Sample ID: 890-2148-2

Date Collected: 03/29/22 09:42

Matrix: Solid

Date Received: 03/29/22 13:27

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.97 g         | 5 mL         | 22658        | 03/31/22 12:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22719        | 03/31/22 22:53       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22833        | 04/01/22 15:18       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22693        | 03/31/22 08:59       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 22621        | 03/30/22 10:05       | AM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 22606        | 03/30/22 15:27       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 22997        | 04/05/22 09:20       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 23131        | 04/08/22 08:20       | CH      | XEN MID |

Client Sample ID: SS07

Lab Sample ID: 890-2148-3

Date Collected: 03/29/22 09:44

Matrix: Solid

Date Received: 03/29/22 13:27

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 4.9 g          | 5 mL         | 22658        | 03/31/22 12:00       | KL      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 22719        | 03/31/22 23:13       | KL      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 22833        | 04/01/22 15:18       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 22693        | 03/31/22 08:59       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.01 g        | 10 mL        | 22621        | 03/30/22 10:05       | AM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 22606        | 03/30/22 15:48       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 22997        | 04/05/22 09:20       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 23131        | 04/08/22 08:26       | CH      | XEN MID |

## Laboratory References:

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

Eurofins Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

Laboratory: Eurofins Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

| Authority | Program | Identification Number | Expiration Date |
|-----------|---------|-----------------------|-----------------|
| Texas     | NELAP   | T104704400-21-22      | 06-30-22        |

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

| Analysis Method | Prep Method | Matrix | Analyte    |
|-----------------|-------------|--------|------------|
| 8015 NM         |             | Solid  | Total TPH  |
| Total BTEX      |             | Solid  | Total BTEX |

## Method Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

| 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 Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

## Sample Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29

Job ID: 890-2148-1  
SDG: 31403720.0000 task20.02

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-2148-1    | SS05             | Solid  | 03/29/22 09:40 | 03/29/22 13:27 | 0.5   |
| 890-2148-2    | SS06             | Solid  | 03/29/22 09:42 | 03/29/22 13:27 | 0.5   |
| 890-2148-3    | SS07             | Solid  | 03/29/22 09:44 | 03/29/22 13:27 | 0.5   |

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Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
Midland, TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock, TX (806) 794-1296  
Hobbs, NM (575) 392-7530 Phoenix, AZ (480) 355-0900 Atlanta, GA (770) 449-8800 Tampa, FL (813) 620-2000

Chain of Custody

Work Order No: \_\_\_\_\_

www.xenco.com Page 1 of 1

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

|                 |                         |             |                                     |
|-----------------|-------------------------|-------------|-------------------------------------|
| Project Name:   | Broadcaster 29          | Turn Around |                                     |
| Project Number: | 31403720.000 task 20.02 | Routine     | <input checked="" type="checkbox"/> |
| P.O. Number:    |                         | Rush:       |                                     |
| Sampler's Name: | Payton Benner           | Due Date:   |                                     |

|                       |                                                                         |                    |                                                                     |          |                                                                     |
|-----------------------|-------------------------------------------------------------------------|--------------------|---------------------------------------------------------------------|----------|---------------------------------------------------------------------|
| <b>SAMPLE RECEIPT</b> |                                                                         | Temp Blank:        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet Ice: | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Temperature (°C):     | 8.2/8.0                                                                 | Thermometer ID     | 11111111                                                            |          |                                                                     |
| Received Intact:      | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No     | Correction Factor: | 0.2                                                                 |          |                                                                     |
| Cooler Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A | Total Containers:  | 20.2                                                                |          |                                                                     |
| Sample Custody Seals: | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |                    |                                                                     |          |                                                                     |

|                       |  |                                                                         |  |                                                                     |  |                    |  |                                                                     |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
|-----------------------|--|-------------------------------------------------------------------------|--|---------------------------------------------------------------------|--|--------------------|--|---------------------------------------------------------------------|--|----------------------|--|----------------|--|-------------------|--|----------------------|--|---------------------------------------------------------------|--|--|--|--|--|--|--|--|--|--|--|-----------------|
| Project Name:         |  | Broadcaster 29                                                          |  | Turn Around                                                         |  | ANALYSIS REQUEST   |  |                                                                     |  |                      |  |                |  |                   |  |                      |  | Work Order Notes                                              |  |  |  |  |  |  |  |  |  |  |  |                 |
| Project Number:       |  | 31403720.000 task 20.02                                                 |  | Routine <input checked="" type="checkbox"/>                         |  |                    |  |                                                                     |  |                      |  |                |  |                   |  |                      |  | TAT starts the day received by the lab, if received by 4:30pm |  |  |  |  |  |  |  |  |  |  |  |                 |
| P.O. Number:          |  |                                                                         |  | Rush:                                                               |  |                    |  |                                                                     |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
| Sampler's Name:       |  | Payton Benner                                                           |  | Due Date:                                                           |  |                    |  |                                                                     |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
| SAMPLE RECEIPT        |  | Temp Blank:                                                             |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  | Wet Ice:           |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
| Temperature (°C):     |  | 8.2/8.0                                                                 |  |                                                                     |  | Thermometer ID     |  | 1111-007                                                            |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
| Received Intact:      |  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No     |  |                                                                     |  | Correction Factor: |  | 0.2                                                                 |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
| Cooler Custody Seals: |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                     |  | Total Containers:  |  |                                                                     |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
| Sample Custody Seals: |  | Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A |  |                                                                     |  |                    |  |                                                                     |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
| Sample Identification |  | Matrix                                                                  |  | Date Sampled                                                        |  | Time Sampled       |  | Depth                                                               |  | Number of Containers |  | TPH (EPA 8015) |  | BTEX (EPA 0-8021) |  | Chloride (EPA 300.0) |  |                                                               |  |  |  |  |  |  |  |  |  |  |  | Sample Comments |
| SS05                  |  | S                                                                       |  | 03/29/22                                                            |  | 9:40               |  | 0.5                                                                 |  | 1                    |  | X              |  | X                 |  | X                    |  |                                                               |  |  |  |  |  |  |  |  |  |  |  | DISCRETE        |
| SS06                  |  | S                                                                       |  | 03/29/22                                                            |  | 9:42               |  | 0.5                                                                 |  | 1                    |  | X              |  | X                 |  | X                    |  |                                                               |  |  |  |  |  |  |  |  |  |  |  | DISCRETE        |
| SS07                  |  | S                                                                       |  | 03/29/22                                                            |  | 9:44               |  | 0.5                                                                 |  | 1                    |  | X              |  | X                 |  | X                    |  |                                                               |  |  |  |  |  |  |  |  |  |  |  | DISCRETE        |
|                       |  |                                                                         |  |                                                                     |  |                    |  |                                                                     |  |                      |  |                |  |                   |  |                      |  |                                                               |  |  |  |  |  |  |  |  |  |  |  |                 |
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## Eurofins Carlsbad

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

## Chain of Custody Record



## Environment Testing America

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2148-1

SDG Number: 31403720.0000 task20.02

Login Number: 2148

List Number: 1

Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | N/A    |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | N/A    |         |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-2148-1

SDG Number: 31403720.0000 task20.02

Login Number: 2148

List Number: 2

Creator: Teel, Brianna

List Source: Eurofins Midland

List Creation: 03/30/22 11:54 AM

| Question                                                                         | Answer | Comment |
|----------------------------------------------------------------------------------|--------|---------|
| The cooler's custody seal, if present, is intact.                                | True   |         |
| Sample custody seals, if present, are intact.                                    | True   |         |
| The cooler or samples do not appear to have been compromised or tampered with.   | True   |         |
| Samples were received on ice.                                                    | True   |         |
| Cooler Temperature is acceptable.                                                | True   |         |
| Cooler Temperature is recorded.                                                  | True   |         |
| COC is present.                                                                  | True   |         |
| COC is filled out in ink and legible.                                            | True   |         |
| COC is filled out with all pertinent information.                                | True   |         |
| Is the Field Sampler's name present on COC?                                      | True   |         |
| There are no discrepancies between the containers received and the COC.          | True   |         |
| Samples are received within Holding Time (excluding tests with immediate HTs)    | True   |         |
| Sample containers have legible labels.                                           | True   |         |
| Containers are not broken or leaking.                                            | True   |         |
| Sample collection date/times are provided.                                       | True   |         |
| Appropriate sample containers are used.                                          | True   |         |
| Sample bottles are completely filled.                                            | True   |         |
| Sample Preservation Verified.                                                    | True   |         |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True   |         |
| Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").  | True   |         |



## Environment Testing America

### ANALYTICAL REPORT

Eurofins Xenco, Midland  
1211 W. Florida Ave  
Midland, TX 79701  
Tel: (432)704-5440

Laboratory Job ID: 880-9168-1

Laboratory Sample Delivery Group: 32.282, -103.49  
Client Project/Site: Broadcaster 29 Federal 0003H

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:  
12/14/2021 2:13:07 PM

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

#### LINKS

Review your project  
results through  
**TotalAccess**

Have a Question?



Visit us at:

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

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

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

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Laboratory Job ID: 880-9168-1  
SDG: 32.282, -103.49

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                    |
|-----------|----------------------------------------------------------|
| F1        | MS and/or MSD recovery exceeds control limits.           |
| 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.                                 |
|----------------|-------------------------------------------------------------------------------------------------------------|
| α              | Listed under the "D" column to designate that the result is reported on a dry weight basis                  |
| %R             | Percent Recovery                                                                                            |
| CFL            | Contains Free Liquid                                                                                        |
| CFU            | Colony Forming Unit                                                                                         |
| CNF            | Contains No Free Liquid                                                                                     |
| DER            | Duplicate Error Ratio (normalized absolute difference)                                                      |
| Dil Fac        | Dilution Factor                                                                                             |
| DL             | Detection Limit (DoD/DOE)                                                                                   |
| DL, RA, RE, IN | Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample |
| DLC            | Decision Level Concentration (Radiochemistry)                                                               |
| EDL            | Estimated Detection Limit (Dioxin)                                                                          |
| LOD            | Limit of Detection (DoD/DOE)                                                                                |
| LOQ            | Limit of Quantitation (DoD/DOE)                                                                             |
| MCL            | EPA recommended "Maximum Contaminant Level"                                                                 |
| MDA            | Minimum Detectable Activity (Radiochemistry)                                                                |
| MDC            | Minimum Detectable Concentration (Radiochemistry)                                                           |
| MDL            | Method Detection Limit                                                                                      |
| ML             | Minimum Level (Dioxin)                                                                                      |
| MPN            | Most Probable Number                                                                                        |
| MQL            | Method Quantitation Limit                                                                                   |
| NC             | Not Calculated                                                                                              |
| ND             | Not Detected at the reporting limit (or MDL or EDL if shown)                                                |
| NEG            | Negative / Absent                                                                                           |
| POS            | Positive / Present                                                                                          |
| PQL            | Practical Quantitation Limit                                                                                |
| PRES           | Presumptive                                                                                                 |
| QC             | Quality Control                                                                                             |
| RER            | Relative Error Ratio (Radiochemistry)                                                                       |
| RL             | Reporting Limit or Requested Limit (Radiochemistry)                                                         |
| RPD            | Relative Percent Difference, a measure of the relative difference between two points                        |
| TEF            | Toxicity Equivalent Factor (Dioxin)                                                                         |
| TEQ            | Toxicity Equivalent Quotient (Dioxin)                                                                       |
| TNTC           | Too Numerous To Count                                                                                       |

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

**Job ID: 880-9168-1****Laboratory: Eurofins Xenco, Midland****Narrative****Job Narrative  
880-9168-1****Receipt**

The samples were received on 12/9/2021 9:39 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

**GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-14352 and analytical batch 880-14356 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: SS02 (880-9168-2). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-14498 and analytical batch 880-14772 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: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

Client Sample ID: SS01

Lab Sample ID: 880-9168-1

Date Collected: 12/07/21 09:33

Matrix: Solid

Date Received: 12/09/21 09:39

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:55 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:55 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:55 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:55 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:55 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:55 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 118       |           | 70 - 130 | 12/09/21 10:15 | 12/09/21 14:55 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91        |           | 70 - 130 | 12/09/21 10:15 | 12/09/21 14:55 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00399 | U         | 0.00399 |     | mg/Kg |   |          | 12/10/21 14:15 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 271    |           | 49.9 |     | mg/Kg |   |          | 12/13/21 12:32 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 49.9 |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 22:10 | 1       |
| Diesel Range Organics (Over C10-C28) | 271    | F1        | 49.9 |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 22:10 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 22:10 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 92        |           | 70 - 130 | 12/10/21 15:20 | 12/10/21 22:10 | 1       |
| o-Terphenyl    | 92        |           | 70 - 130 | 12/10/21 15:20 | 12/10/21 22:10 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 23.0   |           | 4.98 |     | mg/Kg |   |          | 12/14/21 09:56 | 1       |

Client Sample ID: SS02

Lab Sample ID: 880-9168-2

Date Collected: 12/07/21 10:40

Matrix: Solid

Date Received: 12/09/21 09:39

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:15 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:15 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:15 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:15 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:15 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:15 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 101       |           | 70 - 130 | 12/09/21 10:15 | 12/09/21 15:15 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

Client Sample ID: SS02

Lab Sample ID: 880-9168-2

Date Collected: 12/07/21 10:40

Matrix: Solid

Date Received: 12/09/21 09:39

Sample Depth: 0.5

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

| Surrogate                  | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 1,4-Difluorobenzene (Surr) | 86        |           | 70 - 130 | 12/09/21 10:15 | 12/09/21 15:15 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 12/10/21 14:15 | 1       |

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

| Analyte   | Result | Qualifier | RL  | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|-----|-----|-------|---|----------|----------------|---------|
| Total TPH | 8710   |           | 250 |     | mg/Kg |   |          | 12/13/21 12:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <250      | U         | 250      |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:12 | 5       |
| Diesel Range Organics (Over C10-C28) | 8710      |           | 250      |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:12 | 5       |
| Oil Range Organics (Over C28-C36)    | <250      | U         | 250      |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:12 | 5       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 65        | S1-       | 70 - 130 |     |       |   | 12/10/21 15:20 | 12/10/21 23:12 | 5       |
| o-Terphenyl                          | 98        |           | 70 - 130 |     |       |   | 12/10/21 15:20 | 12/10/21 23:12 | 5       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 122    |           | 4.99 |     | mg/Kg |   |          | 12/14/21 10:16 | 1       |

Client Sample ID: SS03

Lab Sample ID: 880-9168-3

Date Collected: 12/07/21 09:40

Matrix: Solid

Date Received: 12/09/21 09:39

Sample Depth: 0.5

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

| Analyte             | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:36 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:36 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:36 | 1       |
| m-Xylene & p-Xylene | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:36 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:36 | 1       |
| Xylenes, Total      | <0.00401 | U         | 0.00401 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 15:36 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 113       |           | 70 - 130 | 12/09/21 10:15 | 12/09/21 15:36 | 1       |
| 1,4-Difluorobenzene (Surr)  | 95        |           | 70 - 130 | 12/09/21 10:15 | 12/09/21 15:36 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00401 | U         | 0.00401 |     | mg/Kg |   |          | 12/10/21 14:15 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 283    |           | 49.9 |     | mg/Kg |   |          | 12/13/21 12:32 | 1       |

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

## Client Sample ID: SS03

## Lab Sample ID: 880-9168-3

Date Collected: 12/07/21 09:40

Matrix: Solid

Date Received: 12/09/21 09:39

Sample Depth: 0.5

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:33 | 1       |
| Diesel Range Organics (Over C10-C28) | 283       |           | 49.9     |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:33 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:33 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 88        |           | 70 - 130 |     |       |   | 12/10/21 15:20 | 12/10/21 23:33 | 1       |
| o-Terphenyl                          | 86        |           | 70 - 130 |     |       |   | 12/10/21 15:20 | 12/10/21 23:33 | 1       |

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

| Analyte  | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Chloride | 283    |           | 5.00 |     | mg/Kg |   |          | 12/14/21 10:23 | 1       |

## Client Sample ID: SS04

## Lab Sample ID: 880-9168-4

Date Collected: 12/07/21 09:42

Matrix: Solid

Date Received: 12/09/21 09:39

Sample Depth: 0.5

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

| Analyte                     | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Benzene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 19:29 | 1       |
| Toluene                     | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 19:29 | 1       |
| Ethylbenzene                | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 19:29 | 1       |
| m-Xylene & p-Xylene         | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 19:29 | 1       |
| o-Xylene                    | <0.00199  | U         | 0.00199  |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 19:29 | 1       |
| Xylenes, Total              | <0.00398  | U         | 0.00398  |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 19:29 | 1       |
| Surrogate                   | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 125       |           | 70 - 130 |     |       |   | 12/09/21 10:15 | 12/09/21 19:29 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90        |           | 70 - 130 |     |       |   | 12/09/21 10:15 | 12/09/21 19:29 | 1       |

## Method: Total BTEX - Total BTEX Calculation

| Analyte    | Result   | Qualifier | RL      | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|------------|----------|-----------|---------|-----|-------|---|----------|----------------|---------|
| Total BTEX | <0.00398 | U         | 0.00398 |     | mg/Kg |   |          | 12/10/21 14:15 | 1       |

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

| Analyte   | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|-----------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Total TPH | 64.4   |           | 49.9 |     | mg/Kg |   |          | 12/13/21 12:32 | 1       |

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

| Analyte                              | Result    | Qualifier | RL       | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|-----------|----------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <49.9     | U         | 49.9     |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:54 | 1       |
| Diesel Range Organics (Over C10-C28) | 64.4      |           | 49.9     |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:54 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9     | U         | 49.9     |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 23:54 | 1       |
| Surrogate                            | %Recovery | Qualifier | Limits   |     |       |   | Prepared       | Analyzed       | Dil Fac |
| 1-Chlorooctane                       | 96        |           | 70 - 130 |     |       |   | 12/10/21 15:20 | 12/10/21 23:54 | 1       |
| o-Terphenyl                          | 98        |           | 70 - 130 |     |       |   | 12/10/21 15:20 | 12/10/21 23:54 | 1       |

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Client Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

Client Sample ID: SS04  
Date Collected: 12/07/21 09:42  
Date Received: 12/09/21 09:39  
Sample Depth: 0.5

Lab Sample ID: 880-9168-4  
Matrix: Solid

| Method: 300.0 - Anions, Ion Chromatography - Soluble |        |           |      |     |       |   |          |                |         |
|------------------------------------------------------|--------|-----------|------|-----|-------|---|----------|----------------|---------|
| Analyte                                              | Result | Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
| Chloride                                             | 77.1   |           | 5.00 |     | mg/Kg |   |          | 12/14/21 10:29 | 1       |

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

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |                   |
|-----------------------------------|------------------------|------------------------------------------------|-------------------|
| Lab Sample ID                     | Client Sample ID       | BFB1<br>(70-130)                               | DFBZ1<br>(70-130) |
| 880-9151-A-1-C MS                 | Matrix Spike           | 98                                             | 63 S1-            |
| 880-9151-A-1-D MSD                | Matrix Spike Duplicate | 118                                            | 96                |
| 880-9168-1                        | SS01                   | 118                                            | 91                |
| 880-9168-2                        | SS02                   | 101                                            | 86                |
| 880-9168-3                        | SS03                   | 113                                            | 95                |
| 880-9168-4                        | SS04                   | 125                                            | 90                |
| LCS 880-14352/1-A                 | Lab Control Sample     | 109                                            | 96                |
| LCSD 880-14352/2-A                | Lab Control Sample Dup | 107                                            | 95                |
| MB 880-14352/5-A                  | Method Blank           | 122                                            | 101               |
| <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<br>(70-130)                               | OTPH1<br>(70-130) |
| 880-9168-1              | SS01             | 92                                             | 92                |
| 880-9168-1 MS           | SS01             | 90                                             | 83                |
| 880-9168-1 MSD          | SS01             | 92                                             | 70                |
| 880-9168-2              | SS02             | 65 S1-                                         | 98                |
| 880-9168-3              | SS03             | 88                                             | 86                |
| 880-9168-4              | SS04             | 96                                             | 98                |
| <b>Surrogate Legend</b> |                  |                                                |                   |
| 1CO = 1-Chlorooctane    |                  |                                                |                   |
| OTPH = o-Terphenyl      |                  |                                                |                   |

## 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       | 1CO2<br>(70-130)                               | OTPH2<br>(70-130) |
| LCS 880-14526/2-A       | Lab Control Sample     | 98                                             | 109               |
| LCSD 880-14526/3-A      | Lab Control Sample Dup | 115                                            | 112               |
| MB 880-14526/1-A        | Method Blank           | 104                                            | 117               |
| <b>Surrogate Legend</b> |                        |                                                |                   |
| 1CO = 1-Chlorooctane    |                        |                                                |                   |
| OTPH = o-Terphenyl      |                        |                                                |                   |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

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

Lab Sample ID: MB 880-14352/5-A

Matrix: Solid

Analysis Batch: 14356

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14352

| Analyte             | MB Result | MB Qualifier | RL      | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-----|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:05 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:05 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:05 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:05 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:05 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 |     | mg/Kg |   | 12/09/21 10:15 | 12/09/21 14:05 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 122          |              | 70 - 130 | 12/09/21 10:15 | 12/09/21 14:05 | 1       |
| 1,4-Difluorobenzene (Surr)  | 101          |              | 70 - 130 | 12/09/21 10:15 | 12/09/21 14:05 | 1       |

Lab Sample ID: LCS 880-14352/1-A

Matrix: Solid

Analysis Batch: 14356

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14352

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.09391    |               | mg/Kg |   | 94   | 70 - 130     |
| Toluene             | 0.100       | 0.1001     |               | mg/Kg |   | 100  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1033     |               | mg/Kg |   | 103  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2028     |               | mg/Kg |   | 101  | 70 - 130     |
| o-Xylene            | 0.100       | 0.09703    |               | mg/Kg |   | 97   | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 109           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130 |

Lab Sample ID: LCSD 880-14352/2-A

Matrix: Solid

Analysis Batch: 14356

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14352

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.09215     |                | mg/Kg |   | 92   | 70 - 130     | 2   | 35        |
| Toluene             | 0.100       | 0.09617     |                | mg/Kg |   | 96   | 70 - 130     | 4   | 35        |
| Ethylbenzene        | 0.100       | 0.09594     |                | mg/Kg |   | 96   | 70 - 130     | 7   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.1903      |                | mg/Kg |   | 95   | 70 - 130     | 6   | 35        |
| o-Xylene            | 0.100       | 0.09404     |                | mg/Kg |   | 94   | 70 - 130     | 3   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 107            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 95             |                | 70 - 130 |

Lab Sample ID: 880-9151-A-1-C MS

Matrix: Solid

Analysis Batch: 14356

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14352

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Benzene | <0.00202      | U F1             | 0.101       | 0.05745   | F1           | mg/Kg |   | 57   | 70 - 130     |
| Toluene | <0.00202      | U F1 F2          | 0.101       | 0.05205   | F1           | mg/Kg |   | 52   | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

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

Lab Sample ID: 880-9151-A-1-C MS

Matrix: Solid

Analysis Batch: 14356

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 14352

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|
| Ethylbenzene        | <0.00202      | U F1             | 0.101       | 0.06151   | F1           | mg/Kg |   | 61   | 70 - 130     |
| m-Xylene & p-Xylene | <0.00403      | U F1             | 0.202       | 0.1252    | F1           | mg/Kg |   | 62   | 70 - 130     |
| o-Xylene            | <0.00202      | U F1             | 0.101       | 0.06914   | F1           | mg/Kg |   | 69   | 70 - 130     |

| Surrogate                   | MS %Recovery | MS Qualifier | Limits   |
|-----------------------------|--------------|--------------|----------|
| 4-Bromofluorobenzene (Surr) | 98           |              | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 63           | S1-          | 70 - 130 |

Lab Sample ID: 880-9151-A-1-D MSD

Matrix: Solid

Analysis Batch: 14356

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 14352

| Analyte             | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Benzene             | <0.00202      | U F1             | 0.0998      | 0.07782    |               | mg/Kg |   | 78   | 70 - 130     | 30  | 35        |
| Toluene             | <0.00202      | U F1 F2          | 0.0998      | 0.07605    | F2            | mg/Kg |   | 76   | 70 - 130     | 37  | 35        |
| Ethylbenzene        | <0.00202      | U F1             | 0.0998      | 0.07871    |               | mg/Kg |   | 79   | 70 - 130     | 25  | 35        |
| m-Xylene & p-Xylene | <0.00403      | U F1             | 0.200       | 0.1559     |               | mg/Kg |   | 78   | 70 - 130     | 22  | 35        |
| o-Xylene            | <0.00202      | U F1             | 0.0998      | 0.08168    |               | mg/Kg |   | 82   | 70 - 130     | 17  | 35        |

| Surrogate                   | MSD %Recovery | MSD Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 118           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 96            |               | 70 - 130 |

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

Lab Sample ID: MB 880-14526/1-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 14526

| Analyte                              | MB Result | MB Qualifier | RL   | MDL | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|-----------|--------------|------|-----|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0     | U            | 50.0 |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 21:07 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 21:07 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 |     | mg/Kg |   | 12/10/21 15:20 | 12/10/21 21:07 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 104          |              | 70 - 130 | 12/10/21 15:20 | 12/10/21 21:07 | 1       |
| o-Terphenyl    | 117          |              | 70 - 130 | 12/10/21 15:20 | 12/10/21 21:07 | 1       |

Lab Sample ID: LCS 880-14526/2-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14526

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 839.8      |               | mg/Kg |   | 84   | 70 - 130     |
| Diesel Range Organics (Over C10-C28) | 1000        | 971.0      |               | mg/Kg |   | 97   | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

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

Lab Sample ID: LCS 880-14526/2-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 14526

|                | LCS       | LCS       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 98        |           | 70 - 130 |
| o-Terphenyl    | 109       |           | 70 - 130 |

Lab Sample ID: LCSD 880-14526/3-A

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 14526

|                                      | Spike | LCSD   | LCSD      |       |   |      |          | %Rec. |       |
|--------------------------------------|-------|--------|-----------|-------|---|------|----------|-------|-------|
| Analyte                              | Added | Result | Qualifier | Unit  | D | %Rec | Limits   | RPD   | Limit |
| Gasoline Range Organics (GRO)-C6-C10 | 1000  | 888.4  |           | mg/Kg |   | 89   | 70 - 130 | 6     | 20    |
| Diesel Range Organics (Over C10-C28) | 1000  | 949.8  |           | mg/Kg |   | 95   | 70 - 130 | 2     | 20    |

|                | LCSD      | LCSD      |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 115       |           | 70 - 130 |
| o-Terphenyl    | 112       |           | 70 - 130 |

Lab Sample ID: 880-9168-1 MS

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 14526

|                                      | Sample | Sample    | Spike | MS     | MS        |       |   | %Rec. |          |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|-------|----------|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec  | Limits   |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 997   | 1194   |           | mg/Kg |   | 120   | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 271    | F1        | 997   | 1617   | F1        | mg/Kg |   | 135   | 70 - 130 |

|                | MS        | MS        |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 90        |           | 70 - 130 |
| o-Terphenyl    | 83        |           | 70 - 130 |

Lab Sample ID: 880-9168-1 MSD

Matrix: Solid

Analysis Batch: 14439

Client Sample ID: SS01

Prep Type: Total/NA

Prep Batch: 14526

|                                      | Sample | Sample    | Spike | MSD    | MSD       |       |   | %Rec. |          |
|--------------------------------------|--------|-----------|-------|--------|-----------|-------|---|-------|----------|
| Analyte                              | Result | Qualifier | Added | Result | Qualifier | Unit  | D | %Rec  | Limits   |
| Gasoline Range Organics (GRO)-C6-C10 | <49.9  | U         | 999   | 1251   |           | mg/Kg |   | 125   | 70 - 130 |
| Diesel Range Organics (Over C10-C28) | 271    | F1        | 999   | 1499   |           | mg/Kg |   | 123   | 70 - 130 |

|                | MSD       | MSD       |          |
|----------------|-----------|-----------|----------|
| Surrogate      | %Recovery | Qualifier | Limits   |
| 1-Chlorooctane | 92        |           | 70 - 130 |
| o-Terphenyl    | 70        |           | 70 - 130 |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-14498/1-A

Matrix: Solid

Analysis Batch: 14772

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB<br>Result | MB<br>Qualifier | RL   | MDL | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------------|-----------------|------|-----|-------|---|----------|----------------|---------|
| Chloride | <5.00        | U               | 5.00 |     | mg/Kg |   |          | 12/14/21 08:56 | 1       |

Lab Sample ID: LCS 880-14498/2-A

Matrix: Solid

Analysis Batch: 14772

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|----------------|---------------|------------------|-------|---|------|-----------------|
| Chloride | 250            | 250.7         |                  | mg/Kg |   | 100  | 90 - 110        |

Lab Sample ID: LCSD 880-14498/3-A

Matrix: Solid

Analysis Batch: 14772

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike<br>Added | LCSD<br>Result | LCSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|----------------|----------------|-------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 250            | 254.6          |                   | mg/Kg |   | 102  | 90 - 110        | 2   | 20           |

Lab Sample ID: 880-9166-A-2-C MS

Matrix: Solid

Analysis Batch: 14772

Client Sample ID: Matrix Spike

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MS<br>Result | MS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|----------|------------------|---------------------|----------------|--------------|-----------------|-------|---|------|-----------------|
| Chloride | 102              | F1                  | 248            | 387.7        | F1              | mg/Kg |   | 115  | 90 - 110        |

Lab Sample ID: 880-9166-A-2-D MSD

Matrix: Solid

Analysis Batch: 14772

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

| Analyte  | Sample<br>Result | Sample<br>Qualifier | Spike<br>Added | MSD<br>Result | MSD<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits | RPD | RPD<br>Limit |
|----------|------------------|---------------------|----------------|---------------|------------------|-------|---|------|-----------------|-----|--------------|
| Chloride | 102              | F1                  | 248            | 375.5         |                  | mg/Kg |   | 110  | 90 - 110        | 3   | 20           |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

## GC VOA

## Prep Batch: 14352

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-9168-1         | SS01                   | Total/NA  | Solid  | 5035   |            |
| 880-9168-2         | SS02                   | Total/NA  | Solid  | 5035   |            |
| 880-9168-3         | SS03                   | Total/NA  | Solid  | 5035   |            |
| 880-9168-4         | SS04                   | Total/NA  | Solid  | 5035   |            |
| MB 880-14352/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-14352/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-14352/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |
| 880-9151-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 5035   |            |
| 880-9151-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 14356

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-9168-1         | SS01                   | Total/NA  | Solid  | 8021B  | 14352      |
| 880-9168-2         | SS02                   | Total/NA  | Solid  | 8021B  | 14352      |
| 880-9168-3         | SS03                   | Total/NA  | Solid  | 8021B  | 14352      |
| 880-9168-4         | SS04                   | Total/NA  | Solid  | 8021B  | 14352      |
| MB 880-14352/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 14352      |
| LCS 880-14352/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 14352      |
| LCSD 880-14352/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 14352      |
| 880-9151-A-1-C MS  | Matrix Spike           | Total/NA  | Solid  | 8021B  | 14352      |
| 880-9151-A-1-D MSD | Matrix Spike Duplicate | Total/NA  | Solid  | 8021B  | 14352      |

## Analysis Batch: 14508

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method     | Prep Batch |
|---------------|------------------|-----------|--------|------------|------------|
| 880-9168-1    | SS01             | Total/NA  | Solid  | Total BTEX |            |
| 880-9168-2    | SS02             | Total/NA  | Solid  | Total BTEX |            |
| 880-9168-3    | SS03             | Total/NA  | Solid  | Total BTEX |            |
| 880-9168-4    | SS04             | Total/NA  | Solid  | Total BTEX |            |

## GC Semi VOA

## Analysis Batch: 14439

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-9168-1         | SS01                   | Total/NA  | Solid  | 8015B NM | 14526      |
| 880-9168-2         | SS02                   | Total/NA  | Solid  | 8015B NM | 14526      |
| 880-9168-3         | SS03                   | Total/NA  | Solid  | 8015B NM | 14526      |
| 880-9168-4         | SS04                   | Total/NA  | Solid  | 8015B NM | 14526      |
| MB 880-14526/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 14526      |
| LCS 880-14526/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 14526      |
| LCSD 880-14526/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 14526      |
| 880-9168-1 MS      | SS01                   | Total/NA  | Solid  | 8015B NM | 14526      |
| 880-9168-1 MSD     | SS01                   | Total/NA  | Solid  | 8015B NM | 14526      |

## Prep Batch: 14526

| Lab Sample ID     | Client Sample ID   | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|--------------------|-----------|--------|-------------|------------|
| 880-9168-1        | SS01               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-9168-2        | SS02               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-9168-3        | SS03               | Total/NA  | Solid  | 8015NM Prep |            |
| 880-9168-4        | SS04               | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-14526/1-A  | Method Blank       | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-14526/2-A | Lab Control Sample | Total/NA  | Solid  | 8015NM Prep |            |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

## GC Semi VOA (Continued)

## Prep Batch: 14526 (Continued)

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|--------------------|------------------------|-----------|--------|-------------|------------|
| LCSD 880-14526/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |
| 880-9168-1 MS      | SS01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 880-9168-1 MSD     | SS01                   | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 14652

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method  | Prep Batch |
|---------------|------------------|-----------|--------|---------|------------|
| 880-9168-1    | SS01             | Total/NA  | Solid  | 8015 NM |            |
| 880-9168-2    | SS02             | Total/NA  | Solid  | 8015 NM |            |
| 880-9168-3    | SS03             | Total/NA  | Solid  | 8015 NM |            |
| 880-9168-4    | SS04             | Total/NA  | Solid  | 8015 NM |            |

## HPLC/IC

## Leach Batch: 14498

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|--------------------|------------------------|-----------|--------|----------|------------|
| 880-9168-1         | SS01                   | Soluble   | Solid  | DI Leach |            |
| 880-9168-2         | SS02                   | Soluble   | Solid  | DI Leach |            |
| 880-9168-3         | SS03                   | Soluble   | Solid  | DI Leach |            |
| 880-9168-4         | SS04                   | Soluble   | Solid  | DI Leach |            |
| MB 880-14498/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-14498/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-14498/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 880-9166-A-2-C MS  | Matrix Spike           | Soluble   | Solid  | DI Leach |            |
| 880-9166-A-2-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 14772

| Lab Sample ID      | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|--------------------|------------------------|-----------|--------|--------|------------|
| 880-9168-1         | SS01                   | Soluble   | Solid  | 300.0  | 14498      |
| 880-9168-2         | SS02                   | Soluble   | Solid  | 300.0  | 14498      |
| 880-9168-3         | SS03                   | Soluble   | Solid  | 300.0  | 14498      |
| 880-9168-4         | SS04                   | Soluble   | Solid  | 300.0  | 14498      |
| MB 880-14498/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 14498      |
| LCS 880-14498/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 14498      |
| LCSD 880-14498/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 14498      |
| 880-9166-A-2-C MS  | Matrix Spike           | Soluble   | Solid  | 300.0  | 14498      |
| 880-9166-A-2-D MSD | Matrix Spike Duplicate | Soluble   | Solid  | 300.0  | 14498      |

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

Client Sample ID: SS01

Lab Sample ID: 880-9168-1

Date Collected: 12/07/21 09:33

Matrix: Solid

Date Received: 12/09/21 09:39

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Prep       | 5035         |     |            | 5.01 g         | 5 mL         | 14352        | 12/09/21 10:15       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 14356        | 12/09/21 14:55       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 14508        | 12/10/21 14:15       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 14652        | 12/13/21 12:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 14526        | 12/10/21 15:20       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 14439        | 12/10/21 22:10       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.02 g         | 50 mL        | 14498        | 12/10/21 12:22       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 14772        | 12/14/21 09:56       | CH      | XEN MID |

Client Sample ID: SS02

Lab Sample ID: 880-9168-2

Date Collected: 12/07/21 10:40

Matrix: Solid

Date Received: 12/09/21 09:39

| 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         | 14352        | 12/09/21 10:15       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 14356        | 12/09/21 15:15       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 14508        | 12/10/21 14:15       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 14652        | 12/13/21 12:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.00 g        | 10 mL        | 14526        | 12/10/21 15:20       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 5          |                |              | 14439        | 12/10/21 23:12       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5.01 g         | 50 mL        | 14498        | 12/10/21 12:22       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 14772        | 12/14/21 10:16       | CH      | XEN MID |

Client Sample ID: SS03

Lab Sample ID: 880-9168-3

Date Collected: 12/07/21 09:40

Matrix: Solid

Date Received: 12/09/21 09:39

| 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         | 14352        | 12/09/21 10:15       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 14356        | 12/09/21 15:36       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 14508        | 12/10/21 14:15       | AJ      | XEN MID |
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 14652        | 12/13/21 12:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.02 g        | 10 mL        | 14526        | 12/10/21 15:20       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 14439        | 12/10/21 23:33       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 14498        | 12/10/21 12:22       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 14772        | 12/14/21 10:23       | CH      | XEN MID |

Client Sample ID: SS04

Lab Sample ID: 880-9168-4

Date Collected: 12/07/21 09:42

Matrix: Solid

Date Received: 12/09/21 09:39

| 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         | 14352        | 12/09/21 10:15       | MR      | XEN MID |
| Total/NA  | Analysis   | 8021B        |     | 1          | 5 mL           | 5 mL         | 14356        | 12/09/21 19:29       | MR      | XEN MID |
| Total/NA  | Analysis   | Total BTEX   |     | 1          |                |              | 14508        | 12/10/21 14:15       | AJ      | XEN MID |

Eurofins Xenco, Midland

Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

Client Sample ID: SS04  
Date Collected: 12/07/21 09:42  
Date Received: 12/09/21 09:39

Lab Sample ID: 880-9168-4  
Matrix: Solid

| Prep Type | Batch Type | Batch Method | Run | Dil Factor | Initial Amount | Final Amount | Batch Number | Prepared or Analyzed | Analyst | Lab     |
|-----------|------------|--------------|-----|------------|----------------|--------------|--------------|----------------------|---------|---------|
| Total/NA  | Analysis   | 8015 NM      |     | 1          |                |              | 14652        | 12/13/21 12:32       | AJ      | XEN MID |
| Total/NA  | Prep       | 8015NM Prep  |     |            | 10.03 g        | 10 mL        | 14526        | 12/10/21 15:20       | DM      | XEN MID |
| Total/NA  | Analysis   | 8015B NM     |     | 1          |                |              | 14439        | 12/10/21 23:54       | AJ      | XEN MID |
| Soluble   | Leach      | DI Leach     |     |            | 5 g            | 50 mL        | 14498        | 12/10/21 12:22       | CH      | XEN MID |
| Soluble   | Analysis   | 300.0        |     | 1          |                |              | 14772        | 12/14/21 10:29       | CH      | XEN MID |

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

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

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 |

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

| 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

Eurofins Xenco, Midland

## Sample Summary

Client: WSP USA Inc.  
Project/Site: Broadcaster 29 Federal 0003H

Job ID: 880-9168-1  
SDG: 32.282, -103.49

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 880-9168-1    | SS01             | Solid  | 12/07/21 09:33 | 12/09/21 09:39 | 0.5   |
| 880-9168-2    | SS02             | Solid  | 12/07/21 10:40 | 12/09/21 09:39 | 0.5   |
| 880-9168-3    | SS03             | Solid  | 12/07/21 09:40 | 12/09/21 09:39 | 0.5   |
| 880-9168-4    | SS04             | Solid  | 12/07/21 09:42 | 12/09/21 09:39 | 0.5   |

1

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9

10

11

12

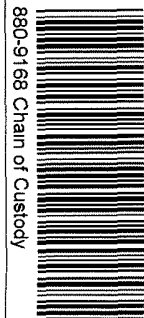
13

14



## Chain of Custody

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 509-3334  
 Midland TX (432) 704-5440 El Paso TX (915) 585-3443 Lubbock TX (806) 794-1296  
 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix, AZ (480) 355-0900  
 Tampa FL (813) 620-2000 Tallahassee FL (904) 756-0747 Delray Beach FL (561) 689-6701  
 Atlanta GA (770) 449-8800



880-9168 Chain of Custody

www.xenco.com Page 1 of 1

|                 |                     |                        |                        |
|-----------------|---------------------|------------------------|------------------------|
| Project Manager | Kalei Jennings      | Bill to (if different) | Kalei Jennings         |
| Company Name    | WSP USA             | Company Name           | WSP USA                |
| Address         | 3300 North A Street | Address                | 3300 North A Street    |
| City State ZIP  | Midland, TX 79105   | City State ZIP         | Midland, TX 79105      |
| Phone           | 817-683-2503        | Email                  | Kalei.Jennings@wsp.com |

|                                                                                                                                                                                |                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Program: UST/PST <input type="checkbox"/> PRF <input type="checkbox"/> Brownfield <input type="checkbox"/> RR <input type="checkbox"/> Superfund <input type="checkbox"/>      | Work Order Comments |
| State of Project                                                                                                                                                               |                     |
| Reporting Level <input type="checkbox"/> Level <input type="checkbox"/> PST/US <input type="checkbox"/> TRF <input type="checkbox"/> Level <input checked="" type="checkbox"/> |                     |
| Deliverables EDD <input checked="" type="checkbox"/> ADAPT <input type="checkbox"/> Other                                                                                      |                     |

|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|------------------------|----------------------------------------------|-------------------|---------------------------------------------------------------------------|------------------|-------------------------------------------------------------------------------------------------------------|--|--|--|--|--|--|
| Project Name           | Broadcaster 29 Federal 0003H                 | Turn Around       | <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush | ANALYSIS REQUEST | PRESERVATIVE CODES<br>HNO3 HN<br>H2SO4 H2<br>HCL HL<br>None NO<br>NaOH Na<br>MeOH Me<br>Zn Acetate+ NaOH Zn |  |  |  |  |  |  |
| Project Number         | 31403720.000                                 | 20.02             |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
| Project Location       | 32 282, -103 49                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
| Sampler's Name         | Hadlie Green                                 | Due Date          | 5 DAY TAT                                                                 |                  |                                                                                                             |  |  |  |  |  |  |
| PO #                   |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
| SAMPLE RECEIPT         |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
| Temperature (°C)       | 41/42                                        | Temp Blank        | Yes (No) <input checked="" type="checkbox"/> Wet Ice                      | Thermometer ID   |                                                                                                             |  |  |  |  |  |  |
| Received Intact        | Yes (No) <input checked="" type="checkbox"/> | Correction Factor |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
| Cooler Custody Seals   | Yes (No) <input checked="" type="checkbox"/> | Total Containers  | 10                                                                        |                  |                                                                                                             |  |  |  |  |  |  |
| Sample Custody Seals   | Yes (No) <input checked="" type="checkbox"/> |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
| Sample Identification  | Matrix                                       | Date Sampled      | Time Sampled                                                              | Depth            | Number of Containers/Preservative Code                                                                      |  |  |  |  |  |  |
| SS01                   | SL                                           | 12/7/2021         | 9 33                                                                      | 0.5              | BTEX                                                                                                        |  |  |  |  |  |  |
| SS02                   | SL                                           | 12/7/2021         | 10 40                                                                     | 0.5              | TPH                                                                                                         |  |  |  |  |  |  |
| SS03                   | SL                                           | 12/7/2021         | 9 40                                                                      | 0.5              | CHLORIDES                                                                                                   |  |  |  |  |  |  |
| SS04                   | SL                                           | 12/7/2021         | 9 42                                                                      | 0.5              |                                                                                                             |  |  |  |  |  |  |
| Sample Comments<br>402 |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |
|                        |                                              |                   |                                                                           |                  |                                                                                                             |  |  |  |  |  |  |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                         |                                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------|
| Total 200.7 / 6010 200.8 / 6020:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                         | 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn |
| Circle Method(s) and Metal(s) to be analyzed                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                         | TCLP / SPLP 6010 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U                                  |
| Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated. |                         |                                                                                                        |
| Relinquished by (Signature)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Received by (Signature) | Date/Time                                                                                              |
| 1 <i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <i>[Signature]</i>      | 12/9/21 9:39 <sup>12</sup>                                                                             |
| 3 <i>[Signature]</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                         | 4                                                                                                      |
| 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                         | 6                                                                                                      |

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-9168-1

SDG Number: 32.282, -103.49

Login Number: 9168

List Number: 1

Creator: Rodriguez, Leticia

List Source: Eurofins Xenco, Midland

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



## APPENDIX D

### NMOCD Notifications

**From:** [Nobui, Jennifer, EMNRD](#)  
**To:** [Kalei Jennings](#)  
**Cc:** [Bratcher, Mike, EMNRD](#); [Hamlet, Robert, EMNRD](#); [Harimon, Jocelyn, EMNRD](#)  
**Subject:** FW: [EXTERNAL] Sampling Notification (Week of 06/13/22-06/17/22)  
**Date:** Wednesday, June 8, 2022 5:31:39 PM  
**Attachments:** [image001.png](#)  
[image002.png](#)  
[image003.png](#)  
[image004.png](#)

---

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

Kalei

Thank you for the notification. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Thanks,  
Jennifer Nobui

---

**From:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Sent:** Wednesday, June 8, 2022 4:21 PM  
**To:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>; Nobui, Jennifer, EMNRD <[Jennifer.Nobui@state.nm.us](mailto:Jennifer.Nobui@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Harimon, Jocelyn, EMNRD <[Jocelyn.Harimon@state.nm.us](mailto:Jocelyn.Harimon@state.nm.us)>  
**Subject:** Fw: [EXTERNAL] Sampling Notification (Week of 06/13/22-06/17/22)

---

**From:** Kalei Jennings <[kjennings@ensolum.com](mailto:kjennings@ensolum.com)>  
**Sent:** Wednesday, June 8, 2022 4:11 PM  
**To:** Enviro, OCD, EMNRD <[OCD.Enviro@state.nm.us](mailto:OCD.Enviro@state.nm.us)>  
**Subject:** [EXTERNAL] Sampling Notification (Week of 06/13/22-06/17/22)

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

All,

COP plans to complete final sampling activities at the following sites the week of June 13, 2022.

Monday

- Columbus Fed 021 & 022H CTB / NAPP2203830124

Tuesday

- Battle Axe Federal Com 002H / NAPP2134740531
- Broadcaster 29 Federal 3H / NAPP2201938653 & NAPP2132773092

- Super Cobra State Com #001H / NAPP2211531225
- Raspberry State Com 001H / NAPP2213029810

Wednesday

- Raspberry State Com 001H / NAPP2213029810
- Jaguar 18 State Com 002H & 003H / NAPP2213643210
- 

Thursday

Friday

Thank you,



**Kalei Jennings**

Senior Scientist

817-683-2503

**Ensolum, LLC**



**From:** [Beauvais, Charles R](#)  
**To:** [Kalei Jennings](#)  
**Subject:** FW: [EXTERNAL](Extension Approval) Broadcaster 29 Federal 003H (Incident Number NAPP2132773092)  
**Date:** Tuesday, April 26, 2022 9:40:39 AM  
**Attachments:** [image002.jpg](#)  
[image003.png](#)

---

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

FYI

---

**From:** Hamlet, Robert, EMNRD <Robert.Hamlet@state.nm.us>  
**Sent:** Tuesday, April 26, 2022 7:45 AM  
**To:** Beauvais, Charles R <Charles.R.Beauvais@conocophillips.com>; Esparza, Brittany <Brittany.Esparza@conocophillips.com>  
**Cc:** Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Nobui, Jennifer, EMNRD <Jennifer.Nobui@state.nm.us>  
**Subject:** [EXTERNAL](Extension Approval) Broadcaster 29 Federal 003H (Incident Number NAPP2132773092)

**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 #**NAPP2132773092**

**Charles,**

Your request for an extension to **July 24th, 2022** is approved. Please 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:** Monday, April 25, 2022 5:34 PM

**To:** EMNRD-OCD-District1spills <[EMNRD-OCD-District1spills@state.nm.us](mailto:EMNRD-OCD-District1spills@state.nm.us)>; Hamlet, Robert, EMNRD <[Robert.Hamlet@state.nm.us](mailto:Robert.Hamlet@state.nm.us)>; Esparza, Brittany <[Brittany.Esparza@conocophillips.com](mailto:Brittany.Esparza@conocophillips.com)>  
**Cc:** Bratcher, Mike, EMNRD <[mike.bratcher@state.nm.us](mailto:mike.bratcher@state.nm.us)>  
**Subject:** [EXTERNAL] Extension Request- Broadcaster 29 Federal 003H (Incident Number NAPP2132773092)

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 24, 2022 deadline for submitting a remediation work plan or closure report required in 19.15.29.12.B.(1) NMAC for the Broadcaster 29 Federal 003H (Incident Number NAPP2132773092). The release was discovered on October 26, 2021. There was a second release event on January 4, 2022 (Incident Number NAPP2201938653). Remediation activities are ongoing. In addition, COP intends to drill a depth to water boring to confirm the closure criteria at the Site. The two release events will be addressed simultaneously. 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 an extension of the deadline until July 24, 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    | NAPP2132773092 |
| 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    | NAPP2132773092 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

|                                                                                                                            |                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><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> |

**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 63506

## CONDITIONS

|                                                                           |                                                           |
|---------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137                                          |
|                                                                           | Action Number:<br>63506                                   |
|                                                                           | Action Type:<br>[C-141] Release Corrective Action (C-141) |

## CONDITIONS

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

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2132773092 |
| 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    | NAPP2132773092 |
| 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: 07/25/2022  
email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

**OCD Only**

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

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2132773092 |
| 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.

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Printed Name: Charles Beauvais Title: Senior Environmental Engineer  
Signature: Charles R. Beauvais Date: 07/25/2022  
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: 07/27/2022

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    | NAPP2201938653 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Release Notification

### Responsible Party

|                         |                                                |                              |                |
|-------------------------|------------------------------------------------|------------------------------|----------------|
| Responsible Party       | COG Operating, LLC                             | OGRID                        | 229137         |
| Contact Name            | Kelsy Waggaman                                 | Contact Telephone            | (432) 688-9057 |
| Contact email           | Kelsy.Waggaman@ConocoPhillips.com              | Incident # (assigned by OCD) | NAPP2201938653 |
| Contact mailing address | 600 West Illinois Avenue, Midland, Texas 79701 |                              |                |

### Location of Release Source

Latitude 32.28158 Longitude -103.49006  
(NAD 83 in decimal degrees to 5 decimal places)

|                         |                             |                      |              |
|-------------------------|-----------------------------|----------------------|--------------|
| Site Name               | Broadcaster 29 Federal 003H | Site Type            | Tank Battery |
| Date Release Discovered | January 4, 2022             | API# (if applicable) |              |

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
| B           | 29      | 23S      | 34E   | Lea    |

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (Name: Limestone Basin Prop Ranch, LLC)

### Nature and Volume of Release

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

|                                               |                                                                                |                                                          |
|-----------------------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------|
| <input checked="" type="checkbox"/> Crude Oil | Volume Released (bbls) <b>0.2</b>                                              | Volume Recovered (bbls) <b>0</b>                         |
| <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

The release was caused by a oil to flare event.  
No fluid was recovered due to the fire burning off and standing fluid. The release resulted in a flare fire on and off pad.

State of New Mexico  
Oil Conservation Division

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2201938653 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

|                                                                                                                                                                                                                                                                   |                                                                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<br><br><input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                                                                                                             | If YES, for what reason(s) does the responsible party consider this a major release?<br><b>The release involved a fire.</b> |
| If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?<br><b>Immediate notice was given by Kelsy Waggaman via e-mail January 5, 2022 at 6:00 pm to BLM_NM_CFO_Spill@blm.gov and ocd.enviro@state.nm.us.</b> |                                                                                                                             |

### Initial Response

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| <input checked="" type="checkbox"/> The source of the release has been stopped.<br><input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment.<br><input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.<br><input checked="" 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:<br><br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                        |
| Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.                                                                                                                                                                                                                                                                                                                                                                                      |                                        |
| I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. |                                        |
| Printed Name: <b>Brittany N. Esparza</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Title: <b>Environmental Technician</b> |
| Signature:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Date: <b>1/19/2022</b>                 |
| email: <b>Brittany.Esparza@ConocoPhillips.com</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Telephone: <b>(432) 221-0398</b>       |
| <b><u>OCD Only</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                        |
| Received by: <b>Ramona Marcus</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date: <b>1/19/2022</b>                 |

L48 Spill Volume Estimate Form

|                                        |                                           |                                                                                                                                                                                                                                                                                                                                                                                      |                |
|----------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| Received by OCD: 1/19/2022 10:51:59 AM | Facility Name & Number                    | BROADCASTER 29 FED 3H BATTERY / LEASE #NM092199 / API #30-025-41909                                                                                                                                                                                                                                                                                                                  |                |
|                                        | Asset Area                                | NDBE                                                                                                                                                                                                                                                                                                                                                                                 | NAPP2201938653 |
|                                        | Release Discovery Date & Time             | 1-4-2021 @ 10:28AM                                                                                                                                                                                                                                                                                                                                                                   |                |
|                                        | Release Type                              | Oil                                                                                                                                                                                                                                                                                                                                                                                  |                |
|                                        | Provide any known details about the event | Found that the regulator that supplies the pneumatic oil dump froze. This did not allow supply gas to enter the dump causing the dump to be inoperable. A few months back we made modifications to the battery. Some of the modifications included adding high liquid level kills to each ke and heater. During this upset condition we failed to receive an alarm notifying us that |                |

Spill Calculation - Subsurface Spill - Rectangle

|                                                          |              |                           |             |                               |                                      |                                        |                                                 |                                              |                                                                |
|----------------------------------------------------------|--------------|---------------------------|-------------|-------------------------------|--------------------------------------|----------------------------------------|-------------------------------------------------|----------------------------------------------|----------------------------------------------------------------|
| Was the release on pad or off-pad?                       |              | See reference table below |             |                               |                                      |                                        |                                                 |                                              |                                                                |
| Has it rained at least a half inch in the last 24 hours? |              | See reference table below |             |                               |                                      |                                        |                                                 |                                              |                                                                |
| Convert Irregular shape into a series of rectangles      | Length (ft.) | Width (ft.)               | Depth (in.) | Soil Spilled-Fluid Saturation | Estimated volume of each area (bbl.) | Total Estimated Volume of Spill (bbl.) | Percentage of Oil if Spilled Fluid is a Mixture | Total Estimated Volume of Spilled Oil (bbl.) | Total Estimated Volume of Spilled Liquid other than Oil (bbl.) |
| Rectangle A                                              | 80.0         | 40.0                      | 0.03        | 15.16%                        | 1.486                                | 0.225                                  |                                                 |                                              |                                                                |
| Rectangle B                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle C                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle D                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle E                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle F                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle G                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle H                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle I                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Rectangle J                                              |              |                           |             |                               | 0.000                                | 0.000                                  |                                                 |                                              |                                                                |
| Total Volume Release:                                    |              |                           |             |                               |                                      | 0.225                                  |                                                 |                                              |                                                                |

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

CONDITIONS  
  
Action 73462

CONDITIONS

|                                                                           |                                                           |
|---------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137                                          |
|                                                                           | Action Number:<br>73462                                   |
|                                                                           | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition | Condition Date |
|------------|-----------|----------------|
| rmarcus    | None      | 1/19/2022      |

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2201938653 |
| 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.
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- ☒ 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

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|----------------|----------------|
| Incident ID    | NAPP2201938653 |
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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: 07/25/2022  
email: Charles.R.Beauvais@conocophillips.com Telephone: 575-988-2043

**OCD Only**

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

|                |                |
|----------------|----------------|
| Incident ID    | NAPP2201938653 |
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| 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 II Date: 07/25/2022  
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: 07/27/2022

**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 128448

CONDITIONS

|                                                                           |                                                           |
|---------------------------------------------------------------------------|-----------------------------------------------------------|
| Operator:<br>COG OPERATING LLC<br>600 W Illinois Ave<br>Midland, TX 79701 | OGRID:<br>229137                                          |
|                                                                           | Action Number:<br>128448                                  |
|                                                                           | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition                  | Condition Date |
|------------|----------------------------|----------------|
| jnobui     | Remediation Plan Approved. | 7/27/2022      |