

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

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

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

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

## Release Notification

### Responsible Party

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

### Location of Release Source

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

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

| Unit Letter | Section | Township | Range | County |
|-------------|---------|----------|-------|--------|
|             |         |          |       |        |

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

### Nature and Volume of Release

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

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

Cause of Release

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

|  |  |
|--|--|
| Was this a major release as defined by 19.15.29.7(A) NMAC?<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>Adrian Bales</u>   | Date: _____      |
| email: _____   | Telephone: _____ |
| <b><u>OCD Only</u></b>   |                  |
| Received by: _____   | Date: _____      |

|  |                         |         |
|--|-------------------------|---------|
| <b>Location:</b>                         | <b>Thriller Battery</b> |         |
| <b>Spill Date:</b>                       | <b>4/4/2021</b>         |         |
| <b>Area 1</b>                            |                         |         |
| Approximate Area =                       | 485.00                  | sq. ft. |
| Average Saturation (or depth) of spill = | 0.50                    | inches  |
|  |                         |         |
| Average Porosity Factor =                | 0.03                    |         |
|  |                         |         |
| <b>VOLUME OF LEAK</b>                    |                         |         |
| Total Crude Oil =                        | 0.11                    | bbls    |
| <b>TOTAL VOLUME OF LEAK</b>              |                         |         |
| Total Crude Oil =                        | 0.11                    | bbls    |
| <b>TOTAL VOLUME RECOVERED</b>            |                         |         |
| Total Crude Oil =                        | 0.00                    | bbls    |

|                |                |
|----------------|----------------|
| Incident ID    | nAPP2110463633 |
| District RP    |                |
| Facility ID    |                |
| Application ID |                |

## Closure

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

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

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

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

Printed Name: Kyle Littrell Title: Environmental Manager

Signature:  Date: 05/27/2021

email: Kyle.Littrell@exxonmobil.com Telephone: 432-221-7331

### OCD Only

Received by: Robert Hamlet Date: 8/10/2021

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

Closure Approved by: Robert Hamlet Date: 8/10/2021

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



WSP USA

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

May 28, 2021

District II  
New Mexico Oil Conservation Division  
811 South First Street  
Artesia, New Mexico 88210

**RE: Closure Request  
Thriller Battery  
Incident Numbers nAPP2108546355, nAPP2108544357, and nAPP2110463633  
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Thriller Battery (Site) in Unit A, Section 32, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following three flare fire release events at the Site. Based on field observations and soil sample analytical results, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Numbers nAPP2108546355, nAPP2108544357, and nAPP2110463633.

#### **RELEASE BACKGROUND**

On March 18, 2021, the battery vapor recovery unit (VRU) shut down, causing the release of approximately 0.14 barrels (bbls) of condensate through the flare stack, which resulted in a small fire. The fire extinguished itself and there were no standing fluids to recover. XTO reported the release to the New Mexico Oil Conservation Division (NMOCD) via email on March 19, 2021. A Release Notification and Corrective Action Form C-141 (Form C-141) was submitted on March 26, 2021 and the release was assigned Incident Number nAPP2108546355.

On March 19, 2021, the battery VRU shut down, causing the release of approximately 0.28 bbls of condensate through the flare stack, which resulted in a small fire. The fire extinguished itself and there were no standing fluids to recover. XTO reported the release to the NMOCD via email on March 20, 2021. A Form C-141 on was submitted on March 26, 2021 and the release was assigned Incident Number nAPP2108544357.

On April 4, 2021, an open vacuum breaker caused approximately 0.11 bbls of crude oil to release through the flare stack, which resulted in a small fire. The fire extinguished itself and there were no standing fluids to recover. XTO reported the release to the NMOCD via email on April 5, 2021.



A Form C-141 on was submitted on April 14, 2021 and the release was assigned Incident Number nAPP2110463633.

## **SITE CHARACTERIZATION**

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50 feet and 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 320532104001701, located approximately 0.37 miles west of the Site. The groundwater well has a reported depth to groundwater of 98 feet bgs and a total depth of 128 feet bgs. Ground surface elevation at the groundwater well location is 2,988 feet above mean sea level (amsl), which is approximately 6 feet higher in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 2,065 feet east 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 (medium potential karst designation area). Site receptors are identified on Figure 1.

## **CLOSURE CRITERIA**

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

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



## **SITE ASSESSMENT ACTIVITIES**

On April 29, 2021, WSP personnel visited the Site to evaluate the flare fire release extents based on information provided on the Form C-141s, visual observations, and information provided by on-site XTO personnel. The release extents from the three flare fires overlapped and were evaluated simultaneously. Three potholes (PH01 through PH03) were advanced using a track-mounted backhoe to a depth of approximately 2 feet bgs near the flare stack. Delineation soil samples were collected from the potholes from depths of approximately 1-foot and 2 feet bgs to assess for the presence or absence of impacted soil. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling log, which are included in Attachment 2. The delineation soil sample locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2. Photographic documentation was conducted during the site visit and are included in Attachment 3.

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

## **SOIL ANALYTICAL RESULTS**

Laboratory analytical results for delineation soil samples from potholes PH01 through PH03 indicated benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

## **CLOSURE REQUEST**

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from three flare fire release events at the Site. Laboratory analytical results for the soil samples collected within the release extent, indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. As such, XTO respectfully requests NFA for Incident Numbers nAPP2108546355, nAPP2108544357, and nAPP2110463633.



District II  
Page 4

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink, appearing to read 'Spencer Lo'.

Spencer Lo  
Staff Geologist

A handwritten signature in black ink, appearing to read 'Ashley L. Ager'.

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

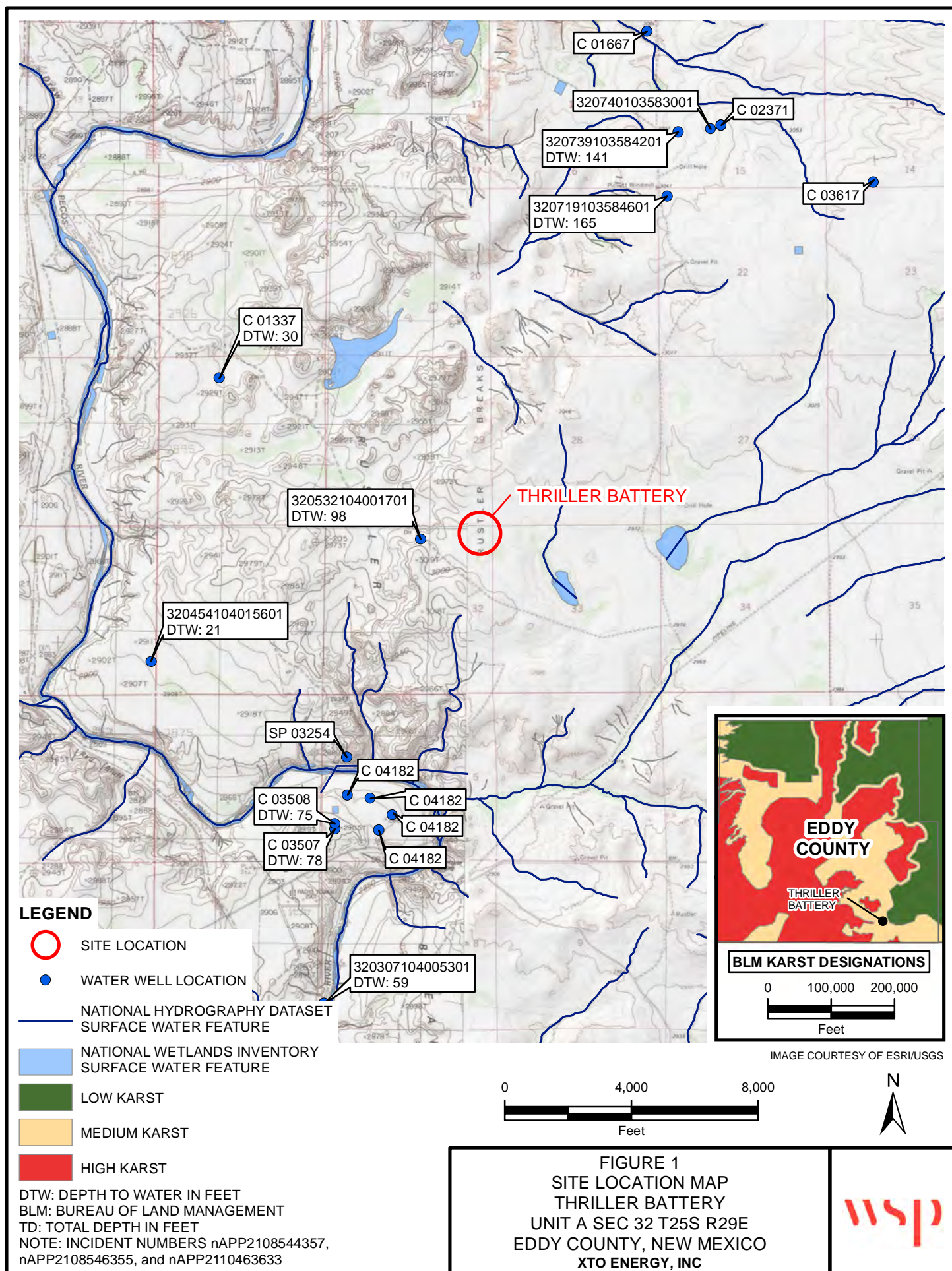
cc: Kyle Littrell, XTO  
Ryan Mann, New Mexico State Land Office

Attachments:

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



FIGURES

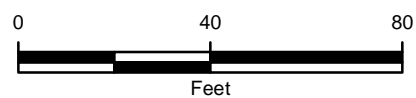


**LEGEND**

- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- ◆ FLARE STACK
- RELEASE EXTENT

NOTE: INCIDENT NUMBERS nAPP2108544357, nAPP2108546355, and nAPP2110463633  
 SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

IMAGE COURTESY OF ESRI



**FIGURE 2**  
 DELINEATION SOIL SAMPLE LOCATIONS  
 THRILLER BATTERY  
 UNIT A SEC 32 T25S R29E  
 EDDY COUNTY, NEW MEXICO  
 XTO ENERGY, INC.



TABLES



Table 1

Soil Analytical Results  
Thriller Battery  
Incident Numbers: nAPP2108544357, nAPP2108546355, and nAPP2110463633  
Eddy County, New Mexico

| Sample ID                                      | Sample Date | Sample Depth<br>(ft bgs) | Benzene<br>(mg/kg) | BTEX<br>(mg/kg) | TPH-GRO<br>(mg/kg) | TPH-DRO<br>(mg/kg) | TPH-ORO<br>(mg/kg) | Total<br>GRO+DRO<br>(mg/kg) | TPH<br>(mg/kg) | Chloride<br>(mg/kg) |
|--|-------------|--------------------------|--------------------|-----------------|--------------------|--------------------|--------------------|-----------------------------|----------------|---------------------|
| NMOCD Table 1 Closure Criteria (NMAC 19.15.29) |             |                          | 10                 | 50              | NE                 | NE                 | NE                 | 1,000                       | 2,500          | 10,000              |
| <b>Delineation Samples</b>                     |             |                          |                    |                 |                    |                    |                    |                             |                |                     |
| PH01   | 04/29/2021  | 1                        | <0.00200           | <0.00399        | <49.9              | <49.9              | <49.9              | <49.9                       | <49.9          | 76.4                |
| PH01A  | 04/29/2021  | 2                        | <0.00199           | <0.00398        | <50.0              | <50.0              | <50.0              | <50.0                       | <50.0          | 394                 |
| PH02   | 04/29/2021  | 1                        | <0.00200           | <0.00400        | <50.0              | <50.0              | <50.0              | <50.0                       | <50.0          | 91.6                |
| PH02A  | 04/29/2021  | 2                        | <0.00202           | <0.00403        | <50.0              | <50.0              | <50.0              | <50.0                       | <50.0          | 17.7                |
| PH03   | 04/29/2021  | 1                        | <0.00201           | <0.00402        | <49.9              | <49.9              | <49.9              | <49.9                       | <49.9          | 684                 |
| PH03A  | 04/29/2021  | 2                        | <0.00199           | <0.00398        | <49.9              | 71.2               | <49.9              | 71.2                        | 71.2           | 1,650               |

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

ATTACHMENT 1: REFERENCED WELL RECORD

# USGS 320532104001701 25S.29E.32.21111

## Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°05'32", Longitude 104°00'17" NAD27

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 128 feet

Land surface altitude: 2,988 feet above NAVD88.

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

Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

| Data Type  | Begin Date                          | End Date   | Count |
|--|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1949-03-11                          | 1992-11-03 | 24    |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

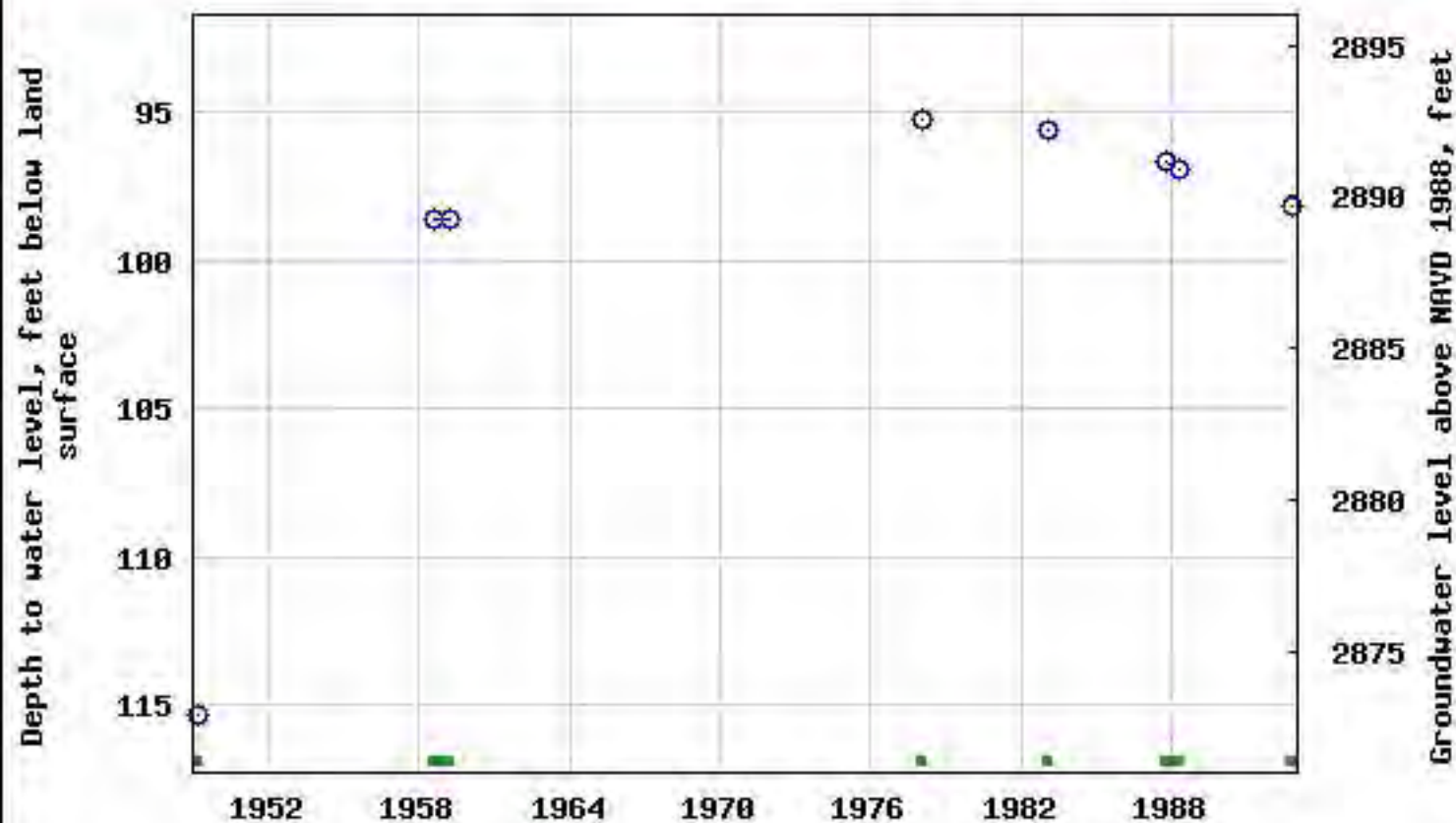
#### OPERATION:

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

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

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## USGS 320532104001701 25S.29E.32.21111





# USGS 320307104005301 26S.28E.13.11214

## Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°03'07", Longitude 104°00'53" NAD27

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 2,858 feet above NAVD88.

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

Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

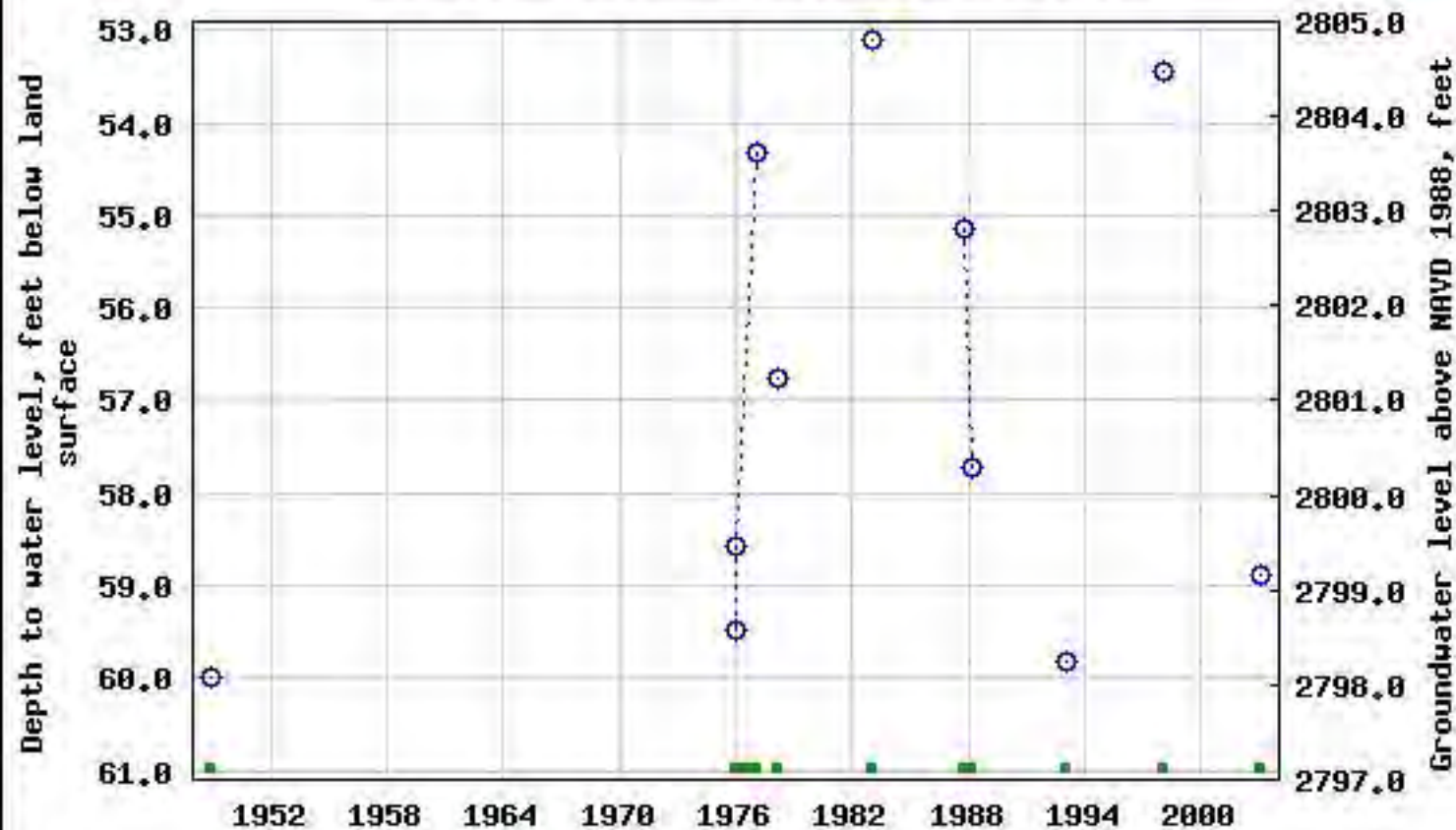
| Data Type  | Begin Date                          | End Date   | Count |
|--|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1948-12-15                          | 2003-01-27 | 33    |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

#### OPERATION:

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

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

## USGS 320307104005301 26S.28E.13.11214



# USGS 320454104015601 26S.28E.02.112111

## Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°04'54", Longitude 104°01'56" NAD27

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 2,913 feet above NAVD88.

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

Well completed in "Castile Formation" (312CSTL) local aquifer

#### AVAILABLE DATA:

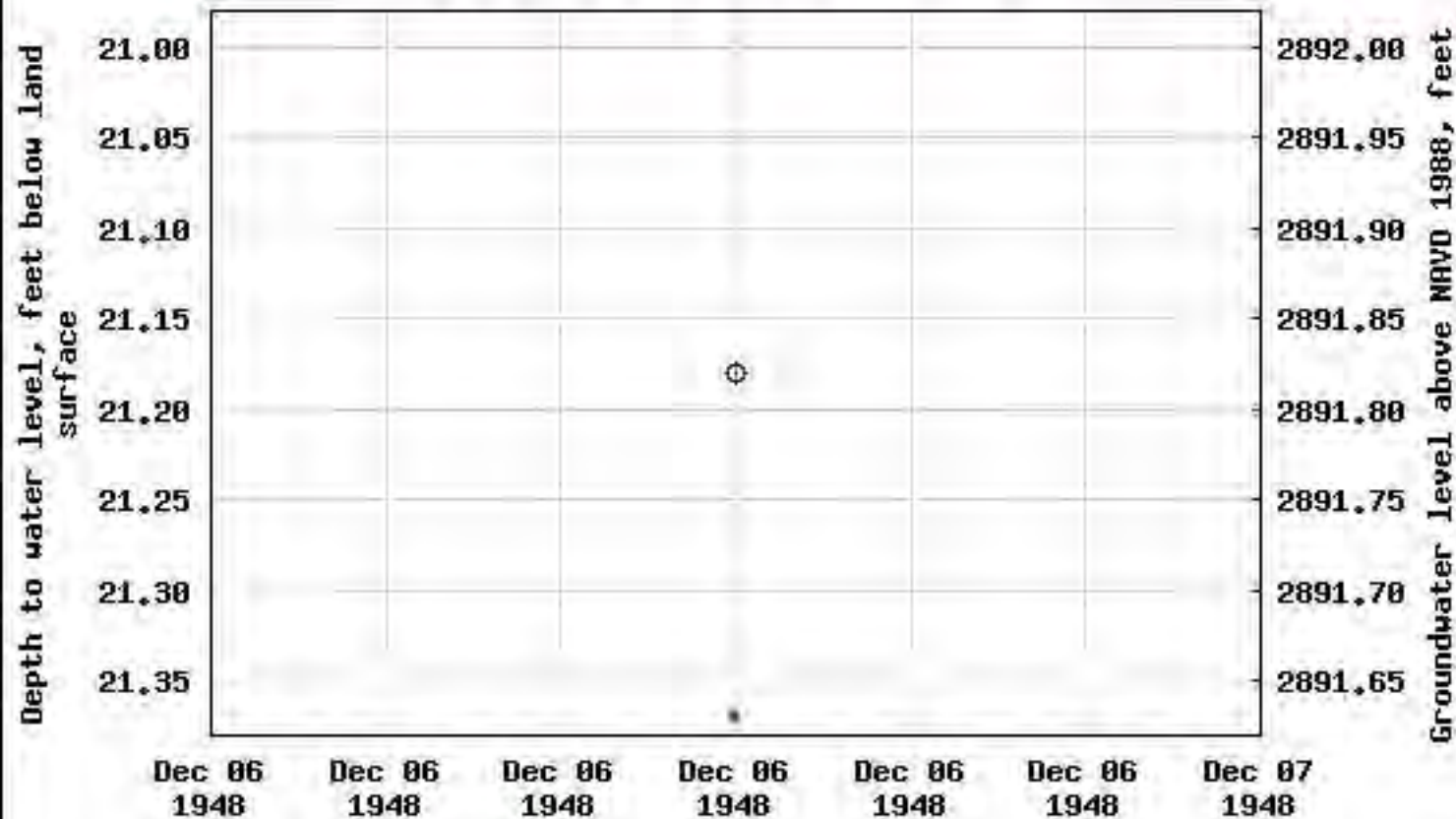
| Data Type  | Begin Date                          | End Date   | Count |
|--|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1948-12-06                          | 1948-12-06 | 3     |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

#### OPERATION:

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

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

USGS 320454104015601 26S.28E.02.112111



# USGS 320719103584601 25S.29E.16.44444

## Available data for this site

### Well Site

#### DESCRIPTION:

Latitude 32°07'19", Longitude 103°58'46" NAD27

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 200 feet

Land surface altitude: 3,042 feet above NAVD88.

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

Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

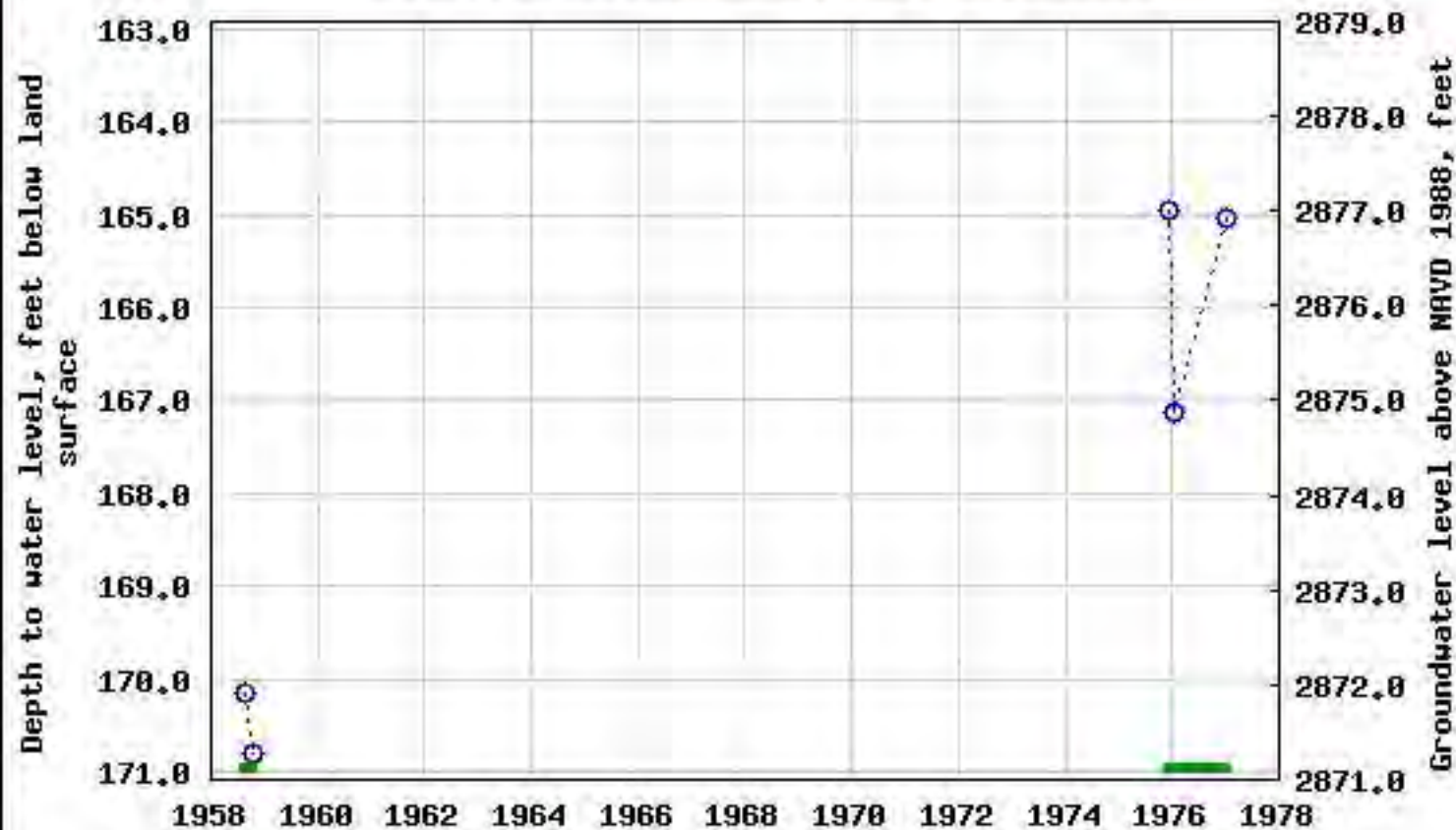
| Data Type  | Begin Date                          | End Date   | Count |
|--|-------------------------------------|------------|-------|
| <a href="#">Field groundwater-level measurements</a> | 1958-08-19                          | 1977-01-14 | 15    |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |            |       |

#### OPERATION:

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

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

## USGS 320719103584601 25S.29E.16.44444



**USGS 320739103584201 25S.29E.15.31134****Available data for this site****Well Site****DESCRIPTION:**

Latitude 32°07'39", Longitude 103°58'42" NAD27

Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 192 feet

Land surface altitude: 3,017 feet above NAVD88.

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

Well completed in "Rustler Formation" (312RSLR) local aquifer

**AVAILABLE DATA:**

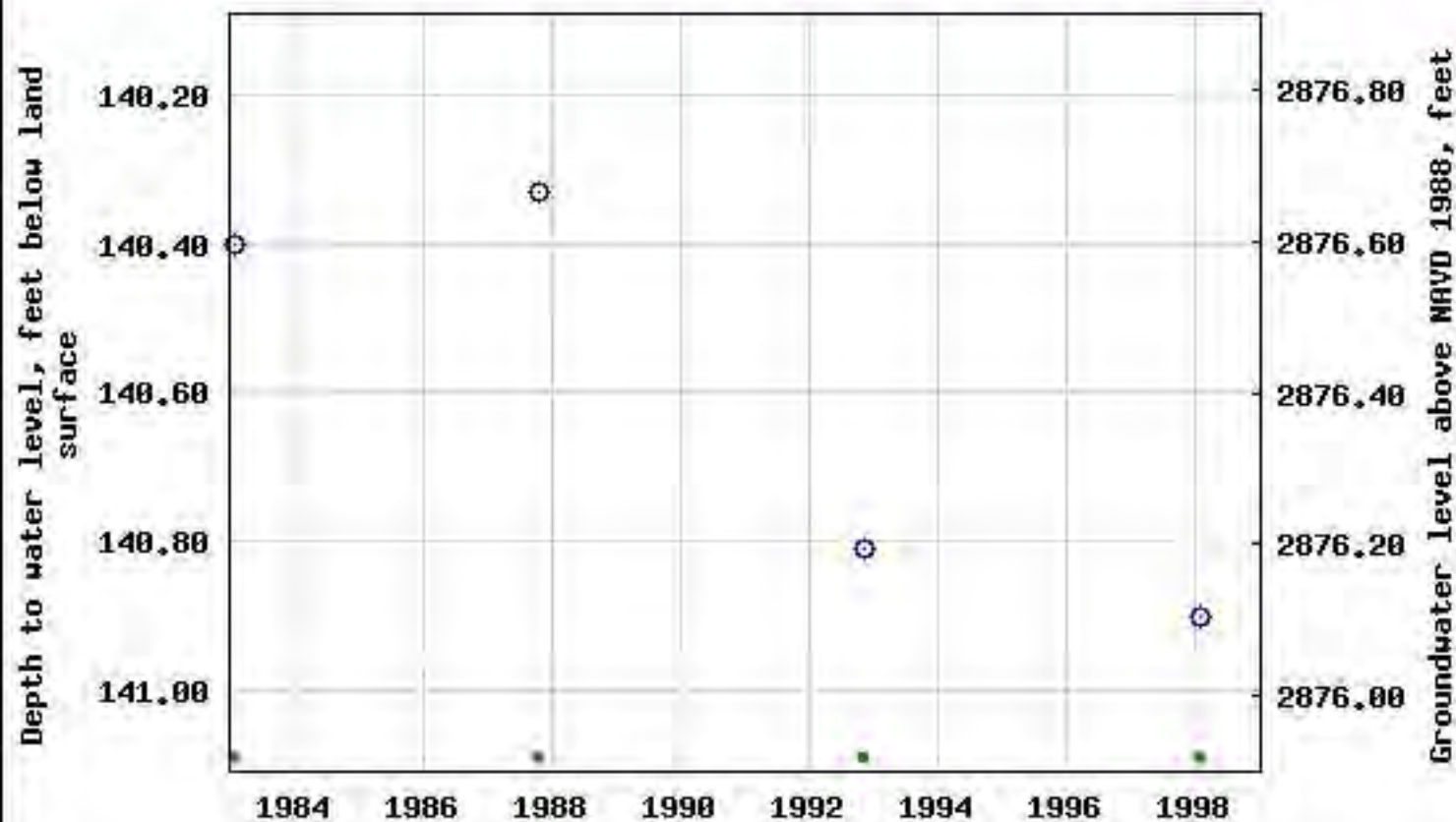
| <b>Data Type</b>                                     | <b>Begin Date</b>                   | <b>End Date</b> | <b>Count</b> |
|--|-------------------------------------|-----------------|--------------|
| <a href="#">Field groundwater-level measurements</a> | 1983-02-01                          | 1998-01-29      | 12           |
| <a href="#">Revisions</a>                            | Unavailable (site:0) (timeseries:0) |                 |              |

**OPERATION:**

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

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

## USGS 320739103584201 25S.29E.15.31134







# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                 |                   |                                    |            |           |            |                       |            |          |          |
|-----------------|-------------------|------------------------------------|------------|-----------|------------|-----------------------|------------|----------|----------|
|                 |                   | (quarters are 1=NW 2=NE 3=SW 4=SE) |            |           |            |                       |            |          |          |
|                 |                   | (quarters are smallest to largest) |            |           |            | (NAD83 UTM in meters) |            |          |          |
| <b>Well Tag</b> | <b>POD Number</b> | <b>Q64</b>                         | <b>Q16</b> | <b>Q4</b> | <b>Sec</b> | <b>Tws</b>            | <b>Rng</b> | <b>X</b> | <b>Y</b> |
| C               | 01337             | 2                                  | 1          | 30        | 25S        | 29E                   | 591926     | 3552642* |          |

---

x

|                          |               |                             |                   |                             |
|--------------------------|---------------|-----------------------------|-------------------|-----------------------------|
| <b>Driller License:</b>  | 24            | <b>Driller Company:</b>     | BRININSTOOL, M.D. |                             |
| <b>Driller Name:</b>     | HOWARD HEMLER |                             |                   |                             |
| <b>Drill Start Date:</b> | 08/25/1966    | <b>Drill Finish Date:</b>   | 08/30/1966        | <b>Plug Date:</b>           |
| <b>Log File Date:</b>    | 01/26/1967    | <b>PCW Rcv Date:</b>        |                   | <b>Source:</b> Shallow      |
| <b>Pump Type:</b>        |               | <b>Pipe Discharge Size:</b> |                   | <b>Estimated Yield:</b>     |
| <b>Casing Size:</b>      | 7.00          | <b>Depth Well:</b>          | 180 feet          | <b>Depth Water:</b> 30 feet |

---

x

|                                       |            |               |                               |
|---------------------------------------|------------|---------------|-------------------------------|
| <b>Water Bearing Stratifications:</b> | <b>Top</b> | <b>Bottom</b> | <b>Description</b>            |
|                                       | 73         | 93            | Sandstone/Gravel/Conglomerate |
|                                       | 163        | 172           | Sandstone/Gravel/Conglomerate |

---

x

|                             |            |               |
|-----------------------------|------------|---------------|
| <b>Casing Perforations:</b> | <b>Top</b> | <b>Bottom</b> |
|                             | 163        | 172           |

---

x

\*UTM location was derived from PLSS - see Help


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POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer

## Point of Diversion Summary

|                                |              | (quarters are 1=NW 2=NE 3=SW 4=SE)<br>(quarters are smallest to largest) |     |                      |        |                               |     | (NAD83 UTM in meters)   |   |
|--------------------------------|--------------|--|-----|----------------------|--------|-------------------------------|-----|-------------------------|---|
| Well Tag                       | POD Number   | Q64  | Q16 | Q4                   | Sec    | Tws                           | Rng | X                       | Y   |
|                                | C 03507 POD1 | 1  | 3   | 3                    | 05     | 26S                           | 29E | 593064                  | 3548313  |
| x                              |              |  |     |                      |        |                               |     |                         |   |
| Driller License:               |              | 1058   |     | Driller Company:     |        | KEY'S DRILLING & PUMP SERVICE |     |                         |   |
| Driller Name:                  |              | KEY, CLINTON   |     |                      |        |                               |     |                         |   |
| Drill Start Date:              |              | 08/26/2011   |     | Drill Finish Date:   |        | 08/26/2011                    |     | Plug Date:              |   |
| Log File Date:                 |              | 09/12/2011   |     | PCW Rcv Date:        |        |                               |     | Source: Shallow         |   |
| Pump Type:                     |              | SUBMER   |     | Pipe Discharge Size: |        |                               |     | Estimated Yield: 35 GPM |   |
| Casing Size:                   |              | 6.00   |     | Depth Well:          |        | 140 feet                      |     | Depth Water: 78 feet    |   |
| x                              |              |  |     |                      |        |                               |     |                         |   |
| Water Bearing Stratifications: |              |  |     | Top                  | Bottom | Description                   |     |                         |   |
|                                |              |  |     | 78                   | 79     | Shale/Mudstone/Siltstone      |     |                         |   |
|                                |              |  |     | 105                  | 106    | Sandstone/Gravel/Conglomerate |     |                         |   |
| x                              |              |  |     |                      |        |                               |     |                         |   |
| Casing Perforations:           |              |  |     | Top                  | Bottom |                               |     |                         |   |
|                                |              |  |     | 75                   | 112    |                               |     |                         |   |
| x                              |              |  |     |                      |        |                               |     |                         |   |

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POINT OF DIVERSION SUMMARY



## New Mexico Office of the State Engineer

# Point of Diversion Summary

|                 |                   |                                    |            |           |            |                       |            |          |          |
|-----------------|-------------------|------------------------------------|------------|-----------|------------|-----------------------|------------|----------|----------|
|                 |                   | (quarters are 1=NW 2=NE 3=SW 4=SE) |            |           |            |                       |            |          |          |
|                 |                   | (quarters are smallest to largest) |            |           |            | (NAD83 UTM in meters) |            |          |          |
| <b>Well Tag</b> | <b>POD Number</b> | <b>Q64</b>                         | <b>Q16</b> | <b>Q4</b> | <b>Sec</b> | <b>Tws</b>            | <b>Rng</b> | <b>X</b> | <b>Y</b> |
|                 | C 03508 POD1      | 1                                  | 3          | 3         | 05         | 26S                   | 29E        | 593063   | 3548361  |

---

x

|                          |              |                             |                               |
|--------------------------|--------------|-----------------------------|-------------------------------|
| <b>Driller License:</b>  | 1058         | <b>Driller Company:</b>     | KEY'S DRILLING & PUMP SERVICE |
| <b>Driller Name:</b>     | KEY, CLINTON |                             |                               |
| <b>Drill Start Date:</b> | 08/24/2011   | <b>Drill Finish Date:</b>   | 08/24/2011                    |
| <b>Log File Date:</b>    | 09/12/2011   | <b>PCW Rcv Date:</b>        |                               |
| <b>Pump Type:</b>        | SUBMER       | <b>Pipe Discharge Size:</b> |                               |
| <b>Casing Size:</b>      | 6.00         | <b>Depth Well:</b>          | 140 feet                      |
|                          |              | <b>Plug Date:</b>           |                               |
|                          |              | <b>Source:</b>              | Shallow                       |
|                          |              | <b>Estimated Yield:</b>     | 40 GPM                        |
|                          |              | <b>Depth Water:</b>         | 75 feet                       |

---

x

|                                       |            |               |                          |
|---------------------------------------|------------|---------------|--------------------------|
| <b>Water Bearing Stratifications:</b> | <b>Top</b> | <b>Bottom</b> | <b>Description</b>       |
|                                       | 75         | 76            | Shale/Mudstone/Siltstone |

---

x

|                             |            |               |  |
|-----------------------------|------------|---------------|--|
| <b>Casing Perforations:</b> | <b>Top</b> | <b>Bottom</b> |  |
|                             | 65         | 105           |  |


---


x

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

POINT OF DIVERSION SUMMARY

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

|  <b>WSP USA</b><br>508 West Stevens Street<br>Carlsbad, New Mexico 88220 |                |             |          |                                   |                       |                     |                  | BH or PH Name:                        |  | Date:     |  |
|---|----------------|-------------|----------|-----------------------------------|-----------------------|---------------------|------------------|---------------------------------------|--|-----------|--|
|   |                |             |          |                                   |                       |                     |                  | PH01                                  |  | 4/29/2021 |  |
|   |                |             |          |                                   |                       |                     |                  | Site Name: Thriller                   |  |           |  |
|   |                |             |          |                                   |                       |                     |                  | RP or Incident Number:                |  |           |  |
| LTE Job Number: TE012921051   |                |             |          |                                   |                       |                     |                  |                                       |  |           |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |                                   |                       |                     |                  |                                       |  |           |  |
| Lat/Long:<br>32.092560,-103.999463  |                |             |          | Field Screening:<br>Chloride, PID |                       | Hole Diameter:<br>- |                  | Method: Backhoe<br>Total Depth:<br>2' |  |           |  |
| Comments:<br>Field screening value includes 60% error factor. TD @ 2'   |                |             |          |                                   |                       |                     |                  |                                       |  |           |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample #                          | Sample Depth (ft bgs) | Depth (ft bgs)      | USCS/Rock Symbol | Lithology/Remarks                     |  |           |  |
|   |                |             |          |                                   |                       | 0                   |                  | 0-2'                                  | Caliche w/ sand, well sorted, light brown, tan, no odor, no stain, trace silt, m-f grained |           |  |
| D   | <186           | 0.0         | N        | PH01                              | 1'                    | 1                   | CCHE             |                                       |  |           |  |
| D   | <186           | 0.0         | N        | PH01A                             | 2'                    | 2                   |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 3                   |                  | TD @ 2'                               |  |           |  |
|   |                |             |          |                                   |                       | 4                   |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 5                   |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 6                   |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 7                   |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 8                   |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 9                   |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 10                  |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 11                  |                  |                                       |  |           |  |
|   |                |             |          |                                   |                       | 12                  |                  |                                       |  |           |  |

|  <b>WSP USA</b><br>508 West Stevens Street<br>Carlsbad, New Mexico 88220 |                |             |          |                                   |                       |                     |                  | BH or PH Name:         |  | Date:     |  |
|---|----------------|-------------|----------|-----------------------------------|-----------------------|---------------------|------------------|------------------------|--|-----------|--|
|   |                |             |          |                                   |                       |                     |                  | PH02                   |  | 4/29/2021 |  |
|   |                |             |          |                                   |                       |                     |                  | Site Name: Thriller    |  |           |  |
|   |                |             |          |                                   |                       |                     |                  | RP or Incident Number: |  |           |  |
| LTE Job Number: TE012921051   |                |             |          |                                   |                       |                     |                  |                        |  |           |  |
| <b>LITHOLOGIC / SOIL SAMPLING LOG</b>   |                |             |          |                                   |                       |                     |                  | Logged By SL           | Method: Backhoe  |           |  |
| Lat/Long:<br>32.092577,-103.999407  |                |             |          | Field Screening:<br>Chloride, PID |                       | Hole Diameter:<br>- |                  | Total Depth:<br>2'     |  |           |  |
| Comments:<br>Field screening value includes 60% error factor. TD @ 2'   |                |             |          |                                   |                       |                     |                  |                        |  |           |  |
| Moisture Content  | Chloride (ppm) | Vapor (ppm) | Staining | Sample #                          | Sample Depth (ft bgs) | Depth (ft bgs)      | USCS/Rock Symbol | Lithology/Remarks      |  |           |  |
|   |                |             |          |                                   |                       | 0                   | CCHE             | 0-1'                   | Caliche w/ sand, well sorted, light brown, tan, no odor, no stain, trace silt, m-f grained |           |  |
| D   | <186           | 0.0         | N        | PH01                              | 1'                    | 1                   |                  |                        |  |           |  |
|   |                |             |          |                                   |                       |                     | SP-SM            | 1'-2'                  | Sand w/ caliche, brown, well sorted, m-f grained, no odor no stain                         |           |  |
| D   | 377            | 0.0         | N        | PH01A                             | 2'                    | 2                   |                  |                        |  |           |  |
| TD @ 2'   |                |             |          |                                   |                       |                     |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 3                   |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 4                   |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 5                   |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 6                   |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 7                   |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 8                   |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 9                   |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 10                  |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 11                  |                  |                        |  |           |  |
|   |                |             |          |                                   |                       | 12                  |                  |                        |  |           |  |




ATTACHMENT 3: PHOTOGRAPHIC LOG



**PHOTOGRAPHIC LOG**

|                         |   |                    |
|-------------------------|---|--------------------|
| <b>XTO Energy, Inc.</b> | <b>Thriller Battery<br/>Eddy County, NM</b> | <b>TE012921051</b> |
|-------------------------|---|--------------------|

| <b>Photo No.</b>                  | <b>Date</b>    |   |
|-----------------------------------|----------------|---|
| 1                                 | April 29, 2021 |   |
| Western view of PH02 delineation. |                |  |

| <b>Photo No.</b>                   | <b>Date</b>    |  |
|------------------------------------|----------------|--|
| 2                                  | April 29, 2021 |  |
| Northern view of PH03 delineation. |                |  |

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-602-1  
Laboratory Sample Delivery Group: TE012921051  
Client Project/Site: Thriller

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

Attn: Dan Moir

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

Authorized for release by:  
5/4/2021 3:51:49 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: Thriller

Laboratory Job ID: 890-602-1  
SDG: TE012921051

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                      |
|-----------|--|
| *+        | LCS and/or LCSD is outside acceptance limits, high biased. |
| U         | Indicates the analyte was analyzed for but not detected.   |

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

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### Job ID: 890-602-1

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### Laboratory: Eurofins Xenco, Carlsbad

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#### Narrative

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#### Job Narrative 890-602-1

##### Receipt

The samples were received on 4/29/2021 4:39 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 2.0°C

##### Receipt Exceptions

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-602-1) and PH01A (890-602-2).

##### GC VOA

Method 8021B: Internal standard responses were outside of acceptance limits for the following samples: PH01 (890-602-1) and PH01A (890-602-2). The sample(s) shows evidence of matrix interference.

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

##### GC Semi VOA

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-2571 and analytical batch 880-2589 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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: Thriller

Job ID: 890-602-1  
SDG: TE012921051

Client Sample ID: PH01

Lab Sample ID: 890-602-1

Date Collected: 04/29/21 11:00

Matrix: Solid

Date Received: 04/29/21 16:39

Sample Depth: - 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:19 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:19 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:19 | 1       |
| m-Xylene & p-Xylene | <0.00399 | U         | 0.00399 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:19 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:19 | 1       |
| Xylenes, Total      | <0.00399 | U         | 0.00399 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:19 | 1       |
| Total BTEX          | <0.00399 | U         | 0.00399 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:19 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 115       |           | 70 - 130 | 04/30/21 10:10 | 05/01/21 20:19 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103       |           | 70 - 130 | 04/30/21 10:10 | 05/01/21 20:19 | 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 |   | 04/30/21 16:30 | 05/01/21 14:51 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U **      | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 14:51 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 14:51 | 1       |
| Total TPH                            | <49.9  | U         | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 14:51 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 105       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 14:51 | 1       |
| o-Terphenyl    | 111       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 14:51 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 76.4   |           | 4.98 | mg/Kg |   |          | 05/03/21 18:14 | 1       |

Client Sample ID: PH01A

Lab Sample ID: 890-602-2

Date Collected: 04/29/21 11:10

Matrix: Solid

Date Received: 04/29/21 16:39

Sample Depth: - 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:40 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:40 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:40 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:40 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:40 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:40 | 1       |
| Total BTEX          | <0.00398 | U         | 0.00398 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 20:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102       |           | 70 - 130 | 04/30/21 10:10 | 05/01/21 20:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 86        |           | 70 - 130 | 04/30/21 10:10 | 05/01/21 20:40 | 1       |

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

Client Sample ID: PH01A

Lab Sample ID: 890-602-2

Date Collected: 04/29/21 11:10

Matrix: Solid

Date Received: 04/29/21 16:39

Sample Depth: - 2

## 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 |   | 04/30/21 16:30 | 05/01/21 15:14 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U *+      | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:14 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:14 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:14 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 107       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 15:14 | 1       |
| o-Terphenyl    | 117       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 15:14 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 394    | F1        | 5.00 | mg/Kg |   |          | 05/03/21 18:20 | 1       |



## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

## 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) |
| 890-602-1                         | PH01                   | 115  | 103               |
| 890-602-2                         | PH01A                  | 102  | 86                |
| LCS 880-2532/1-A                  | Lab Control Sample     | 108  | 105               |
| LCSD 880-2532/2-A                 | Lab Control Sample Dup | 106  | 105               |
| MB 880-2532/5-A                   | Method Blank           | 100  | 98                |
| MB 880-2540/5-A                   | Method Blank           | 102  | 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) |
| 890-602-1               | PH01                   | 105  | 111               |
| 890-602-2               | PH01A                  | 107  | 117               |
| LCS 880-2571/2-A        | Lab Control Sample     | 107  | 108               |
| LCSD 880-2571/3-A       | Lab Control Sample Dup | 108  | 105               |
| MB 880-2571/1-A         | Method Blank           | 99   | 105               |
| <b>Surrogate Legend</b> |                        |  |                   |
| 1CO = 1-Chlorooctane    |                        |  |                   |
| OTPH = o-Terphenyl      |                        |  |                   |

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

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

Lab Sample ID: MB 880-2532/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2532

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100          |              | 70 - 130 | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 04/30/21 10:10 | 05/01/21 12:33 | 1       |

Lab Sample ID: LCS 880-2532/1-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2532

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1002     |               | mg/Kg |   | 100  | 70 - 130     |
| Toluene             | 0.100       | 0.1017     |               | mg/Kg |   | 102  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1070     |               | mg/Kg |   | 107  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2130     |               | mg/Kg |   | 106  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1036     |               | mg/Kg |   | 104  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 108           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2532/2-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2532

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.1002      |                | mg/Kg |   | 100  | 70 - 130     | 0   | 35        |
| Toluene             | 0.100       | 0.1017      |                | mg/Kg |   | 102  | 70 - 130     | 0   | 35        |
| Ethylbenzene        | 0.100       | 0.1038      |                | mg/Kg |   | 104  | 70 - 130     | 3   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2092      |                | mg/Kg |   | 105  | 70 - 130     | 2   | 35        |
| o-Xylene            | 0.100       | 0.1025      |                | mg/Kg |   | 102  | 70 - 130     | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 106            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105            |                | 70 - 130 |

Lab Sample ID: MB 880-2540/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2540

| Analyte | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

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

Lab Sample ID: MB 880-2540/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2540

| Analyte             | MB<br>Result | MB<br>Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|--------------|-----------------|---------|-------|---|----------------|----------------|---------|
| Toluene             | <0.00200     | U               | 0.00200 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| Ethylbenzene        | <0.00200     | U               | 0.00200 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| m-Xylene & p-Xylene | <0.00400     | U               | 0.00400 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| o-Xylene            | <0.00200     | U               | 0.00200 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| Xylenes, Total      | <0.00400     | U               | 0.00400 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| Total BTEX          | <0.00400     | U               | 0.00400 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |

| Surrogate                   | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102             |                 | 70 - 130 | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100             |                 | 70 - 130 | 04/30/21 13:50 | 05/01/21 00:58 | 1       |

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

Lab Sample ID: MB 880-2571/1-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2571

| Analyte                              | MB<br>Result | MB<br>Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------------|-----------------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0        | U               | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 11:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0        | U               | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 11:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0        | U               | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 11:38 | 1       |
| Total TPH                            | <50.0        | U               | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 11:38 | 1       |

| Surrogate      | MB<br>%Recovery | MB<br>Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------------|-----------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99              |                 | 70 - 130 | 04/30/21 16:30 | 05/01/21 11:38 | 1       |
| o-Terphenyl    | 105             |                 | 70 - 130 | 04/30/21 16:30 | 05/01/21 11:38 | 1       |

Lab Sample ID: LCS 880-2571/2-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2571

| Analyte                              | Spike<br>Added | LCS<br>Result | LCS<br>Qualifier | Unit  | D | %Rec | %Rec.<br>Limits |
|--------------------------------------|----------------|---------------|------------------|-------|---|------|-----------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1159          |                  | mg/Kg |   | 116  | 70 - 130        |
| Diesel Range Organics (Over C10-C28) | 1000           | 1112          |                  | mg/Kg |   | 111  | 70 - 130        |

| Surrogate      | LCS<br>%Recovery | LCS<br>Qualifier | Limits   |
|----------------|------------------|------------------|----------|
| 1-Chlorooctane | 107              |                  | 70 - 130 |
| o-Terphenyl    | 108              |                  | 70 - 130 |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

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

Lab Sample ID: LCSD 880-2571/3-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2571

| Analyte                              | Spike Added    | LCSD Result    | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|----------------|----------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000           | 1057           |                | mg/Kg |   | 106  | 70 - 130     | 9   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000           | 1325           | *+             | mg/Kg |   | 132  | 70 - 130     | 17  | 20        |
| Surrogate                            | LCSD %Recovery | LCSD Qualifier | Limits         |       |   |      |              |     |           |
| 1-Chlorooctane                       | 108            |                | 70 - 130       |       |   |      |              |     |           |
| o-Terphenyl                          | 105            |                | 70 - 130       |       |   |      |              |     |           |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2556/1-A

Matrix: Solid

Analysis Batch: 2608

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 05/03/21 15:17 | 1       |

Lab Sample ID: LCS 880-2556/2-A

Matrix: Solid

Analysis Batch: 2608

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 263.2      |               | mg/Kg |   | 105  | 90 - 110     |     |           |

Lab Sample ID: LCSD 880-2556/3-A

Matrix: Solid

Analysis Batch: 2608

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 258.2       |                | mg/Kg |   | 103  | 90 - 110     | 2   | 20        |

Lab Sample ID: 890-602-2 MS

Matrix: Solid

Analysis Batch: 2608

Client Sample ID: PH01A

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|-----------|--------------|-------|---|------|--------------|-----|-----------|
| Chloride | 394           | F1               | 250         | 602.0     | F1           | mg/Kg |   | 83   | 90 - 110     |     |           |

Lab Sample ID: 890-602-2 MSD

Matrix: Solid

Analysis Batch: 2608

Client Sample ID: PH01A

Prep Type: Soluble

| Analyte  | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|---------------|------------------|-------------|------------|---------------|-------|---|------|--------------|-----|-----------|
| Chloride | 394           | F1               | 250         | 607.8      | F1            | mg/Kg |   | 86   | 90 - 110     | 1   | 20        |

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

## GC VOA

## Analysis Batch: 2530

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-602-1         | PH01                   | Total/NA  | Solid  | 8021B  | 2532       |
| 890-602-2         | PH01A                  | Total/NA  | Solid  | 8021B  | 2532       |
| MB 880-2532/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2532       |
| MB 880-2540/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2540       |
| LCS 880-2532/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 2532       |
| LCSD 880-2532/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 2532       |

## Prep Batch: 2532

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-602-1         | PH01                   | Total/NA  | Solid  | 5035   |            |
| 890-602-2         | PH01A                  | Total/NA  | Solid  | 5035   |            |
| MB 880-2532/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-2532/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-2532/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 2540

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-2540/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## GC Semi VOA

## Prep Batch: 2571

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-602-1         | PH01                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-602-2         | PH01A                  | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-2571/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-2571/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-2571/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 2589

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-602-1         | PH01                   | Total/NA  | Solid  | 8015B NM | 2571       |
| 890-602-2         | PH01A                  | Total/NA  | Solid  | 8015B NM | 2571       |
| MB 880-2571/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 2571       |
| LCS 880-2571/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 2571       |
| LCSD 880-2571/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 2571       |

## HPLC/IC

## Leach Batch: 2556

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-602-1         | PH01                   | Soluble   | Solid  | DI Leach |            |
| 890-602-2         | PH01A                  | Soluble   | Solid  | DI Leach |            |
| MB 880-2556/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-2556/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-2556/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |
| 890-602-2 MS      | PH01A                  | Soluble   | Solid  | DI Leach |            |
| 890-602-2 MSD     | PH01A                  | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 2608

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|---------------|------------------|-----------|--------|--------|------------|
| 890-602-1     | PH01             | Soluble   | Solid  | 300.0  | 2556       |

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QC Association Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

HPLC/IC (Continued)

Analysis Batch: 2608 (Continued)

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-602-2         | PH01A                  | Soluble   | Solid  | 300.0  | 2556       |
| MB 880-2556/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 2556       |
| LCS 880-2556/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 2556       |
| LCSD 880-2556/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 2556       |
| 890-602-2 MS      | PH01A                  | Soluble   | Solid  | 300.0  | 2556       |
| 890-602-2 MSD     | PH01A                  | Soluble   | Solid  | 300.0  | 2556       |

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

Client Sample ID: PH01

Lab Sample ID: 890-602-1

Date Collected: 04/29/21 11:00

Matrix: Solid

Date Received: 04/29/21 16:39

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2532         | 04/30/21 10:10       | MR      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2530         | 05/01/21 20:19       | MR      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2571         | 04/30/21 16:30       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2589         | 05/01/21 14:51       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2556         | 04/30/21 14:42       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 1               | 2608         | 05/03/21 18:14       | CH      | XM  |

Client Sample ID: PH01A

Lab Sample ID: 890-602-2

Date Collected: 04/29/21 11:10

Matrix: Solid

Date Received: 04/29/21 16:39

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2532         | 04/30/21 10:10       | MR      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2530         | 05/01/21 20:40       | MR      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2571         | 04/30/21 16:30       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2589         | 05/01/21 15:14       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2556         | 04/30/21 14:42       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 1               | 2608         | 05/03/21 18:20       | CH      | XM  |

## Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

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   | T104704400-20-21      | 06-30-21        |

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    |
|-----------------|-------------|--------|------------|
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| 8021B           | 5035        | Solid  | Total BTEX |



## Method Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XM         |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XM         |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XM         |
| 5035        | Closed System Purge and Trap       | SW846    | XM         |
| 8015NM Prep | Microextraction                    | SW846    | XM         |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XM         |

**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.

**Laboratory References:**

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

Sample Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-602-1  
SDG: TE012921051

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-602-1     | PH01             | Solid  | 04/29/21 11:00 | 04/29/21 16:39 | - 1   |
| 890-602-2     | PH01A            | Solid  | 04/29/21 11:10 | 04/29/21 16:39 | - 2   |

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



## Chain of Custody

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

Houston, TX (281) 240-4200 Dallas, TX (214) 902-0300 San Antonio, TX (210) 509-3334  
 Midland, TX (432-704-5440) EL Paso, TX (915)585-3443 Lubbock, TX (806)794-1296  
 Hobbs, NM (575-392-7550) Phoenix, AZ (480-355-0900) Atlanta, GA (770-449-8800) Tampa, FL (813-620-2000)

www.xenco.com

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

Project Manager: Dan Moir

Company Name: WSP

Address: 3300 North A Street

City, State ZIP: Midland, TX 79705

Phone: (303) 887-2946

Bill to: (if different)

Company Name: XTO Energy

Address: 3104 East Green Street

City, State ZIP: Carlsbad, NM 88220

Email: Spencer.Lo@wsp.com, Kalei.Jennings@wsp.com, Dan.Moir@wsp.com

Work Order Comments

Program: ☐ PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund

State of Project:

Reporting Level: ☐ Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IVDeliverables: EDD ☐ ADAPT ☐ Other:

## ANALYSIS REQUEST

Work Order Notes

Project Name: Thriller Turn Around  
 Project Number: TE012921051 Routine ☒ Rush: ☐

P.O. Number:

Sampler's Name: Spencer Lo Due Date:

SAMPLE RECEIPT Temp Blank: ☒ Yes ☐ No Wet Ice: ☒ Yes ☐ No

Temperature (°C): 2.2 Thermometer ID

Received Intact: ☒ Yes ☐ No Correction Factor: T-NM-002Cooler Custody Seals: Yes ☒ No N/A Total Containers: 260Sample Custody Seals: Yes ☒ No N/A

Sample Identification Matrix Date Sampled Time Sampled Depth

PH01 S 4/29/2021 1100 1'

PH01A S 4/29/2021 1110 2'

Number of Containers

TPH (EPA 8015)

BTEX (EPA 0=8021)

Chloride (EPA 300.0)

ANALYSIS REQUEST

890-602 Chain of Custody

TAT starts the day received by the lab. If received by 4:30pm

Sample Comments

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 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, license and ownership 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

Eurofins Xenco Carlsbad

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

## Chain of Custody Record



## Environment Testing

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-602-1

SDG Number: TE012921051

Login Number: 602

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: 890-602-1

SDG Number: TE012921051

Login Number: 602

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/30/21 02:14 PM

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





## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-603-1  
Laboratory Sample Delivery Group: TE012921051  
Client Project/Site: Thriller

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

Attn: Dan Moir

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

Authorized for release by:  
5/4/2021 3:53:23 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?



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

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

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

Client: WSP USA Inc.  
Project/Site: Thriller

Laboratory Job ID: 890-603-1  
SDG: TE012921051

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

## Qualifiers

## GC VOA

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

## GC Semi VOA

| Qualifier | Qualifier Description                                      |
|-----------|--|
| *+        | LCS and/or LCSD is outside acceptance 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.                                 |
|----------------|---|
| □              | 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: Thriller

Job ID: 890-603-1  
SDG: TE012921051

**Job ID: 890-603-1****Laboratory: Eurofins Xenco, Carlsbad****Narrative****Job Narrative  
890-603-1****Receipt**

The samples were received on 4/29/2021 4:13 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 2.0°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**

Method 8015MOD\_NM: The laboratory control sample (LCS) associated with preparation batch 880-2571 and analytical batch 880-2589 was outside acceptance criteria. Re-extraction and/or re-analysis could not be performed; therefore, the data have been reported. The batch matrix spike/matrix spike duplicate (MS/MSD) was within acceptance limits and may be used to evaluate matrix performance.

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: Thriller

Job ID: 890-603-1  
SDG: TE012921051

Client Sample ID: PH02

Lab Sample ID: 890-603-1

Date Collected: 04/29/21 11:20

Matrix: Solid

Date Received: 04/29/21 16:13

Sample Depth: - 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 21:00 | 1       |
| Toluene             | <0.00200 | U         | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 21:00 | 1       |
| Ethylbenzene        | <0.00200 | U         | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 21:00 | 1       |
| m-Xylene & p-Xylene | <0.00400 | U         | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 21:00 | 1       |
| o-Xylene            | <0.00200 | U         | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 21:00 | 1       |
| Xylenes, Total      | <0.00400 | U         | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 21:00 | 1       |
| Total BTEX          | <0.00400 | U         | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 21:00 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 04/30/21 10:10 | 05/01/21 21:00 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 | 04/30/21 10:10 | 05/01/21 21:00 | 1       |

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

| Analyte                              | Result | Qualifier | RL   | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|--------------------------------------|--------|-----------|------|-------|---|----------------|----------------|---------|
| Gasoline Range Organics (GRO)-C6-C10 | <50.0  | U         | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:35 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U **      | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:35 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:35 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:35 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 100       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 15:35 | 1       |
| o-Terphenyl    | 104       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 15:35 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 91.6   |           | 4.98 | mg/Kg |   |          | 05/03/21 18:36 | 1       |

Client Sample ID: PH02A

Lab Sample ID: 890-603-2

Date Collected: 04/29/21 11:30

Matrix: Solid

Date Received: 04/29/21 16:13

Sample Depth: - 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:20 | 1       |
| Toluene             | <0.00202 | U         | 0.00202 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:20 | 1       |
| Ethylbenzene        | <0.00202 | U         | 0.00202 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:20 | 1       |
| m-Xylene & p-Xylene | <0.00403 | U         | 0.00403 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:20 | 1       |
| o-Xylene            | <0.00202 | U         | 0.00202 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:20 | 1       |
| Xylenes, Total      | <0.00403 | U         | 0.00403 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:20 | 1       |
| Total BTEX          | <0.00403 | U         | 0.00403 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:20 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 105       |           | 70 - 130 | 04/30/21 13:50 | 05/01/21 06:20 | 1       |
| 1,4-Difluorobenzene (Surr)  | 107       |           | 70 - 130 | 04/30/21 13:50 | 05/01/21 06:20 | 1       |

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

## Client Sample ID: PH02A

Lab Sample ID: 890-603-2

Date Collected: 04/29/21 11:30

Matrix: Solid

Date Received: 04/29/21 16:13

Sample Depth: - 2

## 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 |   | 04/30/21 16:30 | 05/01/21 15:56 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0  | U **      | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:56 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0  | U         | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:56 | 1       |
| Total TPH                            | <50.0  | U         | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 15:56 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 106       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 15:56 | 1       |
| o-Terphenyl    | 118       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 15:56 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 17.7   |           | 4.97 | mg/Kg |   |          | 05/03/21 17:10 | 1       |

## Client Sample ID: PH03

Lab Sample ID: 890-603-3

Date Collected: 04/29/21 11:40

Matrix: Solid

Date Received: 04/29/21 16:13

Sample Depth: - 1

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:40 | 1       |
| Toluene             | <0.00201 | U         | 0.00201 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:40 | 1       |
| Ethylbenzene        | <0.00201 | U         | 0.00201 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:40 | 1       |
| m-Xylene & p-Xylene | <0.00402 | U         | 0.00402 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:40 | 1       |
| o-Xylene            | <0.00201 | U         | 0.00201 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:40 | 1       |
| Xylenes, Total      | <0.00402 | U         | 0.00402 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:40 | 1       |
| Total BTEX          | <0.00402 | U         | 0.00402 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 06:40 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 108       |           | 70 - 130 | 04/30/21 13:50 | 05/01/21 06:40 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 | 04/30/21 13:50 | 05/01/21 06:40 | 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 |   | 04/30/21 16:30 | 05/01/21 16:18 | 1       |
| Diesel Range Organics (Over C10-C28) | <49.9  | U **      | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 16:18 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 16:18 | 1       |
| Total TPH                            | <49.9  | U         | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 16:18 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 113       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 16:18 | 1       |
| o-Terphenyl    | 120       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 16:18 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 684    |           | 50.4 | mg/Kg |   |          | 05/03/21 17:26 | 10      |

Eurofins Xenco, Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

Client Sample ID: PH03A

Lab Sample ID: 890-603-4

Date Collected: 04/29/21 11:50

Matrix: Solid

Date Received: 04/29/21 16:13

Sample Depth: - 2

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

| Analyte             | Result   | Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|----------|-----------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 07:01 | 1       |
| Toluene             | <0.00199 | U         | 0.00199 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 07:01 | 1       |
| Ethylbenzene        | <0.00199 | U         | 0.00199 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 07:01 | 1       |
| m-Xylene & p-Xylene | <0.00398 | U         | 0.00398 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 07:01 | 1       |
| o-Xylene            | <0.00199 | U         | 0.00199 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 07:01 | 1       |
| Xylenes, Total      | <0.00398 | U         | 0.00398 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 07:01 | 1       |
| Total BTEX          | <0.00398 | U         | 0.00398 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 07:01 | 1       |

| Surrogate                   | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|-----------|-----------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 106       |           | 70 - 130 | 04/30/21 15:09 | 05/01/21 07:01 | 1       |
| 1,4-Difluorobenzene (Surr)  | 106       |           | 70 - 130 | 04/30/21 15:09 | 05/01/21 07:01 | 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 |   | 04/30/21 16:30 | 05/01/21 16:39 | 1       |
| Diesel Range Organics (Over C10-C28) | 71.2   | *+        | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 16:39 | 1       |
| Oil Range Organics (Over C28-C36)    | <49.9  | U         | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 16:39 | 1       |
| Total TPH                            | 71.2   |           | 49.9 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 16:39 | 1       |

| Surrogate      | %Recovery | Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|-----------|-----------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 104       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 16:39 | 1       |
| o-Terphenyl    | 111       |           | 70 - 130 | 04/30/21 16:30 | 05/01/21 16:39 | 1       |

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

| Analyte  | Result | Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|--------|-----------|------|-------|---|----------|----------------|---------|
| Chloride | 1650   |           | 25.1 | mg/Kg |   |          | 05/03/21 17:31 | 5       |

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

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

Matrix: Solid

Prep Type: Total/NA

|                                   |                        | Percent Surrogate Recovery (Acceptance Limits) |          |  |  |  |  |
|-----------------------------------|------------------------|--|----------|--|--|--|--|
| Lab Sample ID                     | Client Sample ID       | BFB1   | DFBZ1    |  |  |  |  |
|                                   |                        | (70-130)                                       | (70-130) |  |  |  |  |
| 890-603-1                         | PH02                   | 106  | 107      |  |  |  |  |
| 890-603-2                         | PH02A                  | 105  | 107      |  |  |  |  |
| 890-603-3                         | PH03                   | 108  | 106      |  |  |  |  |
| 890-603-4                         | PH03A                  | 106  | 106      |  |  |  |  |
| LCS 880-2532/1-A                  | Lab Control Sample     | 108  | 105      |  |  |  |  |
| LCS 880-2540/1-A                  | Lab Control Sample     | 98   | 106      |  |  |  |  |
| LCS 880-2567/1-A                  | Lab Control Sample     | 104  | 101      |  |  |  |  |
| LCSD 880-2532/2-A                 | Lab Control Sample Dup | 106  | 105      |  |  |  |  |
| LCSD 880-2540/2-A                 | Lab Control Sample Dup | 101  | 104      |  |  |  |  |
| LCSD 880-2567/2-A                 | Lab Control Sample Dup | 106  | 102      |  |  |  |  |
| MB 880-2519/5-A                   | Method Blank           | 90   | 90       |  |  |  |  |
| MB 880-2531/5-A                   | Method Blank           | 102  | 103      |  |  |  |  |
| MB 880-2532/5-A                   | Method Blank           | 100  | 98       |  |  |  |  |
| MB 880-2540/5-A                   | Method Blank           | 102  | 100      |  |  |  |  |
| MB 880-2567/5-A                   | Method Blank           | 93   | 91       |  |  |  |  |
| <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   | OTPH1    |  |  |  |  |
|                         |                        | (70-130)                                       | (70-130) |  |  |  |  |
| 890-603-1               | PH02                   | 100  | 104      |  |  |  |  |
| 890-603-2               | PH02A                  | 106  | 118      |  |  |  |  |
| 890-603-3               | PH03                   | 113  | 120      |  |  |  |  |
| 890-603-4               | PH03A                  | 104  | 111      |  |  |  |  |
| LCS 880-2571/2-A        | Lab Control Sample     | 107  | 108      |  |  |  |  |
| LCSD 880-2571/3-A       | Lab Control Sample Dup | 108  | 105      |  |  |  |  |
| MB 880-2571/1-A         | Method Blank           | 99   | 105      |  |  |  |  |
| <b>Surrogate Legend</b> |                        |  |          |  |  |  |  |
| 1CO = 1-Chlorooctane    |                        |  |          |  |  |  |  |
| OTPH = o-Terphenyl      |                        |  |          |  |  |  |  |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

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

Lab Sample ID: MB 880-2519/5-A

Matrix: Solid

Analysis Batch: 2544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2519

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 09:09 | 05/01/21 12:34 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 09:09 | 05/01/21 12:34 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 09:09 | 05/01/21 12:34 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 09:09 | 05/01/21 12:34 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 09:09 | 05/01/21 12:34 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 09:09 | 05/01/21 12:34 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 09:09 | 05/01/21 12:34 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 90           |              | 70 - 130 | 04/30/21 09:09 | 05/01/21 12:34 | 1       |
| 1,4-Difluorobenzene (Surr)  | 90           |              | 70 - 130 | 04/30/21 09:09 | 05/01/21 12:34 | 1       |

Lab Sample ID: MB 880-2531/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2531

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:02 | 04/30/21 13:04 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:02 | 04/30/21 13:04 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:02 | 04/30/21 13:04 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:02 | 04/30/21 13:04 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:02 | 04/30/21 13:04 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:02 | 04/30/21 13:04 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:02 | 04/30/21 13:04 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 04/30/21 10:02 | 04/30/21 13:04 | 1       |
| 1,4-Difluorobenzene (Surr)  | 103          |              | 70 - 130 | 04/30/21 10:02 | 04/30/21 13:04 | 1       |

Lab Sample ID: MB 880-2532/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2532

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 10:10 | 05/01/21 12:33 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 100          |              | 70 - 130 | 04/30/21 10:10 | 05/01/21 12:33 | 1       |
| 1,4-Difluorobenzene (Surr)  | 98           |              | 70 - 130 | 04/30/21 10:10 | 05/01/21 12:33 | 1       |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

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

Lab Sample ID: LCS 880-2532/1-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2532

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene             | 0.100       | 0.1002     |               | mg/Kg |   | 100  | 70 - 130     |
| Toluene             | 0.100       | 0.1017     |               | mg/Kg |   | 102  | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1070     |               | mg/Kg |   | 107  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2130     |               | mg/Kg |   | 106  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1036     |               | mg/Kg |   | 104  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 108           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2532/2-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2532

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.1002      |                | mg/Kg |   | 100  | 70 - 130     | 0   | 35        |
| Toluene             | 0.100       | 0.1017      |                | mg/Kg |   | 102  | 70 - 130     | 0   | 35        |
| Ethylbenzene        | 0.100       | 0.1038      |                | mg/Kg |   | 104  | 70 - 130     | 3   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2092      |                | mg/Kg |   | 105  | 70 - 130     | 2   | 35        |
| o-Xylene            | 0.100       | 0.1025      |                | mg/Kg |   | 102  | 70 - 130     | 1   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 106            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 105            |                | 70 - 130 |

Lab Sample ID: MB 880-2540/5-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2540

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 13:50 | 05/01/21 00:58 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 102          |              | 70 - 130 | 04/30/21 13:50 | 05/01/21 00:58 | 1       |
| 1,4-Difluorobenzene (Surr)  | 100          |              | 70 - 130 | 04/30/21 13:50 | 05/01/21 00:58 | 1       |

Lab Sample ID: LCS 880-2540/1-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2540

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene | 0.100       | 0.09679    |               | mg/Kg |   | 97   | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

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

Lab Sample ID: LCS 880-2540/1-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2540

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Toluene             | 0.100       | 0.09743    |               | mg/Kg |   | 97   | 70 - 130     |
| Ethylbenzene        | 0.100       | 0.1008     |               | mg/Kg |   | 101  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2054     |               | mg/Kg |   | 103  | 70 - 130     |
| o-Xylene            | 0.100       | 0.09986    |               | mg/Kg |   | 100  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 98            |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 106           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2540/2-A

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2540

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.1003      |                | mg/Kg |   | 100  | 70 - 130     | 4   | 35        |
| Toluene             | 0.100       | 0.1026      |                | mg/Kg |   | 103  | 70 - 130     | 5   | 35        |
| Ethylbenzene        | 0.100       | 0.1057      |                | mg/Kg |   | 106  | 70 - 130     | 5   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2159      |                | mg/Kg |   | 108  | 70 - 130     | 5   | 35        |
| o-Xylene            | 0.100       | 0.1048      |                | mg/Kg |   | 105  | 70 - 130     | 5   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 101            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 104            |                | 70 - 130 |

Lab Sample ID: MB 880-2567/5-A

Matrix: Solid

Analysis Batch: 2544

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2567

| Analyte             | MB Result | MB Qualifier | RL      | Unit  | D | Prepared       | Analyzed       | Dil Fac |
|---------------------|-----------|--------------|---------|-------|---|----------------|----------------|---------|
| Benzene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 23:26 | 1       |
| Toluene             | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 23:26 | 1       |
| Ethylbenzene        | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 23:26 | 1       |
| m-Xylene & p-Xylene | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 23:26 | 1       |
| o-Xylene            | <0.00200  | U            | 0.00200 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 23:26 | 1       |
| Xylenes, Total      | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 23:26 | 1       |
| Total BTEX          | <0.00400  | U            | 0.00400 | mg/Kg |   | 04/30/21 15:09 | 05/01/21 23:26 | 1       |

| Surrogate                   | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|-----------------------------|--------------|--------------|----------|----------------|----------------|---------|
| 4-Bromofluorobenzene (Surr) | 93           |              | 70 - 130 | 04/30/21 15:09 | 05/01/21 23:26 | 1       |
| 1,4-Difluorobenzene (Surr)  | 91           |              | 70 - 130 | 04/30/21 15:09 | 05/01/21 23:26 | 1       |

Lab Sample ID: LCS 880-2567/1-A

Matrix: Solid

Analysis Batch: 2544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2567

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------|-------------|------------|---------------|-------|---|------|--------------|
| Benzene | 0.100       | 0.1113     |               | mg/Kg |   | 111  | 70 - 130     |
| Toluene | 0.100       | 0.1050     |               | mg/Kg |   | 105  | 70 - 130     |

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

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

Lab Sample ID: LCS 880-2567/1-A

Matrix: Solid

Analysis Batch: 2544

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2567

| Analyte             | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|---------------------|-------------|------------|---------------|-------|---|------|--------------|
| Ethylbenzene        | 0.100       | 0.1041     |               | mg/Kg |   | 104  | 70 - 130     |
| m-Xylene & p-Xylene | 0.200       | 0.2170     |               | mg/Kg |   | 109  | 70 - 130     |
| o-Xylene            | 0.100       | 0.1095     |               | mg/Kg |   | 110  | 70 - 130     |

| Surrogate                   | LCS %Recovery | LCS Qualifier | Limits   |
|-----------------------------|---------------|---------------|----------|
| 4-Bromofluorobenzene (Surr) | 104           |               | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 101           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2567/2-A

Matrix: Solid

Analysis Batch: 2544

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2567

| Analyte             | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|---------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Benzene             | 0.100       | 0.1111      |                | mg/Kg |   | 111  | 70 - 130     | 0   | 35        |
| Toluene             | 0.100       | 0.1045      |                | mg/Kg |   | 105  | 70 - 130     | 0   | 35        |
| Ethylbenzene        | 0.100       | 0.1055      |                | mg/Kg |   | 105  | 70 - 130     | 1   | 35        |
| m-Xylene & p-Xylene | 0.200       | 0.2224      |                | mg/Kg |   | 111  | 70 - 130     | 2   | 35        |
| o-Xylene            | 0.100       | 0.1117      |                | mg/Kg |   | 112  | 70 - 130     | 2   | 35        |

| Surrogate                   | LCSD %Recovery | LCSD Qualifier | Limits   |
|-----------------------------|----------------|----------------|----------|
| 4-Bromofluorobenzene (Surr) | 106            |                | 70 - 130 |
| 1,4-Difluorobenzene (Surr)  | 102            |                | 70 - 130 |

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

Lab Sample ID: MB 880-2571/1-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2571

| 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 |   | 04/30/21 16:30 | 05/01/21 11:38 | 1       |
| Diesel Range Organics (Over C10-C28) | <50.0     | U            | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 11:38 | 1       |
| Oil Range Organics (Over C28-C36)    | <50.0     | U            | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 11:38 | 1       |
| Total TPH                            | <50.0     | U            | 50.0 | mg/Kg |   | 04/30/21 16:30 | 05/01/21 11:38 | 1       |

| Surrogate      | MB %Recovery | MB Qualifier | Limits   | Prepared       | Analyzed       | Dil Fac |
|----------------|--------------|--------------|----------|----------------|----------------|---------|
| 1-Chlorooctane | 99           |              | 70 - 130 | 04/30/21 16:30 | 05/01/21 11:38 | 1       |
| o-Terphenyl    | 105          |              | 70 - 130 | 04/30/21 16:30 | 05/01/21 11:38 | 1       |

Lab Sample ID: LCS 880-2571/2-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2571

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1159       |               | mg/Kg |   | 116  | 70 - 130     |

Eurofins Xenco, Carlsbad

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

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

Lab Sample ID: LCS 880-2571/2-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2571

| Analyte                              | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|--------------------------------------|-------------|------------|---------------|-------|---|------|--------------|
| Diesel Range Organics (Over C10-C28) | 1000        | 1112       |               | mg/Kg |   | 111  | 70 - 130     |

|                | LCS %Recovery | LCS Qualifier | Limits   |
|----------------|---------------|---------------|----------|
| Surrogate      |               |               |          |
| 1-Chlorooctane | 107           |               | 70 - 130 |
| o-Terphenyl    | 108           |               | 70 - 130 |

Lab Sample ID: LCSD 880-2571/3-A

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2571

| Analyte                              | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------------------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Gasoline Range Organics (GRO)-C6-C10 | 1000        | 1057        |                | mg/Kg |   | 106  | 70 - 130     | 9   | 20        |
| Diesel Range Organics (Over C10-C28) | 1000        | 1325        | *+             | mg/Kg |   | 132  | 70 - 130     | 17  | 20        |

|                | LCSD %Recovery | LCSD Qualifier | Limits   |
|----------------|----------------|----------------|----------|
| Surrogate      |                |                |          |
| 1-Chlorooctane | 108            |                | 70 - 130 |
| o-Terphenyl    | 105            |                | 70 - 130 |

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2556/1-A

Matrix: Solid

Analysis Batch: 2608

Client Sample ID: Method Blank

Prep Type: Soluble

| Analyte  | MB Result | MB Qualifier | RL   | Unit  | D | Prepared | Analyzed       | Dil Fac |
|----------|-----------|--------------|------|-------|---|----------|----------------|---------|
| Chloride | <5.00     | U            | 5.00 | mg/Kg |   |          | 05/03/21 15:17 | 1       |

Lab Sample ID: LCS 880-2556/2-A

Matrix: Solid

Analysis Batch: 2608

Client Sample ID: Lab Control Sample

Prep Type: Soluble

| Analyte  | Spike Added | LCS Result | LCS Qualifier | Unit  | D | %Rec | %Rec. Limits |
|----------|-------------|------------|---------------|-------|---|------|--------------|
| Chloride | 250         | 263.2      |               | mg/Kg |   | 105  | 90 - 110     |

Lab Sample ID: LCSD 880-2556/3-A

Matrix: Solid

Analysis Batch: 2608

Client Sample ID: Lab Control Sample Dup

Prep Type: Soluble

| Analyte  | Spike Added | LCSD Result | LCSD Qualifier | Unit  | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|----------|-------------|-------------|----------------|-------|---|------|--------------|-----|-----------|
| Chloride | 250         | 258.2       |                | mg/Kg |   | 103  | 90 - 110     | 2   | 20        |

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

## GC VOA

## Prep Batch: 2519

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-2519/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 2530

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-603-1         | PH02                   | Total/NA  | Solid  | 8021B  | 2532       |
| 890-603-2         | PH02A                  | Total/NA  | Solid  | 8021B  | 2540       |
| 890-603-3         | PH03                   | Total/NA  | Solid  | 8021B  | 2540       |
| 890-603-4         | PH03A                  | Total/NA  | Solid  | 8021B  | 2567       |
| MB 880-2531/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2531       |
| MB 880-2532/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2532       |
| MB 880-2540/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2540       |
| LCS 880-2532/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 2532       |
| LCS 880-2540/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 2540       |
| LCSD 880-2532/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 2532       |
| LCSD 880-2540/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 2540       |

## Prep Batch: 2531

| Lab Sample ID   | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-----------------|------------------|-----------|--------|--------|------------|
| MB 880-2531/5-A | Method Blank     | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 2532

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-603-1         | PH02                   | Total/NA  | Solid  | 5035   |            |
| MB 880-2532/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-2532/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-2532/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Prep Batch: 2540

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-603-2         | PH02A                  | Total/NA  | Solid  | 5035   |            |
| 890-603-3         | PH03                   | Total/NA  | Solid  | 5035   |            |
| MB 880-2540/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-2540/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-2540/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

## Analysis Batch: 2544

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| MB 880-2519/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2519       |
| MB 880-2567/5-A   | Method Blank           | Total/NA  | Solid  | 8021B  | 2567       |
| LCS 880-2567/1-A  | Lab Control Sample     | Total/NA  | Solid  | 8021B  | 2567       |
| LCSD 880-2567/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 8021B  | 2567       |

## Prep Batch: 2567

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-603-4         | PH03A                  | Total/NA  | Solid  | 5035   |            |
| MB 880-2567/5-A   | Method Blank           | Total/NA  | Solid  | 5035   |            |
| LCS 880-2567/1-A  | Lab Control Sample     | Total/NA  | Solid  | 5035   |            |
| LCSD 880-2567/2-A | Lab Control Sample Dup | Total/NA  | Solid  | 5035   |            |

Eurofins Xenco, Carlsbad

## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

## GC Semi VOA

## Prep Batch: 2571

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method      | Prep Batch |
|-------------------|------------------------|-----------|--------|-------------|------------|
| 890-603-1         | PH02                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-603-2         | PH02A                  | Total/NA  | Solid  | 8015NM Prep |            |
| 890-603-3         | PH03                   | Total/NA  | Solid  | 8015NM Prep |            |
| 890-603-4         | PH03A                  | Total/NA  | Solid  | 8015NM Prep |            |
| MB 880-2571/1-A   | Method Blank           | Total/NA  | Solid  | 8015NM Prep |            |
| LCS 880-2571/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015NM Prep |            |
| LCSD 880-2571/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015NM Prep |            |

## Analysis Batch: 2589

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-603-1         | PH02                   | Total/NA  | Solid  | 8015B NM | 2571       |
| 890-603-2         | PH02A                  | Total/NA  | Solid  | 8015B NM | 2571       |
| 890-603-3         | PH03                   | Total/NA  | Solid  | 8015B NM | 2571       |
| 890-603-4         | PH03A                  | Total/NA  | Solid  | 8015B NM | 2571       |
| MB 880-2571/1-A   | Method Blank           | Total/NA  | Solid  | 8015B NM | 2571       |
| LCS 880-2571/2-A  | Lab Control Sample     | Total/NA  | Solid  | 8015B NM | 2571       |
| LCSD 880-2571/3-A | Lab Control Sample Dup | Total/NA  | Solid  | 8015B NM | 2571       |

## HPLC/IC

## Leach Batch: 2556

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method   | Prep Batch |
|-------------------|------------------------|-----------|--------|----------|------------|
| 890-603-1         | PH02                   | Soluble   | Solid  | DI Leach |            |
| 890-603-2         | PH02A                  | Soluble   | Solid  | DI Leach |            |
| 890-603-3         | PH03                   | Soluble   | Solid  | DI Leach |            |
| 890-603-4         | PH03A                  | Soluble   | Solid  | DI Leach |            |
| MB 880-2556/1-A   | Method Blank           | Soluble   | Solid  | DI Leach |            |
| LCS 880-2556/2-A  | Lab Control Sample     | Soluble   | Solid  | DI Leach |            |
| LCSD 880-2556/3-A | Lab Control Sample Dup | Soluble   | Solid  | DI Leach |            |

## Analysis Batch: 2608

| Lab Sample ID     | Client Sample ID       | Prep Type | Matrix | Method | Prep Batch |
|-------------------|------------------------|-----------|--------|--------|------------|
| 890-603-1         | PH02                   | Soluble   | Solid  | 300.0  | 2556       |
| 890-603-2         | PH02A                  | Soluble   | Solid  | 300.0  | 2556       |
| 890-603-3         | PH03                   | Soluble   | Solid  | 300.0  | 2556       |
| 890-603-4         | PH03A                  | Soluble   | Solid  | 300.0  | 2556       |
| MB 880-2556/1-A   | Method Blank           | Soluble   | Solid  | 300.0  | 2556       |
| LCS 880-2556/2-A  | Lab Control Sample     | Soluble   | Solid  | 300.0  | 2556       |
| LCSD 880-2556/3-A | Lab Control Sample Dup | Soluble   | Solid  | 300.0  | 2556       |

Eurofins Xenco, Carlsbad

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

## Client Sample ID: PH02

Lab Sample ID: 890-603-1

Date Collected: 04/29/21 11:20

Matrix: Solid

Date Received: 04/29/21 16:13

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2532         | 04/30/21 10:10       | MR      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2530         | 05/01/21 21:00       | MR      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2571         | 04/30/21 16:30       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2589         | 05/01/21 15:35       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2556         | 04/30/21 14:42       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 1               | 2608         | 05/03/21 18:36       | CH      | XM  |

## Client Sample ID: PH02A

Lab Sample ID: 890-603-2

Date Collected: 04/29/21 11:30

Matrix: Solid

Date Received: 04/29/21 16:13

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2540         | 04/30/21 13:50       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2530         | 05/01/21 06:20       | MR      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2571         | 04/30/21 16:30       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2589         | 05/01/21 15:56       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2556         | 04/30/21 14:42       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 1               | 2608         | 05/03/21 17:10       | CH      | XM  |

## Client Sample ID: PH03

Lab Sample ID: 890-603-3

Date Collected: 04/29/21 11:40

Matrix: Solid

Date Received: 04/29/21 16:13

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2540         | 04/30/21 13:50       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2530         | 05/01/21 06:40       | MR      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2571         | 04/30/21 16:30       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2589         | 05/01/21 16:18       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2556         | 04/30/21 14:42       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 10              | 2608         | 05/03/21 17:26       | CH      | XM  |

## Client Sample ID: PH03A

Lab Sample ID: 890-603-4

Date Collected: 04/29/21 11:50

Matrix: Solid

Date Received: 04/29/21 16:13

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|-----|
| Total/NA  | Prep       | 5035         |     |                 | 2567         | 04/30/21 15:09       | KL      | XM  |
| Total/NA  | Analysis   | 8021B        |     | 1               | 2530         | 05/01/21 07:01       | MR      | XM  |
| Total/NA  | Prep       | 8015NM Prep  |     |                 | 2571         | 04/30/21 16:30       | DM      | XM  |
| Total/NA  | Analysis   | 8015B NM     |     | 1               | 2589         | 05/01/21 16:39       | AJ      | XM  |
| Soluble   | Leach      | DI Leach     |     |                 | 2556         | 04/30/21 14:42       | CH      | XM  |
| Soluble   | Analysis   | 300.0        |     | 5               | 2608         | 05/03/21 17:31       | CH      | XM  |

## Laboratory References:

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

Eurofins Xenco, Carlsbad

Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

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   | T104704400-20-21      | 06-30-21        |

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    |
|-----------------|-------------|--------|------------|
| 8015B NM        | 8015NM Prep | Solid  | Total TPH  |
| 8021B           | 5035        | Solid  | Total BTEX |

## Method Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

| Method      | Method Description                 | Protocol | Laboratory |
|-------------|------------------------------------|----------|------------|
| 8021B       | Volatile Organic Compounds (GC)    | SW846    | XM         |
| 8015B NM    | Diesel Range Organics (DRO) (GC)   | SW846    | XM         |
| 300.0       | Anions, Ion Chromatography         | MCAWW    | XM         |
| 5035        | Closed System Purge and Trap       | SW846    | XM         |
| 8015NM Prep | Microextraction                    | SW846    | XM         |
| DI Leach    | Deionized Water Leaching Procedure | ASTM     | XM         |

**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.

**Laboratory References:**

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

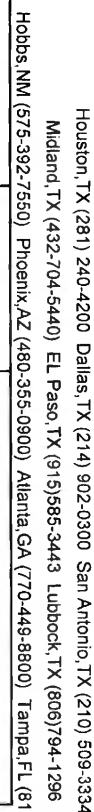


## Sample Summary

Client: WSP USA Inc.  
Project/Site: Thriller

Job ID: 890-603-1  
SDG: TE012921051

| Lab Sample ID | Client Sample ID | Matrix | Collected      | Received       | Depth |
|---------------|------------------|--------|----------------|----------------|-------|
| 890-603-1     | PH02             | Solid  | 04/29/21 11:20 | 04/29/21 16:13 | - 1   |
| 890-603-2     | PH02A            | Solid  | 04/29/21 11:30 | 04/29/21 16:13 | - 2   |
| 890-603-3     | PH03             | Solid  | 04/29/21 11:40 | 04/29/21 16:13 | - 1   |
| 890-603-4     | PH03A            | Solid  | 04/29/21 11:50 | 04/29/21 16:13 | - 2   |




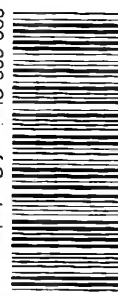
## Chain of Custody

**Work Order No:**

Page 1 of 1  
www.xenco.com




|                  |  |                     |                         |  |
|------------------|--|---------------------|-------------------------|--|
| Project Manager: |  | Dan Moir            | Bill to: (if different) | Kyle Litrell   |
| Company Name:    |  | WSP                 | Company Name:           | XTO Energy   |
| Address:         |  | 3300 North A Street | Address:                | 3104 East Green Street                                       |
| City, State ZIP: |  | Midland, TX 79705   | City, State ZIP:        | Carlsbad, NM 88220   |
| Phone:           |  | (303) 887-2946      | Email:                  | Spencer.Lo@wsp.com, Kalei.Lennings@wsp.com, Dan.Moir@wsp.com |

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

|  |   |                           |   |   |   |
|--|---|---------------------------|---|---|---|
| Project Name:  |   | Thriller                  |   | Turn Around                                 |   |
| Project Number:  |   | TE012921051               |   | Routine <input checked="" type="checkbox"/> |   |
| P.O. Number:   |   |                           |   | Rush:                                       |   |
| Sampler's Name:  |   | Spencer Lo                |   | Due Date:                                   |   |
| <b>SAMPLE RECEIPT</b>  |   |                           |   |   |   |
| Temperature (°C):  | 2.2   | Temp Blank:               | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Wet Ice:                                    | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
| Received In tact:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | Thermometer ID<br>T-M-002 |   |   |   |
| Cooler Custody Seals:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | N/A                       | Correction Factor:<br>2.0   |   |   |
| Sample Custody Seals:  | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | N/A                       | Total Containers:   |   |   |
| <b>Sample Identification</b>   |   | <b>Matrix</b>             | <b>Date Sampled</b>   | <b>Time Sampled</b>                         | <b>Depth</b>  |
| PH02   |   | S                         | 4/29/2021   | 1120  | 1'  |
| PH02A  |   | S                         | 4/29/2021   | 1130  | 2'  |
| PH03   |   | S                         | 4/29/2021   | 1140  | 1'  |
| PH03A  |   | S                         | 4/29/2021   | 1150  | 2'  |
|                                 |   |                           |   |   |   |
| <b>ANALYSIS REQUEST</b>  |   |                           |   |   |   |
| <b>Number of Containers</b>  |   |                           |   |   |   |
| TPH (EPA 8015)   |   |                           |   |   |   |
| BTEX (EPA 0=8021)  |   |                           |   |   |   |
| Chloride (EPA 300.0)   |   |                           |   |   |   |
| <br>890-603 Chain of Custody |   |                           |   |   |   |
| <b>Work Order Notes</b>  |   |                           |   |   |   |
| Incident IDs: nAPP2108544357,<br>nAPP2108546355,<br>nAPP2110463633<br>Cost Center: 1067741001                    |   |                           |   |   |   |
| TAT starts the day received by the lab, if received by 4:30pm  |   |                           |   |   |   |
| <b>Sample Comments</b>   |   |                           |   |   |   |

|   |                     |                      |             |       |       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |   |    |    |      |    |    |    |    |   |   |    |
|---|---------------------|----------------------|-------------|-------|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|------|----|----|----|----|---|---|----|
| <b>Total</b>  | <b>200.7 / 6010</b> | <b>200.8 / 6020:</b> | 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 |
| <i>Circle Method(s) and Metal(s) to be analyzed</i> |                     |                      | TCLP / SPLP | 6010: | 8RCRA | Sb | As | Ba | Be | Cd | Cr | Co | Cu | Pb | Mn | Mo | Ni | Se | Ag | Tl | U  |    |    |   |    |    |      |    |    |    |    |   |   |    |

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco. The entrustees 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 \$75.00 will be applied to 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                            |  |                 | 2                            |  |           |
| 3                            |  | 4-29-24 / 16:13 | 4                            |  |           |
| 5                            |   |                 | 6                            |  |           |

Revised Date 05/1/18 Rev. 201

Eurofins Xenco Carlsbad

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

## Chain of Custody Record



### Environment Testing

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-603-1

SDG Number: TE012921051

Login Number: 603

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: 890-603-1

SDG Number: TE012921051

Login Number: 603

List Number: 2

Creator: Copeland, Tatiana

List Source: Eurofins Midland

List Creation: 04/30/21 02:15 PM

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

**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 30650

CONDITIONS

|   |   |
|---|---|
| Operator:<br>XTO ENERGY, INC<br>6401 Holiday Hill Road<br>Midland, TX 79707 | OGRID:<br>5380  |
|   | Action Number:<br>30650                                   |
|   | Action Type:<br>[C-141] Release Corrective Action (C-141) |

CONDITIONS

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| rhamlet    | We have received your closure report and final C-141 for Incident #NAPP2110463633 THRILLER BATTERY, thank you. This closure is approved. | 8/10/2021      |