

HOBBS OCD

MAY 10 2013

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, 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

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

## Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

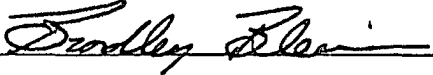
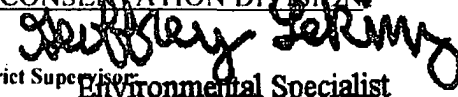
Name of Company: Chevron USA	Contact: Bradley Blevins
Address: P.O. Box 190, Hobbs, NM 88240	Telephone No.: (575) 391-1462 ext. 86424
Facility Name: Trinity Burrus ABO Unit #16	Facility Type: Tank Battery
Surface Owner: 070 Ranchland Ltd	Mineral Owner:
API No.: 30-025-36251	

## LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	23	12S	38E	1980	South	660	West	Lea

Latitude: N 33° 15' 45.10" Longitude: W 103° 04' 27.73"

## NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 52 bbls	Volume Recovered: 3 bbls
Source of Release: One inch nipple failed on water pump.	Date and Hour of Occurrence: 5/2/13 @ 10:00	Date and Hour of Discovery: 5/2/13 @ 10:00
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? GEOFF LEXING, NMOCD	
By Whom? Bradley Blevins	Date and Hour: 5/2/13 @ 2:00 PM	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse:	
Depth to water: ~25 ft		
If a Watercourse was Impacted, Describe Fully:		
Describe Cause of Problem and Remedial Action Taken.* Release was caused by a one inch nipple failure on water pump. Approximately 52 bbls of produced water was released with 3 bbls recovered. An Emergency Response Team arrived at the release area and began continuous abatement of the impacted area.		
Describe Area Affected and Cleanup Action Taken.* Approximately 15,200 square feet of area was affected by the release of produced water. Visibly stained soil was excavated and hauled away for disposal at a state approved facility. Soil samples were collected and submitted to Cardinal Laboratories for testing. Upon receiving acceptable results and NMOCD approval, the affected area will be backfilled, and returned to proper conditions.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD 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.		
Signature: 	OIL CONSERVATION DIVISION 	
Printed Name: Bradley Blevins	Approved by District Supervisor Environmental Specialist	
Title: HIE Specialist	Approval Date: 5/10/13	Expiration Date: 7/10/13
E-mail Address: bradley.blevins@chevron.com	Conditions of Approval: SUBMIT FINAL C-141 BY 7/10/13	Attached <input type="checkbox"/>
Date:	Phone: (575) 391-1462 ext. 86424	IRP-5-13-2922

\* Attach Additional Sheets If Necessary

MAY 20 2013

Incident ID	NGRL1313056354
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>&lt;50</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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


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

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

State of New Mexico  
Oil Conservation Division

Incident ID	NGRL1313056354
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Jeffery Tew Title: Operations Engineer  
Signature:  Date: 3/22/2022  
email: jtew@aecnm.com Telephone: 575-623-2999

**OCD Only**

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

Incident ID	NGRL1313056354
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 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 OCD 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 of 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: Jeffery Tew

Title: Operations Engineer

Signature: 

Date: 03/22/2022

Email: jtew@aecnm.com

Telephone: 575-623-2999

**ODC Only**

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

Date: \_\_\_\_\_

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

Closure Approved by: 

Date: 06/21/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



WSP USA

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

March 16, 2022

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

**Re: Closure Request  
Trinity Burrus Abo Unit #016  
Incident Number NGRL1313056354  
Lea County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP), on behalf of Armstrong Energy Corporation (Armstrong), presents the following Closure Request detailing site assessment, excavation, and soil sampling activities at the Trinity Burrus Abo Unit #016 (Site), located in Unit L, Section 23, Township 12 South, Range 38 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment, excavation, and soil sampling activities was to address impacts to soil following the release of produced water at the Site. Based on excavation activities and laboratory analytical results from the soil sampling event, Armstrong is submitting this Closure Request and requesting no further action (NFA) for Incident Number NGRL1313056354.

#### **RELEASE BACKGROUND**

On May 2, 2013, a 1-inch nipple failed on a water pump, resulting in the release of approximately 52 barrels (bbls) of produced water onto the surface of the well pad. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids and saturated surficial soil; approximately 3 bbls of produced water were recovered. Chevron USA, the operator of the facility at the time of the release, notified the New Mexico Oil Conservation Division (NMOCD) on May 10, 2013. The release was assigned Incident Number NGRL1313056354. Armstrong is the current owner and operator of the Site and it was brought to their attention this release was not considered closed by NMOCD. As such, Armstrong completed site assessment activities as to gain NFA for the release.

#### **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 less than 50 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 331518103044201, located approximately 0.37 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 23 feet bgs and an undetermined total well depth. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced water well records are provided in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is an intermittent freshwater pond, located approximately 1,942 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

### **CLOSURE CRITERIA**

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

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

### **DELINEATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS**

On January 24, 2022, WSP personnel were at the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel advanced five boreholes (BH01 through BH05) via hand-auger to assess the presence or absence of soil impacts. Two soil samples were collected from each borehole from a depth of approximately 0.5 feet and 1-foot bgs. Soil from the boreholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the boreholes were documented on a lithologic/soil sampling log and are included as Attachment 2. The delineation boreholes were backfilled with the soil removed. The borehole delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted during the Site visit. The photographic log is 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 Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States



Environmental Protection Agency (EPA) Method 8021B; TPH- gasoline range organics (GRO), TPH- diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for delineation soil sample BH01, collected at 0.5 feet bgs, indicated chloride concentrations exceeded the Closure Criteria. Soil sample BH01A, collected at 1-foot bgs, indicated benzene, BTEX, TPH, and chloride concentrations were all compliant with the Closure Criteria. Laboratory analytical results for delineation soil samples BH02 through BH05, collected at depths of approximately 0.5 feet and 1-foot bgs, indicated benzene, BTEX, TPH, and chloride concentrations were all compliant with the Closure Criteria.

### **EXCAVATION AND CONFIRMATION SOIL SAMPLING ACTIVITIES AND ANALYTICAL RESULTS**

On February 28, 2022, WSP personnel returned to the Site to oversee excavation activities as indicated by laboratory analytical results. Excavation activities were completed to remove impacted soil in the vicinity surrounding delineation soil sample BH01. Excavation activities were performed using a backhoe and transport vehicle. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride. The excavation was completed to a depth of approximately 1.5 feet bgs.

Following removal of impacted soil, WSP collected 5-point composite soil samples every 200 square feet from the floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. Composite floor samples FS01 through FS04 were collected from the floor of the excavation from a depth of 1.5 feet bgs. Due to the shallow depth of the of the excavation, the floor samples represented the floor and sidewalls of the excavation. The excavation soil samples were collected, handled, and analyzed following the same procedures as described above. The excavation extent and excavation soil sample locations are presented on Figure 3. Photographic documentation is included in Attachment 3.

Laboratory analytical results for excavation floor samples FS01 through FS04, collected from the final excavation extent, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and laboratory analytical reports are included as Attachment 4.

The final excavation extent measured approximately 759 square feet. At the completion of excavation activities, approximately 42 cubic yards of impacted soil were removed. The impacted soil was transported and properly disposed of at R360 Facility located in Hobbs, New Mexico. After completion of confirmation sampling, the excavation area was backfilled.



District 1  
Page 4**CLOSURE REQUEST**

Site assessment and excavation activities were conducted at the Site to address the May 2, 2013 produced water release. Once the release was discovered, the former operator immediately dispatched a vacuum truck to the Site to recover freestanding fluids and remove stained soil. Laboratory analytical results for excavation soil samples, collected from the final excavation extent, indicated benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the remaining 2022 delineation soil samples (BH02 through BH05) indicated benzene, BTEX, TPH and chloride concentrations were compliant with Closure Criteria. As such, there appears to be an absence of soil impacts related to the 2013 release outside of the excavation extent and no further remediation appears necessary.

Based on initial response efforts and laboratory analytical results compliant with Closure Criteria, remedial actions taken at the Site appear to have been sufficient in protecting human health, the environment, and groundwater and as a result, Armstrong respectfully requests NFA for Incident Number NGRL1313056354.

If you have any questions or comments, please do not hesitate to contact Mr. Daniel R. Moir at (303) 887-2946.

Sincerely,

WSP USA Inc.

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

Kalei Jennings  
Consultant, Environmental Scientist

A handwritten signature in black ink that appears to read 'Daniel R. Moir'.

Daniel R. Moir, P.G.  
Sr. Lead Consultant, Geologist

cc: Kyle Alpers, Armstrong Energy Corporation

**Attachments:**

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





District 1  
Page 5

Attachment 4 Laboratory Analytical Reports

FIGURES

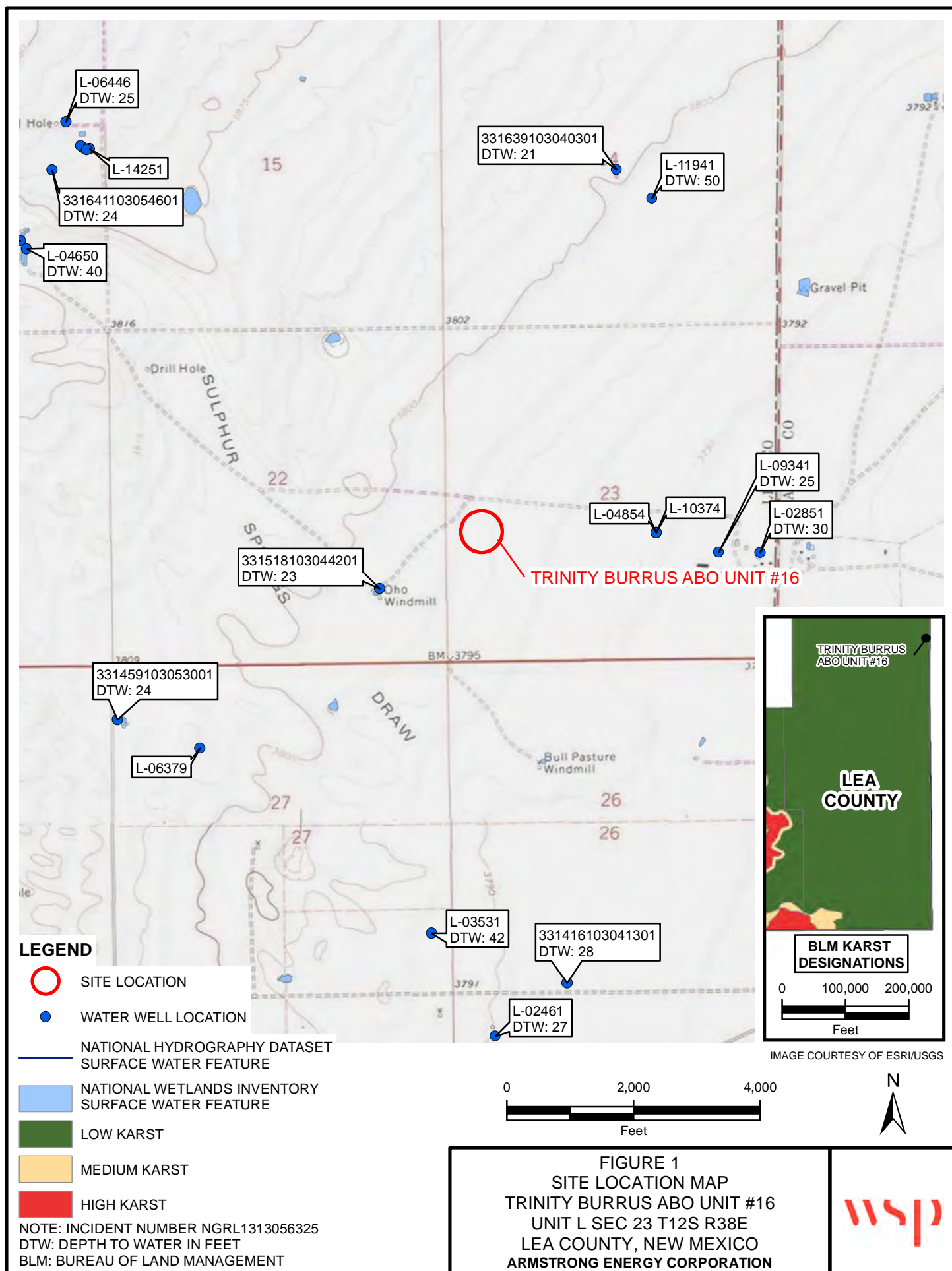
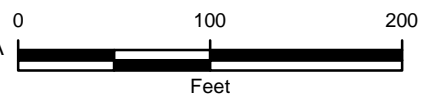




IMAGE COURTESY OF ESRI

**LEGEND**

- DELINEATION SOIL SAMPLE WITH CONCENTRATIONS PREVIOUSLY EXCEEDING APPLICABLE CLOSURE CRITERIA
- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA



NOTE: INCIDENT NUMBER NGRL1313056325  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 2**  
**DELINEATION SOIL SAMPLE LOCATIONS**  
 TRINITY BURRUS ABO UNIT #16  
 UNIT L SEC 23 T12S R38E  
 LEA COUNTY, NEW MEXICO  
**ARMSTRONG ENERGY CORPORATION**



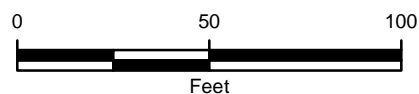




IMAGE COURTESY OF ESRI

# LEGEND

- FLOOR SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- EXCAVATION EXTENT



NOTE: INCIDENT NUMBER NGRL1313056325  
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

**FIGURE 3**  
**EXCAVATION SOIL SAMPLE LOCATIONS**  
**TRINITY BURRUS ABO UNIT #16**  
**UNIT L SEC 23 T12S R38E**  
**LEA COUNTY, NEW MEXICO**  
**ARMSTRONG ENERGY CORPORATION**



TABLES

Table 1

Soil Analytical Results  
Trinity Burrus Abo Unit #016  
Incident Number NGRL1313056354  
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
<b>NMOCD Table 1 Closure Criteria (NMAC 19.15.29)</b>			10	50	NE	NE	NE	NE	100	600
<b>Delineation Soil Samples</b>										
BH01	01/24/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	822
BH01A	01/24/2022	1	<0.00201	<0.00402	<50.0	<50.0	<50.0	<50.0	<50.0	489
BH02	01/24/2022	0.5	<0.00200	<0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	504
BH02A	01/24/2022	1	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	357
BH03	01/24/2022	0.5	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	14.2
BH03A	01/24/2022	1	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	11.3
BH04	01/24/2022	0.5	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	140
BH04A	01/24/2022	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	282
BH05	01/24/2022	0.5	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	19.9
BH05A	01/24/2022	1	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	18.6
<b>Excavation Floor Samples</b>										
FS01	02/28/2022	1.5	<0.00202	<0.00404	<49.9	<49.9	<49.9	<49.9	<49.9	530
FS02	02/28/2022	1.5	<0.00200	<0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	421
FS03	02/28/2022	1.5	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	359
FS04	02/28/2022	1.5	<0.00200	<0.00401	<50.0	<50.0	<50.0	<50.0	<50.0	395

**Notes:**

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

Text

impacted soil was excavated



ATTACHMENT 1: REFERENCED WELL RECORDS



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

## National Water Information System: Web Interface

USGS Water Resources (Cooperator Access)

Data Category:


Site Information

Geographic Area:

United States

GO

Click to hide News Bulletins

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

# USGS 331518103044201 12S.38E.22.44114

Available data for this site

SUMMARY OF ALL AVAILABLE DATA

GO

## Well Site

### DESCRIPTION:

Latitude 33°15'36", Longitude 103°04'45" NAD27  
Lea County, New Mexico , Hydrologic Unit 12080006  
Well depth: not determined.  
Land surface altitude: 3,801.10 feet above NGVD29.  
Well completed in "High Plains aquifer" (N100HGHPLN) national aquifer.  
Well completed in "Ogallala Formation" (121OGLL) local aquifer

### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
<a href="#">Field groundwater-level measurements</a>	1961-02-09	1996-03-01	5
<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](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

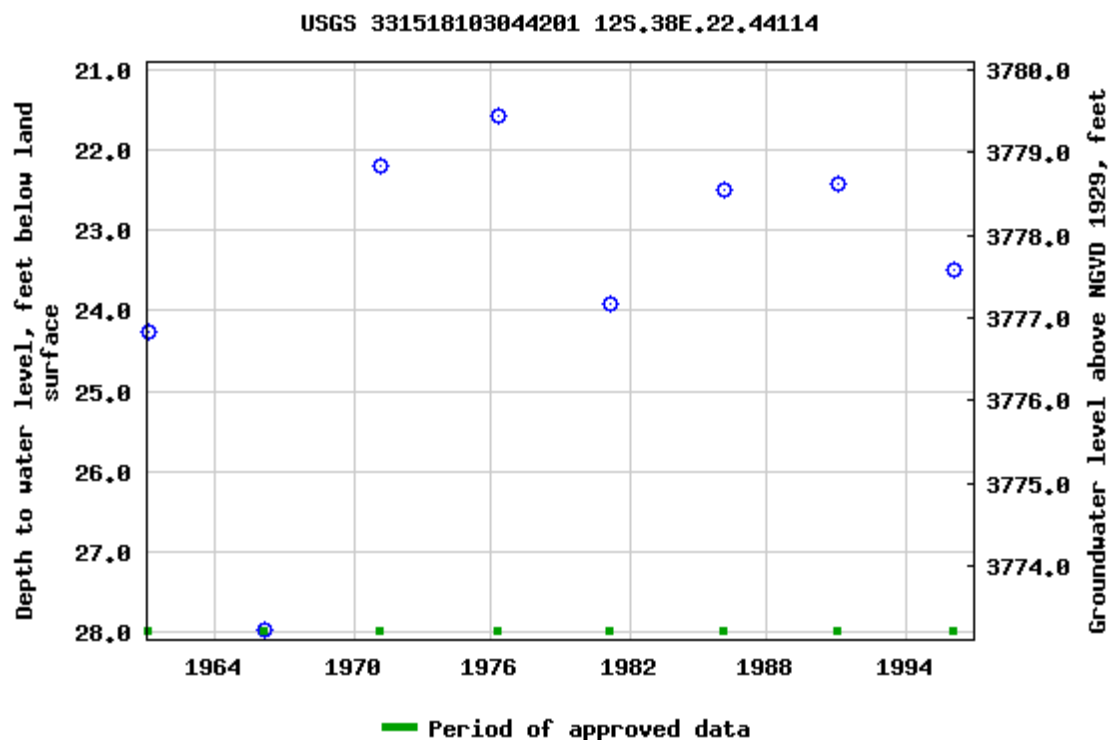
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Breaks in the plot represent a gap of at least one year between field measurements.

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[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

**Title: Groundwater for USA: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>**





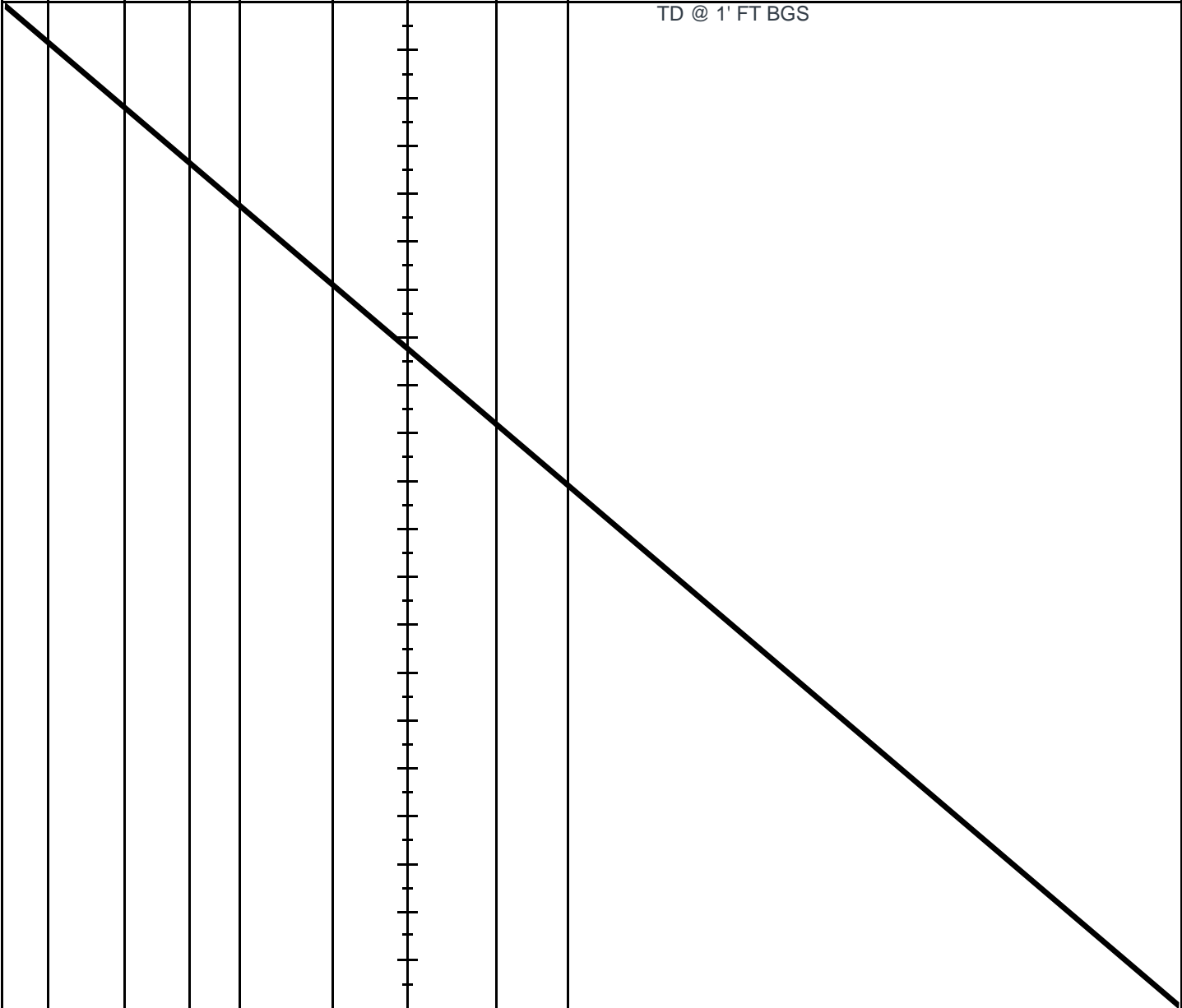
Page Contact Information: [USGS Water Data Support Team](#)


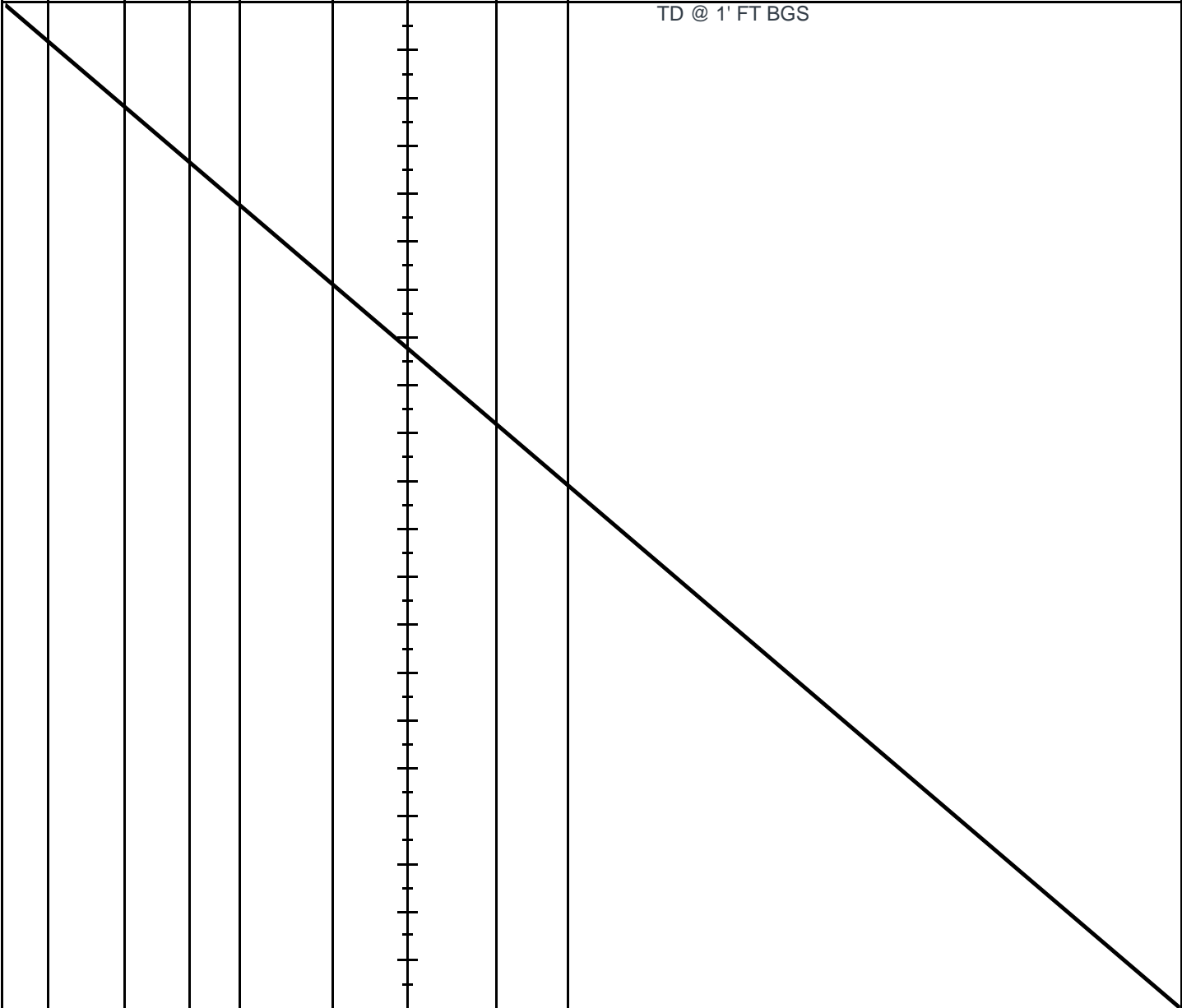
Page Last Modified: 2022-02-17 21:26:45 EST

0.74 0.48 nadww01


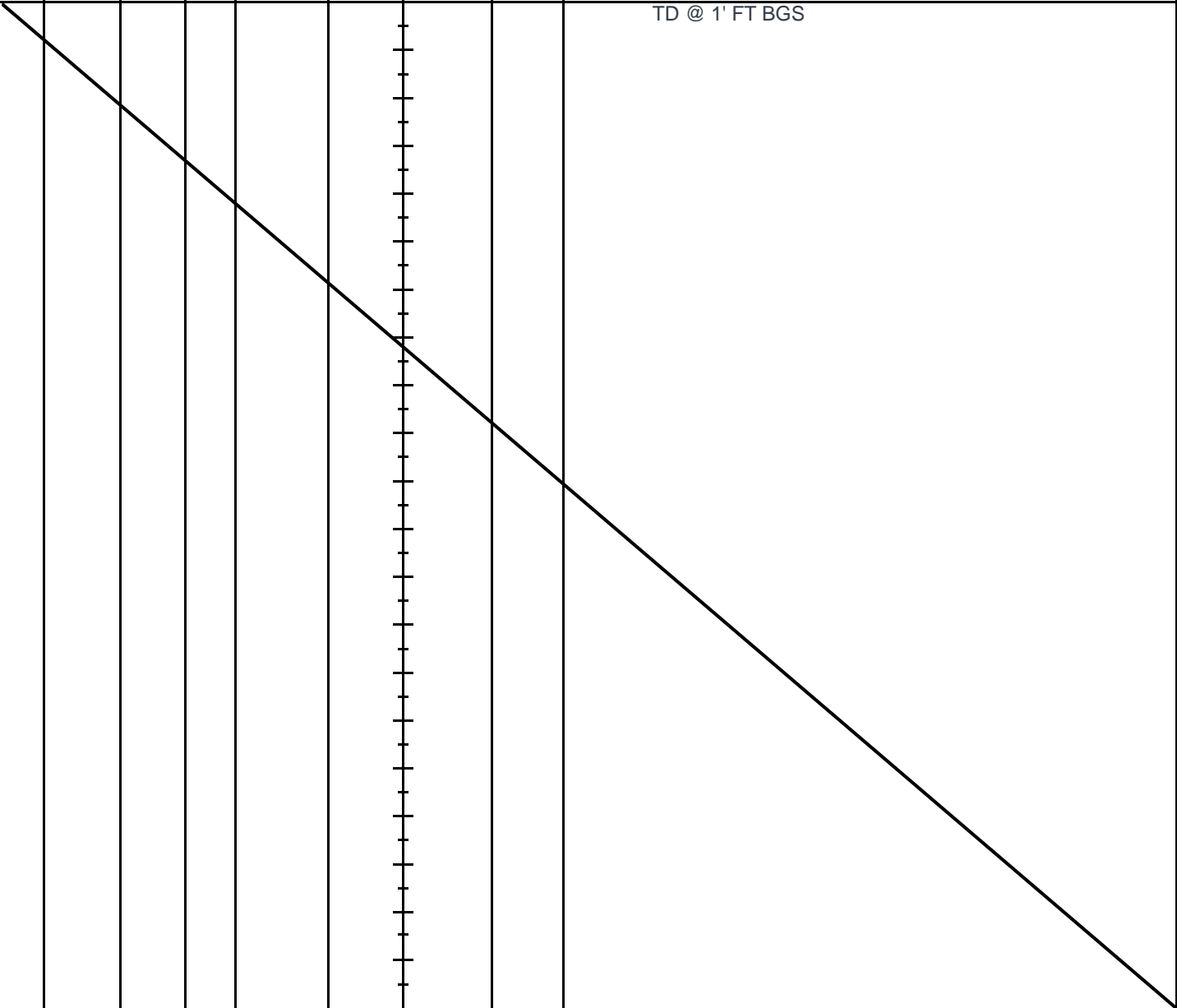
ATTACHMENT 2: LITHOLOGIC/SAMPLING LOGS


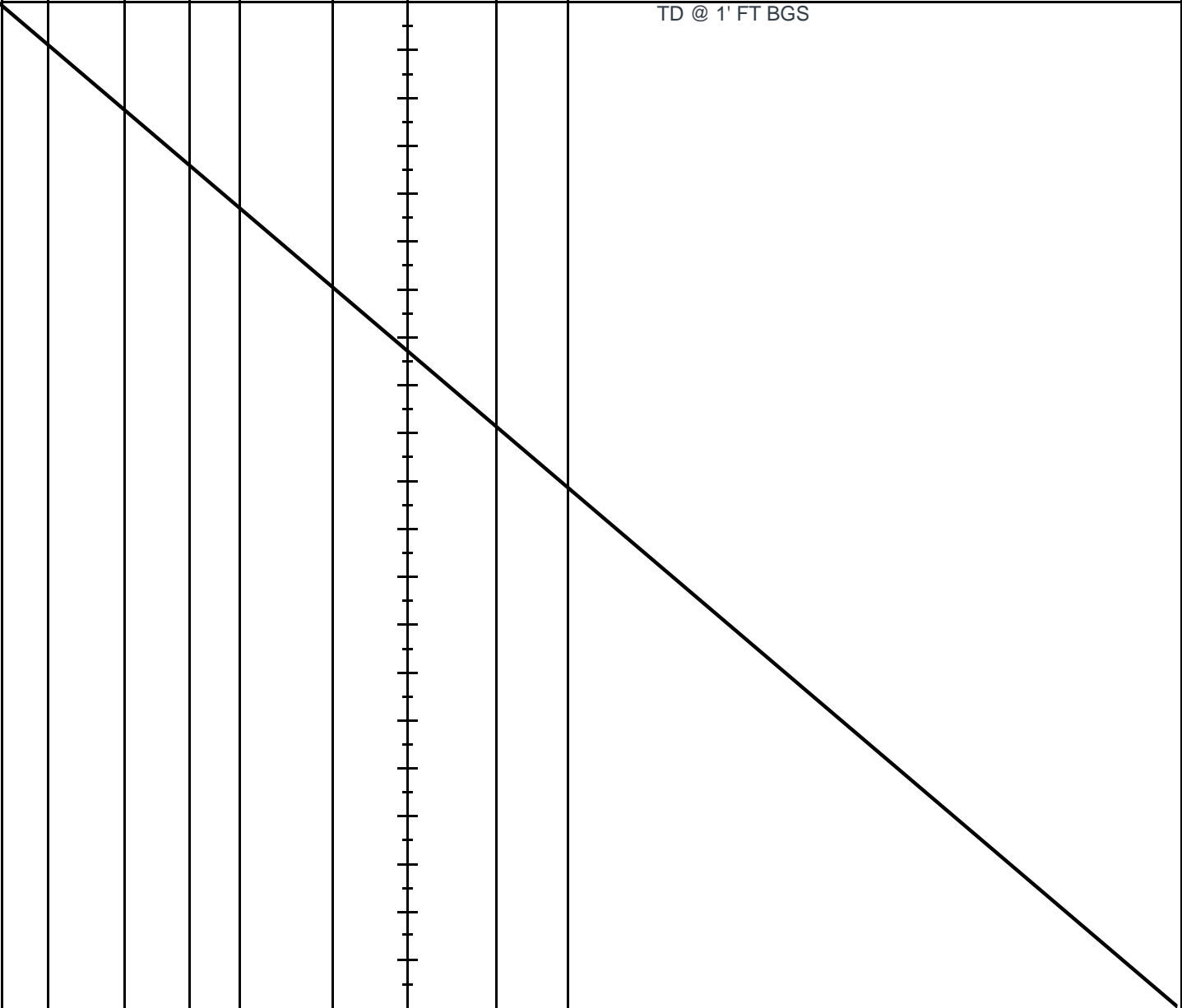
 <div> WSP USA  508 West Stevens Street  Carlsbad, New Mexico 88220 </div>						BH or PH Name: <b>BH01</b>		Date: <b>01/24/2022</b>	
						Site Name: <b>Trinity Burrus Abo Unit #016</b>			
						RP or Incident Number <b>NGRL1313056325</b>			
						WSP Job Number: <b>31403471.003</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>						Logged By: TC		Method: Hand Auger	
Lat/Long: <b>33.262527, -103.074369</b>			Field Screening: Hach chloride strips, PID			Hole Diameter: 3"		Total Depth: 1 foot	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no									
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks	
D	1,058.4	0	N	BH01	1	0.5	GP/GW	REDISH-BROWN, DRY/POORLY GRADED GRAVEL WITH SAND NO STAIN, NO ODOR	
D	498.4	0	Y	BH01A	2	1	GP/GW	STAINED DARK BROWN, DRY/POORLY GRADED WITH SAND NO ODOR	
TD @ 1' FT BGS									

 <div style="text-align: center;"> <b>WSP USA</b>          508 West Stevens Street          Carlsbad, New Mexico 88220       </div>								BH or PH Name: <b>BH02</b>		Date: <b>01/24/2022</b>	
								Site Name: <b>Trinity Burrus Abo Unit #016</b>			
								RP or Incident Number <b>NGRL1313056325</b>			
								WSP Job Number: <b>31403471.003</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: TC		Method: Hand Auger	
Lat/Long: <b>33.262527, -103.074369</b>				Field Screening: Hach chloride strips, PID				Hole Diameter: 3"		Total Depth: 1 foot	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	621.8	0.3	Y	BH02	0.5	0.5	GP/GW	DARK BROWN, DRY/POORLY GRADED GRAVEL WITH SAND, STAINED, NO ODOR			
D	442.4	0.2	Y	BH02A	1	1	GP/GW				
								TD @ 1' FT BGS			
											

 <div style="text-align: center;"> <b>WSP USA</b>          508 West Stevens Street          Carlsbad, New Mexico 88220       </div>								BH or PH Name: <b>BH03</b>		Date: <b>01/24/2022</b>	
								Site Name: <b>Trinity Burrus Abo Unit #016</b>			
								RP or Incident Number <b>NGRL1313056325</b>			
								WSP Job Number: <b>31403471.003</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: TC		Method: Hand Auger	
Lat/Long: <b>33.262527, -103.074369</b>				Field Screening: Hach chloride strips, PID				Hole Diameter: 3"		Total Depth: 1 foot	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	<168	0.5	Y	BH03	0.5	0	GP/GW	DARK BROWN, DRY/POORLY GRADED GRAVEL WITH SAND, STAINED, NO ODOR			
D	<168	0.4	Y	BH03A	1	1	GP/GW				
								TD @ 1' FT BGS			
											



 <div style="text-align: center;"> <b>WSP USA</b>          508 West Stevens Street          Carlsbad, New Mexico 88220       </div>								BH or PH Name: <b>BH04</b>		Date: <b>01/24/2022</b>	
								Site Name: <b>Trinity Burrus Abo Unit #016</b>			
								RP or Incident Number <b>NGRL1313056325</b>			
								WSP Job Number: <b>31403471.003</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: TC		Method: Hand Auger	
Lat/Long: <b>33.262527, -103.074369</b>				Field Screening: Hach chloride strips, PID				Hole Diameter: 3"		Total Depth: 1 foot	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	212.8	0.3	Y	BH04	0.5	0.5	GP/GW	DARK BROWN, DRY/POORLY GRADED GRAVEL WITH SAND, STAINED, NO ODOR			
D	352	0.2	Y	BH04A	1	1	GP/GW				
								TD @ 1' FT BGS			
											

 <div style="text-align: center;"> <b>WSP USA</b>          508 West Stevens Street          Carlsbad, New Mexico 88220       </div>								BH or PH Name: <b>BH05</b>		Date: <b>01/24/2022</b>	
								Site Name: <b>Trinity Burrus Abo Unit #016</b>			
								RP or Incident Number <b>NGRL1313056325</b>			
								WSP Job Number: <b>31403471.003</b>			
<b>LITHOLOGIC / SOIL SAMPLING LOG</b>								Logged By: TC		Method: Hand Auger	
Lat/Long: <b>33.262527, -103.074369</b>				Field Screening: Hach chloride strips, PID				Hole Diameter: 3"		Total Depth: 1 foot	
Comments: All chloride field screenings include a 40% correction factor M-moist; D-dry; Y-yes; N-no											
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks			
D	<168	0.8	Y	BH05	0.5	0	GP/GW	DARK BROWN, DRY/POORLY GRADED GRAVEL WITH SAND, STAINED, NO ODOR			
D	<168	0.4	Y	BH05A	1	1	GP/GW				
								TD @ 1' FT BGS			
											

ATTACHMENT 3: PHOTOGRAPHIC LOG

**PHOTOGRAPHIC LOG**

<b>Armstrong Energy Corporation</b>	<b>Trinity Burrus Abo Unit #016 Lea County, New Mexico</b>	<b>NGRL1313056354</b>
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<b>Photo No.</b>	<b>Date</b>	
1	January 18, 2022	
Photo of pad taken during delineation activities.		

<b>Photo No.</b>	<b>Date</b>	
2	January 18, 2022	
Photo of pad taken during delineation activities.		



**PHOTOGRAPHIC LOG****Armstrong Energy  
Corporation****Trinity Burrus Abo Unit #016  
Lea County, New Mexico****NGRL1313056354**

Photo No.	Date	
1	February 28, 2022	
View of excavation extent near BH01 location.		 A photograph showing a large, rectangular excavation pit in a sandy, arid landscape. To the left of the pit is a large, weathered metal structure with a staircase leading up to it. In the background, there are some utility poles and a flat horizon under a cloudy sky.

Photo No.	Date	
2	February 28, 2022	
View of excavation area once backfill was complete.		 A photograph showing the same area as the first photo, but the excavation pit has been filled with sand, creating a flat, level surface. The metal structure and staircase are still visible on the left, and the background remains the same.

**ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS**



## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 890-1867-1

Laboratory Sample Delivery Group: 31403471.004

Client Project/Site: Trinity Burrus Unit #016

**For:**

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

Attn: Kalei Jennings

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

Authorized for release by:  
1/31/2022 4:17:14 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: Trinity Burrus Unit #016

Laboratory Job ID: 890-1867-1  
SDG: 31403471.004

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## Qualifiers

## GC VOA

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

## GC Semi VOA

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

## HPLC/IC

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

## Glossary

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

## Case Narrative

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

**Job ID: 890-1867-1****Laboratory: Eurofins Carlsbad****Narrative****Job Narrative  
890-1867-1****Receipt**

The samples were received on 1/24/2022 4:36 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.6°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: Surrogate recovery for the following samples were outside control limits: BH01 (890-1867-1), BH01A (890-1867-2), BH02 (890-1867-3), BH02A (890-1867-4), BH04A (890-1867-8), BH05 (890-1867-9), BH05A (890-1867-10), (MB 880-17869/1-A) and (880-10594-A-1-G). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

Method 300\_ORGFM\_28D: The laboratory control sample (LCS) associated with preparation batch 880-17771 and 880-17771 and analytical batch 880-17923 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.

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

Client Sample ID: BH01

Lab Sample ID: 890-1867-1

Date Collected: 01/24/22 10:39

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 14:24	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 14:24	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 14:24	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/26/22 07:25	01/26/22 14:24	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 14:24	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/26/22 07:25	01/26/22 14:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130	01/26/22 07:25	01/26/22 14:24	1
1,4-Difluorobenzene (Surr)	127		70 - 130	01/26/22 07:25	01/26/22 14:24	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	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		01/27/22 08:32	01/27/22 17:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 17:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 17:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130	01/27/22 08:32	01/27/22 17:19	1
o-Terphenyl	161	S1+	70 - 130	01/27/22 08:32	01/27/22 17:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	822	*-	4.97	mg/Kg			01/31/22 13:33	1

Client Sample ID: BH01A

Lab Sample ID: 890-1867-2

Date Collected: 01/24/22 10:40

Matrix: Solid

Date Received: 01/24/22 16:36

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		01/26/22 07:25	01/26/22 14:44	1
Toluene	<0.00201	U	0.00201	mg/Kg		01/26/22 07:25	01/26/22 14:44	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		01/26/22 07:25	01/26/22 14:44	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		01/26/22 07:25	01/26/22 14:44	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		01/26/22 07:25	01/26/22 14:44	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		01/26/22 07:25	01/26/22 14:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/26/22 07:25	01/26/22 14:44	1

Eurofins Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

Client Sample ID: BH01A

Lab Sample ID: 890-1867-2

Date Collected: 01/24/22 10:40

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 1

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	100		70 - 130	01/26/22 07:25	01/26/22 14:44	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	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		01/27/22 08:32	01/27/22 17:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 17:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 17:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	116		70 - 130			01/27/22 08:32	01/27/22 17:41	1
o-Terphenyl	134	S1+	70 - 130			01/27/22 08:32	01/27/22 17:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	489	*-	4.98	mg/Kg			01/31/22 13:45	1

Client Sample ID: BH02

Lab Sample ID: 890-1867-3

Date Collected: 01/24/22 10:51

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 15:05	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 15:05	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 15:05	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/26/22 07:25	01/26/22 15:05	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 15:05	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/26/22 07:25	01/26/22 15:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130	01/26/22 07:25	01/26/22 15:05	1
1,4-Difluorobenzene (Surr)	112		70 - 130	01/26/22 07:25	01/26/22 15:05	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	1

Eurofins Carlsbad

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## Client Sample ID: BH02

## Lab Sample ID: 890-1867-3

Date Collected: 01/24/22 10:51

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9	mg/Kg		01/27/22 08:32	01/27/22 18:02	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/27/22 08:32	01/27/22 18:02	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/27/22 08:32	01/27/22 18:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			01/27/22 08:32	01/27/22 18:02	1
o-Terphenyl	152	S1+	70 - 130			01/27/22 08:32	01/27/22 18:02	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	504	*-	4.95	mg/Kg			01/31/22 13:57	1

## Client Sample ID: BH02A

## Lab Sample ID: 890-1867-4

Date Collected: 01/24/22 10:52

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/26/22 07:25	01/26/22 16:27	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/26/22 07:25	01/26/22 16:27	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/26/22 07:25	01/26/22 16:27	1
m-Xylene & p-Xylene	<0.00396	U	0.00396	mg/Kg		01/26/22 07:25	01/26/22 16:27	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/26/22 07:25	01/26/22 16:27	1
Xylenes, Total	<0.00396	U	0.00396	mg/Kg		01/26/22 07:25	01/26/22 16:27	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			01/26/22 07:25	01/26/22 16:27	1
1,4-Difluorobenzene (Surr)	108		70 - 130			01/26/22 07:25	01/26/22 16:27	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	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		01/27/22 08:32	01/27/22 18:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 18:23	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 18:23	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	135	S1+	70 - 130			01/27/22 08:32	01/27/22 18:23	1
o-Terphenyl	153	S1+	70 - 130			01/27/22 08:32	01/27/22 18:23	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## Client Sample ID: BH02A

## Lab Sample ID: 890-1867-4

Date Collected: 01/24/22 10:52

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	357	*-	5.04	mg/Kg			01/31/22 14:09	1

## Client Sample ID: BH03

## Lab Sample ID: 890-1867-5

Date Collected: 01/24/22 10:57

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 16:47	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 16:47	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 16:47	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/26/22 07:25	01/26/22 16:47	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 16:47	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/26/22 07:25	01/26/22 16:47	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	127		70 - 130			01/26/22 07:25	01/26/22 16:47	1
1,4-Difluorobenzene (Surr)	95		70 - 130			01/26/22 07:25	01/26/22 16:47	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	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		01/27/22 08:32	01/27/22 18:43	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/27/22 08:32	01/27/22 18:43	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/27/22 08:32	01/27/22 18:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	111		70 - 130			01/27/22 08:32	01/27/22 18:43	1
o-Terphenyl	116		70 - 130			01/27/22 08:32	01/27/22 18:43	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	14.2	*-	4.95	mg/Kg			01/31/22 14:21	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

Client Sample ID: BH03A

Lab Sample ID: 890-1867-6

Date Collected: 01/24/22 10:58

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		01/26/22 07:25	01/26/22 17:08	1
Toluene	<0.00202	U	0.00202	mg/Kg		01/26/22 07:25	01/26/22 17:08	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		01/26/22 07:25	01/26/22 17:08	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		01/26/22 07:25	01/26/22 17:08	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		01/26/22 07:25	01/26/22 17:08	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		01/26/22 07:25	01/26/22 17:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/26/22 07:25	01/26/22 17:08	1
1,4-Difluorobenzene (Surr)	102		70 - 130	01/26/22 07:25	01/26/22 17:08	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/27/22 16:17	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		01/27/22 08:32	01/27/22 19:04	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/27/22 08:32	01/27/22 19:04	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/27/22 08:32	01/27/22 19:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130	01/27/22 08:32	01/27/22 19:04	1
o-Terphenyl	129		70 - 130	01/27/22 08:32	01/27/22 19:04	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	11.3	*-	4.99	mg/Kg			01/31/22 14:33	1

Client Sample ID: BH04

Lab Sample ID: 890-1867-7

Date Collected: 01/24/22 11:00

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 17:28	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 17:28	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 17:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/26/22 07:25	01/26/22 17:28	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 17:28	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/26/22 07:25	01/26/22 17:28	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/26/22 07:25	01/26/22 17:28	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

Client Sample ID: BH04

Lab Sample ID: 890-1867-7

Date Collected: 01/24/22 11:00

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 0.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	105		70 - 130	01/26/22 07:25	01/26/22 17:28	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	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		01/27/22 08:32	01/27/22 19:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 19:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 19:26	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	118		70 - 130			01/27/22 08:32	01/27/22 19:26	1
o-Terphenyl	128		70 - 130			01/27/22 08:32	01/27/22 19:26	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	140	*-	5.05	mg/Kg			01/31/22 14:44	1

Client Sample ID: BH04A

Lab Sample ID: 890-1867-8

Date Collected: 01/24/22 11:04

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 17:49	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 17:49	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 17:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/26/22 07:25	01/26/22 17:49	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/26/22 07:25	01/26/22 17:49	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/26/22 07:25	01/26/22 17:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130	01/26/22 07:25	01/26/22 17:49	1
1,4-Difluorobenzene (Surr)	80		70 - 130	01/26/22 07:25	01/26/22 17:49	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## Client Sample ID: BH04A

Lab Sample ID: 890-1867-8

Date Collected: 01/24/22 11:04

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 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		01/27/22 08:32	01/27/22 20:00	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 20:00	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 20:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	129		70 - 130			01/27/22 08:32	01/27/22 20:00	1
o-Terphenyl	148	S1+	70 - 130			01/27/22 08:32	01/27/22 20:00	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	282		4.98	mg/Kg			01/27/22 16:58	1

## Client Sample ID: BH05

Lab Sample ID: 890-1867-9

Date Collected: 01/24/22 11:12

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 18:09	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 18:09	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 18:09	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/26/22 07:25	01/26/22 18:09	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 18:09	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/26/22 07:25	01/26/22 18:09	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130			01/26/22 07:25	01/26/22 18:09	1
1,4-Difluorobenzene (Surr)	106		70 - 130			01/26/22 07:25	01/26/22 18:09	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	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		01/27/22 08:32	01/27/22 20:20	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 20:20	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 20:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	136	S1+	70 - 130			01/27/22 08:32	01/27/22 20:20	1
o-Terphenyl	165	S1+	70 - 130			01/27/22 08:32	01/27/22 20:20	1

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## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## Client Sample ID: BH05

Lab Sample ID: 890-1867-9

Date Collected: 01/24/22 11:12

Matrix: Solid

Date Received: 01/24/22 16:36

Sample Depth: 0.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	19.9		4.95	mg/Kg			01/27/22 17:05	1

## Client Sample ID: BH05A

Lab Sample ID: 890-1867-10

Date Collected: 01/24/22 11:13

Matrix: Solid

Date Received: 01/24/22 16:36

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		01/26/22 07:25	01/26/22 18:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 18:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 18:30	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		01/26/22 07:25	01/26/22 18:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 18:30	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		01/26/22 07:25	01/26/22 18:30	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	110		70 - 130			01/26/22 07:25	01/26/22 18:30	1
1,4-Difluorobenzene (Surr)	81		70 - 130			01/26/22 07:25	01/26/22 18:30	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399	mg/Kg			01/28/22 14:15	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/27/22 16:17	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		01/27/22 08:32	01/27/22 20:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 20:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 20:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130			01/27/22 08:32	01/27/22 20:41	1
o-Terphenyl	153	S1+	70 - 130			01/27/22 08:32	01/27/22 20:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	18.6		4.97	mg/Kg			01/27/22 17:13	1

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## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## 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)				
890-1866-A-1-A MS	Matrix Spike	108	108				
890-1866-A-1-B MSD	Matrix Spike Duplicate	103	97				
890-1867-1	BH01	145 S1+	127				
890-1867-2	BH01A	118	100				
890-1867-3	BH02	127	112				
890-1867-4	BH02A	107	108				
890-1867-5	BH03	127	95				
890-1867-6	BH03A	116	102				
890-1867-7	BH04	105	105				
890-1867-8	BH04A	105	80				
890-1867-9	BH05	119	106				
890-1867-10	BH05A	110	81				
LCS 880-17744/1-A	Lab Control Sample	95	89				
LCSD 880-17744/2-A	Lab Control Sample Dup	101	104				
MB 880-17744/5-A	Method Blank	109	103				
Surrogate Legend							
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)				
880-10594-A-1-H MS	Matrix Spike	92	83				
880-10594-A-1-I MSD	Matrix Spike Duplicate	87	77				
890-1867-1	BH01	135 S1+	161 S1+				
890-1867-2	BH01A	116	134 S1+				
890-1867-3	BH02	129	152 S1+				
890-1867-4	BH02A	135 S1+	153 S1+				
890-1867-5	BH03	111	116				
890-1867-6	BH03A	118	129				
890-1867-7	BH04	118	128				
890-1867-8	BH04A	129	148 S1+				
890-1867-9	BH05	136 S1+	165 S1+				
890-1867-10	BH05A	132 S1+	153 S1+				
LCS 880-17869/2-A	Lab Control Sample	84	82				
LCSD 880-17869/3-A	Lab Control Sample Dup	78	75				
MB 880-17869/1-A	Method Blank	162 S1+	180 S1+				
Surrogate Legend							
1CO = 1-Chlorooctane							
OTPH = o-Terphenyl							

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

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

Lab Sample ID: MB 880-17744/5-A

Matrix: Solid

Analysis Batch: 17745

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17744

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 10:46	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 10:46	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 10:46	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/26/22 07:25	01/26/22 10:46	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/26/22 07:25	01/26/22 10:46	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/26/22 07:25	01/26/22 10:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/26/22 07:25	01/26/22 10:46	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/26/22 07:25	01/26/22 10:46	1

Lab Sample ID: LCS 880-17744/1-A

Matrix: Solid

Analysis Batch: 17745

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17744

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08925		mg/Kg		89	70 - 130
Toluene	0.100	0.08410		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08085		mg/Kg		81	70 - 130
m-Xylene & p-Xylene	0.200	0.1687		mg/Kg		84	70 - 130
o-Xylene	0.100	0.08470		mg/Kg		85	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	95		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: LCSD 880-17744/2-A

Matrix: Solid

Analysis Batch: 17745

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17744

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	0.100	0.09191		mg/Kg		92	70 - 130	3	35
Toluene	0.100	0.08406		mg/Kg		84	70 - 130	0	35
Ethylbenzene	0.100	0.08261		mg/Kg		83	70 - 130	2	35
m-Xylene & p-Xylene	0.200	0.1708		mg/Kg		85	70 - 130	1	35
o-Xylene	0.100	0.08371		mg/Kg		84	70 - 130	1	35

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

Lab Sample ID: 890-1866-A-1-A MS

Matrix: Solid

Analysis Batch: 17745

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

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

Lab Sample ID: 890-1866-A-1-A MS

Matrix: Solid

Analysis Batch: 17745

Client Sample ID: Matrix Spike

Prep Type: Total/NA

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1,4-Difluorobenzene (Surr)	108		70 - 130

Lab Sample ID: 890-1866-A-1-B MSD

Matrix: Solid

Analysis Batch: 17745

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	103		70 - 130
1,4-Difluorobenzene (Surr)	97		70 - 130

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

Lab Sample ID: MB 880-17869/1-A

Matrix: Solid

Analysis Batch: 17883

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17869

	MB	MB							
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 11:24	1	
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 11:24	1	
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/27/22 08:32	01/27/22 11:24	1	
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	162	S1+	70 - 130			01/27/22 08:32	01/27/22 11:24	1	
o-Terphenyl	180	S1+	70 - 130			01/27/22 08:32	01/27/22 11:24	1	

Lab Sample ID: LCS 880-17869/2-A

Matrix: Solid

Analysis Batch: 17883

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17869

	Spike	LCS	LCS					%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics (GRO)-C6-C10	1000	1128		mg/Kg		113	70 - 130		
Diesel Range Organics (Over C10-C28)	1000	854.6		mg/Kg		85	70 - 130		
	LCS	LCS							
Surrogate	%Recovery	Qualifier	Limits						
1-Chlorooctane	84		70 - 130						
o-Terphenyl	82		70 - 130						

Lab Sample ID: LCSD 880-17869/3-A

Matrix: Solid

Analysis Batch: 17883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17869

	Spike	LCSD	LCSD					%Rec.	RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1147		mg/Kg		115	70 - 130	2	20

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

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

Lab Sample ID: LCSD 880-17869/3-A

Matrix: Solid

Analysis Batch: 17883

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17869

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Diesel Range Organics (Over C10-C28)	1000	809.5		mg/Kg		81	70 - 130	5	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
1-Chlorooctane	78		70 - 130
o-Terphenyl	75		70 - 130

Lab Sample ID: 880-10594-A-1-H MS

Matrix: Solid

Analysis Batch: 17883

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17869

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	1224		mg/Kg		119	70 - 130		
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1254		mg/Kg		126	70 - 130		

Surrogate	MS %Recovery	MS Qualifier	Limits
1-Chlorooctane	92		70 - 130
o-Terphenyl	83		70 - 130

Lab Sample ID: 880-10594-A-1-I MSD

Matrix: Solid

Analysis Batch: 17883

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17869

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	1221		mg/Kg		119	70 - 130	0	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1180		mg/Kg		118	70 - 130	6	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1-Chlorooctane	87		70 - 130
o-Terphenyl	77		70 - 130

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17771/1-A

Matrix: Solid

Analysis Batch: 17923

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			01/31/22 08:49	1

Lab Sample ID: LCS 880-17771/2-A

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Chloride	250	234.5		mg/Kg		94	90 - 110		

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCSD 880-17771/3-A

Matrix: Solid

Analysis Batch: 17923

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	223.0	*-	mg/Kg		89	90 - 110	5	20

Lab Sample ID: 890-1864-A-18-C MS

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.19	*-	250	252.8		mg/Kg		98	90 - 110		

Lab Sample ID: 890-1864-A-18-D MSD

Matrix: Solid

Analysis Batch: 17923

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	8.19	*-	250	239.9		mg/Kg		93	90 - 110	5	20

Lab Sample ID: MB 880-17944/1-A

Matrix: Solid

Analysis Batch: 17946

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			01/27/22 14:48	1

Lab Sample ID: LCS 880-17944/2-A

Matrix: Solid

Analysis Batch: 17946

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	273.9		mg/Kg		110	90 - 110		

Lab Sample ID: LCSD 880-17944/3-A

Matrix: Solid

Analysis Batch: 17946

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	273.6		mg/Kg		109	90 - 110	0	20

Lab Sample ID: 880-10422-A-20-B MS

Matrix: Solid

Analysis Batch: 17946

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	240		248	506.7		mg/Kg		108	90 - 110		

Lab Sample ID: 880-10422-A-20-C MSD

Matrix: Solid

Analysis Batch: 17946

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	240		248	499.0		mg/Kg		105	90 - 110	2	20

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## GC VOA

## Prep Batch: 17744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-1	BH01	Total/NA	Solid	5035	
890-1867-2	BH01A	Total/NA	Solid	5035	
890-1867-3	BH02	Total/NA	Solid	5035	
890-1867-4	BH02A	Total/NA	Solid	5035	
890-1867-5	BH03	Total/NA	Solid	5035	
890-1867-6	BH03A	Total/NA	Solid	5035	
890-1867-7	BH04	Total/NA	Solid	5035	
890-1867-8	BH04A	Total/NA	Solid	5035	
890-1867-9	BH05	Total/NA	Solid	5035	
890-1867-10	BH05A	Total/NA	Solid	5035	
MB 880-17744/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17744/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17744/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

## Analysis Batch: 17745

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-1	BH01	Total/NA	Solid	8021B	17744
890-1867-2	BH01A	Total/NA	Solid	8021B	17744
890-1867-3	BH02	Total/NA	Solid	8021B	17744
890-1867-4	BH02A	Total/NA	Solid	8021B	17744
890-1867-5	BH03	Total/NA	Solid	8021B	17744
890-1867-6	BH03A	Total/NA	Solid	8021B	17744
890-1867-7	BH04	Total/NA	Solid	8021B	17744
890-1867-8	BH04A	Total/NA	Solid	8021B	17744
890-1867-9	BH05	Total/NA	Solid	8021B	17744
890-1867-10	BH05A	Total/NA	Solid	8021B	17744
MB 880-17744/5-A	Method Blank	Total/NA	Solid	8021B	17744
LCS 880-17744/1-A	Lab Control Sample	Total/NA	Solid	8021B	17744
LCSD 880-17744/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17744
890-1866-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	
890-1866-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	

## Analysis Batch: 18058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-1	BH01	Total/NA	Solid	Total BTEX	
890-1867-2	BH01A	Total/NA	Solid	Total BTEX	
890-1867-3	BH02	Total/NA	Solid	Total BTEX	
890-1867-4	BH02A	Total/NA	Solid	Total BTEX	
890-1867-5	BH03	Total/NA	Solid	Total BTEX	
890-1867-6	BH03A	Total/NA	Solid	Total BTEX	
890-1867-7	BH04	Total/NA	Solid	Total BTEX	
890-1867-8	BH04A	Total/NA	Solid	Total BTEX	
890-1867-9	BH05	Total/NA	Solid	Total BTEX	
890-1867-10	BH05A	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Prep Batch: 17869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-1	BH01	Total/NA	Solid	8015NM Prep	
890-1867-2	BH01A	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## GC Semi VOA (Continued)

## Prep Batch: 17869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-3	BH02	Total/NA	Solid	8015NM Prep	
890-1867-4	BH02A	Total/NA	Solid	8015NM Prep	
890-1867-5	BH03	Total/NA	Solid	8015NM Prep	
890-1867-6	BH03A	Total/NA	Solid	8015NM Prep	
890-1867-7	BH04	Total/NA	Solid	8015NM Prep	
890-1867-8	BH04A	Total/NA	Solid	8015NM Prep	
890-1867-9	BH05	Total/NA	Solid	8015NM Prep	
890-1867-10	BH05A	Total/NA	Solid	8015NM Prep	
MB 880-17869/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17869/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17869/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10594-A-1-H MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10594-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 17883

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-1	BH01	Total/NA	Solid	8015B NM	17869
890-1867-2	BH01A	Total/NA	Solid	8015B NM	17869
890-1867-3	BH02	Total/NA	Solid	8015B NM	17869
890-1867-4	BH02A	Total/NA	Solid	8015B NM	17869
890-1867-5	BH03	Total/NA	Solid	8015B NM	17869
890-1867-6	BH03A	Total/NA	Solid	8015B NM	17869
890-1867-7	BH04	Total/NA	Solid	8015B NM	17869
890-1867-8	BH04A	Total/NA	Solid	8015B NM	17869
890-1867-9	BH05	Total/NA	Solid	8015B NM	17869
890-1867-10	BH05A	Total/NA	Solid	8015B NM	17869
MB 880-17869/1-A	Method Blank	Total/NA	Solid	8015B NM	17869
LCS 880-17869/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17869
LCSD 880-17869/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17869
880-10594-A-1-H MS	Matrix Spike	Total/NA	Solid	8015B NM	17869
880-10594-A-1-I MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17869

## Analysis Batch: 17951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-1	BH01	Total/NA	Solid	8015 NM	
890-1867-2	BH01A	Total/NA	Solid	8015 NM	
890-1867-3	BH02	Total/NA	Solid	8015 NM	
890-1867-4	BH02A	Total/NA	Solid	8015 NM	
890-1867-5	BH03	Total/NA	Solid	8015 NM	
890-1867-6	BH03A	Total/NA	Solid	8015 NM	
890-1867-7	BH04	Total/NA	Solid	8015 NM	
890-1867-8	BH04A	Total/NA	Solid	8015 NM	
890-1867-9	BH05	Total/NA	Solid	8015 NM	
890-1867-10	BH05A	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 17771

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-1	BH01	Soluble	Solid	DI Leach	
890-1867-2	BH01A	Soluble	Solid	DI Leach	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## HPLC/IC (Continued)

## Leach Batch: 17771 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-3	BH02	Soluble	Solid	DI Leach	
890-1867-4	BH02A	Soluble	Solid	DI Leach	
890-1867-5	BH03	Soluble	Solid	DI Leach	
890-1867-6	BH03A	Soluble	Solid	DI Leach	
890-1867-7	BH04	Soluble	Solid	DI Leach	
MB 880-17771/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17771/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17771/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1864-A-18-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1864-A-18-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 17923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-1	BH01	Soluble	Solid	300.0	17771
890-1867-2	BH01A	Soluble	Solid	300.0	17771
890-1867-3	BH02	Soluble	Solid	300.0	17771
890-1867-4	BH02A	Soluble	Solid	300.0	17771
890-1867-5	BH03	Soluble	Solid	300.0	17771
890-1867-6	BH03A	Soluble	Solid	300.0	17771
890-1867-7	BH04	Soluble	Solid	300.0	17771
MB 880-17771/1-A	Method Blank	Soluble	Solid	300.0	17771
LCS 880-17771/2-A	Lab Control Sample	Soluble	Solid	300.0	17771
LCSD 880-17771/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17771
890-1864-A-18-C MS	Matrix Spike	Soluble	Solid	300.0	17771
890-1864-A-18-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17771

## Leach Batch: 17944

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-8	BH04A	Soluble	Solid	DI Leach	
890-1867-9	BH05	Soluble	Solid	DI Leach	
890-1867-10	BH05A	Soluble	Solid	DI Leach	
MB 880-17944/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17944/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17944/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10422-A-20-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10422-A-20-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 17946

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1867-8	BH04A	Soluble	Solid	300.0	17944
890-1867-9	BH05	Soluble	Solid	300.0	17944
890-1867-10	BH05A	Soluble	Solid	300.0	17944
MB 880-17944/1-A	Method Blank	Soluble	Solid	300.0	17944
LCS 880-17944/2-A	Lab Control Sample	Soluble	Solid	300.0	17944
LCSD 880-17944/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17944
880-10422-A-20-B MS	Matrix Spike	Soluble	Solid	300.0	17944
880-10422-A-20-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17944

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

Client Sample ID: BH01

Lab Sample ID: 890-1867-1

Date Collected: 01/24/22 10:39

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 14:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 17:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 13:33	CH	XEN MID

Client Sample ID: BH01A

Lab Sample ID: 890-1867-2

Date Collected: 01/24/22 10:40

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 14:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 17:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 13:45	CH	XEN MID

Client Sample ID: BH02

Lab Sample ID: 890-1867-3

Date Collected: 01/24/22 10:51

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 15:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 18:02	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 13:57	CH	XEN MID

Client Sample ID: BH02A

Lab Sample ID: 890-1867-4

Date Collected: 01/24/22 10:52

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 16:27	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

## Client Sample ID: BH02A

## Lab Sample ID: 890-1867-4

Date Collected: 01/24/22 10:52

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 18:23	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 14:09	CH	XEN MID

## Client Sample ID: BH03

## Lab Sample ID: 890-1867-5

Date Collected: 01/24/22 10:57

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 16:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 18:43	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 14:21	CH	XEN MID

## Client Sample ID: BH03A

## Lab Sample ID: 890-1867-6

Date Collected: 01/24/22 10:58

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 17:08	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 19:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 14:33	CH	XEN MID

## Client Sample ID: BH04

## Lab Sample ID: 890-1867-7

Date Collected: 01/24/22 11:00

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 17:28	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 19:26	AJ	XEN MID

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## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

Client Sample ID: BH04

Lab Sample ID: 890-1867-7

Date Collected: 01/24/22 11:00

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.95 g	50 mL	17771	01/26/22 10:14	CH	XEN MID
Soluble	Analysis	300.0		1			17923	01/31/22 14:44	CH	XEN MID

Client Sample ID: BH04A

Lab Sample ID: 890-1867-8

Date Collected: 01/24/22 11:04

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 17:49	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 20:00	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17944	01/27/22 14:21	CH	XEN MID
Soluble	Analysis	300.0		1			17946	01/27/22 16:58	CH	XEN MID

Client Sample ID: BH05

Lab Sample ID: 890-1867-9

Date Collected: 01/24/22 11:12

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 18:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 20:20	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17944	01/27/22 14:30	CH	XEN MID
Soluble	Analysis	300.0		1			17946	01/27/22 17:05	CH	XEN MID

Client Sample ID: BH05A

Lab Sample ID: 890-1867-10

Date Collected: 01/24/22 11:13

Matrix: Solid

Date Received: 01/24/22 16:36

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17744	01/26/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17745	01/26/22 18:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:17	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17869	01/27/22 08:32	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17883	01/27/22 20:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17944	01/27/22 14:30	CH	XEN MID
Soluble	Analysis	300.0		1			17946	01/27/22 17:13	CH	XEN MID

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Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

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

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Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

Laboratory: Eurofins Midland

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

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

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

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

## Method Summary

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

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

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

## Sample Summary

Client: WSP USA Inc.  
Project/Site: Trinity Burrus Unit #016

Job ID: 890-1867-1  
SDG: 31403471.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1867-1	BH01	Solid	01/24/22 10:39	01/24/22 16:36	0.5
890-1867-2	BH01A	Solid	01/24/22 10:40	01/24/22 16:36	1
890-1867-3	BH02	Solid	01/24/22 10:51	01/24/22 16:36	0.5
890-1867-4	BH02A	Solid	01/24/22 10:52	01/24/22 16:36	1
890-1867-5	BH03	Solid	01/24/22 10:57	01/24/22 16:36	0.5
890-1867-6	BH03A	Solid	01/24/22 10:58	01/24/22 16:36	1
890-1867-7	BH04	Solid	01/24/22 11:00	01/24/22 16:36	0.5
890-1867-8	BH04A	Solid	01/24/22 11:04	01/24/22 16:36	1
890-1867-9	BH05	Solid	01/24/22 11:12	01/24/22 16:36	0.5
890-1867-10	BH05A	Solid	01/24/22 11:13	01/24/22 16:36	1



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

## Chain of Custody

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

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

Project Manager:	Kalei Jennings	Bill to: (if different)	
Company Name:	WSP USA Inc., Permian office	Company Name:	
Address:	3300 North A St. Bldg 1, Unit 222	Address:	
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM
Phone:	(432) 704-5178	Email:	travis.casey@wsp.com, kalei.jennings@wsp.com, dan.moir@wsp.com

<b>Program:</b> UST/ST <input type="checkbox"/> RP <input type="checkbox"/> Rowfields <input type="checkbox"/> RC <input type="checkbox"/> Superfund <input type="checkbox"/> <b>State of Project:</b> NM <b>Reporting Level:</b> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> T/UST <input type="checkbox"/> RP <input type="checkbox"/> Level IV <input type="checkbox"/> <b>Deliverables:</b> EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____		<b>Work Order Comments</b>
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Project Name:	Trinity Burrus Unit #016	Turn Around	
Project Number:	31403471.004	Routine X	
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

<b>SAMPLE RECEIPT</b>	Temp Blank:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Wet Ice:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Temperature (°C):	1.6	Thermometer ID		
Received In tact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Correction Factor:	-0.2	
Cooler Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Total Containers:		
Sample Custody Seals:	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			



890-1867 Chain of Custody

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	ANALYSIS REQUEST																Work Order Notes			
BH01	S	1/24/2022	10:39	0.5	1	X	X	X	X															
BH01A	S	1/25/2022	10:40	1	1	X	X	X	X															
BH02	S	1/25/2022	10:51	0.5	1	X	X	X	X															
BH02A	S	1/27/2022	10:52	1	1	X	X	X	X															
BH03	S	1/28/2022	10:57	0.5	1	X	X	X	X															
BH03A	S	1/29/2022	10:58	1	1	X	X	X	X															
BH04	S	1/30/2022	11:00	0.5	1	X	X	X	X															
BH04A	S	1/31/2022	11:04	1	1	X	X	X	X															
BH05	S	2/1/2022	11:12	0.5	1	X	X	X	X															
BH05A	S	2/1/2022	11:13	1	1	X	X	X	X															

<b>Total 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 Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn
<b>Circle Method(s) and Metal(s) to be analyzed</b>	<b>TCLP / SPLP 6010:</b>	8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Ti U	1631 / 245.1 / 7470 / 7471 : Hg

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

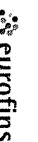
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
		1/24/22 4:36			

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## Eurofins Carlsbad

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

## Chain of Custody Record



Environment Testing  
America

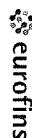
<b>Client Information (Sub Contract Lab)</b>		Sampler	Lab PM:	Carmer Tracking No(s):	COC No:																																																																																																				
Client Contact:	Phone:	Kramer, Jessica			890-800-1																																																																																																				
Shipping/Receiving	E-Mail:	jessica.kramer@eurofinsnet.com	State of Origin:	New Mexico	Page 1 of 2																																																																																																				
Company:	Accreditations Required (See note):	NE LAP - Louisiana, NE LAP - Texas	Job #:	890-1867-1																																																																																																					
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Trinity Burrus Unit #016	SSOW#:																																																																																																								
Site:																																																																																																									
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BH02 (890-1867-3)	1/24/22	10 51	Mountain	Solid	X	X	X	X	1																																																																																																
BH02A (890-1867-4)	1/24/22	10 52	Mountain	Solid	X	X	X	X	1																																																																																																
BH03 (890-1867-5)	1/24/22	10 57	Mountain	Solid	X	X	X	X	1																																																																																																
BH03A (890-1867-6)	1/24/22	10 58	Mountain	Solid	X	X	X	X	1																																																																																																
BH04 (890-1867-7)	1/24/22	11 00	Mountain	Solid	X	X	X	X	1																																																																																																
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<p>Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central, LLC places the ownership of method, analyte &amp; accreditation compliance upon out subcontracted laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/testing/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central, LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins Environment Testing South Central, LLC.</p>																																																																																																									
<p><b>Possible Hazard Identification</b></p> <p>Unconfirmed</p> <p>Deliverable Requested I II III IV, Other (Specify) _____</p> <p>Primary Deliverable Rank 2</p> <p>Special Instructions/QC Requirements.</p> <p>Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)</p> <p><input type="checkbox"/> Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months</p>																																																																																																									
<p>Empty Kit Relinquished by _____ Date _____</p> <p>Relinquished by _____ Date/Time _____ Company _____</p> <p>Relinquished by _____ Date/Time _____ Company _____</p> <p>Relinquished by _____ Date/Time _____ Company _____</p> <p>Custody Seals Intact: _____ Custody Seal No _____</p> <p>Δ Yes Δ No</p> <p>Cooler Temperature(s) °C and Other Remarks: 3.0/3.7</p>																																																																																																									



## Eurofins Carlsbad

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

## Chain of Custody Record



## Environment Testing America

[illegible]

## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1867-1

SDG Number: 31403471.004

Login Number: 1867

List Number: 1

Creator: Olivas, Nathaniel

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: 890-1867-1

SDG Number: 31403471.004

Login Number: 1867

List Number: 2

Creator: Kramer, Jessica

List Source: Eurofins Midland

List Creation: 01/26/22 11:25 AM

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





## Environment Testing America

### ANALYTICAL REPORT

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

Laboratory Job ID: 880-11802-1

Laboratory Sample Delivery Group: 33.2624321, -103.0739899

Client Project/Site: Trinity Bumás A60 Unit #16

**For:**

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

Attn: Kalei Jennings

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

Authorized for release by:  
3/8/2022 12:28:26 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: Trinity Burnas A60 Unit #16

Laboratory Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

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## Definitions/Glossary

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

## Qualifiers

## GC VOA

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

## GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

## HPLC/IC

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

## Glossary

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

**Case Narrative**

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

**Job ID: 880-11802-1****Laboratory: Eurofins Midland****Narrative****Job Narrative  
880-11802-1****Receipt**

The samples were received on 3/1/2022 8:51 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.2°C

**GC VOA**

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

**GC Semi VOA**

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: FS01 (880-11802-1) and FS02 (880-11802-2). Evidence of matrix interferences is not obvious.

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

**HPLC/IC**

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: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

Client Sample ID: FS01

Lab Sample ID: 880-11802-1

Date Collected: 02/28/22 12:27

Matrix: Solid

Date Received: 03/01/22 08:51

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/04/22 16:00	03/05/22 00:09	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/04/22 16:00	03/05/22 00:09	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/04/22 16:00	03/05/22 00:09	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/04/22 16:00	03/05/22 00:09	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/04/22 16:00	03/05/22 00:09	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/04/22 16:00	03/05/22 00:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/04/22 16:00	03/05/22 00:09	1
1,4-Difluorobenzene (Surr)	98		70 - 130	03/04/22 16:00	03/05/22 00:09	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/06/22 20:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/03/22 10:15	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 *1	49.9	mg/Kg		03/02/22 15:27	03/03/22 06:19	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/02/22 15:27	03/03/22 06:19	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/02/22 15:27	03/03/22 06:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	131	S1+	70 - 130	03/02/22 15:27	03/03/22 06:19	1
o-Terphenyl	135	S1+	70 - 130	03/02/22 15:27	03/03/22 06:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	530		4.97	mg/Kg			03/07/22 16:45	1

Client Sample ID: FS02

Lab Sample ID: 880-11802-2

Date Collected: 02/28/22 12:31

Matrix: Solid

Date Received: 03/01/22 08:51

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/22 16:00	03/05/22 00:30	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/22 16:00	03/05/22 00:30	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/22 16:00	03/05/22 00:30	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/04/22 16:00	03/05/22 00:30	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/04/22 16:00	03/05/22 00:30	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/04/22 16:00	03/05/22 00:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130	03/04/22 16:00	03/05/22 00:30	1

Eurofins Midland

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

Client Sample ID: FS02

Lab Sample ID: 880-11802-2

Date Collected: 02/28/22 12:31

Matrix: Solid

Date Received: 03/01/22 08:51

Sample Depth: 1.5

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	97		70 - 130	03/04/22 16:00	03/05/22 00:30	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/06/22 20:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			03/03/22 10:15	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 *1	49.9	mg/Kg		03/02/22 15:27	03/03/22 06:40	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		03/02/22 15:27	03/03/22 06:40	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/02/22 15:27	03/03/22 06:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	117		70 - 130			03/02/22 15:27	03/03/22 06:40	1
o-Terphenyl	119		70 - 130			03/02/22 15:27	03/03/22 06:40	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	421		4.98	mg/Kg			03/07/22 16:51	1

Client Sample ID: FS03

Lab Sample ID: 880-11802-3

Date Collected: 02/28/22 13:36

Matrix: Solid

Date Received: 03/01/22 08:51

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		03/04/22 16:00	03/05/22 00:50	1
Toluene	<0.00202	U	0.00202	mg/Kg		03/04/22 16:00	03/05/22 00:50	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		03/04/22 16:00	03/05/22 00:50	1
m-Xylene & p-Xylene	<0.00404	U	0.00404	mg/Kg		03/04/22 16:00	03/05/22 00:50	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		03/04/22 16:00	03/05/22 00:50	1
Xylenes, Total	<0.00404	U	0.00404	mg/Kg		03/04/22 16:00	03/05/22 00:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130	03/04/22 16:00	03/05/22 00:50	1
1,4-Difluorobenzene (Surr)	97		70 - 130	03/04/22 16:00	03/05/22 00:50	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00404	U	0.00404	mg/Kg			03/06/22 20:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/03/22 10:15	1

Eurofins Midland

## Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

## Client Sample ID: FS03

## Lab Sample ID: 880-11802-3

Date Collected: 02/28/22 13:36

Matrix: Solid

Date Received: 03/01/22 08:51

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1	50.0	mg/Kg		03/02/22 15:27	03/03/22 07:01	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/02/22 15:27	03/03/22 07:01	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/02/22 15:27	03/03/22 07:01	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130			03/02/22 15:27	03/03/22 07:01	1
o-Terphenyl	111		70 - 130			03/02/22 15:27	03/03/22 07:01	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	359		4.97	mg/Kg			03/07/22 16:57	1

## Client Sample ID: FS04

## Lab Sample ID: 880-11802-4

Date Collected: 02/28/22 12:41

Matrix: Solid

Date Received: 03/01/22 08:51

Sample Depth: 1.5

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/22 16:00	03/05/22 01:11	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/22 16:00	03/05/22 01:11	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/22 16:00	03/05/22 01:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/04/22 16:00	03/05/22 01:11	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/04/22 16:00	03/05/22 01:11	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/04/22 16:00	03/05/22 01:11	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/04/22 16:00	03/05/22 01:11	1
1,4-Difluorobenzene (Surr)	98		70 - 130			03/04/22 16:00	03/05/22 01:11	1

## Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00401	U	0.00401	mg/Kg			03/06/22 20:58	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			03/03/22 10:15	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 *1	50.0	mg/Kg		03/02/22 15:27	03/03/22 07:21	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/02/22 15:27	03/03/22 07:21	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/02/22 15:27	03/03/22 07:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	113		70 - 130			03/02/22 15:27	03/03/22 07:21	1
o-Terphenyl	116		70 - 130			03/02/22 15:27	03/03/22 07:21	1

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Client Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

Client Sample ID: FS04  
Date Collected: 02/28/22 12:41  
Date Received: 03/01/22 08:51  
Sample Depth: 1.5

Lab Sample ID: 880-11802-4  
Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Chloride	395		5.00	mg/Kg			03/07/22 17:03	1	

## Surrogate Summary

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-11802-1	FS01	104	98
880-11802-2	FS02	102	97
880-11802-3	FS03	103	97
880-11802-4	FS04	107	98
880-11985-A-1-C MS	Matrix Spike	100	102
880-11985-A-1-D MSD	Matrix Spike Duplicate	99	101
LCS 880-20798/1-A	Lab Control Sample	102	102
LCSD 880-20798/2-A	Lab Control Sample Dup	99	101
MB 880-20668/5-A	Method Blank	104	95
MB 880-20798/5-A	Method Blank	97	94

## Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
Lab Sample ID	Client Sample ID	1CO1 (70-130)	OTPH1 (70-130)
880-11802-1	FS01	131 S1+	135 S1+
880-11802-2	FS02	117	119
880-11802-3	FS03	108	111
880-11802-4	FS04	113	116
880-11895-A-1-D MS	Matrix Spike	108	101
880-11895-A-1-E MSD	Matrix Spike Duplicate	114	107
LCS 880-20708/2-A	Lab Control Sample	114	105
LCSD 880-20708/3-A	Lab Control Sample Dup	123	114
MB 880-20708/1-A	Method Blank	120	127

## Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

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

Lab Sample ID: MB 880-20668/5-A

Matrix: Solid

Analysis Batch: 20854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20668

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/04/22 07:45	03/04/22 11:31	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/04/22 07:45	03/04/22 11:31	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/04/22 07:45	03/04/22 11:31	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/04/22 07:45	03/04/22 11:31	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/04/22 07:45	03/04/22 11:31	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/04/22 07:45	03/04/22 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	03/04/22 07:45	03/04/22 11:31	1
1,4-Difluorobenzene (Surr)	95		70 - 130	03/04/22 07:45	03/04/22 11:31	1

Lab Sample ID: MB 880-20798/5-A

Matrix: Solid

Analysis Batch: 20854

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20798

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/03/22 16:00	03/04/22 22:26	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/03/22 16:00	03/04/22 22:26	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/03/22 16:00	03/04/22 22:26	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/03/22 16:00	03/04/22 22:26	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/03/22 16:00	03/04/22 22:26	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		03/03/22 16:00	03/04/22 22:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		70 - 130	03/03/22 16:00	03/04/22 22:26	1
1,4-Difluorobenzene (Surr)	94		70 - 130	03/03/22 16:00	03/04/22 22:26	1

Lab Sample ID: LCS 880-20798/1-A

Matrix: Solid

Analysis Batch: 20854

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20798

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	0.1072		mg/Kg		107	70 - 130
Ethylbenzene	0.100	0.1029		mg/Kg		103	70 - 130
m-Xylene & p-Xylene	0.200	0.2112		mg/Kg		106	70 - 130
o-Xylene	0.100	0.1033		mg/Kg		103	70 - 130

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

Lab Sample ID: LCSD 880-20798/2-A

Matrix: Solid

Analysis Batch: 20854

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20798

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.1057		mg/Kg		106	70 - 130	5	35

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

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

Lab Sample ID: LCSD 880-20798/2-A

Matrix: Solid

Analysis Batch: 20854

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20798

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene	0.100	0.1010		mg/Kg		101	70 - 130	6	35
Ethylbenzene	0.100	0.09622		mg/Kg		96	70 - 130	7	35
m-Xylene & p-Xylene	0.200	0.1979		mg/Kg		99	70 - 130	7	35
o-Xylene	0.100	0.09729		mg/Kg		97	70 - 130	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

Lab Sample ID: 880-11985-A-1-C MS

Matrix: Solid

Analysis Batch: 20854

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20798

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00201	U	0.0998	0.1124		mg/Kg		113	70 - 130
Toluene	<0.00201	U	0.0998	0.1082		mg/Kg		108	70 - 130
Ethylbenzene	<0.00201	U	0.0998	0.1038		mg/Kg		104	70 - 130
m-Xylene & p-Xylene	<0.00402	U	0.200	0.2143		mg/Kg		107	70 - 130
o-Xylene	<0.00201	U	0.0998	0.1049		mg/Kg		105	70 - 130

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: 880-11985-A-1-D MSD

Matrix: Solid

Analysis Batch: 20854

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20798

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00201	U	0.0996	0.1039		mg/Kg		104	70 - 130	8	35
Toluene	<0.00201	U	0.0996	0.09983		mg/Kg		100	70 - 130	8	35
Ethylbenzene	<0.00201	U	0.0996	0.09542		mg/Kg		96	70 - 130	8	35
m-Xylene & p-Xylene	<0.00402	U	0.199	0.1967		mg/Kg		99	70 - 130	9	35
o-Xylene	<0.00201	U	0.0996	0.09678		mg/Kg		97	70 - 130	8	35

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

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

Lab Sample ID: MB 880-20708/1-A

Matrix: Solid

Analysis Batch: 20650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20708

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		03/02/22 15:27	03/03/22 03:56	1

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

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

Lab Sample ID: MB 880-20708/1-A

Matrix: Solid

Analysis Batch: 20650

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 20708

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		03/02/22 15:27	03/03/22 03:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/02/22 15:27	03/03/22 03:56	1
Surrogate	MB %Recovery	MB Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130			03/02/22 15:27	03/03/22 03:56	1
o-Terphenyl	127		70 - 130			03/02/22 15:27	03/03/22 03:56	1

Lab Sample ID: LCS 880-20708/2-A

Matrix: Solid

Analysis Batch: 20650

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 20708

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	911.8		mg/Kg		91	70 - 130
Diesel Range Organics (Over C10-C28)	1000	950.5		mg/Kg		95	70 - 130
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1-Chlorooctane	114		70 - 130				
o-Terphenyl	105		70 - 130				

Lab Sample ID: LCSD 880-20708/3-A

Matrix: Solid

Analysis Batch: 20650

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 20708

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	1167	*1	mg/Kg		117	70 - 130	25	20
Diesel Range Organics (Over C10-C28)	1000	1002		mg/Kg		100	70 - 130	5	20
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits						
1-Chlorooctane	123		70 - 130						
o-Terphenyl	114		70 - 130						

Lab Sample ID: 880-11895-A-1-D MS

Matrix: Solid

Analysis Batch: 20650

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 20708

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F1	1000	<50.0	U F1	mg/Kg		-0.4	70 - 130
Diesel Range Organics (Over C10-C28)	<50.0	U F1	1000	<50.0	U F1	mg/Kg		0	70 - 130
Surrogate	MS %Recovery	MS Qualifier	Limits						
1-Chlorooctane	108		70 - 130						
o-Terphenyl	101		70 - 130						

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## QC Sample Results

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

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

Lab Sample ID: 880-11895-A-1-E MSD

Matrix: Solid

Analysis Batch: 20650

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 20708

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<50.0	U *1 F1	998	<49.9	U F1 F2	mg/Kg		0.2	70 - 130	31	20
Diesel Range Organics (Over C10-C28)	<50.0	U F1	998	<49.9	U F1	mg/Kg		0	70 - 130	NC	20
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1-Chlorooctane	114		70 - 130								
o-Terphenyl	107		70 - 130								

## Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-20588/1-A

Matrix: Solid

Analysis Batch: 20893

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			03/07/22 14:27	1

Lab Sample ID: LCS 880-20588/2-A

Matrix: Solid

Analysis Batch: 20893

Client Sample ID: Lab Control Sample

Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloride	250	268.8		mg/Kg		108	90 - 110	

Lab Sample ID: LCSD 880-20588/3-A

Matrix: Solid

Analysis Batch: 20893

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	238.7		mg/Kg		95	90 - 110	12	20

Lab Sample ID: 880-11799-A-52-E MS

Matrix: Solid

Analysis Batch: 20893

Client Sample ID: Matrix Spike

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
Chloride	433		249	677.0		mg/Kg		98	90 - 110	

Lab Sample ID: 880-11799-A-52-F MSD

Matrix: Solid

Analysis Batch: 20893

Client Sample ID: Matrix Spike Duplicate

Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	433		249	660.4		mg/Kg		91	90 - 110	2	20

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

## GC VOA

## Prep Batch: 20668

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-20668/5-A	Method Blank	Total/NA	Solid	5035	

## Prep Batch: 20798

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-1	FS01	Total/NA	Solid	5035	
880-11802-2	FS02	Total/NA	Solid	5035	
880-11802-3	FS03	Total/NA	Solid	5035	
880-11802-4	FS04	Total/NA	Solid	5035	
MB 880-20798/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-20798/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-20798/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-11985-A-1-C MS	Matrix Spike	Total/NA	Solid	5035	
880-11985-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

## Analysis Batch: 20854

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-1	FS01	Total/NA	Solid	8021B	20798
880-11802-2	FS02	Total/NA	Solid	8021B	20798
880-11802-3	FS03	Total/NA	Solid	8021B	20798
880-11802-4	FS04	Total/NA	Solid	8021B	20798
MB 880-20668/5-A	Method Blank	Total/NA	Solid	8021B	20668
MB 880-20798/5-A	Method Blank	Total/NA	Solid	8021B	20798
LCS 880-20798/1-A	Lab Control Sample	Total/NA	Solid	8021B	20798
LCSD 880-20798/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	20798
880-11985-A-1-C MS	Matrix Spike	Total/NA	Solid	8021B	20798
880-11985-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	20798

## Analysis Batch: 20995

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-1	FS01	Total/NA	Solid	Total BTEX	
880-11802-2	FS02	Total/NA	Solid	Total BTEX	
880-11802-3	FS03	Total/NA	Solid	Total BTEX	
880-11802-4	FS04	Total/NA	Solid	Total BTEX	

## GC Semi VOA

## Analysis Batch: 20650

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-1	FS01	Total/NA	Solid	8015B NM	20708
880-11802-2	FS02	Total/NA	Solid	8015B NM	20708
880-11802-3	FS03	Total/NA	Solid	8015B NM	20708
880-11802-4	FS04	Total/NA	Solid	8015B NM	20708
MB 880-20708/1-A	Method Blank	Total/NA	Solid	8015B NM	20708
LCS 880-20708/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	20708
LCSD 880-20708/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	20708
880-11895-A-1-D MS	Matrix Spike	Total/NA	Solid	8015B NM	20708
880-11895-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	20708

## Prep Batch: 20708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-1	FS01	Total/NA	Solid	8015NM Prep	

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## QC Association Summary

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

## GC Semi VOA (Continued)

## Prep Batch: 20708 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-2	FS02	Total/NA	Solid	8015NM Prep	
880-11802-3	FS03	Total/NA	Solid	8015NM Prep	
880-11802-4	FS04	Total/NA	Solid	8015NM Prep	
MB 880-20708/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-20708/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-20708/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-11895-A-1-D MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-11895-A-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

## Analysis Batch: 20794

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-1	FS01	Total/NA	Solid	8015 NM	
880-11802-2	FS02	Total/NA	Solid	8015 NM	
880-11802-3	FS03	Total/NA	Solid	8015 NM	
880-11802-4	FS04	Total/NA	Solid	8015 NM	

## HPLC/IC

## Leach Batch: 20588

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-1	FS01	Soluble	Solid	DI Leach	
880-11802-2	FS02	Soluble	Solid	DI Leach	
880-11802-3	FS03	Soluble	Solid	DI Leach	
880-11802-4	FS04	Soluble	Solid	DI Leach	
MB 880-20588/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-20588/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-20588/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-11799-A-52-E MS	Matrix Spike	Soluble	Solid	DI Leach	
880-11799-A-52-F MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

## Analysis Batch: 20893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-11802-1	FS01	Soluble	Solid	300.0	20588
880-11802-2	FS02	Soluble	Solid	300.0	20588
880-11802-3	FS03	Soluble	Solid	300.0	20588
880-11802-4	FS04	Soluble	Solid	300.0	20588
MB 880-20588/1-A	Method Blank	Soluble	Solid	300.0	20588
LCS 880-20588/2-A	Lab Control Sample	Soluble	Solid	300.0	20588
LCSD 880-20588/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	20588
880-11799-A-52-E MS	Matrix Spike	Soluble	Solid	300.0	20588
880-11799-A-52-F MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	20588

## Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

Client Sample ID: FS01

Lab Sample ID: 880-11802-1

Date Collected: 02/28/22 12:27

Matrix: Solid

Date Received: 03/01/22 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	20798	03/04/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20854	03/05/22 00:09	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20995	03/06/22 20:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20794	03/03/22 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	20708	03/02/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20650	03/03/22 06:19	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20588	03/01/22 09:46	SC	XEN MID
Soluble	Analysis	300.0		1			20893	03/07/22 16:45	CH	XEN MID

Client Sample ID: FS02

Lab Sample ID: 880-11802-2

Date Collected: 02/28/22 12:31

Matrix: Solid

Date Received: 03/01/22 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	20798	03/04/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20854	03/05/22 00:30	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20995	03/06/22 20:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20794	03/03/22 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	20708	03/02/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20650	03/03/22 06:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	20588	03/01/22 09:46	SC	XEN MID
Soluble	Analysis	300.0		1			20893	03/07/22 16:51	CH	XEN MID

Client Sample ID: FS03

Lab Sample ID: 880-11802-3

Date Collected: 02/28/22 13:36

Matrix: Solid

Date Received: 03/01/22 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.95 g	5 mL	20798	03/04/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20854	03/05/22 00:50	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20995	03/06/22 20:58	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			20794	03/03/22 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	20708	03/02/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20650	03/03/22 07:01	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	20588	03/01/22 09:46	SC	XEN MID
Soluble	Analysis	300.0		1			20893	03/07/22 16:57	CH	XEN MID

Client Sample ID: FS04

Lab Sample ID: 880-11802-4

Date Collected: 02/28/22 12:41

Matrix: Solid

Date Received: 03/01/22 08:51

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	20798	03/04/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	20854	03/05/22 01:11	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			20995	03/06/22 20:58	AJ	XEN MID

Eurofins Midland

Lab Chronicle

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

Client Sample ID: FS04

Date Collected: 02/28/22 12:41

Date Received: 03/01/22 08:51

Lab Sample ID: 880-11802-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			20794	03/03/22 10:15	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	20708	03/02/22 15:27	DM	XEN MID
Total/NA	Analysis	8015B NM		1			20650	03/03/22 07:21	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	20588	03/01/22 09:46	SC	XEN MID
Soluble	Analysis	300.0		1			20893	03/07/22 17:03	CH	XEN MID

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

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Accreditation/Certification Summary

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

Laboratory: Eurofins Midland

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

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

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

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

## Method Summary

Client: WSP USA Inc.

Job ID: 880-11802-1

Project/Site: Trinity Bumas A60 Unit #16

SDG: 33.2624321, -103.0739899

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

**Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

**Laboratory References:**

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

Eurofins Midland

Sample Summary

Client: WSP USA Inc.  
Project/Site: Trinity Bumas A60 Unit #16

Job ID: 880-11802-1  
SDG: 33.2624321, -103.0739899

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
880-11802-1	FS01	Solid	02/28/22 12:27	03/01/22 08:51	1.5
880-11802-2	FS02	Solid	02/28/22 12:31	03/01/22 08:51	1.5
880-11802-3	FS03	Solid	02/28/22 13:36	03/01/22 08:51	1.5
880-11802-4	FS04	Solid	02/28/22 12:41	03/01/22 08:51	1.5

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## Chain of Custody

Work Order No: 11802

Houston TX (281) 240-4200 Dallas TX (214) 902-0300 San Antonio TX (210) 508-3334  
 Midland TX (432) 704-5440 El Paso, TX (915) 585-3443 Lubbock TX (806) 794-1296  
 Hobbs NM (575) 392-7550 Carlsbad NM (575) 988-3199 Phoenix AZ (480) 355-0900  
 Tampa FL (813) 620-2000 Tallahassee FL (850) 756-0747 Delray Beach FL (561) 689-6701  
 Atlanta GA (770) 449-8800

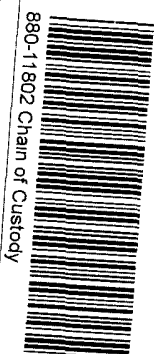
www.xenco.com Page of

Project Manager	Kalei Jennings	Bill to (if different)	Kalei Jennings
Company Name	WSP USA Inc	Company Name	WSP USA Inc
Address	3300 North Ave, Bldg 1, Unit 222	Address	
City State ZIP	Midland, TX 79705	City State ZIP	
Phone	817-693-2503	Email	Kalei.Jennings@wsp-usa.com

Project Name	Trinity Burns Auto Unit #110	Turn Around	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush
Project Number	31403471.003		
Project Location	33.7624871, -103.079899		
Sampler's Name	Hadlu Green	Due Date	5 DAY
PO #			

SAMPLE RECEIPT	Temp Blank	Yes	No	Wet Ice	Yes	No
Temperature (°C)	43/42			Thermometer ID		
Received Intact	Yes	No		Correction Factor		
Cooler Custody Seals	Yes	No				
Sample Custody Seals	Yes	No		Total Containers	-1	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers/Preservative Code
F501	SL	2-28-22	12:27	1.5	1 X BTEX (EPA 0-4021)
F502			12:31	1.5	1 X TPH (EPA 9005)
F503			12:36	1.5	1 X CHLORIDES (EPA 300)
F504			12:41	1.5	1 X



880-11802 Chain of Custody

Sample Comments

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

Preservative Codes

HNO3 HN  
 H2SO4 H2  
 HCL HL  
 None NO  
 NaOH Na  
 MeOH Me  
 Zn Acetate+ NaOH Zn

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 terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.

Relinquished by (Signature)	Received by (Signature)	Date/Time	Relinquished by (Signature)	Received by (Signature)	Date/Time
Hadlu Green	Hadlu Green	3/1/22 8:51			

Revised Date 10/14/19 Rev 2019.1



## Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 880-11802-1

SDG Number: 33.2624321, -103.0739899

Login Number: 11802

List Source: Eurofins Midland

List Number: 1

Creator: Rodriguez, Leticia

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

**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 91942

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 91942
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	6/21/2022