

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	NAPP2134437552
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

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

Location of Release Source

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

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

Unit Letter	Section	Township	Range	County

Surface Owner: State Federal Tribal Private (Name: _____)

Nature and Volume of Release

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

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

Cause of Release

NAPP2134437552

Location:	Nash Deep East Tank Battery	
Spill Date:	12/3/2021	
Area 1		
Approximate Area =	196.51	cu.ft.
VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	35.00	bbls
TOTAL VOLUME OF LEAK		
Total Crude Oil =	0.00	bbls
Total Produced Water =	35.00	bbls
TOTAL VOLUME RECOVERED		
Total Crude Oil =	0.00	bbls
Total Produced Water =	35.00	bbls

Incident ID	NAPP2134437552
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?	_50-100_ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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

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

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

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

Incident ID	NAPP2134437552
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: Adrian Baker Title: Environmental Coordinator

Signature:  Date: 03/03/2022

email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

OCD Only

Received by: _____ Date: _____

Incident ID	NAPP2134437552
District RP	
Facility ID	
Application ID	

Closure

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

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

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

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

Printed Name: Adrian Baker Title: Environmental Coordinator
Signature: *Adrian Baker* Date: 03/03/2022
Email: adrian.baker@exxonmobil.com Telephone: 432-236-3808

ODC Only

Received by: _____ Date: _____

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

Closure Approved by: *Jennifer Nobui* Date: 03/09/2022
Printed Name: Jennifer Nobui Title: Environmental Specialist A



WSP USA

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

March 3, 2022

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

**Re: Closure Request
Nash Deep East
Incident Number NAPP2134437552
Eddy County, New Mexico**

To Whom It May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), presents the following Closure Request detailing site assessment and soil sampling activities at the Nash Deep East (Site) located in Unit P, Section 18, Township 23 South, Range 30 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following the release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, XTO is submitting this Closure Request and requesting no further action (NFA) for Incident Number NAPP2134437552.

RELEASE BACKGROUND

On December 3, 2021, internal corrosion of a 6-inch Victaulic connection resulted in the release of approximately 35 barrels (bbls) of produced water into a lined tank battery containment. A vacuum truck was immediately dispatched to the Site to recover freestanding fluids; all 35 bbls of the released produced water were recovered from within the lined containment. A 48-hour advance notice of the liner inspection was provided via email to New Mexico Oil Conservation Division (NMOCD) District II office. The liner integrity inspection was conducted by XTO personnel following the fluid recovery and upon inspection, the liner was determined to be insufficient. XTO submitted a Release Notification Form C-141 (Form C-141) on December 10, 2021. The release was assigned Incident Number NAPP2134437552.

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50-100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well



321742103552601, located approximately 0.69 miles southwest of the Site. The groundwater well has a reported depth to groundwater of 66 feet bgs and a total depth of 100 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1.

The closest continuously flowing water or significant watercourse to the Site is a dry wash, located approximately 332 feet southwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is underlain by unstable geology (high 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 ACTIVITIES AND ANALYTICAL RESULTS

On December 29, 2021, 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 one borehole (BH01) via hand-auger at the location of the tear in the liner identified during the liner integrity inspection. Three soil samples (BH01, BH01A, and BH01B) were collected from borehole BH01 at depths of approximately 0.5 feet, 1-foot, and 3.5 feet bgs. Soil from the delineation samples was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively. Field screening results and observations from the borehole were documented on a lithologic/soil sampling log which is included as Attachment 2. The borehole was backfilled with the soil removed and XTO repaired the tear in the liner. The borehole delineation soil sample location is depicted on Figure 2. Photographic documentation was conducted during the Site visit. The photographic log is included in Attachment 3.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to



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 samples BH01, BH01A, and BH01B collected at depths of 0.5 feet, 1-foot, and 3.5 feet bgs, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Attachment 4.

CLOSURE REQUEST

Following the failed liner integrity inspection at the Site, WSP personnel advanced one borehole (BH01) at the location of the tear in the liner to assess for the presence or absence of soil impacts resulting from the December 3, 2021 produced water release within lined containment. Three delineation soil samples were collected from borehole BH01 at depths of approximately 0.5 feet, 1-foot, and 3.5 feet bgs. Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Additionally, field screening of soil from the borehole indicated no elevated volatile aromatic hydrocarbons or chloride concentrations beneath the tear in the liner. The release was contained laterally by the lined containment and all released fluids were recovered during initial response activities. The tear in the liner was subsequently repaired.

Based on initial response efforts, absence of elevated field screening results, and soil sample laboratory analytical results compliant with the Closure Criteria directly below the tear in the liner, XTO respectfully requests NFA for Incident Number NAPP2134437552.

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

Sincerely,

WSP USA Inc.

A handwritten signature in black ink that reads "Hadlie Green".

Hadlie Green
Assistant Consultant, Geologist

A handwritten signature in black ink that reads "Ashley L. Ager".

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

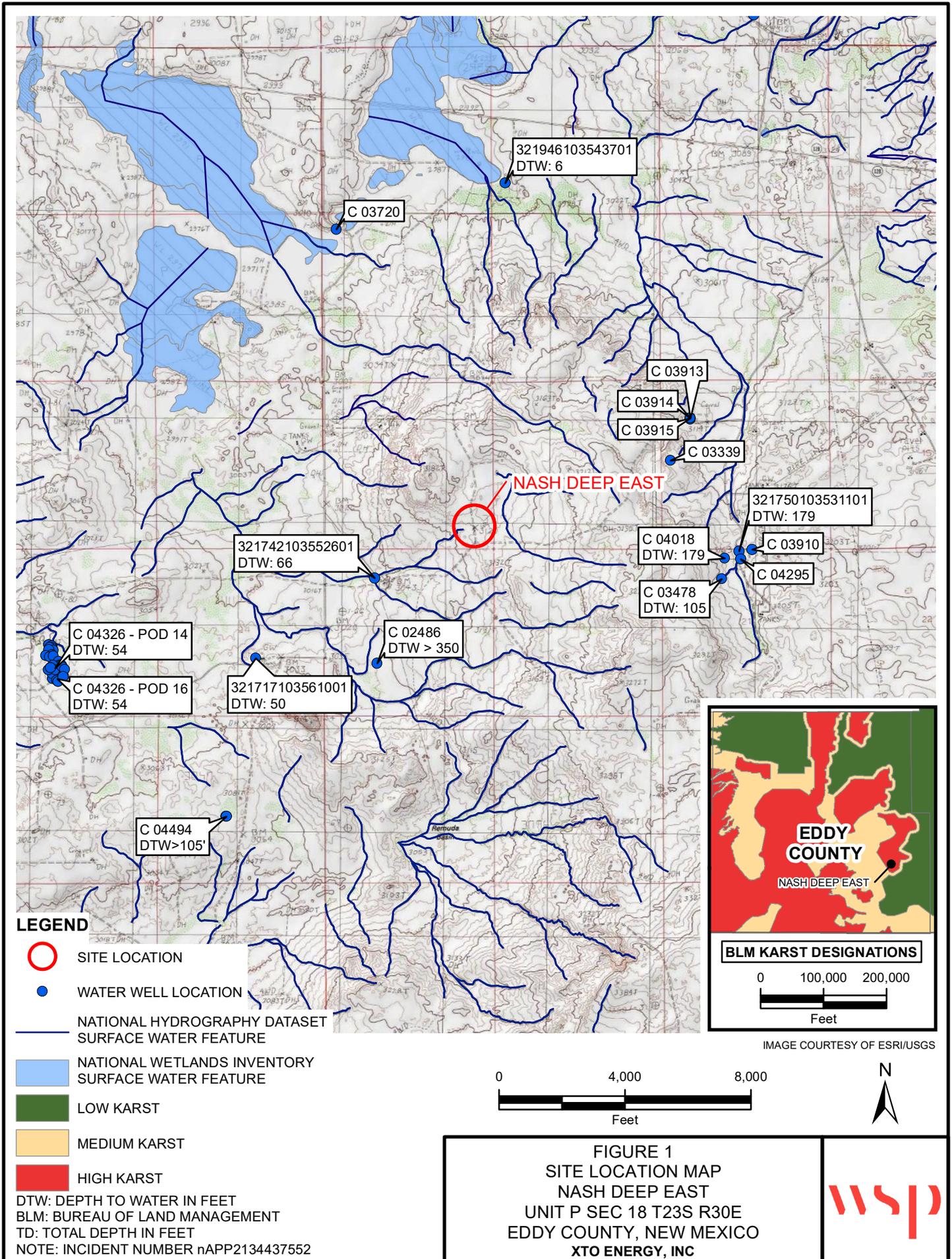


cc: Shelby Pennington, XTO
Adrian Baker, XTO
Bureau of Land Management

Attachments:

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

FIGURES



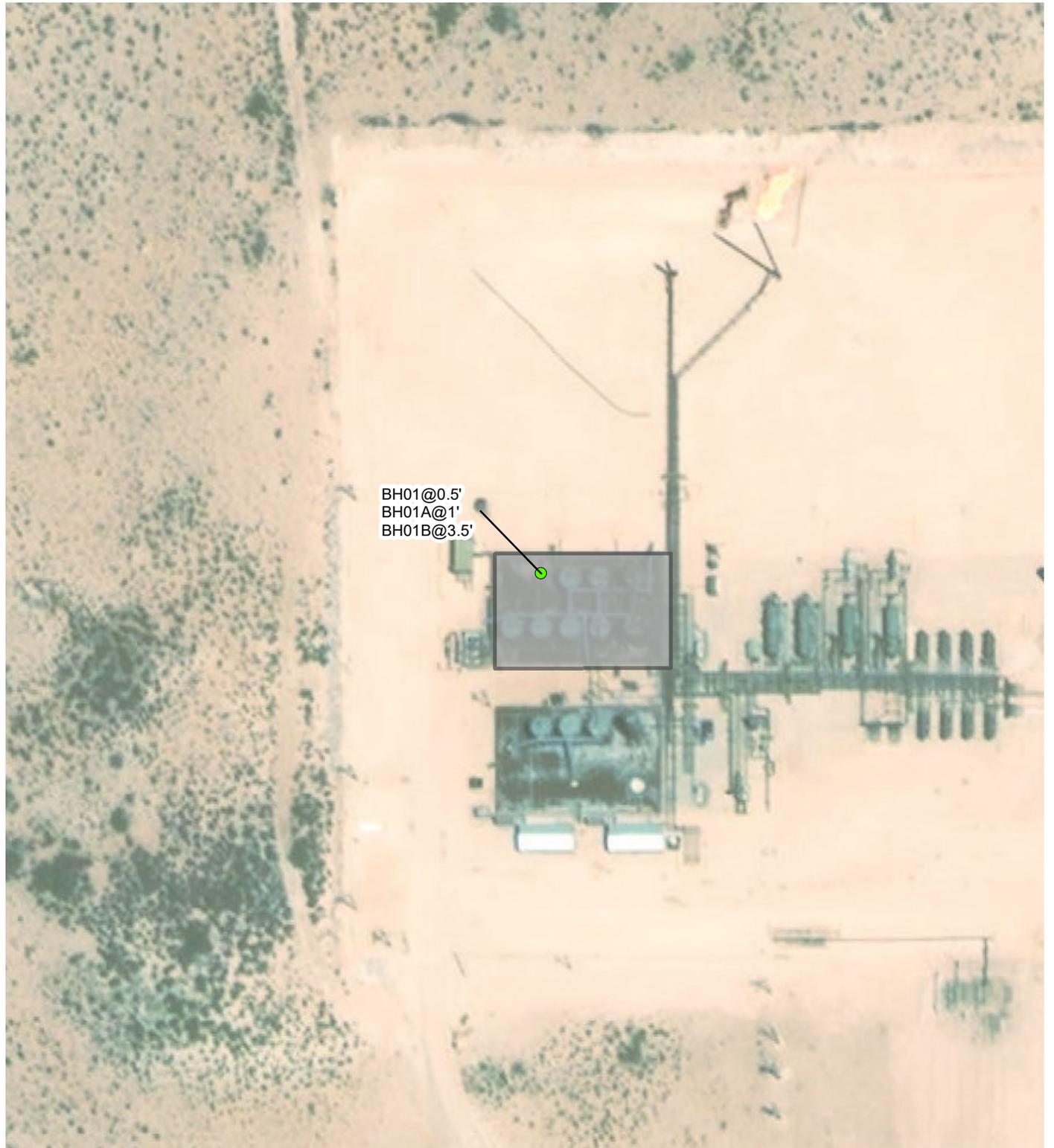
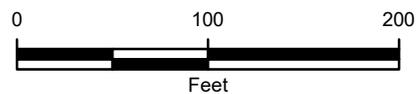


IMAGE COURTESY OF ESRI

LEGEND

- DELINEATION SOIL SAMPLE IN COMPLIANCE WITH APPLICABLE CLOSURE CRITERIA
- CONTAINMENT



NOTE: INCIDENT NUMBER nAPP2134437552
SAMPLE ID@DEPTH BELOW GROUND SURFACE (FEET)

FIGURE 2
DELINEATION SOIL SAMPLE LOCATIONS
 NASH DEEP EAST
 UNIT P SEC 18 T23S R30E
 EDDY COUNTY, NEW MEXICO
 XTO ENERGY, INC.



TABLES

Table 1
Soil Analytical Results
Nash Deep East
Incident Number NAPP2134437552
Eddy 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
Delineation Soil Samples										
BH01	12/29/2021	0.5	<0.00200	0.0337	<49.9	<49.9	<49.9	<49.9	<49.9	228
BH01A	12/29/2021	1	<0.00199	<0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	69.5
BH01B	12/29/2021	3.5	<0.00198	<0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	201

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

ATTACHMENT 1: REFERENCED WELL RECORDS



USGS Home
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National Water Information System: Web Interface

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

Click to hide News Bulletins

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

USGS 321742103552601 23S.30E.19.123421

Available data for this site SUMMARY OF ALL AVAILABLE DATA GO

Well Site

DESCRIPTION:

Latitude 32°17'42", Longitude 103°55'26" NAD27
Eddy County, New Mexico , Hydrologic Unit 13060011
Well depth: 100 feet
Land surface altitude: 3,034 feet above NAVD88.
Well completed in "Other aquifers" (N9999OTHER) national aquifer.
Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1959-02-06	1993-05-06	8
Field/Lab water-quality samples	1972-09-20	1972-09-20	1
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](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

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

Title: NWIS Site Information for USA: Site Inventory

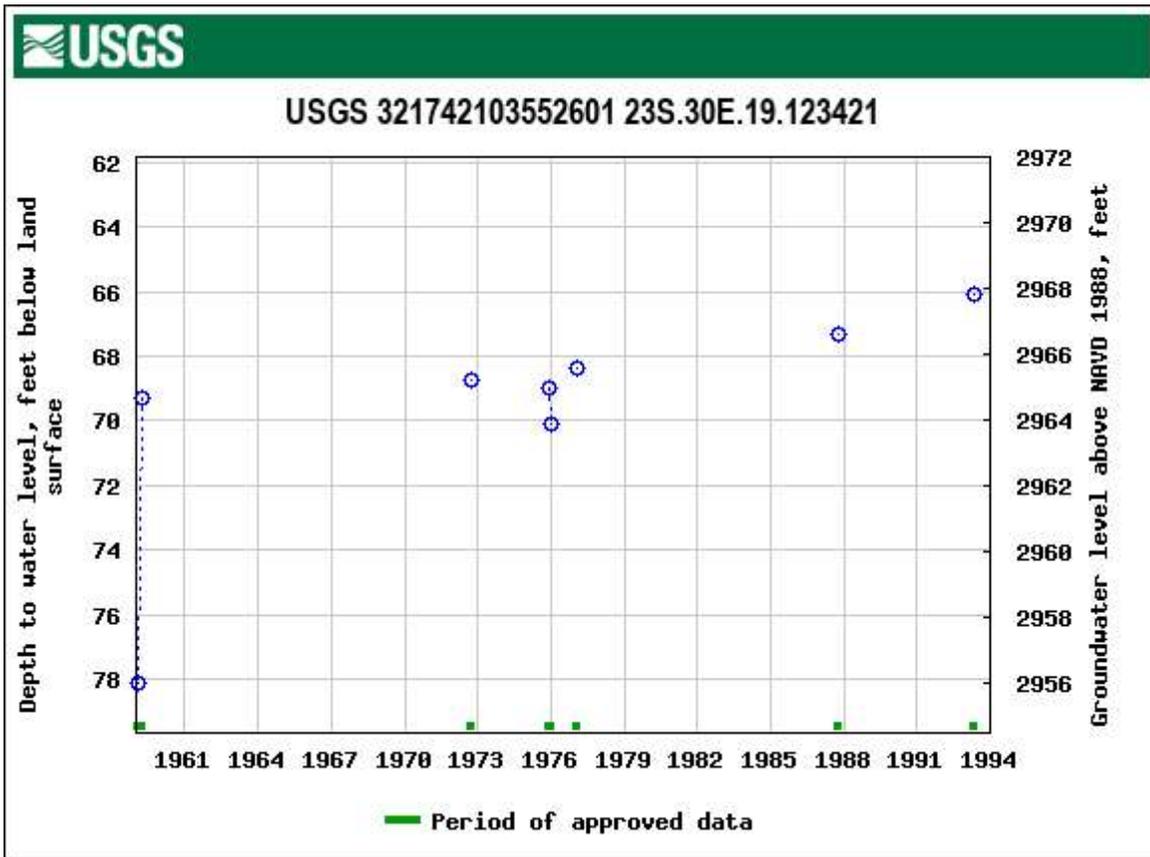
URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=321742103552601



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

Page Last Modified: 2021-12-16 16:08:41 EST

0.32 0.31 vaww01





New Mexico Office of the State Engineer

Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)							
		(quarters are smallest to largest)					(NAD83 UTM in meters)		
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
C	02486	3	2	3	19	23S	30E	601304	3572832* 

Driller License:	1184	Driller Company:	WEST TEXAS WATER WELL SERVICE		
Driller Name:	COLLIS, ROBERT E. (LD)				
Drill Start Date:	01/26/1996	Drill Finish Date:	01/29/1996	Plug Date:	
Log File Date:	03/13/1996	PCW Rcv Date:		Source:	
Pump Type:		Pipe Discharge Size:		Estimated Yield:	
Casing Size:		Depth Well:	350 feet	Depth Water:	

*UTM location was derived from PLSS - see Help

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

1/6/22 10:06 AM

POINT OF DIVERSION SUMMARY

<p>WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220</p>					BH or PH Name: BH01		Date: 12/29/2021					
					Site Name: Nash Deep East				RP or Incident Number: NAPP2134437552			
					WSP Job Number: 31403236.020.0129				Logged By: CS		Method: Hand Auger	
					LITHOLOGIC / SOIL SAMPLING LOG				Lat/Long: 32.29980, -103.91394		Field Screening: Chloride, PID	
Comments:					Hole Diameter: 3"		Total Depth: 3.5'					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithology/Remarks				
					0							
D	<179.2	10.2	N	BH01	0.5	0.5	SC	DARK BROWN SAND				
D	<179.2	0.5	N	BH01A	1	1	SC	BROWN SAND				
D			N		1.5	1.5	SC					
D	297	0.3	N		2	2	SC	SAA				
D			N		2.5	2.5	SC					
D	<179.2	0.5	N		3	3	SC	SAA				
D	<179.2	1.0	N	BH01B	3.5	3.5	SC	SAND AND CALICHE				
TD @ 3.5 ft bgs												

ATTACHMENT 3: PHOTOGRAPHIC LOG



PHOTOGRAPHIC LOG

XTO Energy, Inc.	Nash Deep East Eddy County, New Mexico	NAPP2134437552
-------------------------	---------------------------------------------------------	-----------------------

Photo No.	Date	
1	December 9, 2021	
View facing west showing liner deficiency.		

Photo No.	Date	
2	December 29, 2021	
View of location of BH01 in lined containment.		

ATTACHMENT 4: LABORATORY ANALYTICAL REPORTS



Environment Testing
America

- 1
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- 11
- 12
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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1780-1
Laboratory Sample Delivery Group: #31403236.020.0129
Client Project/Site: NASH DEEP EAST BATTERY
Revision: 1

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

Attn: Tacoma Morrissey

Authorized for release by:
1/11/2022 9:01:31 AM

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



LINKS

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www.eurofinsus.com/Env

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

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

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Laboratory Job ID: 890-1780-1
SDG: #31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

Job ID: 890-1780-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1780-1

REVISION

The report being provided is a revision of the original report sent on 1/5/2022. The report (revision 1) is being revised due to Per client email, revise sampel ID from BH01 to BH01A.

Report revision history

Receipt

The samples were received on 12/29/2021 3:08 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 4.4°C

GC VOA

Method 8021B: 4-Bromofluorobenzene recovery for the following sample was outside control limits: BH01 (890-1780-1). 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

Method 8015MOD_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-15882 and analytical batch 880-15874 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD_NM: Surrogate recovery for the following sample was outside control limits: BH01A (890-1780-2). Evidence of matrix interferences is not obvious.

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

HPLC/IC

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



Client Sample Results

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-1780-1
SDG: #31403236.020.0129

Client Sample ID: BH01

Lab Sample ID: 890-1780-1

Date Collected: 12/29/21 10:30

Matrix: Solid

Date Received: 12/29/21 15:08

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		01/03/22 10:15	01/03/22 19:23	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 19:23	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/03/22 10:15	01/03/22 19:23	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/03/22 10:15	01/03/22 19:23	1
o-Xylene	0.0337		0.00200	mg/Kg		01/03/22 10:15	01/03/22 19:23	1
Xylenes, Total	0.0337		0.00400	mg/Kg		01/03/22 10:15	01/03/22 19:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130	01/03/22 10:15	01/03/22 19:23	1
1,4-Difluorobenzene (Surr)	95		70 - 130	01/03/22 10:15	01/03/22 19:23	1

Method: Total BTEX - Total BTEX Calculation

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.0337		0.00400	mg/Kg			01/05/22 13:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9	mg/Kg			01/05/22 14:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	49.9	mg/Kg		01/03/22 10:55	01/03/22 21:27	1
Diesel Range Organics (Over C10-C28)	<49.9	U F1	49.9	mg/Kg		01/03/22 10:55	01/03/22 21:27	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		01/03/22 10:55	01/03/22 21:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	132	S1+	70 - 130	01/03/22 10:55	01/03/22 21:27	1
o-Terphenyl	133	S1+	70 - 130	01/03/22 10:55	01/03/22 21:27	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	228		5.04	mg/Kg			01/04/22 09:57	1

Client Sample ID: BH01A

Lab Sample ID: 890-1780-2

Date Collected: 12/29/21 10:45

Matrix: Solid

Date Received: 12/29/21 15:08

Sample Depth: 1.0

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 19:44	1
Toluene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 19:44	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 19:44	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		01/03/22 10:15	01/03/22 19:44	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		01/03/22 10:15	01/03/22 19:44	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		01/03/22 10:15	01/03/22 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130	01/03/22 10:15	01/03/22 19:44	1

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Client Sample Results

Client: WSP USA Inc.
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
 SDG: #31403236.020.0129

Client Sample ID: BH01A

Lab Sample ID: 890-1780-2

Date Collected: 12/29/21 10:45

Matrix: Solid

Date Received: 12/29/21 15:08

Sample Depth: 1.0

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	95		70 - 130	01/03/22 10:15	01/03/22 19:44	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			01/05/22 13:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/05/22 14:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/03/22 22:30	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/03/22 22:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/03/22 22:30	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	144	S1+	70 - 130	01/03/22 10:55	01/03/22 22:30	1
o-Terphenyl	149	S1+	70 - 130	01/03/22 10:55	01/03/22 22:30	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	69.5		4.97	mg/Kg			01/04/22 10:21	1

Surrogate Summary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (70-130)	DFBZ1 (70-130)
880-9761-A-1-F MS	Matrix Spike	105	103
880-9761-A-1-G MSD	Matrix Spike Duplicate	115	112
890-1780-1	BH01	107	95
890-1780-2	BH01A	109	95
LCS 880-15880/1-A	Lab Control Sample	110	104
LCSD 880-15880/2-A	Lab Control Sample Dup	104	99
MB 880-15880/5-A	Method Blank	118	104

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)
890-1780-1	BH01	132 S1+	133 S1+
890-1780-1 MS	BH01	118	113
890-1780-1 MSD	BH01	119	117
890-1780-2	BH01A	144 S1+	149 S1+
LCS 880-15882/2-A	Lab Control Sample	101	84
LCSD 880-15882/3-A	Lab Control Sample Dup	105	87
MB 880-15882/1-A	Method Blank	112	126

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-1780-1
SDG: #31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15880/5-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15880

Analyte	MB MB		RL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Benzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 16:07	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	118		70 - 130	01/03/22 10:15	01/03/22 16:07	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/03/22 10:15	01/03/22 16:07	1

Lab Sample ID: LCS 880-15880/1-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	0.100	0.08444		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08959		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08893		mg/Kg		89	70 - 130

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-15880/2-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Benzene	0.100	0.07867		mg/Kg		79	70 - 130	4	35
Toluene	0.100	0.07724		mg/Kg		77	70 - 130	9	35
Ethylbenzene	0.100	0.08677		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1679		mg/Kg		84	70 - 130	7	35
o-Xylene	0.100	0.08165		mg/Kg		82	70 - 130	9	35

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-9761-A-1-F MS

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	<0.00200	U	0.0990	0.07015		mg/Kg		71	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

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

Lab Sample ID: 880-9761-A-1-F MS
Matrix: Solid
Analysis Batch: 15550

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0990	0.07018		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.198	0.1314	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U	0.0990	0.06933		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-9761-A-1-G MSD
Matrix: Solid
Analysis Batch: 15550

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07134		mg/Kg		71	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.07064		mg/Kg		71	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.07258		mg/Kg		73	70 - 130	3	35
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.1504		mg/Kg		75	70 - 130	13	35
o-Xylene	<0.00200	U	0.100	0.07389		mg/Kg		74	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-15882/1-A
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 15882

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		01/03/22 10:55	01/03/22 20:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/03/22 20:25	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 10:55	01/03/22 20:25	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	01/03/22 10:55	01/03/22 20:25	1
o-Terphenyl	126		70 - 130	01/03/22 10:55	01/03/22 20:25	1

Lab Sample ID: LCS 880-15882/2-A
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15882

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	861.5		mg/Kg		86	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1101		mg/Kg		110	70 - 130

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QC Sample Results

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

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

Lab Sample ID: LCS 880-15882/2-A
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15882

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	101		70 - 130
o-Terphenyl	84		70 - 130

Lab Sample ID: LCSD 880-15882/3-A
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15882

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits		RPD	
							RPD	Limit		
Gasoline Range Organics (GRO)-C6-C10	1000	940.4		mg/Kg		94	70 - 130	9	20	
Diesel Range Organics (Over C10-C28)	1000	1162		mg/Kg		116	70 - 130	5	20	

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	105		70 - 130
o-Terphenyl	87		70 - 130

Lab Sample ID: 890-1780-1 MS
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 15882

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits	
									RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	996	515.1	F1	mg/Kg		50	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	996	491.8	F1	mg/Kg		49	70 - 130	

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	118		70 - 130
o-Terphenyl	113		70 - 130

Lab Sample ID: 890-1780-1 MSD
Matrix: Solid
Analysis Batch: 15874

Client Sample ID: BH01
Prep Type: Total/NA
Prep Batch: 15882

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	
									RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F1	999	522.7	F1	mg/Kg		51	70 - 130	
Diesel Range Organics (Over C10-C28)	<49.9	U F1	999	512.8	F1	mg/Kg		51	70 - 130	

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	119		70 - 130
o-Terphenyl	117		70 - 130

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QC Sample Results

Client: WSP USA Inc.
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
 SDG: #31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15878/1-A
 Matrix: Solid
 Analysis Batch: 15923

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			01/04/22 08:47	1

Lab Sample ID: LCS 880-15878/2-A
 Matrix: Solid
 Analysis Batch: 15923

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-15878/3-A
 Matrix: Solid
 Analysis Batch: 15923

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	246.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1779-A-1-B MS
 Matrix: Solid
 Analysis Batch: 15923

Client Sample ID: Matrix Spike
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1110		250	1297	4	mg/Kg		74	90 - 110

Lab Sample ID: 890-1779-A-1-C MSD
 Matrix: Solid
 Analysis Batch: 15923

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1110		250	1287	4	mg/Kg		70	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

GC VOA

Analysis Batch: 15550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1780-1	BH01	Total/NA	Solid	8021B	15880
890-1780-2	BH01A	Total/NA	Solid	8021B	15880
MB 880-15880/5-A	Method Blank	Total/NA	Solid	8021B	15880
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	8021B	15880
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15880
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	15880
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15880

Prep Batch: 15880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1780-1	BH01	Total/NA	Solid	5035	
890-1780-2	BH01A	Total/NA	Solid	5035	
MB 880-15880/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1780-1	BH01	Total/NA	Solid	Total BTEX	
890-1780-2	BH01A	Total/NA	Solid	Total BTEX	

GC Semi VOA

Analysis Batch: 15874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1780-1	BH01	Total/NA	Solid	8015B NM	15882
890-1780-2	BH01A	Total/NA	Solid	8015B NM	15882
MB 880-15882/1-A	Method Blank	Total/NA	Solid	8015B NM	15882
LCS 880-15882/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15882
LCSD 880-15882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15882
890-1780-1 MS	BH01	Total/NA	Solid	8015B NM	15882
890-1780-1 MSD	BH01	Total/NA	Solid	8015B NM	15882

Prep Batch: 15882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1780-1	BH01	Total/NA	Solid	8015NM Prep	
890-1780-2	BH01A	Total/NA	Solid	8015NM Prep	
MB 880-15882/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15882/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15882/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1780-1 MS	BH01	Total/NA	Solid	8015NM Prep	
890-1780-1 MSD	BH01	Total/NA	Solid	8015NM Prep	

Analysis Batch: 16097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1780-1	BH01	Total/NA	Solid	8015 NM	
890-1780-2	BH01A	Total/NA	Solid	8015 NM	

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

HPLC/IC

Leach Batch: 15878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1780-1	BH01	Soluble	Solid	DI Leach	
890-1780-2	BH01A	Soluble	Solid	DI Leach	
MB 880-15878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1779-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1779-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1780-1	BH01	Soluble	Solid	300.0	15878
890-1780-2	BH01A	Soluble	Solid	300.0	15878
MB 880-15878/1-A	Method Blank	Soluble	Solid	300.0	15878
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	300.0	15878
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15878
890-1779-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	15878
890-1779-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15878

Lab Chronicle

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

Client Sample ID: BH01

Lab Sample ID: 890-1780-1

Date Collected: 12/29/21 10:30

Matrix: Solid

Date Received: 12/29/21 15:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	15550	01/03/22 19:23	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15874	01/03/22 21:27	AJ	XEN MID
Soluble	Leach	DI Leach			15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		1	15923	01/04/22 09:57	CH	XEN MID

Client Sample ID: BH01A

Lab Sample ID: 890-1780-2

Date Collected: 12/29/21 10:45

Matrix: Solid

Date Received: 12/29/21 15:08

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	15550	01/03/22 19:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15882	01/03/22 10:55	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15874	01/03/22 22:30	AJ	XEN MID
Soluble	Leach	DI Leach			15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		1	15923	01/04/22 10:21	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: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

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

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

Method Summary

Client: WSP USA Inc.
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
 SDG: #31403236.020.0129

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: NASH DEEP EAST BATTERY

Job ID: 890-1780-1
SDG: #31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1780-1	BH01	Solid	12/29/21 10:30	12/29/21 15:08	0.5
890-1780-2	BH01A	Solid	12/29/21 10:45	12/29/21 15:08	1.0

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1780-1
SDG Number: #31403236.020.0129

Login Number: 1780
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	

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1780-1
SDG Number: #31403236.020.0129

Login Number: 1780
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Midland
List Creation: 01/03/22 08:31 AM

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

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Environment Testing
America

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ANALYTICAL REPORT

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

Laboratory Job ID: 890-1781-1
Laboratory Sample Delivery Group: #31403236.020.0129
Client Project/Site: NASH DEEP EAST BATTERY
Revision: 1

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

Attn: Tacoma Morrissey

Authorized for release by:
1/11/2022 9:03:19 AM

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



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

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

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Laboratory Job ID: 890-1781-1
SDG: #31403236.020.0129

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Definitions/Glossary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

Qualifiers

GC VOA

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

GC Semi VOA

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

HPLC/IC

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
U	Indicates the analyte was analyzed for but not detected.

Glossary

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

Case Narrative

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

Job ID: 890-1781-1

Laboratory: Eurofins Carlsbad

Narrative

Job Narrative 890-1781-1

REVISION

The report being provided is a revision of the original report sent on 1/5/2022. The report (revision 1) is being revised due to Per client email, revised sample ID from BH01 to BH01B.

Report revision history

Receipt

The sample was received on 12/29/2021 3:09 PM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.4°C

GC VOA

Method 8021B: 4-Bromofluorobenzene recovery for the following sample was outside control limits: BH01B (890-1781-1). 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: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

Client Sample ID: BH01B

Lab Sample ID: 890-1781-1

Date Collected: 12/29/21 12:45

Matrix: Solid

Date Received: 12/29/21 15:09

Sample Depth: 3.5

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 21:34	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 21:34	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 21:34	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 21:34	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 21:34	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 21:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130	01/03/22 10:15	01/03/22 21:34	1
1,4-Difluorobenzene (Surr)	92		70 - 130	01/03/22 10:15	01/03/22 21:34	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			01/05/22 13:44	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0	mg/Kg			01/05/22 14:19	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 19:44	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 19:44	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 19:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	171	S1+	70 - 130	01/03/22 09:26	01/03/22 19:44	1
o-Terphenyl	166	S1+	70 - 130	01/03/22 09:26	01/03/22 19:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	201		24.8	mg/Kg			01/04/22 10:29	5

Eurofins Carlsbad

Surrogate Summary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1	DFBZ1
		(70-130)	(70-130)
880-9761-A-1-F MS	Matrix Spike	105	103
880-9761-A-1-G MSD	Matrix Spike Duplicate	115	112
890-1781-1	BH01B	116	92
LCS 880-15880/1-A	Lab Control Sample	110	104
LCSD 880-15880/2-A	Lab Control Sample Dup	104	99
MB 880-15880/5-A	Method Blank	118	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO1	OTPH1
		(70-130)	(70-130)
890-1776-A-1-F MS	Matrix Spike	123	101
890-1776-A-1-G MSD	Matrix Spike Duplicate	122	114
890-1781-1	BH01B	171 S1+	166 S1+

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	1CO2	OTPH2
		(70-130)	(70-130)
LCS 880-15867/2-A	Lab Control Sample	106	101
LCSD 880-15867/3-A	Lab Control Sample Dup	116	103
MB 880-15867/1-A	Method Blank	112	115

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

QC Sample Results

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-15880/5-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15880

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Toluene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Ethylbenzene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
m-Xylene & p-Xylene	<0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
o-Xylene	<0.00198	U	0.00198	mg/Kg		01/03/22 10:15	01/03/22 16:07	1
Xylenes, Total	<0.00397	U	0.00397	mg/Kg		01/03/22 10:15	01/03/22 16:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130	01/03/22 10:15	01/03/22 16:07	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/03/22 10:15	01/03/22 16:07	1

Lab Sample ID: LCS 880-15880/1-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.07590		mg/Kg		76	70 - 130
Toluene	0.100	0.08444		mg/Kg		84	70 - 130
Ethylbenzene	0.100	0.08959		mg/Kg		90	70 - 130
m-Xylene & p-Xylene	0.200	0.1803		mg/Kg		90	70 - 130
o-Xylene	0.100	0.08893		mg/Kg		89	70 - 130

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1,4-Difluorobenzene (Surr)	104		70 - 130

Lab Sample ID: LCSD 880-15880/2-A

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.07867		mg/Kg		79	70 - 130	4	35
Toluene	0.100	0.07724		mg/Kg		77	70 - 130	9	35
Ethylbenzene	0.100	0.08677		mg/Kg		87	70 - 130	3	35
m-Xylene & p-Xylene	0.200	0.1679		mg/Kg		84	70 - 130	7	35
o-Xylene	0.100	0.08165		mg/Kg		82	70 - 130	9	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

Lab Sample ID: 880-9761-A-1-F MS

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	<0.00200	U	0.0990	0.06999		mg/Kg		71	70 - 130
Toluene	<0.00200	U	0.0990	0.07015		mg/Kg		71	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERYJob ID: 890-1781-1
SDG: #31403236.020.0129

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

Lab Sample ID: 880-9761-A-1-F MS

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	<0.00200	U	0.0990	0.07018		mg/Kg		71	70 - 130
m-Xylene & p-Xylene	<0.00400	U F1	0.198	0.1314	F1	mg/Kg		66	70 - 130
o-Xylene	<0.00200	U	0.0990	0.06933		mg/Kg		70	70 - 130

Surrogate	MS %Recovery	MS Qualifier	MS Limits
4-Bromofluorobenzene (Surr)	105		70 - 130
1,4-Difluorobenzene (Surr)	103		70 - 130

Lab Sample ID: 880-9761-A-1-G MSD

Matrix: Solid

Analysis Batch: 15550

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 15880

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Benzene	<0.00200	U	0.100	0.07134		mg/Kg		71	70 - 130	2	35
Toluene	<0.00200	U	0.100	0.07064		mg/Kg		71	70 - 130	1	35
Ethylbenzene	<0.00200	U	0.100	0.07258		mg/Kg		73	70 - 130	3	35
m-Xylene & p-Xylene	<0.00400	U F1	0.200	0.1504		mg/Kg		75	70 - 130	13	35
o-Xylene	<0.00200	U	0.100	0.07389		mg/Kg		74	70 - 130	6	35

Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	112		70 - 130

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

Lab Sample ID: MB 880-15867/1-A

Matrix: Solid

Analysis Batch: 15869

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 15867

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		01/03/22 09:26	01/03/22 10:58	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 10:58	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		01/03/22 09:26	01/03/22 10:58	1

Surrogate	MB %Recovery	MB Qualifier	MB Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	01/03/22 09:26	01/03/22 10:58	1
o-Terphenyl	115		70 - 130	01/03/22 09:26	01/03/22 10:58	1

Lab Sample ID: LCS 880-15867/2-A

Matrix: Solid

Analysis Batch: 15869

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 15867

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	1094		mg/Kg		109	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1030		mg/Kg		103	70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

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

Lab Sample ID: LCS 880-15867/2-A
Matrix: Solid
Analysis Batch: 15869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 15867

Surrogate	LCS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	106		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: LCSD 880-15867/3-A
Matrix: Solid
Analysis Batch: 15869

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 15867

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
							Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	1000	1023		mg/Kg		102	70 - 130	7		20
Diesel Range Organics (Over C10-C28)	1000	1036		mg/Kg		104	70 - 130	1		20

Surrogate	LCSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	116		70 - 130
o-Terphenyl	103		70 - 130

Lab Sample ID: 890-1776-A-1-F MS
Matrix: Solid
Analysis Batch: 15869

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 15867

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec.	
									Limits	RPD
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	996	988.5		mg/Kg		96	70 - 130	
Diesel Range Organics (Over C10-C28)	80.5		996	1038		mg/Kg		96	70 - 130	

Surrogate	MS		Limits
	%Recovery	Qualifier	
1-Chlorooctane	123		70 - 130
o-Terphenyl	101		70 - 130

Lab Sample ID: 890-1776-A-1-G MSD
Matrix: Solid
Analysis Batch: 15869

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 15867

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec.		RPD	Limit
									Limits	RPD		
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	989.9		mg/Kg		96	70 - 130	0		20
Diesel Range Organics (Over C10-C28)	80.5		999	1040		mg/Kg		96	70 - 130	0		20

Surrogate	MSD		Limits
	%Recovery	Qualifier	
1-Chlorooctane	122		70 - 130
o-Terphenyl	114		70 - 130

Eurofins Carlsbad

QC Sample Results

Client: WSP USA Inc.
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
 SDG: #31403236.020.0129

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-15878/1-A
 Matrix: Solid
 Analysis Batch: 15923

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			01/04/22 08:47	1

Lab Sample ID: LCS 880-15878/2-A
 Matrix: Solid
 Analysis Batch: 15923

Client Sample ID: Lab Control Sample
 Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	246.7		mg/Kg		99	90 - 110

Lab Sample ID: LCSD 880-15878/3-A
 Matrix: Solid
 Analysis Batch: 15923

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	246.2		mg/Kg		98	90 - 110	0	20

Lab Sample ID: 890-1779-A-1-B MS
 Matrix: Solid
 Analysis Batch: 15923

Client Sample ID: Matrix Spike
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	1110		250	1297	4	mg/Kg		74	90 - 110

Lab Sample ID: 890-1779-A-1-C MSD
 Matrix: Solid
 Analysis Batch: 15923

Client Sample ID: Matrix Spike Duplicate
 Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	1110		250	1287	4	mg/Kg		70	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

GC VOA

Analysis Batch: 15550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1781-1	BH01B	Total/NA	Solid	8021B	15880
MB 880-15880/5-A	Method Blank	Total/NA	Solid	8021B	15880
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	8021B	15880
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	15880
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	8021B	15880
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	15880

Prep Batch: 15880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1781-1	BH01B	Total/NA	Solid	5035	
MB 880-15880/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-15880/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-15880/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-9761-A-1-F MS	Matrix Spike	Total/NA	Solid	5035	
880-9761-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 16096

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1781-1	BH01B	Total/NA	Solid	Total BTEX	

GC Semi VOA

Prep Batch: 15867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1781-1	BH01B	Total/NA	Solid	8015NM Prep	
MB 880-15867/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-15867/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-15867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1776-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1776-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Analysis Batch: 15869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1781-1	BH01B	Total/NA	Solid	8015B NM	15867
MB 880-15867/1-A	Method Blank	Total/NA	Solid	8015B NM	15867
LCS 880-15867/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	15867
LCSD 880-15867/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	15867
890-1776-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	15867
890-1776-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	15867

Analysis Batch: 16097

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1781-1	BH01B	Total/NA	Solid	8015 NM	

HPLC/IC

Leach Batch: 15878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1781-1	BH01B	Soluble	Solid	DI Leach	
MB 880-15878/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	

Eurofins Carlsbad

QC Association Summary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

HPLC/IC (Continued)

Leach Batch: 15878 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1779-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1779-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

Analysis Batch: 15923

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1781-1	BH01B	Soluble	Solid	300.0	15878
MB 880-15878/1-A	Method Blank	Soluble	Solid	300.0	15878
LCS 880-15878/2-A	Lab Control Sample	Soluble	Solid	300.0	15878
LCSD 880-15878/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	15878
890-1779-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	15878
890-1779-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	15878

Lab Chronicle

Client: WSP USA Inc.
 Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
 SDG: #31403236.020.0129

Client Sample ID: BH01B
Date Collected: 12/29/21 12:45
Date Received: 12/29/21 15:09

Lab Sample ID: 890-1781-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			15880	01/03/22 10:15	KL	XEN MID
Total/NA	Analysis	8021B		1	15550	01/03/22 21:34	KL	XEN MID
Total/NA	Analysis	Total BTEX		1	16096	01/05/22 13:44	AJ	XEN MID
Total/NA	Analysis	8015 NM		1	16097	01/05/22 14:19	AJ	XEN MID
Total/NA	Prep	8015NM Prep			15867	01/03/22 09:26	DM	XEN MID
Total/NA	Analysis	8015B NM		1	15869	01/03/22 19:44	AJ	XEN MID
Soluble	Leach	DI Leach			15878	01/03/22 10:05	CH	XEN MID
Soluble	Analysis	300.0		5	15923	01/04/22 10:29	CH	XEN MID

Laboratory References:

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

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Accreditation/Certification Summary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

Laboratory: Eurofins Midland

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

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

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

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

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Method Summary

Client: WSP USA Inc.
Project/Site: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

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: NASH DEEP EAST BATTERY

Job ID: 890-1781-1
SDG: #31403236.020.0129

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1781-1	BH01B	Solid	12/29/21 12:45	12/29/21 15:09	3.5

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
 Midland, TX (832) 704-5440, San Antonio, TX (210) 509-3334
 EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
 Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Environment Testing
Xenco



Work Order No: _____

www.xenco.com Page 1 of 2

Project Manager:	TACOMA MORRISSEY	Bill to: (if different)	KYLE Litvrell
Company Name:	WSP USA INC	Company Name:	XID Energy
Address:	3300 North A Street	Address:	3104 EAST GREEN STREET
City, State ZIP:	Midland, TX 79705	City, State ZIP:	Carlsbad, NM 88220
Phone:	432.236.3849	Email:	tacoma.morrissey@wsp.com

Project Name:	NRSH DEEP EAST BATTERY	Turn Around	
Project Number:	# 314032 36 020.0129	<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush	
Project Location:	CC: 1056641001	Due Date:	
Sampler's Name:	Connor Shore	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT		Temp Blank:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Wet-Ice:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Samples Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Thermometer ID:	FNR-007	
Cooler Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Correction Factor:	-0.2	
Sample Custody Seals:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Temperature Reading:	4.0	
Total Containers:			Corrected Temperature:	4.4	

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/Comp	# of Cont
B HD 1	S	12/29	1245	3.5	G	1

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

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	12/29/21 3:09			



890-1781 Chain of Custody

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Eurofins Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Eurofins Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Eurofins Xenco. A minimum charge of \$85.00 will be applied to each project and a charge of \$5 for each sample submitted to Eurofins Xenco, but not analyzed. These terms will be enforced unless previously negotiated.



Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1781-1
SDG Number: #31403236.020.0129

Login Number: 1781
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-1781-1
SDG Number: #31403236.020.0129

Login Number: 1781
List Number: 2
Creator: Lowe, Katie

List Source: Eurofins Midland
List Creation: 01/03/22 08:30 AM

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

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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 76904

CONDITIONS

Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380
	Action Number: 76904
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved. Going forward, please submit with Closure Report photos of intact liner.	3/9/2022