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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Chevron USA Inc.	Contact Josepha DeLeon
Address 6301 Deauville Blvd., Midland, TX 79706	Telephone No. wk: 575-263-0424 cell: 432-425-1528
Facility Name Trinity Burris Abo Unit #25	Facility Type: Oil Well

Surface Owner **Private**	Mineral Owner **Private**	API No. 30-025-36248

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	27	12S	38E	2310	South	330	East	Lea

Latitude 33.248740 Longitude; -103.07677

NATURE OF RELEASE

Type of Release Spill	Volume of Release: 9.22 barrels produced water	Volume Recovered: 8 barrels produced water
Source of Release Injection Strainer	Date and Hour of Occurrence 04/05/2017; 12:00 AM	Date and Hour of Discovery 04/05/2017; 12:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Voicemail: Olivia Yu	
By Whom? Josepha DeLeon	Date and Hour: 04/05/2017; 08:00 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

RECEIVED
By Olivia Yu at 7:38 am, Apr 24, 2017

Describe Cause of Problem and Remedial Action Taken.*

Cracked injection strainer, releasing 9.22 barrels of produced water into a bermed containment.
Recovered 8 barrels produced water.

Describe Area Affected and Cleanup Action Taken.*

Shut lease in. Vacuum truck extracted liquid. Repaired injection strainer.

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: JdeLeon

Printed Name: Josepha DeLeon

Title: HES Compliance Support - Environmental

E-mail Address: jdxd@chevron.com

Date 04/19/2017 Phone: 432-425-1528

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: DY

Approval Date: 4/24/2017 Expiration Date:

Conditions of Approval: see attached directive

Attached ☑

* Attach Additional Sheets If Necessary

1RP-4684 nOY1711428756 pOY1711429637

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _4/20/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4684_ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _5/24/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

● Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

● Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

● Nominal detection limits for field and laboratory analyses must be provided.

● Composite sampling is not generally allowed.

● Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

●Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

● If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

● Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Incident ID	NOY1711428756
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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NOY1711428756
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: Jeffery Tew Date: 2/21/2022

email: jtew@aecnm.com Telephone: 575-623-2999

OCD Only

Received by: _____ Date: _____

Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	NOY1711428756
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Jeffery Tew Title: Operations Engineer

Signature: Jeffery Tew Date: 2/21/2022

email: jtew@aecnm.com Telephone: 575-623-2999

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: Jennifer Nobui 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

February 17, 2022

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

Re: Closure Request
Trinity Burrus Abo Unit #025
Incident Number NOY1711428756
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 and soil sampling activities at the Trinity Burrus Abo Unit #025 (Site) located in Unit I, Section 27, Township 12 South, Range 38 East, in Lea County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of produced water at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, Armstrong is submitting this Closure Request and requesting no further action (NFA) for Incident Number NOY1711428756.

RELEASE BACKGROUND

On April 5, 2017, a crack developed in the injection strainer, resulting in the release of approximately 9.22 barrels (bbls) of produced water into the secondary containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; approximately 8 bbls of produced water were recovered. No released fluids escaped the bermed secondary containment. Chevron USA Inc. (Chevron), the previous owner and operator of the Site, reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form C-141 (Form C-141) on April 17, 2017 and the release was subsequently assigned Incident Number NOY1711428756.

The Site has transferred ownership from Chevron to Armstrong and as a result, Armstrong is completing the necessary site assessment activities to gain closure for the Site. The tank battery has been removed from the Site.

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 New Mexico Office of the State Engineer (NMOSE) well L-03531, located approximately 1,319 feet northwest of the Site. The groundwater well has a reported depth to groundwater of 42 feet bgs and a total depth of 96 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1. When viewed regionally, the Site falls in an area with depth to groundwater less than 50 feet bgs, with one corresponding data point within 0.5 miles of the Site. Data from the other southeastern water well (USGS well 331416103041301) were not included in the depth to water evaluation since the last depth to water measurements were from 1991, and not reflective of current depth to water measurements in the region. The referenced water well records are provided in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is a Freshwater Pond, located approximately 0.4 miles northeast of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (low potential karst designation area). Site receptors are identified on Figure 1.

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

SITE ASSESSMENT AND DELINEATION SOIL SAMPLING ACTIVITIES

On January 21, 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 six boreholes (BH01 though BH06) via hand-auger within the approximate release extent to assess the presence or absence of soil impacts. WSP advanced boreholes BH01 and BH02 within the historical footprint of the tank battery and soil boreholes BH03 through BH06 on each side of the previous tank battery. Two soil samples were collected from each borehole at depths ranging from approximately 0.5-feet bgs to 1-foot bgs before encountering auger refusal due to the presence of well cemented caliche. Soil from the boreholes were field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and

Hach® chloride QuanTab® test strips, respectively. The borehole delineation soil sample locations are depicted on Figure 2. Field screening results and observations from the boreholes were documented on lithologic/soil sampling logs and are included as Attachment 2. The delineation boreholes were backfilled with the soil removed. 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 Eurofins Laboratories (Eurofins) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH- gasoline range organics (GRO), TPH- diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

SOIL ANALYTICAL RESULTS

Laboratory analytical results for delineation soil sample BH01 through BH06, collected at depths ranging from approximately 0.5 feet bgs to 1-foot bgs, indicated benzene, BTEX, , TPH, and chloride concentrations were all compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and depicted on Figure 2. The complete laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

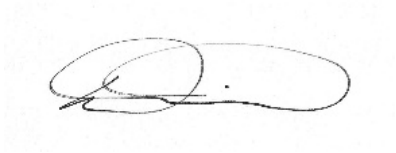
Site assessment and delineation activities were conducted at the Site to address the April 05, 2017, produced water release. Once the release was discovered, Chevron immediately dispatched a vacuum truck to the Site to recover freestanding fluids and remove stained soil. Laboratory analytical results for the January 2022 delineation soil samples indicated benzene, BTEX, TPH, and chloride concentrations were all compliant with the Closure Criteria. With the absence of impacts to soil associate with the 2017 release, no further remediation appears necessary at this time.

Based on initial response efforts, absence of field screening results indicating soil impacts, and delineation soil analytical results compliant with the Closure Criteria , Armstrong respectfully requests NFA for Incident Number NOY1711428756. The finalized version of the Form C-141 is included in Attachment 5.

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

Sincerely,

WSP USA Inc.



Kalei Jennings
Associate Consultant

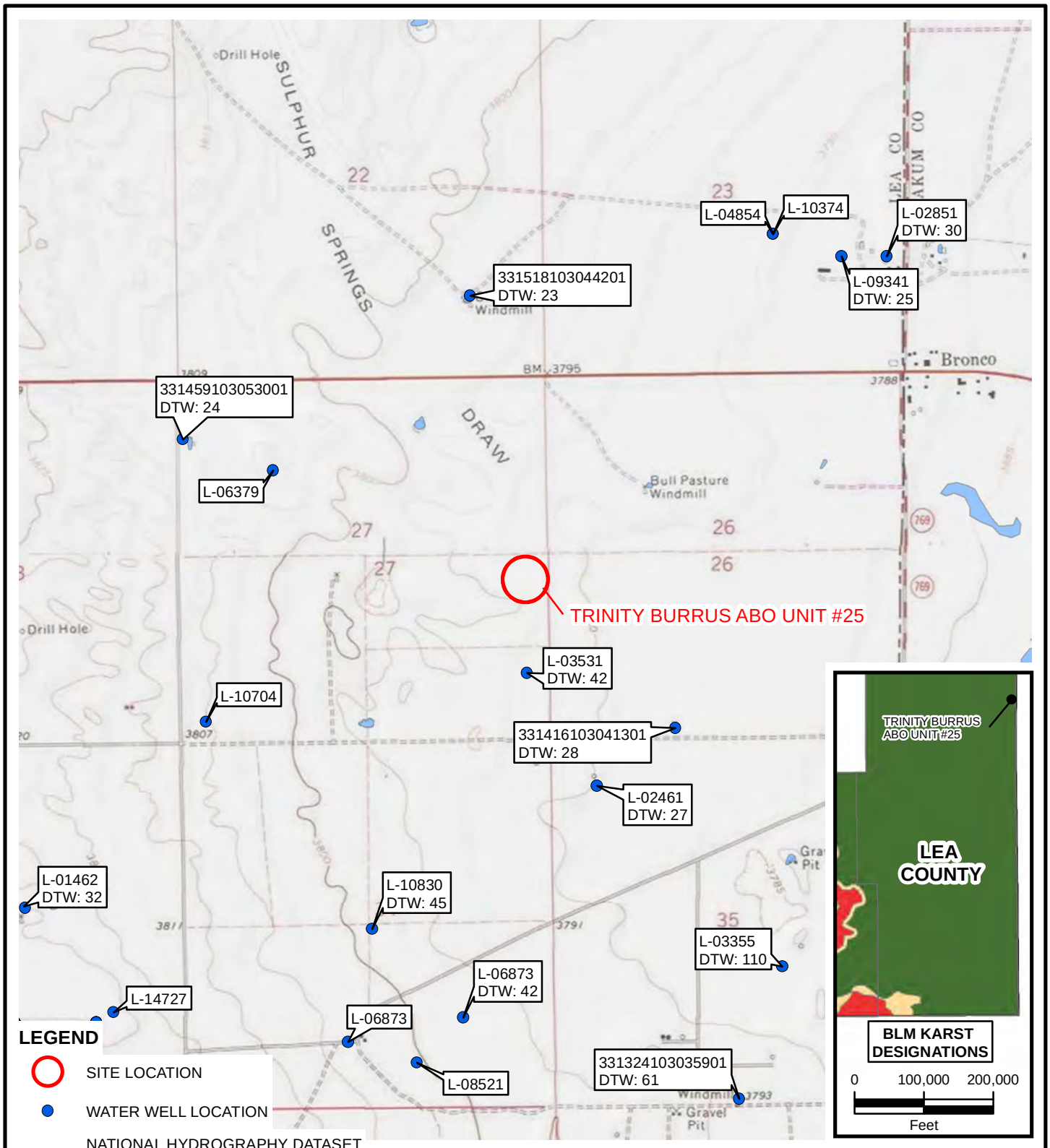
Daniel R. Moir, P.G.
Sr. Lead Consultant, Geologist

cc: Kyle Alpers, Armstrong Energy Corporation

Attachments:

Figure 1	Site Location Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Analytical Results
Attachment 1	Referenced Well Records
Attachment 2	Lithologic/Sampling Logs
Attachment 3	Photographic Log
Attachment 4	Laboratory Analytical Reports
Attachment 5	Final C-141

FIGURES



NOTE: INCIDENT NUMBER NOY1711428756
DTW: DEPTH TO WATER IN FEET
BLM: BUREAU OF LAND MANAGEMENT

FIGURE 1
SITE LOCATION MAP
TRINITY BURRUS ABO UNIT #25
UNIT I SEC 27 T12S R38E
LEA COUNTY, NEW MEXICO
ARMSTRONG ENERGY CORPORATION

P:\Armstrong Energy Corp\GIS\31403471.004_TRINITY BURRUS ABO UNIT #25\MXD\31403471.004_FIG01_SL_RECEPTOR_2022.mxd

IMAGE COURTESY OF ESRI

LEGEND

- DELINTEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA

0 50 100

Feet

N

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
TRINITY BURRUS ABO UNIT #25
UNIT I SEC 27 T12S R38E
LEA COUNTY, NEW MEXICO
ARMSTRONG ENERGY CORPORATION

NOTE: INCIDENT NUMBER NOY1711428756
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

P:\Armstrong Energy Corp\GIS\31403471.004_TRINITY BURRUS ABO UNIT #25\MXD\31403471.004_FIG02_DELINEATION_2022.mxd

TABLES

Table 1

Soil Analytical Results
Trinity Burrus Abo Unit #025
Incident Number NOY1711428756
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Preliminary Soil Samples										
BH01	0.5	01/21/2022	<0.00198	<0.00396	<50.0	<50.0	<50.0	<50.0	<50.0	42.2
BH01A	1	01/21/2022	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	<4.98
BH02	0.5	01/21/2022	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	11.1
BH02A	1	01/21/2022	<0.00200	<0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	8.22
BH03	0.5	01/21/2022	<0.00202	<0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	65.5
BH03A	1	01/21/2022	<0.00200	<0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	59.9
BH04	0.5	01/21/2022	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<5.05
BH04A	1	01/21/2022	<0.00200	<0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	<5.00
BH05	0.5	01/21/2022	<0.00202	<0.00404	<50.0	<50.0	<50.0	<50.0	<50.0	<4.99
BH05A	1	01/21/2022	<0.00202	<0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	<4.98
BH06	0.5	01/21/2022	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	8.8
BH06A	1	01/21/2022	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	9.01

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
< - 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
Greyed data represents samples that were excavated

ATTACHMENT 1: REFERENCED WELL RECORD

New Mexico Office of the State Engineer
Water Right Summary

get image list

WR File Number: L 03531 **Subbasin:** L **Cross Reference:** -

Primary Purpose: PRO 72-12-1 PROSPECTING OR DEVELOPMENT OF NATURAL RESOURCE

Primary Status: PMT PERMIT

Total Acres: **Subfile:** - **Header:** -

Total Diversion: 0 **Cause/Case:** -

Owner: J C CRAIN DRILLING COMPANY

x

Documents on File

	Trn #	Doc	File/Act	Status 1	Status 2	Transaction Desc.	From/ To	Acres	Diversion	Consumptive
get images	493866	72121	1957-05-13	PMT	LOG	L 03531 (T) EXPIRED	T		3	

x

Current Points of Diversion

(NAD83 UTM in meters)

POD Number	Well Tag	Source	Q 64	Q16	Q4	Sec	Tws	Rng	X	Y	Other Location Desc
L 03531		Shallow	2	4	4	27	12S	38E	679135	3680111*	SHELLY/M A FOSTER #1

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

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	L 03531	2	4	4	27	12S	38E	679135	3680111*

Driller License: 111 **Driller Company:** BURKE, EDWARD B.

Driller Name: BURKE, EDWARD B.

Drill Start Date:	05/08/1957	**Drill Finish Date:**	05/08/1957	**Plug Date:**	07/17/1957
Log File Date:	05/15/1957	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	
Casing Size:	7.00	**Depth Well:**	96 feet	**Depth Water:**	42 feet

Water Bearing Stratifications:	Top	Bottom	Description
	73	77	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	50	82

***UTM location was derived from PLSS - see Help**

National Water Information System: Web Interface

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

Click to hideNews 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 331416103041301 12S.38E.26.34340

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

Latitude 33°14'34", Longitude 103°04'11" NAD27
Lea County, New Mexico , Hydrologic Unit 12080006
Well depth: 60 feet
Land surface altitude: 3,790.30 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
Field groundwater-level measurements	1961-02-09	1991-02-07	3
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
Email questions about this site to New Mexico Water Science Center Water-Data Inquiries

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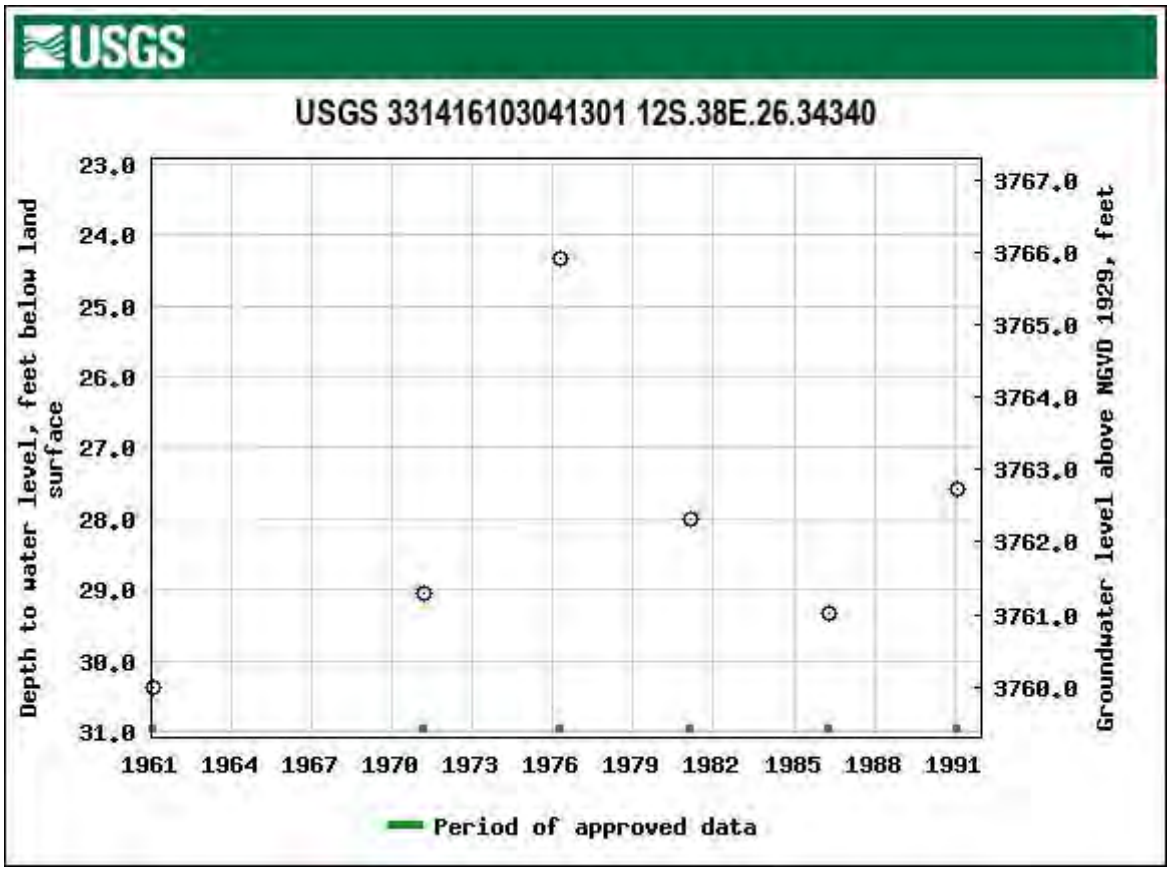
Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
Subscribe for system changes
News

Title: NWIS Site Information for USA: Site Inventory
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=331416103041301

Page Contact Information: New Mexico Water Data Support Team
Page Last Modified: 2022-02-01 11:51:17 EST
0.28 0.26 sdww01


USGS
USGS 331416103041301 12S.38E.26.34340
Depth to water level, feet below land surface
23.0
24.0
25.0
26.0
27.0
28.0
29.0
30.0
31.0
Groundwater level above NGVD 1929, feet
3767.0
3766.0
3765.0
3764.0
3763.0
3762.0
3761.0
3760.0
1961
1964
1967
1970
1973
1976
1979
1982
1985
1988
1991
Period of approved data

ATTACHMENT 2: LITHOLOGIC/SAMPLING LOG

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH01**	Date: 01**/21/2021**
Site Name: **Trinity Burrus Abo Unit #025**	
RP or Incident Number: **NOY1711428756**	
WSP Job Number: 31403471.004	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Hand Auger
Lat/Long: **33.2488403, -103.0772324**	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
						0		
D	<168	0.5	Y	BH01	0.5	0.5	GP/GM	DARK BROWN, POORLY GRADED GRAVEL, WITH SAND AND CLAY, SOME CALICHE, STAINED, NO ODOR
D/M	<168	0.4	Y	BH01A	1	1	GP/GM	SAA
								TD @ 1' FT BGS

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH02**	Date: 01**/21/2021**
Site Name: **Trinity Burrus Abo Unit #025**	
RP or Incident Number: **NOY1711428756**	
WSP Job Number: 31403471.004	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Hand Auger
Lat/Long: **33.2488403, -103.0772324**	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
						0		
D	<168	0.0	Y	BH02	0.5	0.5	GP/GM	DARK BROWN, POORLY GRADED GRAVEL, WITH SAND- SILT- AND CLAY, STAINED, NO ODOR
D/M	<168	0.0	Y	BH02A	1	1	GP/GM	SAA
								TD @ 1' FT BGS

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH03** | Date: 01**/21/2021**

Site Name: **Trinity Burrus Abo Unit #025**

RP or Incident Number: **NOY1711428756**

WSP Job Number: 31403471.004

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC | Method: Hand Auger

Lat/Long: **33.2488403, -103.0772324** | 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
						0		
D	174.2	0.0	Y	BH03	0.5	0.5	GP/GM	DARK BROWN, POORLY GRADED GRAVEL, WITH SAND- SILT- AND CLAY, SOME CALICHE, STAINED, NO ODOR
D/M	<168	0.0	Y	BH03A	1	1	GP/GM	CALICHE
								TD @ 1' FT BGS

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH04**	Date: 01**/21/2021**
Site Name: **Trinity Burrus Abo Unit #025**	
RP or Incident Number: **NOY1711428756**	
WSP Job Number: 31403471.004	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Hand Auger
Lat/Long: **33.2488403, -103.0772324**	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
						0		
D	<168	0.0	Y	BH04	0.5	0.5	GP/GM	DARK BROWN, POORLY GRADED GRAVEL, WITH SOME SAND-SILT AND CLAY, SOME CALICHE, STAINED, NO ODOR
D/M	<168	0.0	Y	BH04A	1	1	GP/GM	CALICHE
								TD @ 1' FT BGS

WSP USA

508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH05**	Date: 01**/21/2021**
Site Name: **Trinity Burrus Abo Unit #025**	
RP or Incident Number: **NOY1711428756**	
WSP Job Number: 31403471.004	

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC			Method: Hand Auger
Lat/Long: **33.2488403, -103.0772324**	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
						0		
D	<168	0.0	Y	BH05	0.5	0.5	GP/GM	DARK BROWN, POORLY GRADED GRAVEL, WITH SOME SAND-SILT AND CLAY, SOME CALICHE, STAINED, NO ODOR
D/M	<168	0.0	Y	BH05A	1	1	GP/GM	CALICHE
								TD @ 1' FT BGS

WSP USA
508 West Stevens Street
Carlsbad, New Mexico 88220

BH or PH Name: **BH06**	Date: 01**/21/2021**	
Site Name: **Trinity Burrus Abo Unit #025**		
RP or Incident Number: **NOY1711428756**		
WSP Job Number: 31403471.004		

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: TC	Method: Hand Auger		
Lat/Long: **33.2488403, -103.0772324**	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
						0		
D	<168	0.0	Y	BH06	0.5	0.5	GP/GM	DARK BROWN, POORLY GRADED GRAVEL, WITH SOME SAND-SILT AND CLAY, SOME CALICHE, STAINED, NO ODOR
D/M	<168	0.0	Y	BH06A	1	1	GP/GM	CALICHE
								TD @ 1' FT BGS

ATTACHMENT 3: PHOTOGRAPHIC LOG

PHOTOGRAPHIC LOG		
Armstrong Energy Corporation	**Trinity Burrus Abo Unit #025 Lea County, New Mexico**	**NOY1711428756**

Photo No.	**Date**
1	January 21, 2022

Photo of pad taken during delineation activities.

Photo No.	**Date**
2	January 21, 2022

Photo of pad taken during delineation activities.

ATTACHMENT 4: LABORATORY ANALYTICAL RESULTS

eurofins | Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-1855-1
Laboratory Sample Delivery Group: 31403471.004
Client Project/Site: Trinity Burrus Unit #025

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

Attn: Kalei Jennings

JKramer

Authorized for release by:
1/28/2022 1:27:27 PM

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

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 #025

Laboratory Job ID: 890-1855-1
SDG: 31403471.004

Table of Contents

Definitions/Glossary

Client: WSP USA Inc. Job ID: 890-1855-1
Project/Site: Trinity Burrus Unit #025 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, low biased.
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

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

Glossary

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

Case Narrative

Client: WSP USA Inc. Job ID: 890-1855-1
Project/Site: Trinity Burrus Unit #025 SDG: 31403471.004

Job ID: 890-1855-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative
890-1855-1

Receipt
The samples were received on 1/21/2022 3:46 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 1.0°C

GC VOA
Method 8021B: Surrogate recovery for the following sample was outside control limits: BH06 (890-1855-11). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

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

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

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

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH01

Date Collected: 01/21/22 10:05
Date Received: 01/21/22 15:46
Sample Depth: 0.5

Lab Sample ID: 890-1855-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/25/22 07:25	01/25/22 12:49	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/25/22 07:25	01/25/22 12:49	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/25/22 07:25	01/25/22 12:49	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/25/22 07:25	01/25/22 12:49	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/25/22 07:25	01/25/22 12:49	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/25/22 07:25	01/25/22 12:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*130*		*70 - 130*	*01/25/22 07:25*	*01/25/22 12:49*	*1*
1,4-Difluorobenzene (Surr)	*95*		*70 - 130*	*01/25/22 07:25*	*01/25/22 12:49*	*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 16:10	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		01/26/22 08:15	01/26/22 16:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 16:19	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 16:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*83*		*70 - 130*	*01/26/22 08:15*	*01/26/22 16:19*	*1*
o-Terphenyl	*92*		*70 - 130*	*01/26/22 08:15*	*01/26/22 16:19*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**42.2**		5.05		mg/Kg			01/28/22 01:06	1

Client Sample ID: BH01A

Date Collected: 01/21/22 10:07
Date Received: 01/21/22 15:46
Sample Depth: 1

Lab Sample ID: 890-1855-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 13:16	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 13:16	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 13:16	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/25/22 07:25	01/25/22 13:16	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 13:16	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/25/22 07:25	01/25/22 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*	*01/25/22 07:25*	*01/25/22 13:16*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH01A

Date Collected: 01/21/22 10:07
Date Received: 01/21/22 15:46
Sample Depth: 1

Lab Sample ID: 890-1855-2

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*01/25/22 07:25*	*01/25/22 13:16*	*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 16:10	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		01/26/22 08:15	01/26/22 16:41	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9	mg/Kg		01/26/22 08:15	01/26/22 16:41	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/26/22 08:15	01/26/22 16:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*82*		*70 - 130*	*01/26/22 08:15*	*01/26/22 16:41*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/26/22 08:15*	*01/26/22 16:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98	mg/Kg			01/28/22 01:18	1

Client Sample ID: BH02

Date Collected: 01/21/22 10:15
Date Received: 01/21/22 15:46
Sample Depth: 0.5

Lab Sample ID: 890-1855-3

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/25/22 07:25	01/25/22 13:44	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/25/22 07:25	01/25/22 13:44	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/25/22 07:25	01/25/22 13:44	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/25/22 07:25	01/25/22 13:44	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/25/22 07:25	01/25/22 13:44	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/25/22 07:25	01/25/22 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*	*01/25/22 07:25*	*01/25/22 13:44*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/25/22 07:25*	*01/25/22 13:44*	*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	<50.0	U	50.0	mg/Kg			01/27/22 16:10	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH02

Date Collected: 01/21/22 10:15
Date Received: 01/21/22 15:46
Sample Depth: 0.5

Lab Sample ID: 890-1855-3
Matrix: Solid

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		01/26/22 08:15	01/26/22 17:26	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 17:26	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 17:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*01/26/22 08:15*	*01/26/22 17:26*	*1*
o-Terphenyl	*102*		*70 - 130*	*01/26/22 08:15*	*01/26/22 17:26*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11.1**		4.95		mg/Kg			01/28/22 01:53	1

Client Sample ID: BH02A

Date Collected: 01/21/22 10:16
Date Received: 01/21/22 15:46
Sample Depth: 1

Lab Sample ID: 890-1855-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 14:12	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 14:12	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 14:12	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/25/22 07:25	01/25/22 14:12	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 14:12	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/25/22 07:25	01/25/22 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*	*01/25/22 07:25*	*01/25/22 14:12*	*1*
1,4-Difluorobenzene (Surr)	*101*		*70 - 130*	*01/25/22 07:25*	*01/25/22 14:12*	*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 16:10	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		01/26/22 08:15	01/26/22 17:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 17:56	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 17:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*01/26/22 08:15*	*01/26/22 17:56*	*1*
o-Terphenyl	*96*		*70 - 130*	*01/26/22 08:15*	*01/26/22 17:56*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH02A

Lab Sample ID: 890-1855-4
Matrix: Solid
Date Collected: 01/21/22 10:16
Date Received: 01/21/22 15:46
Sample Depth: 1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	8.22		4.99		mg/Kg			01/28/22 02:05	1

Client Sample ID: BH03

Lab Sample ID: 890-1855-5
Matrix: Solid
Date Collected: 01/21/22 10:20
Date Received: 01/21/22 15:46
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 14:40	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 14:40	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 14:40	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/25/22 07:25	01/25/22 14:40	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 14:40	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/25/22 07:25	01/25/22 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*	*01/25/22 07:25*	*01/25/22 14:40*	*1*
1,4-Difluorobenzene (Surr)	*88*		*70 - 130*	*01/25/22 07:25*	*01/25/22 14:40*	*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 16:10	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		01/26/22 08:15	01/26/22 18:18	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/26/22 08:15	01/26/22 18:18	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/26/22 08:15	01/26/22 18:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*84*		*70 - 130*	*01/26/22 08:15*	*01/26/22 18:18*	*1*
o-Terphenyl	*93*		*70 - 130*	*01/26/22 08:15*	*01/26/22 18:18*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	65.5		4.97		mg/Kg			01/28/22 02:17	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH03A

Lab Sample ID: 890-1855-6
Matrix: Solid
Date Collected: 01/21/22 10:22
Date Received: 01/21/22 15:46
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		01/25/22 07:25	01/25/22 15:08	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 15:08	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 15:08	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/22 07:25	01/25/22 15:08	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 15:08	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/22 07:25	01/25/22 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*01/25/22 07:25*	*01/25/22 15:08*	*1*
1,4-Difluorobenzene (Surr)	*94*		*70 - 130*	*01/25/22 07:25*	*01/25/22 15:08*	*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	<50.0	U	50.0		mg/Kg			01/27/22 16:10	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		01/26/22 08:15	01/26/22 18:41	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 18:41	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*01/26/22 08:15*	*01/26/22 18:41*	*1*
o-Terphenyl	*105*		*70 - 130*	*01/26/22 08:15*	*01/26/22 18:41*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**59.9**		5.04		mg/Kg			01/28/22 02:29	1

Client Sample ID: BH04

Lab Sample ID: 890-1855-7
Matrix: Solid
Date Collected: 01/21/22 10:25
Date Received: 01/21/22 15:46
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		01/25/22 07:25	01/25/22 15:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 15:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 15:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/25/22 07:25	01/25/22 15:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 15:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/25/22 07:25	01/25/22 15:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*	*01/25/22 07:25*	*01/25/22 15:36*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH04

Date Collected: 01/21/22 10:25
Date Received: 01/21/22 15:46
Sample Depth: 0.5

Lab Sample ID: 890-1855-7

Matrix: Solid

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*01/25/22 07:25*	*01/25/22 15:36*	*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 16:10	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		01/26/22 08:15	01/26/22 19:03	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/26/22 08:15	01/26/22 19:03	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/26/22 08:15	01/26/22 19:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	*79*		*70 - 130*	*01/26/22 08:15*	*01/26/22 19:03*	*1*
o-Terphenyl	*86*		*70 - 130*	*01/26/22 08:15*	*01/26/22 19:03*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.05	U	5.05		mg/Kg			01/28/22 02:41	1

Client Sample ID: BH04A

Date Collected: 01/21/22 10:26
Date Received: 01/21/22 15:46
Sample Depth: 1

Lab Sample ID: 890-1855-8

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 16:04	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 16:04	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 16:04	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/25/22 07:25	01/25/22 16:04	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 16:04	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/25/22 07:25	01/25/22 16:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*128*		*70 - 130*	*01/25/22 07:25*	*01/25/22 16:04*	*1*
1,4-Difluorobenzene (Surr)	*108*		*70 - 130*	*01/25/22 07:25*	*01/25/22 16:04*	*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 16:10	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH04A

Lab Sample ID: 890-1855-8
Matrix: Solid
Date Collected: 01/21/22 10:26
Date Received: 01/21/22 15:46
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	<49.9	U	49.9		mg/Kg		01/26/22 08:15	01/26/22 19:25	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/26/22 08:15	01/26/22 19:25	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/26/22 08:15	01/26/22 19:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*90*		*70 - 130*	*01/26/22 08:15*	*01/26/22 19:25*	*1*
o-Terphenyl	*101*		*70 - 130*	*01/26/22 08:15*	*01/26/22 19:25*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			01/28/22 02:52	1

Client Sample ID: BH05

Lab Sample ID: 890-1855-9
Matrix: Solid
Date Collected: 01/21/22 10:29
Date Received: 01/21/22 15:46
Sample Depth: 0.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 16:32	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 16:32	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 16:32	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		01/25/22 07:25	01/25/22 16:32	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 16:32	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		01/25/22 07:25	01/25/22 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*01/25/22 07:25*	*01/25/22 16:32*	*1*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/25/22 07:25*	*01/25/22 16:32*	*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			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 16:10	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		01/26/22 08:15	01/26/22 19:48	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 19:48	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*92*		*70 - 130*	*01/26/22 08:15*	*01/26/22 19:48*	*1*
o-Terphenyl	*102*		*70 - 130*	*01/26/22 08:15*	*01/26/22 19:48*	*1*

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH05

Date Collected: 01/21/22 10:29
Date Received: 01/21/22 15:46
Sample Depth: 0.5

Lab Sample ID: 890-1855-9

Matrix: Solid

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.99	U	4.99		mg/Kg			01/28/22 03:28	1

Client Sample ID: BH05A

Date Collected: 01/21/22 10:30
Date Received: 01/21/22 15:46
Sample Depth: 1

Lab Sample ID: 890-1855-10

Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 17:00	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 17:00	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 17:00	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/25/22 07:25	01/25/22 17:00	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/25/22 07:25	01/25/22 17:00	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/25/22 07:25	01/25/22 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*	*01/25/22 07:25*	*01/25/22 17:00*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*01/25/22 07:25*	*01/25/22 17:00*	*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	<50.0	U	50.0		mg/Kg			01/27/22 16:10	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		01/26/22 08:15	01/26/22 20:11	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 20:11	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 20:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*86*		*70 - 130*	*01/26/22 08:15*	*01/26/22 20:11*	*1*
o-Terphenyl	*92*		*70 - 130*	*01/26/22 08:15*	*01/26/22 20:11*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<4.98	U	4.98		mg/Kg			01/28/22 03:40	1

Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH06

Date Collected: 01/21/22 10:38
Date Received: 01/21/22 15:46
Sample Depth: 0.5

Lab Sample ID: 890-1855-11
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/25/22 07:25	01/25/22 18:52	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/25/22 07:25	01/25/22 18:52	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/25/22 07:25	01/25/22 18:52	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/25/22 07:25	01/25/22 18:52	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/25/22 07:25	01/25/22 18:52	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/25/22 07:25	01/25/22 18:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*154*	*S1+*	*70 - 130*	*01/25/22 07:25*	*01/25/22 18:52*	*1*
1,4-Difluorobenzene (Surr)	*104*		*70 - 130*	*01/25/22 07:25*	*01/25/22 18:52*	*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 16:10	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		01/26/22 08:15	01/26/22 20:33	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 20:33	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 20:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*82*		*70 - 130*	*01/26/22 08:15*	*01/26/22 20:33*	*1*
o-Terphenyl	*89*		*70 - 130*	*01/26/22 08:15*	*01/26/22 20:33*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**8.80**		5.00		mg/Kg			01/28/22 04:15	1

Client Sample ID: BH06A

Date Collected: 01/21/22 10:39
Date Received: 01/21/22 15:46
Sample Depth: 1

Lab Sample ID: 890-1855-12
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/25/22 16:00	01/25/22 19:20	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/25/22 16:00	01/25/22 19:20	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/25/22 16:00	01/25/22 19:20	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/25/22 16:00	01/25/22 19:20	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/25/22 16:00	01/25/22 19:20	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/25/22 16:00	01/25/22 19:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*01/25/22 16:00*	*01/25/22 19:20*	*1*

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Client Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH06A
Date Collected: 01/21/22 10:39
Date Received: 01/21/22 15:46
Sample Depth: 1

Lab Sample ID: 890-1855-12
Matrix: Solid

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,4-Difluorobenzene (Surr)	*92*		*70 - 130*	*01/25/22 16:00*	*01/25/22 19:20*	*1*

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00397	U	0.00397		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 16:10	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		01/26/22 08:15	01/26/22 20:56	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 20:56	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 20:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*91*		*70 - 130*	*01/26/22 08:15*	*01/26/22 20:56*	*1*
o-Terphenyl	*102*		*70 - 130*	*01/26/22 08:15*	*01/26/22 20:56*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**9.01**		4.95		mg/Kg			01/28/22 04:27	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
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 (70-130)	DFBZ1 (70-130)
890-1855-1	BH01	130	95
890-1855-1 MS	BH01	115	113
890-1855-1 MSD	BH01	110	109
890-1855-2	BH01A	114	98
890-1855-3	BH02	115	101
890-1855-4	BH02A	120	101
890-1855-5	BH03	91	88
890-1855-6	BH03A	107	94
890-1855-7	BH04	124	109
890-1855-8	BH04A	128	108
890-1855-9	BH05	106	92
890-1855-10	BH05A	118	102
890-1855-11	BH06	154 S1+	104
890-1855-12	BH06A	103	92
LCS 880-17655/1-A	Lab Control Sample	103	106
LCSD 880-17655/2-A	Lab Control Sample Dup	106	110
MB 880-17655/5-A	Method Blank	75	91

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)
890-1855-1	BH01	83	92
890-1855-2	BH01A	82	93
890-1855-3	BH02	90	102
890-1855-4	BH02A	86	96
890-1855-5	BH03	84	93
890-1855-6	BH03A	93	105
890-1855-7	BH04	79	86
890-1855-8	BH04A	90	101
890-1855-9	BH05	92	102
890-1855-10	BH05A	86	92
890-1855-11	BH06	82	89
890-1855-12	BH06A	91	102
890-1856-A-1-F MS	Matrix Spike	75	75
890-1856-A-1-G MSD	Matrix Spike Duplicate	68 S1-	69 S1-
LCS 880-17748/2-A	Lab Control Sample	103	110
LCSD 880-17748/3-A	Lab Control Sample Dup	102	108
MB 880-17748/1-A	Method Blank	93	110

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17655/5-A
Matrix: Solid
Analysis Batch: 17656

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17655

Analyte	MB Result	MB Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 11:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 11:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 11:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/22 07:25	01/25/22 11:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:25	01/25/22 11:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/25/22 07:25	01/25/22 11:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*70 - 130*	*01/25/22 07:25*	*01/25/22 11:16*	*1*
1,4-Difluorobenzene (Surr)	*91*		*70 - 130*	*01/25/22 07:25*	*01/25/22 11:16*	*1*

Lab Sample ID: LCS 880-17655/1-A
Matrix: Solid
Analysis Batch: 17656

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17655

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Benzene			0.100	0.1138		mg/Kg		114	70 - 130		
Toluene			0.100	0.09497		mg/Kg		95	70 - 130		
Ethylbenzene			0.100	0.09457		mg/Kg		95	70 - 130		
m-Xylene & p-Xylene			0.200	0.2089		mg/Kg		104	70 - 130		
o-Xylene			0.100	0.1104		mg/Kg		110	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: LCSD 880-17655/2-A
Matrix: Solid
Analysis Batch: 17656

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17655

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene			0.100	0.1103		mg/Kg		110	70 - 130	3	35
Toluene			0.100	0.09292		mg/Kg		93	70 - 130	2	35
Ethylbenzene			0.100	0.09271		mg/Kg		93	70 - 130	2	35
m-Xylene & p-Xylene			0.200	0.2046		mg/Kg		102	70 - 130	2	35
o-Xylene			0.100	0.1082		mg/Kg		108	70 - 130	2	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*

Lab Sample ID: 890-1855-1 MSD
Matrix: Solid
Analysis Batch: 17656

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 17655

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	<0.00198	U	0.0994	0.1108		mg/Kg					
Toluene	<0.00198	U	0.0994	0.09407		mg/Kg					

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

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

Lab Sample ID: 890-1855-1 MSD
Matrix: Solid
Analysis Batch: 17656

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 17655

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ethylbenzene	<0.00198	U	0.0994	0.09294		mg/Kg					
m-Xylene & p-Xylene	<0.00396	U	0.199	0.2040		mg/Kg					
o-Xylene	<0.00198	U	0.0994	0.1082		mg/Kg					

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: 890-1855-1 MS
Matrix: Solid
Analysis Batch: 17656

Client Sample ID: BH01
Prep Type: Total/NA

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*
1,4-Difluorobenzene (Surr)	*113*		*70 - 130*

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

Lab Sample ID: MB 880-17748/1-A
Matrix: Solid
Analysis Batch: 17750

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 17748

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		01/26/22 08:15	01/26/22 11:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 11:10	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:15	01/26/22 11:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*93*		*70 - 130*	*01/26/22 08:15*	*01/26/22 11:10*	*1*
o-Terphenyl	*110*		*70 - 130*	*01/26/22 08:15*	*01/26/22 11:10*	*1*

Lab Sample ID: LCS 880-17748/2-A
Matrix: Solid
Analysis Batch: 17750

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 17748

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Gasoline Range Organics (GRO)-C6-C10			1000	704.4		mg/Kg		70	70 - 130		
Diesel Range Organics (Over C10-C28)			1000	956.5		mg/Kg		96	70 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*103*		*70 - 130*
o-Terphenyl	*110*		*70 - 130*

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

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

Lab Sample ID: LCSD 880-17748/3-A
Matrix: Solid
Analysis Batch: 17750

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 17748

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10			1000	698.5		mg/Kg		70	70 - 130	1	20
Diesel Range Organics (Over C10-C28)			1000	957.2		mg/Kg		96	70 - 130	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*102*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Lab Sample ID: 890-1856-A-1-F MS
Matrix: Solid
Analysis Batch: 17750

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 17748

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	997	971.2		mg/Kg		97	70 - 130
Diesel Range Organics (Over C10-C28)	<49.9	U	997	1089		mg/Kg		109	70 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
1-Chlorooctane	*75*		*70 - 130*
o-Terphenyl	*75*		*70 - 130*

Lab Sample ID: 890-1856-A-1-G MSD
Matrix: Solid
Analysis Batch: 17750

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 17748

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	914.4		mg/Kg		92	70 - 130	6	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	979.4		mg/Kg		98	70 - 130	11	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
1-Chlorooctane	*68*	*S1-*	*70 - 130*
o-Terphenyl	*69*	*S1-*	*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17706/1-A
Matrix: Solid
Analysis Batch: 17736

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 23:31	1

QC Sample Results

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-17706/2-A
Matrix: Solid
Analysis Batch: 17736

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride			250	248.7		mg/Kg		99	90 - 110		

Lab Sample ID: LCSD 880-17706/3-A
Matrix: Solid
Analysis Batch: 17736

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	249.2		mg/Kg		100	90 - 110	0	20

Lab Sample ID: 890-1855-8 MS
Matrix: Solid
Analysis Batch: 17736

Client Sample ID: BH04A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride	<5.00	U	250	255.9		mg/Kg		102	90 - 110		

Lab Sample ID: 890-1855-8 MSD
Matrix: Solid
Analysis Batch: 17736

Client Sample ID: BH04A
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	<5.00	U	250	254.1		mg/Kg		102	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1855-1
Project/Site: Trinity Burrus Unit #025 SDG: 31403471.004

GC VOA

Prep Batch: 17655

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-1	BH01	Total/NA	Solid	5035	
890-1855-2	BH01A	Total/NA	Solid	5035	
890-1855-3	BH02	Total/NA	Solid	5035	
890-1855-4	BH02A	Total/NA	Solid	5035	
890-1855-5	BH03	Total/NA	Solid	5035	
890-1855-6	BH03A	Total/NA	Solid	5035	
890-1855-7	BH04	Total/NA	Solid	5035	
890-1855-8	BH04A	Total/NA	Solid	5035	
890-1855-9	BH05	Total/NA	Solid	5035	
890-1855-10	BH05A	Total/NA	Solid	5035	
890-1855-11	BH06	Total/NA	Solid	5035	
890-1855-12	BH06A	Total/NA	Solid	5035	
MB 880-17655/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17655/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17655/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1855-1 MSD	BH01	Total/NA	Solid	5035	

Analysis Batch: 17656

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-1	BH01	Total/NA	Solid	8021B	17655
890-1855-2	BH01A	Total/NA	Solid	8021B	17655
890-1855-3	BH02	Total/NA	Solid	8021B	17655
890-1855-4	BH02A	Total/NA	Solid	8021B	17655
890-1855-5	BH03	Total/NA	Solid	8021B	17655
890-1855-6	BH03A	Total/NA	Solid	8021B	17655
890-1855-7	BH04	Total/NA	Solid	8021B	17655
890-1855-8	BH04A	Total/NA	Solid	8021B	17655
890-1855-9	BH05	Total/NA	Solid	8021B	17655
890-1855-10	BH05A	Total/NA	Solid	8021B	17655
890-1855-11	BH06	Total/NA	Solid	8021B	17655
890-1855-12	BH06A	Total/NA	Solid	8021B	17655
MB 880-17655/5-A	Method Blank	Total/NA	Solid	8021B	17655
LCS 880-17655/1-A	Lab Control Sample	Total/NA	Solid	8021B	17655
LCSD 880-17655/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17655
890-1855-1 MS	BH01	Total/NA	Solid	8021B	
890-1855-1 MSD	BH01	Total/NA	Solid	8021B	17655

Analysis Batch: 18058

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-1	BH01	Total/NA	Solid	Total BTEX	
890-1855-2	BH01A	Total/NA	Solid	Total BTEX	
890-1855-3	BH02	Total/NA	Solid	Total BTEX	
890-1855-4	BH02A	Total/NA	Solid	Total BTEX	
890-1855-5	BH03	Total/NA	Solid	Total BTEX	
890-1855-6	BH03A	Total/NA	Solid	Total BTEX	
890-1855-7	BH04	Total/NA	Solid	Total BTEX	
890-1855-8	BH04A	Total/NA	Solid	Total BTEX	
890-1855-9	BH05	Total/NA	Solid	Total BTEX	
890-1855-10	BH05A	Total/NA	Solid	Total BTEX	
890-1855-11	BH06	Total/NA	Solid	Total BTEX	
890-1855-12	BH06A	Total/NA	Solid	Total BTEX	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1855-1
Project/Site: Trinity Burrus Unit #025 SDG: 31403471.004

GC Semi VOA

Prep Batch: 17748

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-1	BH01	Total/NA	Solid	8015NM Prep	
890-1855-2	BH01A	Total/NA	Solid	8015NM Prep	
890-1855-3	BH02	Total/NA	Solid	8015NM Prep	
890-1855-4	BH02A	Total/NA	Solid	8015NM Prep	
890-1855-5	BH03	Total/NA	Solid	8015NM Prep	
890-1855-6	BH03A	Total/NA	Solid	8015NM Prep	
890-1855-7	BH04	Total/NA	Solid	8015NM Prep	
890-1855-8	BH04A	Total/NA	Solid	8015NM Prep	
890-1855-9	BH05	Total/NA	Solid	8015NM Prep	
890-1855-10	BH05A	Total/NA	Solid	8015NM Prep	
890-1855-11	BH06	Total/NA	Solid	8015NM Prep	
890-1855-12	BH06A	Total/NA	Solid	8015NM Prep	
MB 880-17748/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17748/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17748/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 17750

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-1	BH01	Total/NA	Solid	8015B NM	17748
890-1855-2	BH01A	Total/NA	Solid	8015B NM	17748
890-1855-3	BH02	Total/NA	Solid	8015B NM	17748
890-1855-4	BH02A	Total/NA	Solid	8015B NM	17748
890-1855-5	BH03	Total/NA	Solid	8015B NM	17748
890-1855-6	BH03A	Total/NA	Solid	8015B NM	17748
890-1855-7	BH04	Total/NA	Solid	8015B NM	17748
890-1855-8	BH04A	Total/NA	Solid	8015B NM	17748
890-1855-9	BH05	Total/NA	Solid	8015B NM	17748
890-1855-10	BH05A	Total/NA	Solid	8015B NM	17748
890-1855-11	BH06	Total/NA	Solid	8015B NM	17748
890-1855-12	BH06A	Total/NA	Solid	8015B NM	17748
MB 880-17748/1-A	Method Blank	Total/NA	Solid	8015B NM	17748
LCS 880-17748/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17748
LCSD 880-17748/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17748
890-1856-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17748
890-1856-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17748

Analysis Batch: 17951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-1	BH01	Total/NA	Solid	8015 NM	
890-1855-2	BH01A	Total/NA	Solid	8015 NM	
890-1855-3	BH02	Total/NA	Solid	8015 NM	
890-1855-4	BH02A	Total/NA	Solid	8015 NM	
890-1855-5	BH03	Total/NA	Solid	8015 NM	
890-1855-6	BH03A	Total/NA	Solid	8015 NM	
890-1855-7	BH04	Total/NA	Solid	8015 NM	
890-1855-8	BH04A	Total/NA	Solid	8015 NM	
890-1855-9	BH05	Total/NA	Solid	8015 NM	
890-1855-10	BH05A	Total/NA	Solid	8015 NM	
890-1855-11	BH06	Total/NA	Solid	8015 NM	

QC Association Summary

Client: WSP USA Inc. Job ID: 890-1855-1
Project/Site: Trinity Burrus Unit #025 SDG: 31403471.004

GC Semi VOA (Continued)

Analysis Batch: 17951 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-12	BH06A	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 17706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-1	BH01	Soluble	Solid	DI Leach	
890-1855-2	BH01A	Soluble	Solid	DI Leach	
890-1855-3	BH02	Soluble	Solid	DI Leach	
890-1855-4	BH02A	Soluble	Solid	DI Leach	
890-1855-5	BH03	Soluble	Solid	DI Leach	
890-1855-6	BH03A	Soluble	Solid	DI Leach	
890-1855-7	BH04	Soluble	Solid	DI Leach	
890-1855-8	BH04A	Soluble	Solid	DI Leach	
890-1855-9	BH05	Soluble	Solid	DI Leach	
890-1855-10	BH05A	Soluble	Solid	DI Leach	
890-1855-11	BH06	Soluble	Solid	DI Leach	
890-1855-12	BH06A	Soluble	Solid	DI Leach	
MB 880-17706/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17706/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17706/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1855-8 MS	BH04A	Soluble	Solid	DI Leach	
890-1855-8 MSD	BH04A	Soluble	Solid	DI Leach	

Analysis Batch: 17736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1855-1	BH01	Soluble	Solid	300.0	17706
890-1855-2	BH01A	Soluble	Solid	300.0	17706
890-1855-3	BH02	Soluble	Solid	300.0	17706
890-1855-4	BH02A	Soluble	Solid	300.0	17706
890-1855-5	BH03	Soluble	Solid	300.0	17706
890-1855-6	BH03A	Soluble	Solid	300.0	17706
890-1855-7	BH04	Soluble	Solid	300.0	17706
890-1855-8	BH04A	Soluble	Solid	300.0	17706
890-1855-9	BH05	Soluble	Solid	300.0	17706
890-1855-10	BH05A	Soluble	Solid	300.0	17706
890-1855-11	BH06	Soluble	Solid	300.0	17706
890-1855-12	BH06A	Soluble	Solid	300.0	17706
MB 880-17706/1-A	Method Blank	Soluble	Solid	300.0	17706
LCS 880-17706/2-A	Lab Control Sample	Soluble	Solid	300.0	17706
LCSD 880-17706/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17706
890-1855-8 MS	BH04A	Soluble	Solid	300.0	17706
890-1855-8 MSD	BH04A	Soluble	Solid	300.0	17706

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH01

Date Collected: 01/21/22 10:05
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 12:49	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 16:19	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 01:06	CH	XEN MID

Client Sample ID: BH01A

Date Collected: 01/21/22 10:07
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 13:16	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 16:41	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 01:18	CH	XEN MID

Client Sample ID: BH02

Date Collected: 01/21/22 10:15
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 13:44	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 17:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 01:53	CH	XEN MID

Client Sample ID: BH02A

Date Collected: 01/21/22 10:16
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 14:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH02A

Date Collected: 01/21/22 10:16
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-4
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			17951	01/27/22 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 17:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 02:05	CH	XEN MID

Client Sample ID: BH03

Date Collected: 01/21/22 10:20
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 14:40	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 18:18	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 02:17	CH	XEN MID

Client Sample ID: BH03A

Date Collected: 01/21/22 10:22
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 15:08	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 18:41	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 02:29	CH	XEN MID

Client Sample ID: BH04

Date Collected: 01/21/22 10:25
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 15:36	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 19:03	AJ	XEN MID

Lab Chronicle

Client: WSP USA Inc. Job ID: 890-1855-1
Project/Site: Trinity Burrus Unit #025 SDG: 31403471.004

Client Sample ID: BH04 — Lab Sample ID: 890-1855-7

Date Collected: 01/21/22 10:25 **Matrix: Solid**
Date Received: 01/21/22 15:46

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	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 02:41	CH	XEN MID

Client Sample ID: BH04A — Lab Sample ID: 890-1855-8

Date Collected: 01/21/22 10:26 **Matrix: Solid**
Date Received: 01/21/22 15:46

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	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 16:04	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 19:25	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 02:52	CH	XEN MID

Client Sample ID: BH05 — Lab Sample ID: 890-1855-9

Date Collected: 01/21/22 10:29 **Matrix: Solid**
Date Received: 01/21/22 15:46

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	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 16:32	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 19:48	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 03:28	CH	XEN MID

Client Sample ID: BH05A — Lab Sample ID: 890-1855-10

Date Collected: 01/21/22 10:30 **Matrix: Solid**
Date Received: 01/21/22 15:46

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	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 17:00	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 20:11	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 03:40	CH	XEN MID

Lab Chronicle

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
SDG: 31403471.004

Client Sample ID: BH06

Date Collected: 01/21/22 10:38
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17655	01/25/22 07:25	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 18:52	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 20:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 04:15	CH	XEN MID

Client Sample ID: BH06A

Date Collected: 01/21/22 10:39
Date Received: 01/21/22 15:46

Lab Sample ID: 890-1855-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17655	01/25/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17656	01/25/22 19:20	MR	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 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17748	01/26/22 08:15	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17750	01/26/22 20:56	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17706	01/25/22 12:28	CH	XEN MID
Soluble	Analysis	300.0		1			17736	01/28/22 04:27	CH	XEN MID

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: Trinity Burrus Unit #025

Job ID: 890-1855-1
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 #025

Job ID: 890-1855-1
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 #025

Job ID: 890-1855-1
SDG: 31403471.004

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1855-1	BH01	Solid	01/21/22 10:05	01/21/22 15:46	0.5
890-1855-2	BH01A	Solid	01/21/22 10:07	01/21/22 15:46	1
890-1855-3	BH02	Solid	01/21/22 10:15	01/21/22 15:46	0.5
890-1855-4	BH02A	Solid	01/21/22 10:16	01/21/22 15:46	1
890-1855-5	BH03	Solid	01/21/22 10:20	01/21/22 15:46	0.5
890-1855-6	BH03A	Solid	01/21/22 10:22	01/21/22 15:46	1
890-1855-7	BH04	Solid	01/21/22 10:25	01/21/22 15:46	0.5
890-1855-8	BH04A	Solid	01/21/22 10:26	01/21/22 15:46	1
890-1855-9	BH05	Solid	01/21/22 10:29	01/21/22 15:46	0.5
890-1855-10	BH05A	Solid	01/21/22 10:30	01/21/22 15:46	1
890-1855-11	BH06	Solid	01/21/22 10:38	01/21/22 15:46	0.5
890-1855-12	BH06A	Solid	01/21/22 10:39	01/21/22 15:46	1

Chain of Custody

XENCO LABORATORIES

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)

Work Order No: _____

www.xenco.com Page 1 of 2

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@w

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Trinity Burrus Unit #025	Turn Around	
Project Number:	31403471.004	Routine X	
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes (No)	Wet Ice:	(Yes) No	
Temperature (°C):	1.2 / 1.0	Thermometer ID		
Received Intact:	(Yes) No	T-MM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.7	
Sample Custody Seals:	Yes No (N/A)	Total Containers:		

ANALYSIS REQUEST

890-1855 Chain of Custody

Work Order Notes

IN: nOY1711428756
CC:
API: 30-025-36248

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

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
BH01	S	1/21/2022	10:05	0.5	1	x	x	x	Composite
BH01A	S	1/21/2022	10:07	1	1	x	x	x	Composite
BH02	S	1/21/2022	10:15	0.5	1	x	x	x	Composite
BH02A	S	1/21/2022	10:16	1	1	x	x	x	Composite
BH03	S	1/21/2022	10:20	0.5	1	x	x	x	Composite
BH03A	S	1/21/2022	10:22	1	1	x	x	x	Composite
BH04	S	1/21/2022	10:25	0.5	1	x	x	x	Composite
BH04A	S	1/21/2022	10:26	1	1	x	x	x	Composite
BH05	S	1/21/2022	10:29	0.5	1	x	x	x	Composite
BH05A	S	1/21/2022	10:30	1	1	x	x	x	Composite

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/21/22 3:46	2		
3			4		
5			6		

Revised Date 051418 Rev. 2018.1

Chain of Custody

XENCO LABORATORIES

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)

Work Order No: _____

www.xenco.com Page 2 of 2

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@w

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RC ☐ Superfund ☐
State of Project: NM
Reporting:Level II ☐ Level III ☐ ST/UST ☐ RRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Trinity Burrus Unit #025	Turn Around	
Project Number:	31403471.004	Routine X	
P.O. Number:		Rush:	
Sampler's Name:	Travis Casey	Due Date:	

SAMPLE RECEIPT				
Temp Blank:	Yes No	Wet Ice:	Yes No	
Temperature (°C):		Thermometer ID		
Received Intact:	Yes No			
Cooler Custody Seals:	Yes No N/A	Correction Factor:		
Sample Custody Seals:	Yes No N/A	Total Containers:		

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Number of Containers	TPH (EPA 8015)	BTEX (EPA 8021)	Chloride (EPA 300.0)	Sample Comments
BH06	S	1/21/2022	10:38	0.5	1	x	x	x	Composite
BH06A	S	1/21/2022	10:39	1	1	x	x	x	Composite

ANALYSIS REQUEST

Work Order Notes

IN: nOY1711428756
CC:
API: 30-025-36248

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

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 Tl 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 Tl U **1631 / 245.1 / 7470 / 7471** : Hg

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		1/21/22 3:46	2		
3			4		
5			6		

Revised Date 051418 Rev 2018.1

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler	Lab PM: Kramer Jessica	Carrier Tracking No(s)	COC No: 890-597 1
Client Contact: Shipping/Receiving	Phone	E-Mail: jessica kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 1 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana NELAP - Texas		Job #: 890-1855-1
Address: 1211 W Florida Ave	Due Date Requested: 1/27/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email:	WO #:			
Project Name: Trinity Burrus Unit #025	Project #: 89000048			
Site	SSOW#:			

Analysis Requested

Preservation Codes

A	HCL	M	Hexane
B	NaOH	N	None
C	Zn Acetate	O	AsNaO2
D	Nitric Acid	P	Na2O4S
E	NaHSO4	Q	Na2SO3
F	MeOH	R	Na2S2O3
G	Amchlor	S	H2SO4
H	Ascorbic Acid	T	TSP Dodecahydrate
I	Ice	U	Acetone
J	DI Water	V	MCAA
K	EDTA	W	pH 4-5
L	EDA	Z	other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note.
			Preservation Code:		X	X							
BH01 (890-1855-1)	1/21/22	10 05 Mountain		Solid			X	X	X	X	X	1	
BH01A (890-1855-2)	1/21/22	10 07 Mountain		Solid			X	X	X	X	X	1	
BH02 (890-1855-3)	1/21/22	10 15 Mountain		Solid			X	X	X	X	X	1	
BH02A (890-1855-4)	1/21/22	10 16 Mountain		Solid			X	X	X	X	X	1	
BH03 (890-1855-5)	1/21/22	10 20 Mountain		Solid			X	X	X	X	X	1	
BH03A (890-1855-6)	1/21/22	10 22 Mountain		Solid			X	X	X	X	X	1	
BH04 (890-1855-7)	1/21/22	10 25 Mountain		Solid			X	X	X	X	X	1	
BH04A (890-1855-8)	1/21/22	10 26 Mountain		Solid			X	X	X	X	X	1	
BH05 (890-1855-9)	1/21/22	10 29 Mountain		Solid			X	X	X	X	X	1	

Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/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 complicance to Eurofins Environment Testing South Central LLC.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank. 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time	Method of Shipment.

	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
		1/24/22			1-25-22 11:50	
	Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
	Relinquished by:	Date/Time	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks. 4.5/4.6 .10 IR

Ver: 06/08/2021

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

Chain of Custody Record

eurofins | Environment Testing America

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Kramer Jessica	Carrier Tracking No(s):	COC No: 890-597 2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jessica.kramer@eurofinset.com	State of Origin: New Mexico	Page: Page 2 of 2
Company: Eurofins Environment Testing South Centr		Accreditations Required (See note): NELAP - Louisiana, NELAP - Texas		Job #: 890-1855-1
Address: 1211 W Florida Ave ,	Due Date Requested: 1/27/2022			
City: Midland	TAT Requested (days):			
State, Zip: TX, 79701				
Phone: 432-704-5440(Tel)	PO #:			
Email	WO #:			
Project Name: Trinity Burrus Unit #025	Project #: 89000048			
Site:	SSOW#:			

Analysis Requested

Preservation Codes

A HCL, B - NaOH, C Zn Acetate, D - Nitric Acid, E NaHSO4, F - MeOH, G Amchlor, H - Ascorbic Acid, I Ice, J - DI Water, K EDTA, L EDA, M Hexane, N - None, O AsNaO2, P Na2O4S, Q Na2SO3, R Na2S2O3, S H2SO4, T - TSP Dodecahydrate, U Acetone, V MCAA, W pH 4-5, Z other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8015MOD_NM/8015NM_S_Prep Full TPH	300_ORGFM_28D/DI_LEACH Chloride	8021B/5035FP_Calc BTEX	Total_BTEX_GCV	8015MOD_Calc	Total Number of containers	Special Instructions/Note:
			Preservation Code:										
BH05A (890-1855-10)	1/21/22	10 30 Mountain		Solid			X	X	X	X	X	1	
BH06 (890-1855-11)	1/21/22	10 38 Mountain		Solid			X	X	X	X	X	1	
BH06A (890-1855-12)	1/21/22	10 39 Mountain		Solid			X	X	X	X	X	1	

Note Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/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 complicance to Eurofins Environment Testing South Central LLC

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested I II III IV Other (specify) Primary Deliverable Rank 2	Special Instructions/QC Requirements

Empty Kit Relinquished by:	Date	Time:	Method of Shipment:

	Relinquished by	Date/Time	Company	Received by	Date/Time	Company
1		1/24/22		Leticia R	1-25-22 11.50	
2	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company
3	Relinquished by:	Date/Time:	Company	Received by:	Date/Time	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No	Cooler Temperature(s) °C and Other Remarks: 4.5 / 4.6 .10 IR8

Ver: 06/08/2021

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1855-1
SDG Number: 31403471.004

Login Number: 1855
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: 890-1855-1
SDG Number: 31403471.004

Login Number: 1855
List Number: 2
Creator: Rodriguez, Leticia

List Source: Eurofins Midland
List Creation: 01/25/22 11:57 AM

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	

ATTACHMENT 5: **FINAL C-141**

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company Chevron USA Inc.	Contact Josepha DeLeon
Address 6301 Deauville Blvd., Midland, TX 79706	Telephone No. wk: 575-263-0424 cell: 432-425-1528
Facility Name Trinity Burris Abo Unit #25	Facility Type: Oil Well

Surface Owner **Private**	Mineral Owner **Private**	API No. 30-025-36248

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	27	12S	38E	2310	South	330	East	Lea

Latitude 33.248740 Longitude; -103.07677

NATURE OF RELEASE

Type of Release Spill	Volume of Release: 9.22 barrels produced water	Volume Recovered: 8 barrels produced water
Source of Release Injection Strainer	Date and Hour of Occurrence 04/05/2017; 12:00 AM	Date and Hour of Discovery 04/05/2017; 12:00 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Voicemail: Olivia Yu	
By Whom? Josepha DeLeon	Date and Hour: 04/05/2017; 08:00 AM	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

RECEIVED
By Olivia Yu at 7:38 am, Apr 24, 2017

Describe Cause of Problem and Remedial Action Taken.*

Cracked injection strainer, releasing 9.22 barrels of produced water into a bermed containment.
Recovered 8 barrels produced water.

Describe Area Affected and Cleanup Action Taken.*

Shut lease in. Vacuum truck extracted liquid. Repaired injection strainer.

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: JdeLeon

Printed Name: Josepha DeLeon

Title: HES Compliance Support - Environmental

E-mail Address: jdxd@chevron.com

Date 04/19/2017 Phone: 432-425-1528

OIL CONSERVATION DIVISION

Approved by Environmental Specialist: DY

Approval Date: 4/24/2017 Expiration Date:

Conditions of Approval: see attached directive

Attached ☑

* Attach Additional Sheets If Necessary

1RP-4684 nOY1711428756 pOY1711429637

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _4/20/2017_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4684_ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

> *The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC.* [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs____ on or before _5/24/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

● Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

● Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C_6 thru C_{36}), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

● Nominal detection limits for field and laboratory analyses must be provided.

● Composite sampling is not generally allowed.

● Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

●Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

● If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

● Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Incident ID	NOY1711428756
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?	<50 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ 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)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ 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?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ 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.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	NOY1711428756
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: _____

email: jtew@aecnm.com Telephone: 575-623-2999

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NOY1711428756
District RP	
Facility ID	
Application ID	

Closure

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

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

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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

Printed Name: Jeffery Tew Title: Operations Engineer

Signature: _____ Date: _____

email: jtew@aecnm.com Telephone: 575-623-2999

OCD Only

Received by: _____ Date: _____

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

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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

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

CONDITIONS

Action 83005

CONDITIONS

Operator: ARMSTRONG ENERGY CORP P.O. Box 1973 Roswell, NM 88202	OGRID: 1092
	Action Number: 83005
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

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