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	NAPP2100428768
District RP	· · · · · · · · · · · · · · · · · · ·
Facility ID	
Application ID	

# **Release Notification**

#### **Responsible Party**

Responsible Party XTO Energy	OGRID 5380
Contact Name Kyle Littrell	Contact Telephone 432-221-7331
Contact email Kyle_Littrell@xtoenergy.com	Incident # (assigned by OCD)
Contact mailing address 522 W. Mermod, Carlsbad, NM 88220	•

#### Location of Release Source

Latitude 32.09300

Longitude	-103.99900
(NAD 83 in decimal degrees to 5 deci	

Site Name Thriller	Site Type Battery
Date Release Discovered 12/21/2020	API# (if applicable)

Unit Letter	Section	Township	Range	County
Α	32	258	29E	Eddy

Surface Owner: X 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)

Crude Oil	Volume Released (bbls) .12	Volume Recovered (bbls) 0	
Produced Water	Volume Released (bbls)	Volume Recovered (bbls)	
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	Yes No	
Condensate	Volume Released (bbls)	Volume Recovered (bbls)	
Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)	
Other (describe)       Volume/Weight Released (provide units)       Volume/Weight Recovered (provide units)			
Cause of Release LO wa	as at the Thriller battery when the high pressure flare rele	eased a small amount of fluid which ignited and	

LO was at the Thriller battery when the high pressure flare released a small amount of fluid which ignited and extinguished itself after impacting ground. A regulator on air supply had failed, causing the heater treater to overfill into the flare line. A third-party contractor has been retained for remediation activities.

Page 2

Was this a major release as defined by 19.15.29.7(A) NMAC? Yes No	If YES, for what reason(s) does the responsible party consider this a major release? A release that results in a fire or is the result of a fire.	
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?		
Yes, by Adrian Baker to 'Bratcher, Mike, EMNRD'; 'Venegas, Victoria, EMNRD'; 'Hamlet, Robert, EMNRD'; 'emily.hernandez@state.nm.us'; 'Mann, Ryan' on Tuesday, December 22, 2020 3:46 PM via email.		

#### **Initial Response**

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

 $\mathbf{X}$  The source of the release has been stopped.

X The impacted area has been secured to protect human health and the environment.

Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

NA

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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

Printed Name: Kyle Littrell	Title:
email: Kyle_Littrell@xtoenergy.com	Date: Telephone:
OCD Only	
Received by:	Date:

Page 2 of 71

Received by OCD: 4/21/2021 9:29:05 AM State of New Mexico

Oil Conservation Division

	<b>Page 3 of</b> 7
Incident ID	NAPP2100428768
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Facility ID	
Application ID	

# Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>50-100</u> (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 <b>not</b> 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

Page 3

- 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.

Received by OCD: 4/21/2021 9:29:05 AM Form C-141 State of New Mexico			Page 4 o		
			Incident ID	NAPP2100428768	
Page 4 Oil Conservation Divis	Oil Conservation Division		District RP		
			Facility ID		
			Application ID		
regulations all operators a public health or the enviro failed to adequately inves addition, OCD acceptance and/or regulations. Printed Name: Signature: email: <u>Kyte_Lin</u>	nformation given above is true and complete to the are required to report and/or file certain release no comment. The acceptance of a C-141 report by the tigate and remediate contamination that pose a the e of a C-141 report does not relieve the operator of <u>Kyle Littrell</u> <u>Kyle Littrell</u> <u>ittrell@xtoenergy.com</u>	tifications and perform of OCD does not relieve th reat to groundwater, surf of responsibility for comp 	corrective actions for rele ne operator of liability sh face water, human health pliance with any other fe	eases which may endanger ould their operations have or the environment. In	
OCD Only					
Received by:		Date:			

Page 6

Oil Conservation Division

	<b>Page 5 of</b> 72
Incident ID	NAPP2100428768
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.

<b><u>Closure Report Attachment Checklist</u></b> : Each of the following	items must be included in the closure report.
$\boxtimes$ A scaled site and sampling diagram as described in 19.15.29.	11 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	s of the liner integrity if applicable (Note: appropriate OCD District office
Laboratory analyses of final sampling (Note: appropriate OD	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certaid may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and re- human health or the environment. In addition, OCD acceptance of compliance with any other federal, state, or local laws and/or regul restore, reclaim, and re-vegetate the impacted surface area to the co- accordance with 19.15.29.13 NMAC including notification to the C	ations. The responsible party acknowledges they must substantially onditions that existed prior to the release or their final land use in DCD when reclamation and re-vegetation are complete.
Printed Name: Kyle Littrell	Title: <u>SH&amp;E Supervisor</u>
Signature:	Date:4/1/2021
email: Kyle_Littrell@xtoenergy.com	Telephone: <u>432-221-7331</u>
OCD Orth	
OCD Only Chad Hensley	06/11/2021
Received by: Chad Hensley	Date: 06/11/2021
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible /or regulations.
Closure Approved by:	Date: 06/11/2021
Printed Name: Chad Hensley	Title: Environmental Specialist Advanced

WSP USA

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

April 5, 2021

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

#### RE: Closure Request Thriller Battery Incident Number NAPP2100428768 Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of XTO Energy, Inc. (XTO), is pleased to present the following Closure Request detailing site assessment and soil sampling activities at the Thriller Battery (Site) in Unit A, Section 32, Township 25 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of the site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a small crude oil fire at the Site. Based on the site assessment activities and laboratory analytical results from the soil sampling events, XTO is submitting this Closure Request, and requesting no further action (NFA) for Incident Number NAPP2100428768.

#### **RELEASE BACKGROUND**

On December 21, 2020, a high-pressure flare released a small amount of fluid, which ignited and extinguished itself after reaching the ground. The release was due to a regulator on the air supply that failed and caused the heater-treater to overfill into the flare line. Approximately 0.12 barrels (bbls) of crude oil were released. XTO reported the release immediately via email to the New Mexico Oil Conservation Division (NMOCD), and submitted a Release Notification Form C-141 on January 4, 2021. The release was assigned Incident Number NAPP2100428768.

#### SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, *Closure Criteria for Soils Impacted by a Release*, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50 feet below ground surface (bgs) and 100 feet bgs based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320532104001701, located approximately 0.37 miles west of the Site. The groundwater well was most recently measured in November 1992 with a reported depth to groundwater of 98 feet bgs and a total depth of 128 feet bgs. Ground surface elevation at the groundwater well location is 2,988 feet above mean sea level (amsl), which is approximately 6 feet higher in elevation than

wsp

District II Page 2

the Site. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater.

The closest continuously flowing or significant watercourse to the Site is an intermittent stream, located approximately 2,065 feet east of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

#### **CLOSURE CRITERIA**

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

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

#### SITE ASSESSMENT ACTIVITIES

On January 28, 2021, WSP personnel visited the Site to evaluate the release extent based on information provided on the Form C-141 and visual observations. WSP personnel collected one preliminary assessment soil sample, SS01, within the release extent from a depth of 0.5 feet bgs to assess for the presence or absence of impacted soil. The preliminary soil sample was field screened for volatile aromatic hydrocarbons and chloride utilizing a calibrated photoionization detector (PID) and Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. The release extent and preliminary soil sample location was mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

On March 18, 2021, WSP personnel returned to the Site to oversee additional site assessment activities. Potholes PH01 through PH03 were advanced to a depth of 4 feet bgs within and around the release extent to confirm the absence of impacted soil. Delineation soil samples were collected from each pothole from depths ranging from 2 feet bgs to 4 feet bgs. Soil from the potholes was field screened for volatile aromatic hydrocarbons and chloride utilizing a PID and

vsp

District II Page 3

Hach<sup>®</sup> chloride QuanTab<sup>®</sup> test strips, respectively. Field screening results and observations for the potholes were logged on lithologic/soil sampling log, which are included in Attachment 2. The pothole soil sample locations are depicted on Figure 3. Photographic documentation 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 sample was transported at or below 4 degrees Celsius (°C) under strict chain-of-custody (COC) procedures to Xenco Laboratories (Xenco) in Carlsbad, New Mexico, for analysis of BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-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 preliminary soil sample SS01 and delineation soil samples from potholes PH01 through PH03 indicated that benzene, BTEX, TPH-GRO/TPH-DRO, TPH, and chloride concentrations were compliant with the Site Closure Criteria. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Attachment 4.

#### **CLOSURE REQUEST**

Site assessment activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the December 21, 2020 crude oil fire. Laboratory analytical results for the soil samples collected within the release extent, indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Based on the soil sample analytical results, no impacted soil was identified, and no further remediation was required. As such, XTO respectfully requests no further action for Incident Number NAPP2100428768.

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

Sincerely,

WSP USA Inc.

pen L

Spencer Lo Staff Geologist

Ashley L. Ager

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

# vsp

District II Page 4

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

Attachments:

- Figure 1 Site Location Map
- Figure 2 Preliminary Soil Sample Locations
- Figure 3 Delineation Soil Sample Locations

Table 1 Soil Analytical Results

Attachment 1 Referenced Well Records

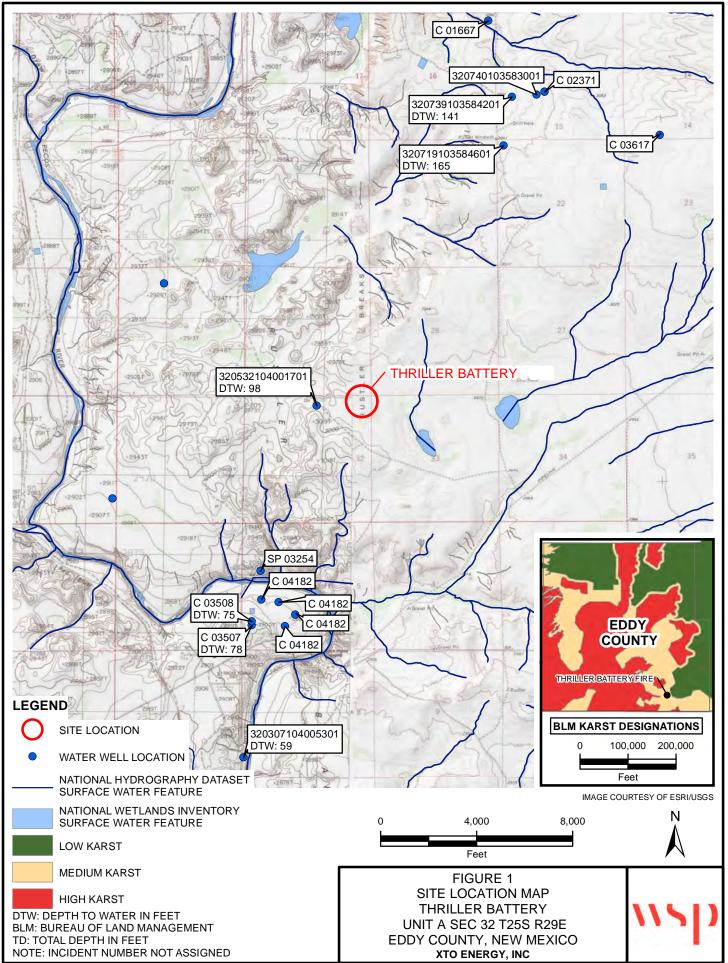
Attachment 2 Lithologic/Sampling Logs

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports

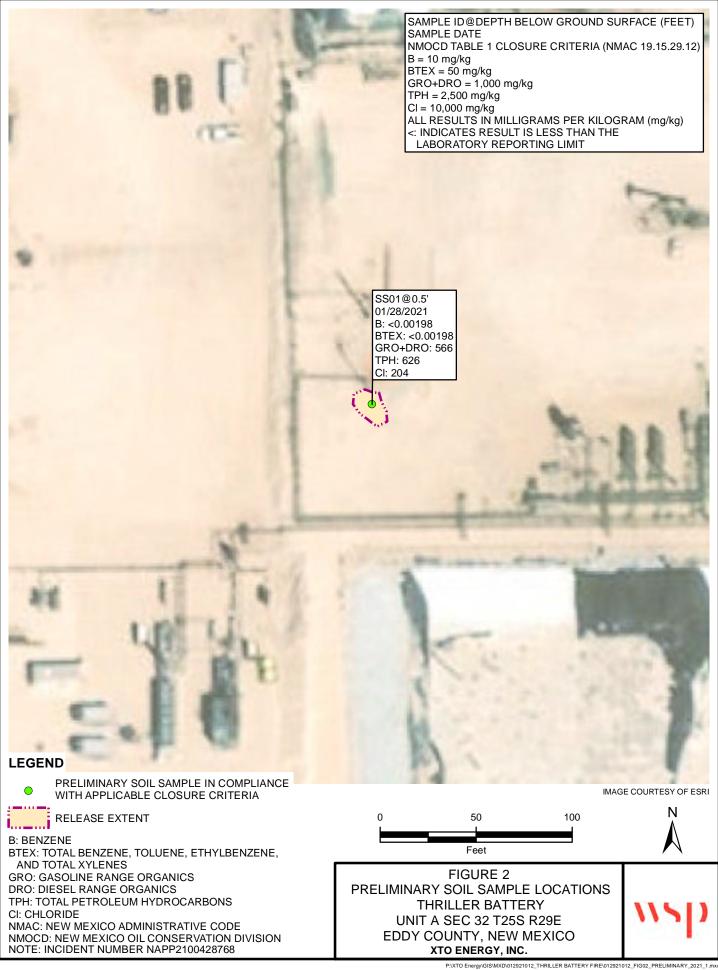
# FIGUR

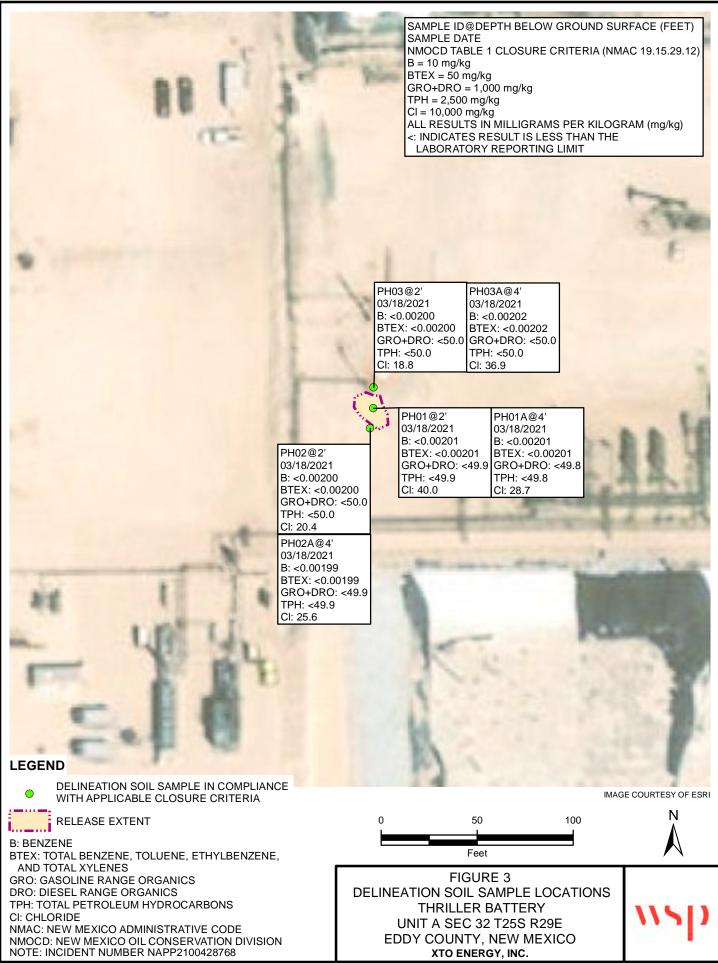
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# TABLES

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#### Table 1

#### Soil Analytical Results Thriller Battery Incident Number NAPP2100428768 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-GRO (mg/kg)	TPH-DRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table 1 Clo	osure Criteria (NMA	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000	
Surface Samples	Surface Samples										
SS01	01/28/2021	0.5	< 0.00198	< 0.00198	<49.8	566	59.6	566	626	204	
Delineation Samples											
PH01	03/18/2021	2	< 0.00201	< 0.00201	<49.9	<49.9	<49.9	<49.9	<49.9	40.0	
PH01A	03/18/2021	4	< 0.00201	< 0.00201	<49.8	<49.8	<49.8	<49.8	<49.8	28.7	
PH02	03/18/2021	2	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	20.4	
PH02A	03/18/2021	4	< 0.00199	< 0.00199	<49.9	<49.9	<49.9	<49.9	<49.9	25.6	
PH03	03/18/2021	2	< 0.00200	< 0.00200	<50.0	<50.0	<50.0	<50.0	<50.0	18.8	
PH03A	03/18/2021	4	< 0.00202	< 0.00202	<50.0	<50.0	<50.0	<50.0	<50.0	36.9	

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 - motor 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

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# USGS 320532104001701 25S.29E.32.21111

#### Available data for this site

#### Well Site

#### **DESCRIPTION:**

Latitude 32°05'32", Longitude 104°00'17" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 128 feet Land surface altitude: 2,988 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

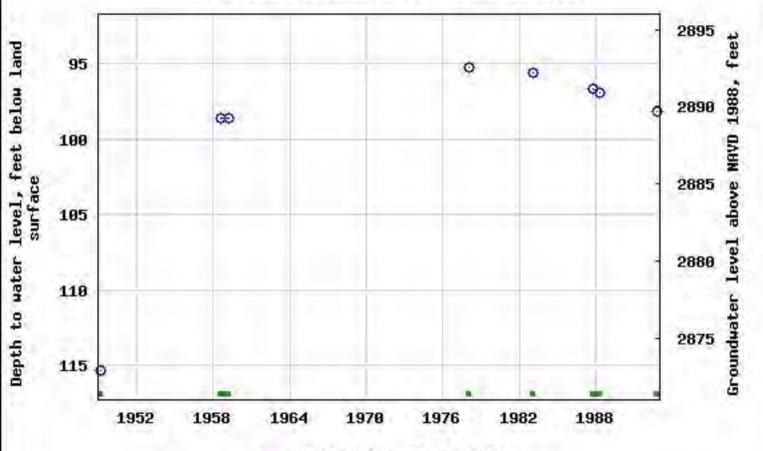
#### AVAILABLE DATA:

Data Type	Begin Date	End Date	Count			
Field groundwater-level measurements	1949-03-11	1992-11-03	24			
Revisions	Unavailable (site:0) (timeseries					

#### **OPERATION:**

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

# USGS 320532104001701 25S.29E.32.21111



Released to Imaging: 6/11/2021 10:13:09 AM Period of approved data

# USGS 320307104005301 26S.28E.13.11214

#### Available data for this site

#### Well Site

#### **DESCRIPTION:**

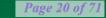
Latitude 32°03'07", Longitude 104°00'53" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: not determined. Land surface altitude: 2,858 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

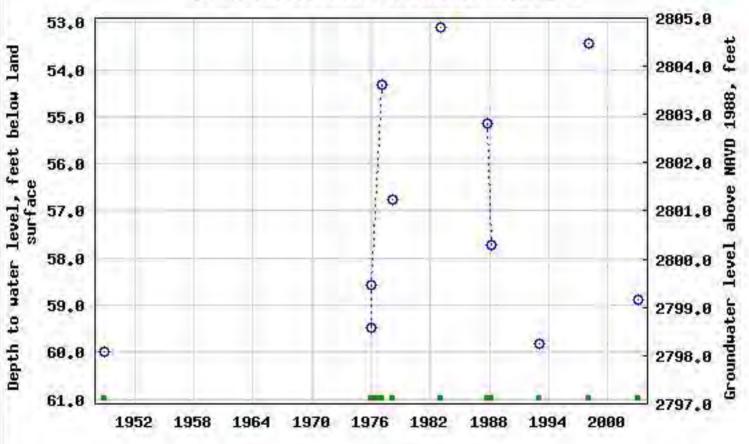
Data Type	Begin Date	End Date	Count			
Field groundwater-level measurements	1948-12-15	2003-01-27	33			
Revisions	Unavailable (site:0) (timeseries:0					

#### **OPERATION:**

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



# USGS 320307104005301 26S.28E.13.11214



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# USGS 320719103584601 25S.29E.16.44444

#### Available data for this site

#### Well Site

#### **DESCRIPTION:**

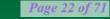
Latitude 32°07'19", Longitude 103°58'46" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 200 feet Land surface altitude: 3,042 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

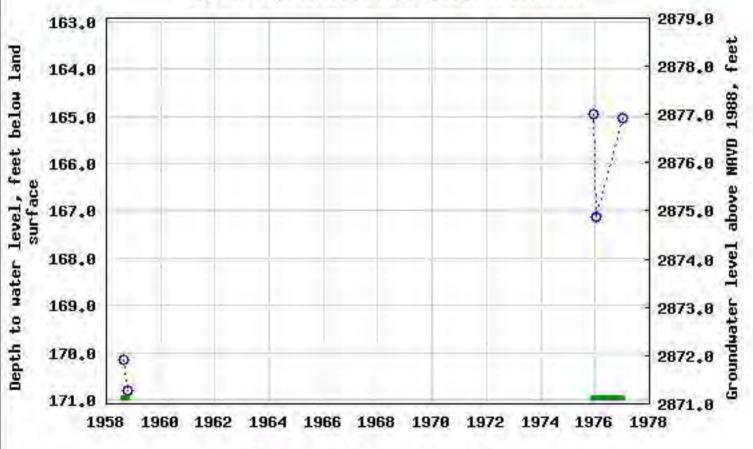
Data Type	Begin Date	End Date	Count			
Field groundwater-level measurements	1958-08-19	1977-01-14	15			
Revisions	Unavailable (site:0) (timeseries:0					

#### **OPERATION:**

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



# USGS 320719103584601 25S.29E.16.44444



Released to Imaging: 6/11/2021 10:13:09 AM Period of approved data

# USGS 320739103584201 25S.29E.15.31134

#### Available data for this site

#### Well Site

#### **DESCRIPTION:**

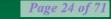
Latitude 32°07'39", Longitude 103°58'42" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011 Well depth: 192 feet Land surface altitude: 3,017 feet above NAVD88. Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

#### AVAILABLE DATA:

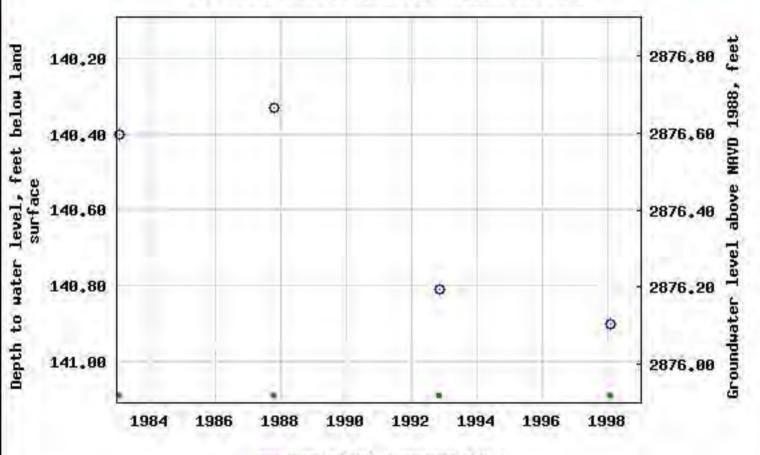
Data Type	Begin Date	End Date	Count			
Field groundwater-level measurements	1983-02-01	1998-01-29	12			
Revisions	Unavailable (site:0) (timeseries:					

#### **OPERATION:**

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



# USGS 320739103584201 25S.29E.15.31134



Released to Imaging: 6/11/2021 10:13:09 AM Period of approved data



# New Mexico Office of the State Engineer Point of Diversion Summary

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Well Tag	POD	) Number	Q64 (	Q16 Q4	Sec	Tws	Rng	Х	Y	
	C 0	3507 POD1	1	3 3	05	26S	29E	593064	3548313 🌍	
x Driller Lic	ense:	1058	Driller	Compa	ny:	KE	Y'S DRII	LLING & P	UMP SERVIC	E
Driller Na	me:	KEY, CLINTON								
Drill Start	Date:	08/26/2011	Drill Fi	nish Da	te:	08	8/26/201	1 <b>Plu</b>	g Date:	
Log File D	ate:	09/12/2011	PCW R	cv Date	e:			Sou	irce:	Shallow
Pump Typ	e:	SUBMER	Pipe Di	scharge	Size	:		Est	imated Yield:	35 GPM
Casing Size: 6.00			Depth V	Well:		14	0 feet	Dej	Depth Water:	
x	Wate	er Bearing Stratific	ations:	Т	op 1	Bottom	Descri	iption		
					78	79	Shale/	Mudstone/S	iltstone	
				1	05	106	Sandst	tone/Gravel/	Conglomerate	
x		Casing Perfo	rations:	Т	op I	Bottom				
					75	112				

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

POINT OF DIVERSION SUMMARY



# New Mexico Office of the State Engineer Point of Diversion Summary

			(quarters (quarter	are 1=N s are sm				(NAD83 U	ΓM in meters)	
Well Tag	POD	Number	Q64 Q	16 Q4	Sec	Tws	Rng	X	Y	
	C 0	3508 POD1	1	3 3	05	26S	29E	593063	3548361 🌍	
x Driller Lic	ense:	1058	Driller C	ompai	ny:	KE	Y'S DRI	LLING & F	UMP SERVIC	E
Driller Na	me:	KEY, CLINTON								
Drill Start	Date:	08/24/2011	Drill Fin	ish Da	te:	08	8/24/201	1 Ph	ıg Date:	
Log File D	ate:	09/12/2011	PCW Rc	v Date	:			So	urce:	Shallow
Pump Typ	e:	SUBMER	Pipe Dise	charge	Size:			Es	timated Yield:	40 GPM
Casing Siz	e:	6.00	Depth W	ell:		140 feet		De	Depth Water:	
x	Wate	er Bearing Stratific	cations:	Т	op E	Bottom	Descr	iption		
				,	75	76	Shale	/Mudstone/S	Siltstone	
x		Casing Perfo	orations:	Te	op E	Bottom				
				(	65	105				

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

POINT OF DIVERSION SUMMARY

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					WSI	P USA			BH or PH Name: PH01	Date: 3/18/2021	
				5	08 West S	tevens <sup>o</sup>	Street		Site Name: Thr		
				Car	08 West S Isbad, Nev	Mexico	88220		RP or Incident Number:	NAPP210042	28768
									LTE Job Number:		
		LITH	OLOG	SIC / SOIL			G		Logged By SL	Method:	Backhoe
Lat/Lot 32.092	ng: 2375,-103.9	999386			Field Scree Chloride, P				Hole Diameter:	Total Depth: 4'	
Comm	ents:										
Field s	creening v	alue inclu	udes 60	0% error facto	or. TD @ 4'						
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol			ogy/Remarks	
D	<186	0.0	ZZ	PH01 PH01A	2' - - - - - - - - - - - - - - - - - - -	0 1 2 3 4 5 6 7 8 9 10 11	SP-SM	0-4'	Sand w/ caliche grav stain, trace silt	rel, well sorted, b	rown, no odor, no
					-	12					

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					WSF	VUSA			BH or PH Name: PH02	Date: 3/18/2021	
				-		tovore	Street		Site Name: Thrille		
				Car	08 West S Isbad, Nev	Mexico	88220		RP or Incident Number:	NAPP2100428	768
									LTE Job Number:		
		LITH	OLOG	SIC / SOIL			G		Logged By SL	Method:	Backhoe
Lat/Lo	ng:	000001			Field Scree				Hole Diameter:	Total Depth:	
32.902 Comm	2347,-103. nents:	999391			Chloride, P	U			-	4'	
		alue incl	udes 60	0% error facto	or. TD @ 4'						
<u>ب</u> (۵	d)		D	#	O a marta		USCS/Rock Symbol				
stur	orid m)	por m)	nin	ple	Sample Depth	Depth	/Rc lbo		Litholog	y/Remarks	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	(ft bgs)	(ft bgs)	Syn		Littolog	gyr centarico	
20	0		0)	S	(.1.290)		n SU				
					_	0		0-4'	Sand w/ caliche gravel	, well sorted, bro	own, no odor, no
					_				stain, trace silt		
						-					
						1					
						-					
D	<186	0.0	Ν	PH02	2'	2	SP-SM				
					-						
						-					
					_	3					
					-						
						-					
D	<186	0.0	Ν	PH02A	4'	4					
					-				TD @ 4'		
						-					
						5					
					-						
						-					
					_	6					
					_						
					-	-					
					-	7					
					-						
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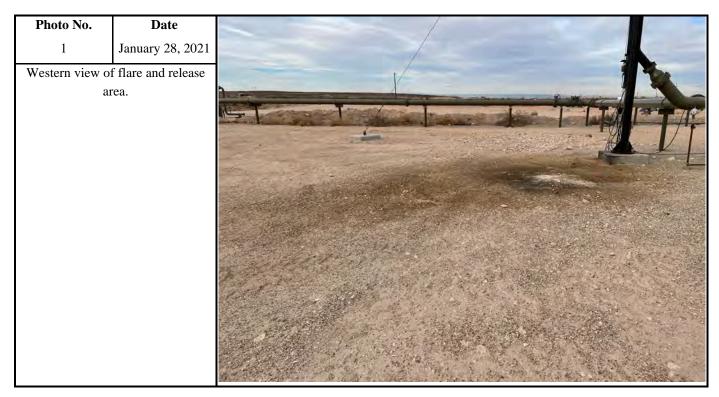
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					WSF	P USA			BH or PH Name:	Date:	
									PH03	3/18/2021	
				5 Car	08 West S Isbad, Nev	tevens S	Street		Site Name: Thriller RP or Incident Number:	NAPP2100428	768
				Cal	isbau, nev	MCAICU	, 00220		LTE Job Number:	11/11/2100420	
		LITH	OLOG	SIC / SOIL	SAMPL	NG LO	G		Logged By SL	Method:	Backhoe
Lat/Lo	ng:				Field Scree	ning:			Hole Diameter:	Total Depth:	
	2405,-103.	999385			Chloride, P	D			-	4'	
Comm Field s		alue inclu	udes 60	0% error facto	or. TD @ 4'						
0	0		ſ	#	<b>.</b>		USCS/Rock Symbol				
tent	m)	oor m)	ninç	ole	Sample Depth	Depth	/Rc bo		Lithology	/Remarks	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	(ft bgs)	(ft bgs)	Syn		Litilology	/Itemarks	
20	0		0)	Ő	(11.590)		SU SU				
						0		0-4'	Sand w/ caliche gravel,	well sorted, bro	own, no odor, no
					-				stain, trace silt		
					_	-					
					_	1					
					-						
					-	-					
D	<186	0.0	Ν	PH03	2'	2	SP-SM				
					-	-					
					_	3					
					-						
						-					
D	<186	0.0	Ν	PH03A	4'	4					
					-				TD @ 4'		
						-					
						5					
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						-					
						6					
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Released to Imaging: 6/11/2021 10:13:09 AM

# wsp

	PHOTOGRAPHIC LOG	
XTO Energy, Inc.	Thriller	TE012921012
	Eddy County, NM	





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#### Environment Testing Xenco

## Certificate of Analysis Summary 686416

WSP USA, Dallas, TX

**Project Name: Thriller Battery Fire** 

**Project Id:** 1067741001

Contact: Dan Moir

Project Location: Eddy County, New Mexico

 Date Received in Lab:
 Thu 01.28.2021 11:46

 Report Date:
 02.04.2021 09:28

Project Manager: Jessica Kramer

Analysis Requested	Lab Id:	686416-001			
	Field Id:	SS01			
	Depth:	0.5- ft			
	Matrix:	SOIL			
	Sampled:	01.28.2021 09:00			
BTEX by EPA 8021B	Extracted:	01.29.2021 10:33			
	Analyzed:	01.29.2021 15:17			
	Units/RL:	mg/kg RL			
Benzene		<0.00198 0.00198			
Toluene		<0.00198 0.00198			
Ethylbenzene		<0.00198 0.00198			
m,p-Xylenes		<0.00397 0.00397			
o-Xylene		<0.00198 0.00198			
Total Xylenes		<0.00198 0.00198			
Total BTEX		<0.00198 0.00198			
Chloride by EPA 300	Extracted:	01.28.2021 16:36			
	Analyzed:	01.29.2021 06:17			
	Units/RL:	mg/kg RL			
Chloride		204 100			
TPH by SW8015 Mod	Extracted:	02.02.2021 12:00			
SUB: T104704400-20-21	Analyzed:	02.02.2021 19:10			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8			
Diesel Range Organics (DRO)		566 49.8			
Motor Oil Range Hydrocarbons (MRO)		59.6 49.8			
Total GRO-DRO		566 49.8			
Total TPH		626 49.8			

BRL - Below Reporting Limit

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Jession Vramer

Page 1 of 14

Environment Testing Xenco

# **Analytical Report 686416**

for

## WSP USA

**Project Manager: Dan Moir** 

Thriller Battery Fire 1067741001 02.04.2021

Collected By: Client

1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-20-38), Arizona (AZ0765), Florida (E871002-33), Louisiana (03054) Oklahoma (2020-014), North Carolina (681), Arkansas (20-035-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (T104704295-20-26), Arizona (AZ0809)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-20-18) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-20-24) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-20-21) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-20-8) Xenco-Tampa: Florida (E87429), North Carolina (483)

eurofins Environment Testing Xenco

02.04.2021

Project Manager: **Dan Moir WSP USA** 2777 N. Stemmons Freeway, Suite 1600 Dallas, TX 75207

Reference: Eurofins Xenco, LLC Report No(s): **686416 Thriller Battery Fire** Project Address: Eddy County, New Mexico

#### Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the Eurofins Xenco, LLC Report Number(s) 686416. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by Eurofins Xenco, LLC. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 686416 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting Eurofins Xenco, LLC to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

fession kenner

Jessica Kramer Project Manager

A Small Business and Minority Company

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Page 3 of 14

Environment Testing Xenco

# Sample Cross Reference 686416

### WSP USA, Dallas, TX

Thriller Battery Fire

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SS01	S	01.28.2021 09:00	0.5 ft	686416-001

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Environment Testing Xenco

# **CASE NARRATIVE**

Client Name: WSP USA Project Name: Thriller Battery Fire

 Project ID:
 1067741001

 Work Order Number(s):
 686416

Report Date: 02.04.2021 Date Received: 01.28.2021

#### Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None

Xenco

Environment Testing

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# Certificate of Analytical Results 686416

# WSP USA, Dallas, TX

Thriller Battery Fire

Sample Id: <b>SS01</b> Lab Sample Id: 686416-001		Matrix Date C	:: Soil Collected: 01.28	.2021 09:00		Date Received:01.23 Sample Depth: 0.5 ft		:46
Analytical Method: Chloride by EP	A 300					Prep Method: E300	)P	
Tech: MAB								
Analyst: MAB		Date F	Prep: 01.28	.2021 16:36		% Moisture: Basis: Wet	Waiaht	
Seq Number: 3149348						Dasis. Wet	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	204	100		mg/kg	01.29.2021 06:17		10
Analytical Method:TPH by SW801Tech:DVMAnalyst:ARMSeq Number:3149864	15 Mod	Date F	Prep: 02.02	.2021 12:00		Prep Method: SW8 % Moisture: Basis: Wet SUB: T104704400-2	Weight	
Parameter	Cas Number	Result	RL		Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	3 49.8		mg/kg	02.02.2021 19:10	U	1
Diesel Range Organics (DRO)	C10C28DRO	566	49.8		mg/kg	02.02.2021 19:10		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	59.6	49.8		mg/kg	02.02.2021 19:10		1
Total GRO-DRO	PHC628	566	49.8		mg/kg	02.02.2021 19:10		1
Total TPH	PHC635	626	49.8		mg/kg	02.02.2021 19:10		1
Surrogate	C	as Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane								
1-Ciliorooctaile	1	11-85-3	96	%	70-130	02.02.2021 19:10		

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# Certificate of Analytical Results 686416

# WSP USA, Dallas, TX

Thriller Battery Fire

Sample Id: SS01 Lab Sample Id: 686416-001	Matrix: Date Collecte	Soil ed: 01.28.2021 09:00	Date Received Sample Depth	d:01.28.2021 11:46 n: 0.5 ft
Analytical Method: BTEX by EPA 8021B Tech: MAB			Prep Method:	SW5035A
Analyst: MAB	Date Prep:	01.29.2021 10:33	% Moisture:	<b>TT</b> 7 / <b>TT</b> 7 <b>* 1</b> /
Seq Number: 3149409	Ĩ		Basis:	Wet Weight

Parameter	Cas Number	r Result	RL		Units	Analysis Date	Flag	Dil
Benzene	71-43-2	< 0.00198	0.00198		mg/kg	01.29.2021 15:17	U	1
Toluene	108-88-3	< 0.00198	0.00198		mg/kg	01.29.2021 15:17	U	1
Ethylbenzene	100-41-4	< 0.00198	0.00198		mg/kg	01.29.2021 15:17	U	1
m,p-Xylenes	179601-23-1	< 0.00397	0.00397		mg/kg	01.29.2021 15:17	U	1
o-Xylene	95-47-6	< 0.00198	0.00198		mg/kg	01.29.2021 15:17	U	1
Total Xylenes	1330-20-7	< 0.00198	0.00198		mg/kg	01.29.2021 15:17	U	1
Total BTEX		< 0.00198	0.00198		mg/kg	01.29.2021 15:17	U	1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
4-Bromofluorobenzene		460-00-4	105	%	70-130	01.29.2021 15:17		
1,4-Difluorobenzene		540-36-3	90	%	70-130	01.29.2021 15:17		

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Xenco

**Environment Testing** 

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# **Flagging Criteria**

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

\*\* Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.	ND Not Detected			
RL Reporting Limit				
MDL Method Detection Limit	SDL Sample De	tection Limit	LOD Limit of Detection	
PQL Practical Quantitation Limit	MQL Method Qu	antitation Limit	LOQ Limit of Quantitatio	n
DL Method Detection Limit				
NC Non-Calculable				
SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Laboratory	Control Sample	BKSD/LCSD	Blank Spike Duplicate/Labo	ratory Control Sample Duplicate
MD/SD Method Duplicate/Sam	ple Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC certification not offered	l for this compound.			

\* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

# QC Summary 686416

eurofins Environment Testing Xenco

# WSP USA

#### Thriller Battery Fire

<b>Analytical Method:</b> Seq Number: MB Sample Id:	<b>Chloride by El</b> 3149348 7720319-1-BLI		00		Matrix:	Solid 7720319-1	I-BKS			ep Metho Date Pro	ep: 01.2	0P 28.2021 0319-1-BSD	
Parameter		MB	Spike	LCS	LCS	LCSD	LCSD	Limits	%RPD	RPD	Units	Analysis	Flag
Chloride		esult <10.0	Amount 200	Result 212	<b>%Rec</b> 106	Result 208	<b>%Rec</b> 104	90-110	2	Limit 20	mg/kg	Date 01.29.2021 04:23	
Analytical Method:		PA 30	00						Pı	ep Metho			
Seq Number: Parent Sample Id:	3149348 686312-081				Matrix:	Soil 686312-08	81 S		MS	Date Pr D Sample	-	28.2021 312-081 SD	
Parameter	Pa	rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		488	202	658	84	655	83	90-110	0	20	mg/kg	01.29.2021 04:40	Х
Analytical Method: Seq Number:	Chloride by El 3149348	PA 30	00		Matrix:	Soil			Pı	ep Metho Date Pr		0P 28.2021	
Parent Sample Id:	686411-003					686411-00	)3 S		MS			411-003 SD	
Parameter		rent esult	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Chloride		6170	202	6360	94	6360	94	90-110	0	20	mg/kg	01.29.2021 06:00	
			_						_			00150	
Analytical Method: Seq Number:	TPH by SW80 3149864	15 M	od		Matrix:	Solid			Pı	ep Metho Date Pr		8015P )2.2021	
MB Sample Id:	7720662-1-BL	K				7720662-	I-BKS		LCS		-	0662-1-BSD	
Parameter		MB esult	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo		50.0	1000	971	97	991	99	70-130	2	20	mg/kg	02.02.2021 21:36	
Diesel Range Organics (	(DRO) <	<50.0	1000	862	86	889	89	70-130	3	20	mg/kg	02.02.2021 21:36	
Surrogate		MB %Rec	MB Flag		CS Rec	LCS Flag	LCSI %Re			mits	Units	Analysis Date	
1-Chlorooctane		99			<del>9</del> 0		93			-130	%	02.02.2021 21:36	
o-Terphenyl		109		8	39		96		70	-130	%	02.02.2021 21:36	
Analytical Method: Seq Number:	<b>TPH by SW80</b> 3149864	015 M	od		Matrix: nple Id:	Solid 7720662-1	I-BLK		Pı	ep Metho Date Pr		8015P )2.2021	
Parameter				MB Result							Units	Analysis Date	Flag
Motor Oil Range Hydrocarl	bons (MRO)			<50.0							mg/kg	02.01.2021 11:43	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference  $\begin{array}{l} [D] = 100*(C-A) \ / \ B \\ RPD = 200* \ | \ (C-E) \ / \ (C+E) \ | \\ [D] = 100*(C) \ / \ [B] \\ Log \ Diff. = Log(Sample \ Duplicate) \ - \ Log(Original \ Sample) \end{array}$ 

 $LCS = Laboratory \ Control \ Sample \\ A = Parent \ Result \\ C = MS/LCS \ Result \\ E = MSD/LCSD \ Result$ 

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

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Page 9 of 14

#### **QC Summary** 686416

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# WSP USA

#### Thriller Battery Fire

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>TPH by S</b> 3149864 686411-00		od		Matrix: nple Id:	Soil 686411-00	)1 S			ep Methe Date Pr D Sample	ep: 02.0	8015P )2.2021 411-001 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<49.9	997	1030	103	958	96	70-130	7	20	mg/kg	02.02.2021 13:08	
Diesel Range Organics (	(DRO)	<49.9	997	930	93	862	87	70-130	8	20	mg/kg	02.02.2021 13:08	
Surrogate					IS Rec	MS Flag	MSD %Re			mits	Units	Analysis Date	
1-Chlorooctane				9	0		83		70	-130	%	02.02.2021 13:08	
o-Terphenyl				9	00		84		70	-130	%	02.02.2021 13:08	

Analytical Method: Seq Number: MB Sample Id:	<b>BTEX by EPA 8021</b> 3149409 7720299-1-BLK	В	LCS San	Matrix: nple Id:	Solid 7720299-1	1-BKS			rep Metho Date Pro D Sample	ep: 01.2	5035A 29.2021 0299-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0772	77	0.0702	70	70-130	9	35	mg/kg	01.29.2021 11:45	
Toluene	< 0.00200	0.100	0.0950	95	0.0874	87	70-130	8	35	mg/kg	01.29.2021 11:45	
Ethylbenzene	< 0.00200	0.100	0.106	106	0.0977	98	71-129	8	35	mg/kg	01.29.2021 11:45	
m,p-Xylenes	< 0.00400	0.200	0.232	116	0.213	107	70-135	9	35	mg/kg	01.29.2021 11:45	
o-Xylene	< 0.00200	0.100	0.115	115	0.105	105	71-133	9	35	mg/kg	01.29.2021 11:45	
Surrogate	MB %Rec	MB Flag			LCS Flag	LCSI %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene	91		ç	90		88		70	-130	%	01.29.2021 11:45	
4-Bromofluorobenzene	120		1	25		120	1	70	-130	%	01.29.2021 11:45	

<b>Analytical Method:</b> Seq Number: Parent Sample Id:	<b>BTEX by EPA 802</b> 1 3149409 686304-001	B		Matrix: nple Id:	Soil 686304-00	)1 S			rep Methe Date Pr D Sample	ep: 01.2	5035A 29.2021 304-001 SD	
Parameter	Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Benzene	< 0.00200	0.100	0.0809	81	0.0873	86	70-130	8	35	mg/kg	01.29.2021 12:29	
Toluene	< 0.00200	0.100	0.0875	88	0.0958	95	70-130	9	35	mg/kg	01.29.2021 12:29	
Ethylbenzene	< 0.00200	0.100	0.0768	77	0.0896	89	71-129	15	35	mg/kg	01.29.2021 12:29	
m,p-Xylenes	< 0.00401	0.200	0.160	80	0.186	92	70-135	15	35	mg/kg	01.29.2021 12:29	
o-Xylene	< 0.00200	0.100	0.0814	81	0.0958	95	71-133	16	35	mg/kg	01.29.2021 12:29	
Surrogate				1S Rec	MS Flag	MSD %Re			imits	Units	Analysis Date	
1,4-Difluorobenzene			8	38		90		70	0-130	%	01.29.2021 12:29	
4-Bromofluorobenzene			1	19		124		70	)-130	%	01.29.2021 12:29	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference

[D] = 100\*(C-A) / B $\begin{array}{l} \text{[D]} & = 100^{+} \left[ (\text{C-E}) / (\text{C+E}) \right] \\ \text{[D]} & = 100^{+} (\text{C}) / [\text{B}] \\ \text{Log Diff.} & = \text{Log(Sample Duplicate)} - \text{Log(Original Sample)} \end{array}$  LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

.

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Final 1.000

K		Houston,TX (281) 240-420 Midland,TX (432-704-54- NM /575-392-7550) Bhoenix A	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	ntonio, TX (210) 509-3334 bock, TX (806)794-1296	Work Order No	
Project Manager:	Dan Moir	Rill to: /# different	<u>د (48</u>	149-8800) Tampa, FL (813-620-2000)	www.xenco.com	Page of
-		Bill to: (if different)	Kyle Littrell		Work Order Comments	
Name:	WSP USA Inc, Permian office	Company Name:	2: XTO Energy	Prog	Program: UST/PST TBP Trounfields	
Address:	3300 North A Street	Address:			State of Project:	LRC Derfund
City, State ZIP:	Midland, Tx 79705	City, State ZIP:	Carlshad NM 88220	Rano		
Phone: (	(432) 236-3849	Email: elizabeth.naka@	Wen nom dan main@www.oom	Deliv		
Project Name:	Thriller Battery Fire	Turn Around	Turn Around		AUaP1	Other
Project Number:	1067741001 /NAP 21004 28768	Routine V		ANALYSIS REQUEST	-	Work Order Notes
	Eddy County	Rush:				
Sampler's Name:	Elizabeth Naka	Dile Date:				
SAMPLE RECEIPT	-					
Temperature ("C):	2.7/3.0	UNI COL				
Received Intact:	11	VIN-002	1)			
Cooler Custody Seals:	Yes No NA	5-0.2	5) =802		T	
Sample Custody Seals:	Yes (No ) NIA	-	A 80*		TAT	TAT starts the day received by the
Sample Identification	Matrix Sampled	Sampled Depth	TPH (E			Sample Comments
1055	0 12/3211 S	0400 0.51 1	××		durat	et.
K						
	Å					
		/	Mit Com			
				7	/	
Total 200 7 ( 0040						
Circle Method(s) a	Circle Method(s) and Metal(s) to be analyzed TCLP	LP / SPLP 6010: 8RCRA	RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Ci TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Ci	Cr Co Cu Fe Pb Mg Mn Mo Ni Cu Pb Mn Mo Ni Se Ag Ti U	lg SiO2	2 Na Sr TI Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hn
service. Xenco will be liabl	service. Xenco will be liable only for the cost of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions Xenco. A minimum charge of FX5 could be cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to charge 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 charge 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 charge 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 charge 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 charge 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 charge 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 charge 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 charge 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 charge the client in the cost of samples are due to charge the client in the cost of samples and shall not assume any response to the client in the cli	es a valid purchase order from clie sume any responsibility for any los	nt company to Xenco, its affiliates and : ises or expenses incurred by the client	subcontractors. It assigns standard		
Relinquished by: (Signature)	ignature) Received by: (Signature	(Signature)	Deto mileo, put not analyzed. These	e terms will be enforced unless prev	ously negotiated.	
Elyel H Wich	0	P	28-21 11462	iveninquisried by: (Signature)	Received by: (Signature)	Date/Time

# **Inter-Office Shipment**

•

# IOS Number : 77261

Date/Time:	01.2	8.2021	Created by:	Cloe Clifton		Please send report to:	Jessica Kramer	r		
Lab# From:	Car	lsbad	Delivery Pri	ority:		Address:	1089 N Canal	Street		
Lab# To:	Mid	land	Air Bill No.:	77276201942	7	E-Mail:	jessica.kramer	@euro	ofinset.com	
Sample Id	Matrix	Client Sample Id	Sample Collection	Method	Method Name	Lab Due	HT Due	РМ	Analytes	Sign
686416-001	S	SS01	01.28.2021 09:00	SW8015MOD_NM	TPH by SW8015 Mod	02.03.2021	02.11.2021	JKR	GRO-DRO PHCC10C28	
Inter Office	Shipm	ent or Sample (	Comments:							
Relinquish	ned By	Cloe Cliffe				Received By:	JessiOA Jessica Kra		AMER	

Date Relinquished: 01.28.2021

Date Received: 01.29.2021 Cooler Temperature: 0.3

# **Eurofins Xenco, LLC**

### Inter Office Report- Sample Receipt Checklist

Sent To: Midland Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient IOS #: 77261 **Temperature Measuring device used :** Sent By: Date Sent: 01.28.2021 02.50 PM Cloe Clifton Date Received: 01.29.2021 10.34 AM Received By: Jessica Kramer Sample Receipt Checklist Comments .3 #1 \*Temperature of cooler(s)? #2 \*Shipping container in good condition? Yes #3 \*Samples received with appropriate temperature? Yes #4 \*Custody Seals intact on shipping container/ cooler? Yes #5 \*Custody Seals Signed and dated for Containers/coolers Yes #6 \*IOS present? Yes #7 Any missing/extra samples? No #8 IOS agrees with sample label(s)/matrix? Yes Yes #9 Sample matrix/ properties agree with IOS? Yes #10 Samples in proper container/ bottle? #11 Samples properly preserved? Yes

\* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

**Corrective Action Taken:** 

#12 Sample container(s) intact?

#13 Sufficient sample amount for indicated test(s)?

#14 All samples received within hold time?

		Nonconformance Docu	mentation	
Contact:		Contacted by :	Date:	
	Checklist reviewed by:	Jession Venner	Date: 01.29.2021	

Jessica Kramer

Date: 01.29.2021

Yes

Yes

Yes

# **Eurofins Xenco, LLC**

# Prelogin/Nonconformance Report- Sample Log-In

Client: WSP USA	Acceptable Temperature R	ange: 0 - 6 degC
Date/ Time Received: 01.28.2021 11.46.00 AM	Air and Metal samples Acc	eptable Range: Ambient
Work Order #: 686416	Temperature Measuring de	evice used : T_NM_007
Sample Recei	pt Checklist	Comments
#1 *Temperature of cooler(s)?	3	
#2 *Shipping container in good condition?	Yes	
#3 *Samples received on ice?	Yes	
#4 *Custody Seals intact on shipping container/ cooler?	Yes	
#5 Custody Seals intact on sample bottles?	Yes	
#6*Custody Seals Signed and dated?	Yes	
#7 *Chain of Custody present?	Yes	
#8 Any missing/extra samples?	No	
#9 Chain of Custody signed when relinquished/ received?	Yes	
#10 Chain of Custody agrees with sample labels/matrix?	Yes	
#11 Container label(s) legible and intact?	Yes	
#12 Samples in proper container/ bottle?	Yes	Samples received in bulk containers.
#13 Samples properly preserved?	Yes	
#14 Sample container(s) intact?	Yes	
#15 Sufficient sample amount for indicated test(s)?	Yes	
#16 All samples received within hold time?	Yes	
#17 Subcontract of sample(s)?	Yes	TPH sent to Midland.
#18 Water VOC samples have zero headspace?	N/A	

#### \* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 01.28.2021

Checklist reviewed by: Jessica Kramer

Date: 01.28.2021

# 🔅 eurofins

# Environment Testing America

# ANALYTICAL REPORT

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

# Laboratory Job ID: 890-391-1

Client Project/Site: Thriller

# For:

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

Attn: Dan Moir

KRAMER

Authorized for release by: 3/29/2021 8:37:35 AM

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.

LINKS Review your project results through Totol Access Have a Question? Ask The Expert Visit us at: vww.eurofinsus.com/Env

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#### --...

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	Definitions/Glossary		
Client: WSP L		Job ID: 890-391-1	T
Project/Site: T	, hriller		ľ
Qualifiers			
GC VOA			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
GC Semi VO			
Qualifier	Qualifier Description		
*+	LCS and/or LCSD is outside acceptance limits, high biased.		
U	Indicates the analyte was analyzed for but not detected.		
HPLC/IC			
Qualifier	Qualifier Description		
U	Indicates the analyte was analyzed for but not detected.		
Glossary			
Abbreviation	These commonly used abbreviations may or may not be present in this report.		
	Listed under the "D" column to designate that the result is reported on a dry weight basis		
%R	Percent Recovery		
CFL	Contains Free Liquid		
CFU	Colony Forming Unit		
CNF	Contains No Free Liquid		
DER	Duplicate Error Ratio (normalized absolute difference)		
Dil Fac	Dilution Factor		
DL	Detection Limit (DoD/DOE)		
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample		
DLC	Decision Level Concentration (Radiochemistry)		
EDL	Estimated Detection Limit (Dioxin)		
LOD	Limit of Detection (DoD/DOE)		
LOQ	Limit of Quantitation (DoD/DOE)		
MCL	EPA recommended "Maximum Contaminant Level"		
MDA MDC	Minimum Detectable Activity (Radiochemistry) Minimum Detectable Concentration (Radiochemistry)		
MDC	Method Detection Limit		
ML	Minimum Level (Dioxin)		
MPN	Most Probable Number		
MQL	Method Quantitation Limit		
NC	Not Calculated		
ND	Not Detected at the reporting limit (or MDL or EDL if shown)		
NEG	Negative / Absent		
POS	Positive / Present		
PQL	Practical Quantitation Limit		
PRES	Presumptive		
QC	Quality Control		
RER	Relative Error Ratio (Radiochemistry)		
RL	Reporting Limit or Requested Limit (Radiochemistry)		
RPD	Relative Percent Difference, a measure of the relative difference between two points		
TEF	Toxicity Equivalent Factor (Dioxin)		
TEQ	Toxicity Equivalent Quotient (Dioxin)		
TNTC	Too Numerous To Count		

.

# **Case Narrative**

Client: WSP USA Inc. Project/Site: Thriller

#### Job ID: 890-391-1

#### Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-391-1

#### Receipt

The samples were received on 3/18/2021 2:30 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

#### **Receipt Exceptions**

The following samples analyzed for method BTEX 8021 were received and analyzed from an unpreserved bulk soil jar: PH01 (890-391-1), PH01 A (890-391-2), PH02 (890-391-3), PH02 A (890-391-4), PH03 (890-391-5) and PH03 A (890-391-6).

#### GC Semi VOA

Method 8015MOD\_NM: The laboratory control sample (LCS) and the matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-834 and analytical batch 880-847 recovered outside control limits for the following analytes: Gasoline Range Organics (GRO)-C6-C10. These analytes were biased high in the LCS, MS/MSD and were not detected in the associated samples; therefore, the data have been reported.

Job ID: 890-391-1

Client: WSP USA Inc. Project/Site: Thriller

1,4-Difluorobenzene (Surr)

#### **Client Sample ID: PH01** Date Collected: 03/18/21 10:05 Date Received: 03/18/21 14:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 03:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 03:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 03:40	1
Total BTEX	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 03:40	1
Xylenes, Total	< 0.00402	U	0.00402	mg/Kg		03/26/21 14:28	03/27/21 03:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/26/21 14:28	03/27/21 03:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 03:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130			03/26/21 14:28	03/27/21 03:40	1

70 - 130

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

101

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U *+	49.9	mg/Kg		03/25/21 09:19	03/25/21 14:31	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/25/21 09:19	03/25/21 14:31	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/25/21 09:19	03/25/21 14:31	1
Total TPH	<49.9	U	49.9	mg/Kg		03/25/21 09:19	03/25/21 14:31	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130			03/25/21 09:19	03/25/21 14:31	1
o-Terphenyl	110		70 - 130			03/25/21 09:19	03/25/21 14:31	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	40.0	4.95	mg/Kg			03/23/21 21:55	1

#### **Client Sample ID: PH01 A** Date Collected: 03/18/21 10:10

Date Received: 03/18/21 14:30

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 04:00	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 04:00	1
Toluene	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 04:00	1
Total BTEX	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 04:00	1
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		03/26/21 14:28	03/27/21 04:00	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		03/26/21 14:28	03/27/21 04:00	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		03/26/21 14:28	03/27/21 04:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130			03/26/21 14:28	03/27/21 04:00	1
1,4-Difluorobenzene (Surr)	102		70 - 130			03/26/21 14:28	03/27/21 04:00	1
- Method: 8015B NM - Diese	Range Organ	ics (DRO)	(GC)					
Analyte	• •	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8		49.8	mg/Kg		03/24/21 09:46	03/25/21 19:01	

(GRO)-C6-C10

#### Lab Sample ID: 890-391-1 Matrix: Solid

03/26/21 14:28 03/27/21 03:40

Lab Sample ID: 890-391-2

Matrix: Solid

5

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc. Project/Site: Thriller

#### **Client Sample ID: PH01 A** Date Collected: 03/18/21 10:10 Date Received: 03/18/21 14:30

Date Collected: 03/18/21 10:10											
Date Received: 03/18/21 14:30											
lethod: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)											
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac			
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8	mg/Kg		03/24/21 09:46	03/25/21 19:01	1			
Oll Range Organics (Over C28-C36)	<49.8	U	49.8	mg/Kg		03/24/21 09:46	03/25/21 19:01	1			
Total TDU	<10.8		10.9	ma/Ka		03/24/21 00.46	03/25/21 10:01	1			

Total TPH	<49.8	U	49.8	mg/Kg	03/24/21 09:46	03/25/21 19:01	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130		03/24/21 09:46	03/25/21 19:01	1
o-Terphenyl	112		70 - 130		03/24/21 09:46	03/25/21 19:01	1

Method: 300.0 - Anions, Ion Ch	romatogra	phy - Solul	ole					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	28.7		5.04	mg/Kg			03/23/21 22:11	1

# **Client Sample ID: PH02**

1,4-Difluorobenzene (Surr)

Date Collected: 03/18/21 10:20 Date Received: 03/18/21 14:30

#### Lab Sample ID: 890-391-3 Matrix: Solid

03/26/21 14:28 03/27/21 04:21

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		03/26/21 14:28	03/27/21 04:21	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 04:21	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 04:21	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 04:21	1
Xylenes, Total	<0.00399	U	0.00399	mg/Kg		03/26/21 14:28	03/27/21 04:21	1
m-Xylene & p-Xylene	<0.00399	U	0.00399	mg/Kg		03/26/21 14:28	03/27/21 04:21	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 04:21	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		70 - 130			03/26/21 14:28	03/27/21 04:21	1

70 - 130

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

102

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		03/24/21 09:46	03/25/21 19:22	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/24/21 09:46	03/25/21 19:22	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/21 09:46	03/25/21 19:22	1
Total TPH	<50.0	U	50.0	mg/Kg		03/24/21 09:46	03/25/21 19:22	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	101		70 - 130			03/24/21 09:46	03/25/21 19:22	1
o-Terphenyl	113		70 - 130			03/24/21 09:46	03/25/21 19:22	1
_ Method: 300.0 - Anions, Ion C	hromatogra	iphy - Soli	ıble					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	20.4		5.02	mg/Kg			03/23/21 22:16	1

Job ID: 890-391-1

Lab Sample ID: 890-391-2

Client: WSP USA Inc. Project/Site: Thriller

#### **Client Sample ID: PH02 A** Date Collected: 03/18/21 10:30 Date Received: 03/18/21 14:30

Method: 8021B - Volatile O	rganic Compo	unds (GC)						
Analyte	-	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		03/26/21 14:28	03/27/21 04:41	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		03/26/21 14:28	03/27/21 04:41	1
Toluene	<0.00199	U	0.00199	mg/Kg		03/26/21 14:28	03/27/21 04:41	1
Total BTEX	<0.00199	U	0.00199	mg/Kg		03/26/21 14:28	03/27/21 04:41	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		03/26/21 14:28	03/27/21 04:41	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		03/26/21 14:28	03/27/21 04:41	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		03/26/21 14:28	03/27/21 04:41	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130			03/26/21 14:28	03/27/21 04:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130			03/26/21 14:28	03/27/21 04:41	1

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

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9	mg/Kg		03/24/21 09:46	03/25/21 19:43	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<49.9	U	49.9	mg/Kg		03/24/21 09:46	03/25/21 19:43	1
C10-C28)								
Oll Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		03/24/21 09:46	03/25/21 19:43	1
Total TPH	<49.9	U	49.9	mg/Kg		03/24/21 09:46	03/25/21 19:43	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130			03/24/21 09:46	03/25/21 19:43	1
o-Terphenyl	107		70 - 130			03/24/21 09:46	03/25/21 19:43	1

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

Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	25.6	4.98	mg/Kg			03/23/21 22:21	1

# **Client Sample ID: PH03**

Date Collected: 03/18/21 10:40 Date Received: 03/18/21 14:30

Method: 8021B - Volatile Org	janic Compo	unds (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg	_	03/26/21 14:28	03/27/21 05:02	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 05:02	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 05:02	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 05:02	1
Xylenes, Total	<0.00401	U	0.00401	mg/Kg		03/26/21 14:28	03/27/21 05:02	1
m-Xylene & p-Xylene	<0.00401	U	0.00401	mg/Kg		03/26/21 14:28	03/27/21 05:02	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 05:02	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130			03/26/21 14:28	03/27/21 05:02	1
1,4-Difluorobenzene (Surr)	101		70 - 130			03/26/21 14:28	03/27/21 05:02	1
Method: 8015B NM - Diesel I	Range Organ	ics (DRO)	(GC)					
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg	_	03/24/21 09:46	03/25/21 20:04	1

(GRO)-C6-C10

#### Lab Sample ID: 890-391-5 Matrix: Solid

Job ID: 890-391-1

# Lab Sample ID: 890-391-4

Matrix: Solid

5

Client: WSP USA Inc. Project/Site: Thriller

#### Client Sample ID: PH03 Date Collected: 03/18/21 10:40

Date Received: 03/18/21 14:30

nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
viesel Range Organics (Over	<50.0	U	50.0	mg/Kg		03/24/21 09:46	03/25/21 20:04	
:10-C28)								
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		03/24/21 09:46	03/25/21 20:04	
otal TPH	<50.0	U	50.0	mg/Kg		03/24/21 09:46	03/25/21 20:04	
Currogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil F
-Chlorooctane	103		70 - 130			03/24/21 09:46	03/25/21 20:04	
-Terphenyl	118		70 - 130			03/24/21 09:46	03/25/21 20:04	
/lethod: 300.0 - Anions, Ion C	hromatogra	iphy - Solu	ble					
nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
hloride	18.8		4.99	mg/Kg			03/23/21 22:26	
ient Sample ID: PH03 A						Lab Sam	ple ID: 890	-391
te Collected: 03/18/21 10:45							Matrix	
te Received: 03/18/21 14:30							Mathy	
ate Received: 03/10/21 14:30								
Aethod: 8021B - Volatile Orga	anic Compo	unds (GC)						
nalyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil F
enzene	< 0.00202	U	0.00202	mg/Kg		03/26/21 14:28	03/27/21 11:16	
thylbenzene	<0.00202	U	0.00202	mg/Kg		03/26/21 14:28	03/27/21 11:16	
oluene	<0.00202	U	0.00202	mg/Kg		03/26/21 14:28	03/27/21 11:16	
otal BTEX	<0.00202	U	0.00202	mg/Kg		03/26/21 14:28	03/27/21 11:16	
ylenes, Total	<0.00403	U	0.00403	mg/Kg		03/26/21 14:28	03/27/21 11:16	
n-Xylene & p-Xylene	< 0.00403		0.00403	mg/Kg			03/27/21 11:16	
-Xylene	<0.00202		0.00202	mg/Kg			03/27/21 11:16	
		o	Limite			Prepared	Analyzed	Dil
Surrogate	%Recovery	Qualifier	Limits					
Currogate -Bromofluorobenzene (Surr)	%Recovery 107	Qualifier				03/26/21 14:28	03/27/21 11:16	
		Qualifier					03/27/21 11:16 03/27/21 11:16	
-Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr)	107 103		70 - 130 70 - 130					
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) Iethod: 8015B NM - Diesel Ra	107 103 ange Organ		70 - 130 70 - 130	Unit	D			Dil I
-Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) <b>1ethod: 8015B NM - Diesel Ra</b> nalyte iasoline Range Organics	107 103 ange Organ	<mark>ics (DRO)</mark> Qualifier	70 - 130 70 - 130 (GC)	Unit mg/Kg	<u>D</u>	03/26/21 14:28	03/27/21 11:16	Dil I
-Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) <b>Nethod: 8015B NM - Diesel Ra</b> <b>nalyte</b> iasoline Range Organics GRO)-C6-C10 iiesel Range Organics (Over	107 103 ange Organ Result	ics (DRO) Qualifier U	70 - 130 70 - 130 (GC) RL		<u>D</u>	03/26/21 14:28 Prepared 03/24/21 09:46	03/27/21 11:16 Analyzed	Dill
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ra analyte Basoline Range Organics GRO)-C6-C10 Diesel Range Organics (Over 210-C28)	107 103 ange Organ Result <50.0 <50.0	i <mark>cs (DRO)</mark> Qualifier U	70 - 130 70 - 130 (GC) RL 50.0 50.0	mg/Kg mg/Kg	D	03/26/21 14:28 Prepared 03/24/21 09:46 03/24/21 09:46	03/27/21 11:16 <u>Analyzed</u> 03/25/21 20:25 03/25/21 20:25	Dil I
-Bromofluorobenzene (Surr) ,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ra analyte iasoline Range Organics GRO)-C6-C10 biesel Range Organics (Over	107 103 ange Organ Result <50.0 <50.0 <50.0	ics (DRO) Qualifier U U U	70 - 130 70 - 130 (GC) RL 50.0	mg/Kg	<u>D</u>	03/26/21 14:28 Prepared 03/24/21 09:46 03/24/21 09:46	03/27/21 11:16 Analyzed 03/25/21 20:25 03/25/21 20:25 03/25/21 20:25	Dil I
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) 1ethod: 8015B NM - Diesel Ra nalyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) III Range Organics (Over C28-C36)	107 103 ange Organ Result <50.0 <50.0	ics (DRO) Qualifier U U U	70 - 130 70 - 130 (GC) RL 50.0 50.0	mg/Kg mg/Kg	<u>D</u>	03/26/21 14:28 Prepared 03/24/21 09:46 03/24/21 09:46	03/27/21 11:16 <u>Analyzed</u> 03/25/21 20:25 03/25/21 20:25	Dil I
Bromofluorobenzene (Surr) 4-Difluorobenzene (Surr) 1ethod: 8015B NM - Diesel Ra nalyte asoline Range Organics GRO)-C6-C10 iesel Range Organics (Over 10-C28) III Range Organics (Over C28-C36) otal TPH	107 103 ange Organ Result <50.0 <50.0 <50.0	ics (DRO) Qualifier U U U U	70 - 130         70 - 130         (GC)         RL         50.0         50.0         50.0	mg/Kg mg/Kg mg/Kg	<u> </u>	03/26/21 14:28 Prepared 03/24/21 09:46 03/24/21 09:46	03/27/21 11:16 Analyzed 03/25/21 20:25 03/25/21 20:25 03/25/21 20:25	Dil I
-Bromofluorobenzene (Surr) .4-Difluorobenzene (Surr) <b>1ethod: 8015B NM - Diesel Ra</b> <b>nalyte</b> tasoline Range Organics GRO)-C6-C10 tiesel Range Organics (Over :10-C28)	107 103 ange Organ Result <50.0 <50.0 <50.0 <50.0	ics (DRO) Qualifier U U U U Qualifier	70 - 130         70 - 130         (GC)         RL         50.0         50.0         50.0         50.0         50.0	mg/Kg mg/Kg mg/Kg	<u>D</u>	03/26/21 14:28  Prepared 03/24/21 09:46 03/24/21 09:46 03/24/21 09:46 03/24/21 09:46 03/24/21 09:46 Prepared	03/27/21 11:16 Analyzed 03/25/21 20:25 03/25/21 20:25 03/25/21 20:25 03/25/21 20:25	

Job ID: 890-391-1

### Lab Sample ID: 890-391-5 Matrix: Solid

Eurofins Xenco, Carlsbad

Analyzed

03/23/21 22:42

Released to Imaging: 6/11/2021 10:13:09 AM

Analyte

Chloride

RL

5.00

Result Qualifier

36.9

Unit

mg/Kg

D

Prepared

Dil Fac

1

# **Surrogate Summary**

Client: WSP USA Inc. Project/Site: Thriller

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

			Pe
		BFB1	DFBZ1
Lab Sample ID	Client Sample ID	(70-130)	(70-130)
890-391-1	PH01	114	101
890-391-2	PH01 A	112	102
890-391-3	PH02	109	102
890-391-4	PH02 A	108	100
890-391-5	PH03	107	101
890-391-6	PH03 A	107	103
LCS 880-910/1-A	Lab Control Sample	102	101
LCSD 880-910/2-A	Lab Control Sample Dup	102	100
MB 880-803/5-A	Method Blank	102	95
MB 880-910/5-A	Method Blank	104	96

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

			Perce	nt Surrogate Recovery
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-391-1	PH01	110	110	
890-391-2	PH01 A	99	112	
890-391-3	PH02	101	113	
890-391-4	PH02 A	98	107	
890-391-5	PH03	103	118	
890-391-6	PH03 A	102	118	
LCS 880-799/2-A	Lab Control Sample	115	108	
LCS 880-834/2-A	Lab Control Sample	108	102	
LCSD 880-799/3-A	Lab Control Sample Dup	109	102	
LCSD 880-834/3-A	Lab Control Sample Dup	103	95	
MB 880-799/1-A	Method Blank	90	97	
MB 880-834/1-A	Method Blank	102	107	

#### Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

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Job ID: 890-391-1

Prep Type: Total/NA

Prep Type: Total/NA

Client: WSP USA Inc. Project/Site: Thriller

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

Lab Sample ID: MB 880-80	3/5-A						le ID: Method	
Matrix: Solid							Prep Type: To	
Analysis Batch: 904							Prep Bate	ch: 803
		MB						
Analyte		Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		03/24/21 10:57	03/26/21 14:32	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/24/21 10:57	03/26/21 14:32	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/24/21 10:57	03/26/21 14:32	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		03/24/21 10:57	03/26/21 14:32	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/24/21 10:57	03/26/21 14:32	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/24/21 10:57	03/26/21 14:32	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/24/21 10:57	03/26/21 14:32	1
	MB	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			03/24/21 10:57	03/26/21 14:32	1
1,4-Difluorobenzene (Surr)	95		70 - 130			03/24/21 10:57	03/26/21 14:32	1
Analysis Batch: 904	МВ	MB					Prep Bate	ch: 910
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	< 0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 01:50	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 01:50	1
Toluene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 01:50	1
Total BTEX	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 01:50	1
Xylenes, Total	< 0.00400	U	0.00400	mg/Kg		03/26/21 14:28	03/27/21 01:50	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		03/26/21 14:28	03/27/21 01:50	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		03/26/21 14:28	03/27/21 01:50	1
	МВ	МВ						
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130			03/26/21 14:28	03/27/21 01:50	1
1,4-Difluorobenzene (Surr)	96		70 - 130			03/26/21 14:28	03/27/21 01:50	1
Lab Sample ID: LCS 880-9 Matrix: Solid Analysis Batch: 904	10/1-A				Clien		Lab Control S Prep Type: To Prep Bate	otal/NA

Allalysis Datch. 904							Fieh	Dalcii. 910
	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09929		mg/Kg		99	70 - 130	
Ethylbenzene	0.100	0.1051		mg/Kg		105	70 - 130	
Toluene	0.100	0.1012		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.2131		mg/Kg		107	70 - 130	
o-Xylene	0.100	0.1061		mg/Kg		106	70 - 130	
LCS LCS								

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	101		70 - 130

5

6 7

Client: WSP USA Inc. Project/Site: Thriller

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

Lab Sample ID: LCSD 880- Matrix: Solid	910/2-A						, c	Client Sar	npie		Prep Typ	be: Tot	al/N
Analysis Batch: 904												Batch	
				Spike		LCSD					%Rec.		RP
Analyte				Added			Qualifier	Unit	<u>D</u>	%Rec	Limits	RPD	Lin
Benzene				0.100		0.1019		mg/Kg		102	70 - 130	3	3
Ethylbenzene				0.100		0.1067		mg/Kg		107	70 - 130	1	
Toluene				0.100		0.1036		mg/Kg		104	70 - 130	2	
m-Xylene & p-Xylene				0.200		0.2144		mg/Kg		107	70 - 130	1	
o-Xylene				0.100		0.1076		mg/Kg		108	70 - 130	1	
	LCSD	LCS	D										
Surrogate	%Recovery	Qua	lifier	Limits									
4-Bromofluorobenzene (Surr)	102			70 - 130									
1,4-Difluorobenzene (Surr)	100			70 - 130									
lethod: 8015B NM - Die Lab Sample ID: MB 880-79 Matrix: Solid Analysis Batch: 832		<u>, , , , , , , , , , , , , , , , , , , </u>	Jiguin		<u>-) ((</u>				Clie	ent Samp	ole ID: Me Prep Typ Prep		al/N
-		ΜВ	MB										
Analyte	Re	sult	Qualifier		RL		Unit	D	Ρ	repared	Analyz	ed	Dil F
Gasoline Range Organics		50.0	U		50.0		mg/K	g –	03/2	4/21 09:46	03/25/21	11:36	
GRO)-C6-C10													
Diesel Range Organics (Over C10-C28)	</td <td>50.0</td> <td>U</td> <td></td> <td>50.0</td> <td></td> <td>mg/K</td> <td>g</td> <td>03/2</td> <td>4/21 09:46</td> <td>03/25/21</td> <td>11:36</td> <td></td>	50.0	U		50.0		mg/K	g	03/2	4/21 09:46	03/25/21	11:36	
Oll Range Organics (Over C28-C36	5) <:	50.0	U		50.0		mg/K	g	03/2	4/21 09:46	03/25/21	11:36	
Total TPH	<	50.0	U		50.0		mg/K	g	03/2	4/21 09:46	03/25/21	11:36	
		MB	MB										
Surrogate	%Reco	-	Qualifier	Limi						repared	Analyz		Dil I
1-Chlorooctane		90		70 - 1	130				03/2	4/21 09:46	03/25/21	11:36	
p-Terphenyl		97		70 - 1	130				03/2	4/21 09:46	03/25/21	11:36	
_ab Sample ID: LCS 880-7	99/2-A							Clien	t Sar	nple ID:	Lab Con	trol Sa	m
Matrix: Solid											Prep Typ		
Analysis Batch: 832												Batch	
				Spike		LCS	LCS				%Rec.		
Analyte				Added			Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics				1000		1179		mg/Kg		118	70 - 130		
GRO)-C6-C10 Diesel Range Organics (Over C10-C28)				1000		1077		mg/Kg		108	70 - 130		
	LCS	LCS	;										
	%Recovery			Limits									
Surrogate													
•	115			70 - 130									
-Chlorooctane				70 - 130 70 - 130									
-Chlorooctane -Terphenyl	115 108							liont Co-	nnla		Control	Samul	
-Chiorooctane -Terphenyl -ab Sample ID: LCSD 880-	115 108						c	Client Sar	nple	ID: Lab			
I-Chlorooctane o-Terphenyl _ab Sample ID: LCSD 880- Matrix: Solid	115 108						C	Client Sar	nple	ID: Lab	Prep Typ	be: Tot	al/l
I-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880- Matrix: Solid	115 108			70 - 130				Client Sar	nple	ID: Lab	Prep Typ Prep		al/I 1: 7
I-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 832	115 108			70 - 130 Spike		LCSD	LCSD				Prep Typ Prep %Rec.	be: Tot Batch	al/I n: 7 R
Surrogate 1-Chlorooctane p-Terphenyl Lab Sample ID: LCSD 880- Matrix: Solid Analysis Batch: 832 Analyte Gasoline Range Organics	115 108			70 - 130				Unit mg/Kg	nple	ID: Lab	Prep Typ Prep	be: Tot	al/N

Job ID: 890-391-1

Client: WSP USA Inc. Project/Site: Thriller

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

Lab Sample ID: LCSD 880 Matrix: Solid	-799/3-A				C	Client S	amp	ole ID: Lab	Prep Ty	pe: To	tal/NA
Analysis Batch: 832			Spike	LCSD	LCSD				Prep %Rec.	o Batc	h: 799 RPD
Analyte			Added		Qualifier	Unit		D %Rec	Limits	RPD	Limi
Diesel Range Organics (Over C10-C28)			1000	1069		mg/Kg		107	70 - 130	1	2
	LCSD I	CSD									
Surrogate	%Recovery (	Qualifier	Limits								
1-Chlorooctane	109		70 - 130								
o-Terphenyl	102		70 - 130								
Lab Sample ID: MB 880-83 Matrix: Solid	84/1-A						C	Client Samp	ole ID: Mo Prep Tyj		
Analysis Batch: 847										Batc	
	Ν	IB MB									
Analyte		ult Qualifi			Unit		D	Prepared	Analyz		Dil Fa
Gasoline Range Organics (GRO)-C6-C10		0.0 U	50.		mg/K			03/25/21 09:19			
Diesel Range Organics (Over C10-C28)	<50	0.0 U	50.	U	mg/K	g	C	)3/25/21 09:19	03/25/21	12:03	
Oll Range Organics (Over C28-C3	6) <50	0.0 U	50.	0	mg/K	g	C	)3/25/21 09:19	03/25/21	12:03	
Total TPH		0.0 U	50.	0	mg/K		C	3/25/21 09:19	03/25/21	12:03	
		NB MB									
Surrogate		ery Qualifi	er Limits					Prepared	Analyz	zed	Dil Fa
1-Chlorooctane		02	70 - 130	_			C	03/25/21 09:19			
o-Terphenyl	1	07	70 - 130				C	03/25/21 09:19	03/25/21	12:03	
Matrix: Solid	34/2-A					Clie	ent S	Sample ID:	Prep Ty	pe: To	tal/N/
Matrix: Solid	34/2-A		Spiko	1.05		Clie	ent S	Sample ID:	Prep Typ Prep		tal/N/
Matrix: Solid Analysis Batch: 847	34/2-A		Spike Added	-	LCS Qualifier		ent S	·	Prep Typ Prep %Rec.	pe: To	tal/N/
Matrix: Solid Analysis Batch: 847 Analyte	34/2-A 		Spike Added 1000	-	Qualifier	Unit	ent \$	D %Rec	Prep Typ Prep	pe: To	tal/N/
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics			Added	Result	Qualifier		ent \$	·	Prep Typ Prep %Rec. Limits	pe: To	tal/N/
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	·34/2-A		Added	Result	Qualifier	Unit	ent \$	D %Rec	Prep Typ Prep %Rec. Limits	pe: To	tal/N/
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	134/2-A	 .cs	<b>Added</b> 1000	Result 1376	Qualifier	Unit mg/Kg	ent \$	D %Rec	Prep Typ Prep %Rec. Limits 70 - 130	pe: To	tal/N/
Lab Sample ID: LCS 880-8 Matrix: Solid Analysis Batch: 847 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate	LCS I %Recovery (		Added 1000 1000 Limits	Result 1376	Qualifier	Unit mg/Kg	ent \$	D %Rec	Prep Typ Prep %Rec. Limits 70 - 130	pe: To	tal/NA
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCS L %Recovery 0 108		Added 1000 1000 <u>Limits</u> 70 - 130	Result 1376	Qualifier	Unit mg/Kg	ent \$	D %Rec	Prep Typ Prep %Rec. Limits 70 - 130	pe: To	tal/N/
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane	LCS I %Recovery (		Added 1000 1000 Limits	Result 1376	Qualifier	Unit mg/Kg	ent S	D %Rec	Prep Typ Prep %Rec. Limits 70 - 130	pe: To	tal/N/
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl	LCS I %Recovery 0 108 102		Added 1000 1000 <u>Limits</u> 70 - 130	Result 1376	Qualifier *+	<mark>Unit</mark> mg/Kg mg/Kg		D %Rec	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130	pe: To Batc	tal/N/ h: 834
Matrix: Solid Analysis Batch: 847 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880	LCS I %Recovery 0 108 102		Added 1000 1000 <u>Limits</u> 70 - 130	Result 1376	Qualifier *+	<mark>Unit</mark> mg/Kg mg/Kg		D %Rec 138 112	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130	pe: To b Batc	tal/N/ h: 834
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880 Matrix: Solid	LCS I %Recovery 0 108 102		Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130	Result 1376 1123	Qualifier *+	<mark>Unit</mark> mg/Kg mg/Kg		D %Rec 138 112	Prep Typ Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 130	pe: To b Batc	tal/N/ h: 834
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 847	LCS I %Recovery 0 108 102		Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 1376 1123	Qualifier *+	<mark>Unit</mark> mg/Kg mg/Kg		D <u>%Rec</u> 138 112	Prep Tyl Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 100 70	Sampl pe: To Batc	tal/N/ h: 834
Matrix: Solid Analysis Batch: 847 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 847 Analyte	LCS I %Recovery 0 108 102		Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 1376 1123 LCSD Result	Qualifier *+	Unit mg/Kg mg/Kg Client S		<u>D</u> <u>%Rec</u> 112 Die ID: Lab	Prep Tyl Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70	Sampl pe: To b Batc Sampl pe: To b Batc RPD	le Dup tal/N/ h: 834  tal/N/ h: 834  RPI 
Matrix: Solid Analysis Batch: 847 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics	LCS I %Recovery 0 108 102		Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike	Result 1376 1123	Qualifier *+	Unit mg/Kg mg/Kg		D <u>%Rec</u> 138 112	Prep Tyl Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70 - 100 70	Sampl pe: To Batc	e Duj tal/N/ h: 834 tal/N/ h: 834 RPI Limi
Matrix: Solid Analysis Batch: 847 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	LCS I %Recovery 0 108 102		Added 1000 1000 <u>Limits</u> 70 - 130 70 - 130 Spike Added	Result 1376 1123 LCSD Result	Qualifier *+	Unit mg/Kg mg/Kg Client S		<u>D</u> <u>%Rec</u> 112 Dle ID: Lab	Prep Tyl Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 70 - 130 70 - 190 70	Sampl pe: To b Batc Sampl pe: To b Batc RPD	tal/N/ h: 834
Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	LCS I %Recovery 0 108 102 -834/3-A	Qualifier	Added           1000           1000           1000           Limits           70 - 130           70 - 130           Spike           Added           1000	Result           1376           1123           LCSD           Result           1230	Qualifier *+	Unit mg/Kg mg/Kg Client S		D       %Rec         138       112         112       112         Dle ID: Lab       112         Dle ID: Lab       112	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Control S Prep Ty Prep %Rec. Limits 70 - 130	Sampl pe: To b Batc b Batc RPD 11	tal/N/ h: 834
Matrix: Solid Analysis Batch: 847 Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Surrogate 1-Chlorooctane o-Terphenyl Lab Sample ID: LCSD 880 Matrix: Solid Analysis Batch: 847 Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	LCS I %Recovery 0 108 102	Qualifier	Added           1000           1000           1000           Limits           70 - 130           70 - 130           Spike           Added           1000	Result           1376           1123           LCSD           Result           1230	Qualifier *+	Unit mg/Kg mg/Kg Client S		D       %Rec         138       112         112       112         Dle ID: Lab       112         Dle ID: Lab       112	Prep Ty Prep %Rec. Limits 70 - 130 70 - 130 70 - 130 Control S Prep Ty Prep %Rec. Limits 70 - 130	Sampl pe: To b Batc b Batc RPD 11	tal/N/ h: 834

			QC	Sam	ple	Resi	ılts							
Client: WSP USA Inc. Project/Site: Thriller											Job I	D: 890-	-391-1	2
Method: 8015B NM - D	Diesel Rang	je O	rganio	cs (DR	0) (0	GC) (	Continu	led)						
Lab Sample ID: LCSD 88 Matrix: Solid	0-834/3-A						C	Client S	ample	ID: Lat	Control Prep Ty	pe: To	tal/NA	
Analysis Batch: 847											Fiel	p Batc	11. 034	5
0	LCSD													
Surrogate o-Terphenyl	% <b>Recovery</b> 95	Quali	tier	Limits 70 - 130	-									
Method: 300.0 - Anion	is, Ion Chro	oma	tograp	ohy										7
Lab Sample ID: MB 880-6 Matrix: Solid	678/1-A								Cli	ent Sarr	ple ID: M Prep T			8
Analysis Batch: 764														Q
Analyta	Po	MB MB	MB Qualifier		RL		Unit		D P	Proparad	Apply	70d	Dil Fac	
Analyte Chloride		5.00 l			5.00		mg/K			Prepared	Analy: 03/23/21		1	
Lab Sample ID: LCS 880 Matrix: Solid	-678/2-A							Clie	ent Sa	mple ID	: Lab Cor Prep T			
Analysis Batch: 764				Omilia		1.00	LCS				%Rec.			
Analyte				Spike Added		-	Qualifier	Unit	D	%Rec	Limits			4.0
Chloride				250		249.5		mg/Kg		100	90 - 110			15
Lab Sample ID: LCSD 88 Matrix: Solid	0-678/3-A						C	Client S	ample	ID: Lat	Control Prep T			
Analysis Batch: 764				Spike		LCSD	LCSD				%Rec.		RPD	
Analyte				Added		_	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride				250		246.7		mg/Kg		99	90 - 110	1	20	
Lab Sample ID: 890-391- Matrix: Solid Analysis Batch: 764	1 MS									C	lient Sam Prep T			
Analysis Baton. 104	Sample	Samp	ole	Spike		MS	MS				%Rec.			
Analyte	Result	Quali	fier	Added		Result	Qualifier	Unit	D	%Rec	Limits			
Chloride	40.0			248		282.1		mg/Kg		98	90 - 110			
Lab Sample ID: 890-391- Matrix: Solid	1 MSD									C	lient Sam Prep T	-		
Analysis Batch: 764	Sample	Samn	ole	Spike		MSD	MSD				%Rec.		RPD	
Analyte	Result	-		Added			Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	40.0			248		281.2		mg/Kg		97	90 - 110	0	20	

# **QC Association Summary**

Client: WSP USA Inc. Project/Site: Thriller

Job ID: 890-391-1

GC VOA

Prep	Batch: 803	
_		

Lab Sample ID MB 880-803/5-A	Client Sample ID Method Blank	Prep Type Total/NA	Matrix Solid	Method 5035	Prep Batch
Analysis Batch: 904	4				
Lab Sample ID 890-391-1	Client Sample ID PH01	Prep Type Total/NA	Matrix Solid	Method 8021B	Prep Batch 910
890-391-2	PH01 A	Total/NA	Solid	8021B	910
890-391-3	PH02	Total/NA	Solid	8021B	910
890-391-4	PH02 A	Total/NA	Solid	8021B	910
890-391-5	PH03	Total/NA	Solid	8021B	910
890-391-6	PH03 A	Total/NA	Solid	8021B	910
MB 880-803/5-A	Method Blank	Total/NA	Solid	8021B	803
MB 880-910/5-A	Method Blank	Total/NA	Solid	8021B	910
LCS 880-910/1-A	Lab Control Sample	Total/NA	Solid	8021B	910
LCSD 880-910/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	910

#### Prep Batch: 910

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-391-1	PH01	Total/NA	Solid	5035	
890-391-2	PH01 A	Total/NA	Solid	5035	
890-391-3	PH02	Total/NA	Solid	5035	
890-391-4	PH02 A	Total/NA	Solid	5035	
890-391-5	PH03	Total/NA	Solid	5035	
890-391-6	PH03 A	Total/NA	Solid	5035	
MB 880-910/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-910/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-910/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

#### GC Semi VOA

#### Prep Batch: 799

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-391-2	PH01 A	Total/NA	Solid	8015NM Prep	
890-391-3	PH02	Total/NA	Solid	8015NM Prep	
890-391-4	PH02 A	Total/NA	Solid	8015NM Prep	
890-391-5	PH03	Total/NA	Solid	8015NM Prep	
890-391-6	PH03 A	Total/NA	Solid	8015NM Prep	
MB 880-799/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-799/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-799/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

#### Analysis Batch: 832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-391-2	PH01 A	Total/NA	Solid	8015B NM	799
890-391-3	PH02	Total/NA	Solid	8015B NM	799
890-391-4	PH02 A	Total/NA	Solid	8015B NM	799
890-391-5	PH03	Total/NA	Solid	8015B NM	799
890-391-6	PH03 A	Total/NA	Solid	8015B NM	799
MB 880-799/1-A	Method Blank	Total/NA	Solid	8015B NM	799
LCS 880-799/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	799
LCSD 880-799/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	799

# **QC Association Summary**

Client: WSP USA Inc. Project/Site: Thriller

# GC Semi VOA

#### Prep Batch: 834

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-391-1	PH01	Total/NA	Solid	8015NM Prep	
MB 880-834/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-834/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-834/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
Analysis Batch: 847					
-		<b>.</b>		<b>N</b> - 11 1	Dury Datak
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method 8015B NM	Prep Batch
<b>Lab Sample ID</b> 890-391-1 MB 880-834/1-A		<b>Prep Type</b> Total/NA Total/NA	Matrix Solid Solid	Method 8015B NM 8015B NM	Prep Batch 834 834
Lab Sample ID 890-391-1	Client Sample ID PH01	Total/NA	Solid	8015B NM	834

#### HPLC/IC

#### Leach Batch: 678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-391-1	PH01	Soluble	Solid	DI Leach	
890-391-2	PH01 A	Soluble	Solid	DI Leach	
890-391-3	PH02	Soluble	Solid	DI Leach	
890-391-4	PH02 A	Soluble	Solid	DI Leach	
890-391-5	PH03	Soluble	Solid	DI Leach	
890-391-6	PH03 A	Soluble	Solid	DI Leach	
MB 880-678/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-678/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-678/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-391-1 MS	PH01	Soluble	Solid	DI Leach	
890-391-1 MSD	PH01	Soluble	Solid	DI Leach	

#### Analysis Batch: 764

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-391-1	PH01	Soluble	Solid	300.0	678
890-391-2	PH01 A	Soluble	Solid	300.0	678
890-391-3	PH02	Soluble	Solid	300.0	678
890-391-4	PH02 A	Soluble	Solid	300.0	678
890-391-5	PH03	Soluble	Solid	300.0	678
890-391-6	PH03 A	Soluble	Solid	300.0	678
MB 880-678/1-A	Method Blank	Soluble	Solid	300.0	678
LCS 880-678/2-A	Lab Control Sample	Soluble	Solid	300.0	678
LCSD 880-678/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	678
890-391-1 MS	PH01	Soluble	Solid	300.0	678
890-391-1 MSD	PH01	Soluble	Solid	300.0	678

Job ID: 890-391-1

Job ID: 890-391-1

Matrix: Solid

#### Lab Sample ID: 890-391-1 Matrix: Solid

Date Collected: 03/18/21 10:05 Date Received: 03/18/21 14:30

**Client Sample ID: PH01** 

Client: WSP USA Inc.

Project/Site: Thriller

	Batch	Batch		Dilution	Batch	Prepared		
Ргер Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			910	03/26/21 14:28	MR	XM
Total/NA	Analysis	8021B		1	904	03/27/21 03:40	MR	XM
Total/NA	Prep	8015NM Prep			834	03/25/21 09:19	DM	XM
Total/NA	Analysis	8015B NM		1	847	03/25/21 14:31	AM	XM
Soluble	Leach	DI Leach			678	03/22/21 10:54	СН	XM
Soluble	Analysis	300.0		1	764	03/23/21 21:55	WP	XM

#### **Client Sample ID: PH01 A** Date Collected: 03/18/21 10:10 Date Received: 03/18/21 14:30

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			910	03/26/21 14:28	MR	XM
Total/NA	Analysis	8021B		1	904	03/27/21 04:00	MR	XM
Total/NA	Prep	8015NM Prep			799	03/24/21 09:46	DM	XM
Total/NA	Analysis	8015B NM		1	832	03/25/21 19:01	AM	XM
Soluble	Leach	DI Leach			678	03/22/21 10:54	СН	XM
Soluble	Analysis	300.0		1	764	03/23/21 22:11	WP	XM

#### **Client Sample ID: PH02** Date Collected: 03/18/21 10:20 Date Received: 03/18/21 14:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Туре	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			910	03/26/21 14:28	MR	XM
Total/NA	Analysis	8021B		1	904	03/27/21 04:21	MR	XM
Total/NA	Prep	8015NM Prep			799	03/24/21 09:46	DM	XM
Total/NA	Analysis	8015B NM		1	832	03/25/21 19:22	AM	XM
Soluble	Leach	DI Leach			678	03/22/21 10:54	СН	XM
Soluble	Analysis	300.0		1	764	03/23/21 22:16	WP	XM

#### **Client Sample ID: PH02 A** Date Collected: 03/18/21 10:30 Date Received: 03/18/21 14:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			910	03/26/21 14:28	MR	XM
Total/NA	Analysis	8021B		1	904	03/27/21 04:41	MR	XM
Total/NA	Prep	8015NM Prep			799	03/24/21 09:46	DM	XM
Total/NA	Analysis	8015B NM		1	832	03/25/21 19:43	AM	XM
Soluble	Leach	DI Leach			678	03/22/21 10:54	СН	XM
Soluble	Analysis	300.0		1	764	03/23/21 22:21	WP	XM

Lab Sample ID: 890-391-3 Matrix: Solid

Lab Sample ID: 890-391-4 Matrix: Solid

Eurofins Xenco, Carlsbad

9

#### Lab Sample ID: 890-391-5 Matrix: Solid

Date Collected: 03/18/21 10:40 Date Received: 03/18/21 14:30

**Client Sample ID: PH03** 

Client: WSP USA Inc.

Project/Site: Thriller

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			910	03/26/21 14:28	MR	XM
Total/NA	Analysis	8021B		1	904	03/27/21 05:02	MR	XM
Total/NA	Prep	8015NM Prep			799	03/24/21 09:46	DM	XM
Total/NA	Analysis	8015B NM		1	832	03/25/21 20:04	AM	XM
Soluble	Leach	DI Leach			678	03/22/21 10:54	СН	XM
Soluble	Analysis	300.0		1	764	03/23/21 22:26	WP	ХМ

#### **Client Sample ID: PH03 A** Date Collected: 03/18/21 10:45 Date Received: 03/18/21 14:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			910	03/26/21 14:28	MR	XM
Total/NA	Analysis	8021B		1	904	03/27/21 11:16	MR	XM
Total/NA	Prep	8015NM Prep			799	03/24/21 09:46	DM	XM
Total/NA	Analysis	8015B NM		1	832	03/25/21 20:25	AM	XM
Soluble	Leach	DI Leach			678	03/22/21 10:54	СН	XM
Soluble	Analysis	300.0		1	764	03/23/21 22:42	WP	XM

#### Laboratory References:

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

Matrix: Solid

5 9

**Accreditation/Certification Summary** 

Client: WSP USA Inc. Project/Site: Thriller Job ID: 890-391-1

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Project/Site: Thriller					
	rofins Xenco, Mid all analytes for this laborato		each accreditation/certification below.		3
Authority	Pro	ogram	Identification Number	Expiration Date	4
Texas The following analyt		LAP rt, but the laboratory is i	T104704400-20-21	06-30-21 This list may include analytes for which	5
the agency does not	t offer certification.			, ,	
Analysis Method 8015B NM 8021B	Prep Method 8015NM Prep 5035	Matrix Solid Solid	Analyte Total TPH Total BTEX		
	0000	Cond			8
					9
					10

# **Method Summary**

Client: WSP USA Inc. Project/Site: Thriller

Job ID: 890-391-1

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

#### **Protocol References:**

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions. SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

#### Laboratory References:

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

# **Sample Summary**

Client: WSP USA Inc. Project/Site: Thriller

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	As
890-391-1	PH01	Solid	03/18/21 10:05	03/18/21 14:30	_
890-391-2	PH01 A	Solid	03/18/21 10:10	03/18/21 14:30	
890-391-3	PH02	Solid	03/18/21 10:20	03/18/21 14:30	
890-391-4	PH02 A	Solid	03/18/21 10:30	03/18/21 14:30	
890-391-5	PH03	Solid	03/18/21 10:40	03/18/21 14:30	
890-391-6	PH03 A	Solid	03/18/21 10:45	03/18/21 14:30	

Revised Date 051418 Rev 2018			0				5
		0	5. 2. 5. 21 14.30	-	Ke Cint	Sports (	3
Received by: (Signature) Date/Time	Received by	Relinquished by: (Signature)	Date/Time F	ıre)	Received by: (Sjgnature)	(Signature)	Relinquished by: (Signature)
rol	<ul> <li>It assigns standard terms and conditions are due to circumstances beyond the contro enforced unless previously negotiated.</li> </ul>	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, ito affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of service. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	client company te Xenee, its affiliand I losses or expenses incurred by the submitted to Xenco, but not analyze	<del>uchase order from clis</del> sponsibility for any los 5 for each sample subt	<u>samples constitutes a valid p</u> as and shall not assume any re each project and a charge of \$	Notice: Signature of this document and relinquishment of <u>samples constitutes a valid purchase ord</u> of <u>service</u> . Xenco will be liable only for the cost of samples and shall not assume any responsibility of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each s	Notice: Signature of this of service. Xenco will be of Xenco. A minimum ch
Ag SiO2 Na Sr TI Sn U V Zn 1631/245.1/7470/7471 : Hg	∧o Ni K Se Ti U		I Sb As Ba Be B Cd A Sb As Ba Be Cd (	M Texas 11 Al LP 6010: 8RCRA	8RCRA 13PPM alyzed TCLP / SPLP	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 Circle Method(s) a
		~					
	1	R					
	2		-		C. 01 12 011C	~	X Tart
			× × ×	<u> </u>	+-	, 12	PH03
			X X X	-	3.18.21 1030	5	PHOLA
			XXX	-	3.19.21 1020	5	PHaz
			XXX	4- 1	3.13.21 1010	5	PHOLA
			XXX	2	3-18-21 1005	~	(HD)
Sample Comments			BTEX	əpth	Date Time Sampled Sampled	tification Matrix	Sample Identification
TAT starts the day received by the lab, if received by 4:30pm		1	PA 801 EPA 0= le (EPA	er of C	Correction Factor: Total Containers:	s: Yes (No N/A Is: Yes No N/A	Cooler Custody Seals Sample Custody Seals
		890-391 Chain of Custody	8021)	2	CINN -0	Yes No	Received Intact:
			)		100		Temperature (°C):
				Yet No	(Yes No Wet Ice	Te	SAMPLE RECEIPT
				Date:	Lo Due Date:	Spencer Lo	Sampler's Name:
Incident ID: NAPP2100428768	-						P.O. Number:
Cost Center: 1067741001				ine R	Ro	TE012921012	Project Number:
Work Order Notes		ANALYSIS REQUEST		Turn Around		Thriller	Project Name:
ADaPT Other:	Deliverables: EDD		Email: Spencer Lo@wsp com Korey Kennedy@wsp com Dan Moir@wsp com	Spencer Lo@wsp com.	Email	(303) 887-2946	Phone:
	Reporting:Level II	Repor	Carlsbad, NM 88220	City, State ZIP:		Midland, TX 79705	City, State ZIP:
	State of Project:	Sta	3104 East Green Street	Address:		3300 North A Street	Address:
PRP Brownfields RRC Duperfund	Program: UST/PST	Progr	XTO Energy	Company Name:		WSP	Company Name:
Work Order Comments	Wor		Kyle Littrell	Bill to: (if different)		Dan Moir	Project Manager:
www.xenco.com Page / of /		Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	80-355-0900) Atlanta,GA (77	7550) Phoenix,AZ (4	Hobbs,NM (575-392-	OCRAI CRIES	
		n Antonio,TX (210) 509-3334 .ubbock,TX (806)794-1296	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	TX (281) 240-4200 [ TX (432-704-5440)	Houston, Midlanc	INCO	X
Work Order No:	Work (	tody	Chain of Custody	~			



# Login Sample Receipt Checklist

Client: WSP USA Inc.

#### Login Number: 391 List Number: 1 Creator: Clifton, Cloe

<6mm (1/4").

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	N/A	

Job Number: 890-391-1 SDG Number:

List Source: Eurofins Carlsbad

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# Login Sample Receipt Checklist

Client: WSP USA Inc.

#### Login Number: 391 List Number: 2 Creator: Kramer, Jessica

<6mm (1/4").

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?	N/A	
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	N/A	

Job Number: 890-391-1 SDG Number:

List Source: Eurofins Midland

List Creation: 03/19/21 12:51 PM

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
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Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	24935
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
chensley	None	6/11/2021

CONDITIONS

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Action 24935