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

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party			OGRID				
Contact Name Conta				Contact To	<u>Felephone</u>		
Contact email Incident # (assigned by OCD)							
Contact mail	ing address			1			
			Location	of Release So	ource		
Latitude				Longitude			
			(NAD 83 in dec	cimal degrees to 5 decir	nal places)		
Site Name				Site Type			
Date Release	Discovered			API# (if app	olicable)		
Unit Letter	Section	Township	Range	Cour	nts.	1	
Omit Letter	Section	Township	Range	Cour	ity		
Surface Owner	r: State	☐ Federal ☐ Tr	ibal Private (A	Name:)	
			Natura and	d Volume of 1	Ralaasa		
Crude Oil		(s) Released (Select al Volume Release		calculations or specific	Volume Reco	volumes provided below) vered (bbls)	
Produced		Volume Release	` '		Volume Recovered (bbls)		
Troduced			ion of total dissol	ved solids (TDS)	Yes No		
		in the produced	water >10,000 mg				
Condensa	te	Volume Release	d (bbls)		Volume Reco	vered (bbls)	
Natural G	as	Volume Release	d (Mcf)		Volume Reco	vered (Mcf)	
Other (des	scribe)	Volume/Weight	Released (provide	e units)	Volume/Weig	ht Recovered (provide units)	
Cause of Rele	ease						

Received by OCD: 6/4/2021 11:42:26 AM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	Page 2 of 78
Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the responsible party consider this a major release?
19.15.29.7(A) NMAC?	
☐ Yes ☐ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	Initial Response
The responsible	party must undertake the following actions immediately unless they could create a safety hazard that would result in injury
☐ The source of the rele	ease has been stopped.
☐ The impacted area ha	s been secured to protect human health and the environment.
Released materials ha	ave been contained via the use of berms or dikes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed and managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain why:
has begun, please attach	AC the responsible party may commence remediation immediately after discovery of a release. If remediation a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred at area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and
public health or the environr failed to adequately investig	required to report and/or file certain release notifications and perform corrective actions for releases which may endanger nent. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have at and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In
addition, OCD acceptance o and/or regulations.	f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:	Title:
Signature: Udvion	Title:
	Telephone:
OCD Only	
Received by:	Date:

Location:	Thriller Battery		
Spill Date:	4/4/2021		
	Area 1		
Approximate A	rea =	485.00	sq. ft.
Average Satura	tion (or depth) of spill =	0.50	inches
Average Porosi	ty Factor =	0.03	
	VOLUME OF LEAK		
Total Crude Oil	=	0.11	bbls
	TOTAL VOLUME OF LEAK		
Total Crude Oil	=	0.11	bbls
	TOTAL VOLUME RECOVERED		
Total Crude Oil	=	0.00	bbls

Page 4 of 78

Incident ID	nAPP2110463633
District RP	
Facility ID	
Application ID	

Closure

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

			<u> </u>					
Closure Report Atta	achment Checklist: Each of the following i	items must be inc	luded in the closure report.					
A scaled site and sampling diagram as described in 19.15.29.11 NMAC								
	Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)							
☐ Laboratory analy	ses of final sampling (Note: appropriate ODG	C District office r	nust be notified 2 days prior to final sampling)					
Description of re	mediation activities							
may endanger public h should their operations human health or the en compliance with any o restore, reclaim, and re	ealth or the environment. The acceptance of have failed to adequately investigate and re- avironment. In addition, OCD acceptance of ther federal, state, or local laws and/or regular	f a C-141 report b mediate contamin a C-141 report do ations. The responditions that exis	tions and perform corrective actions for releases which y the OCD does not relieve the operator of liability action that pose a threat to groundwater, surface water, sees not relieve the operator of responsibility for insible party acknowledges they must substantially ted prior to the release or their final land use in action and re-vegetation are complete.					
Printed Name:	Kyle Littrell	Title:	Environmental Manager					
Signature:	A Hours	Date:05/27	7/2021					
email: Kyle.Lit	trell@exxonmobil.com	Telephone:	_432-221-7331					
OCD Only								
Received by: Rob	ert Hamlet	Date:	8/10/2021					
remediate contamination		water, human hea	d their operations have failed to adequately investigate and alth, or the environment nor does not relieve the responsible					
Closure Approved by:	Robert Hamlet	Date:	8/10/2021					
Printed Name: Rol	oert Hamlet	Title:	Environmental Specialist - Advanced					

wsp

WSP USA

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

May 28, 2021

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

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

To Whom It May Concern:

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

RELEASE BACKGROUND

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

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

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



District II Page 2

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

SITE CHARACTERIZATION

WSP characterized the Site according to Table 1, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC). Depth to groundwater at the Site is estimated to be between 50 feet and 100 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is United States Geological Survey (USGS) well 320532104001701, located approximately 0.37 miles west of the Site. The groundwater well has a reported depth to groundwater of 98 feet bgs and a total depth of 128 feet bgs. Ground surface elevation at the groundwater well location is 2,988 feet above mean sea level (amsl), which is approximately 6 feet higher in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1. The referenced well records are included in Attachment 1. There are no regional or Site-specific hydrological conditions, such as shallow surface water, karst features, wetlands, or vegetation that suggest the Site is conducive to shallow groundwater.

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

CLOSURE CRITERIA

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

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



District II Page 3

SITE ASSESSMENT ACTIVITIES

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

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

SOIL ANALYTICAL RESULTS

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

CLOSURE REQUEST

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



District II Page 4

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

Sincerely,

WSP USA Inc.

Spencer Lo

Staff Geologist

Ashley L. Ager, P.G.

Ashley L. Ager

Managing Director, Geologist

cc: Kyle Littrell, XTO

Ryan Mann, New Mexico State Land Office

Attachments:

Figure 1 Site Location Map

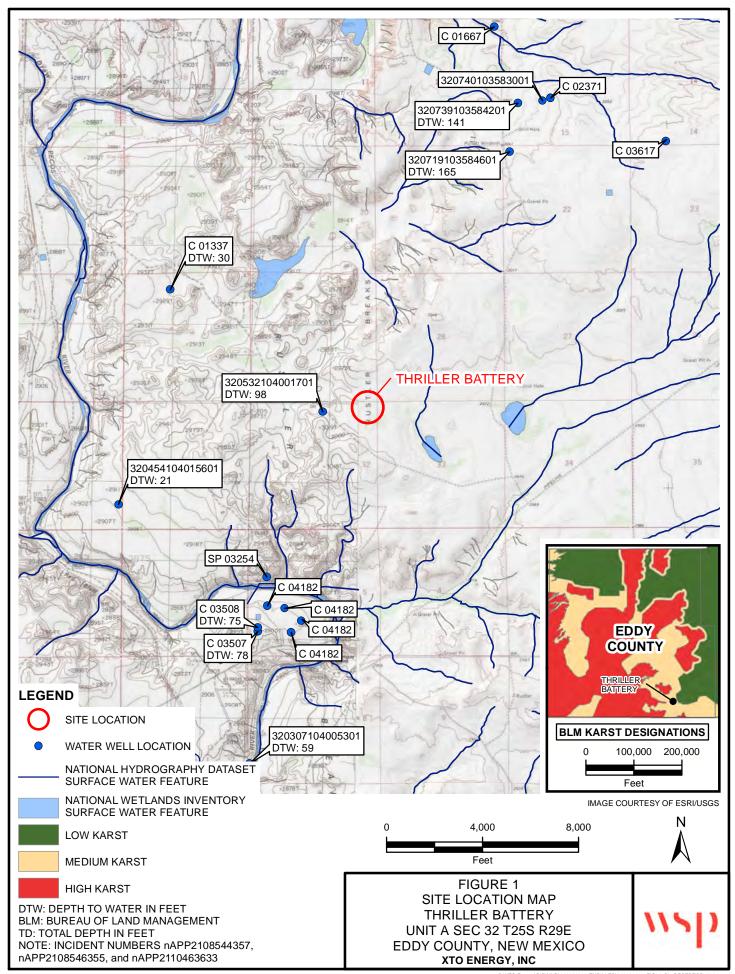
Figure 2 Delineation Soil Sample Locations

Table 1 Soil Analytical Results
Attachment 1 Referenced Well Records

Attachment 2 Lithologic/Sampling Logs

Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports



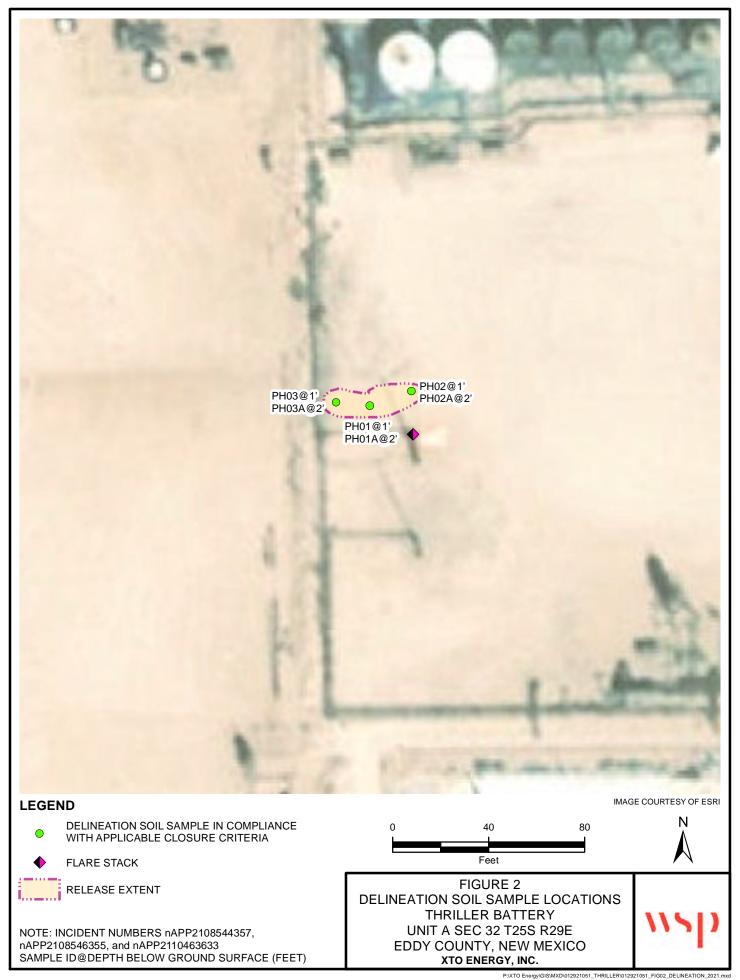


Table 1

Soil Analytical Results Thriller Battery

Incident Numbers: nAPP2108544357, nAPP2108546355, and nAPP2110463633

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 (NM	AC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	10,000
Delineation Samples										
PH01	04/29/2021	1	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	76.4
PH01A	04/29/2021	2	< 0.00199	< 0.00398	< 50.0	< 50.0	< 50.0	< 50.0	< 50.0	394
PH02	04/29/2021	1	< 0.00200	< 0.00400	< 50.0	< 50.0	<50.0	< 50.0	< 50.0	91.6
PH02A	04/29/2021	2	< 0.00202	< 0.00403	<50.0	< 50.0	<50.0	< 50.0	< 50.0	17.7
PH03	04/29/2021	1	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	684
PH03A	04/29/2021	2	< 0.00199	< 0.00398	<49.9	71.2	<49.9	71.2	71.2	1,650

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - motor oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

< - indicates result is less than the stated laboratory method practical quantitation limit

NE - Not Established

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

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.

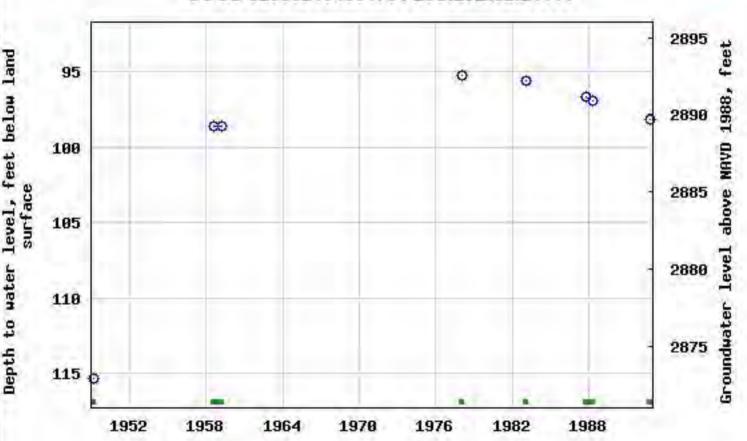
Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1949-03-11	1992-11-03	24
<u>Revisions</u>	Unavailable (site:0) (timese	eries:0)

OPERATION:

USGS 320532104001701 25S.29E.32.21111



USGS 320307104005301 26S.28E.13.11214

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°03'07", Longitude 104°00'53" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 2,858 feet above NAVD88.

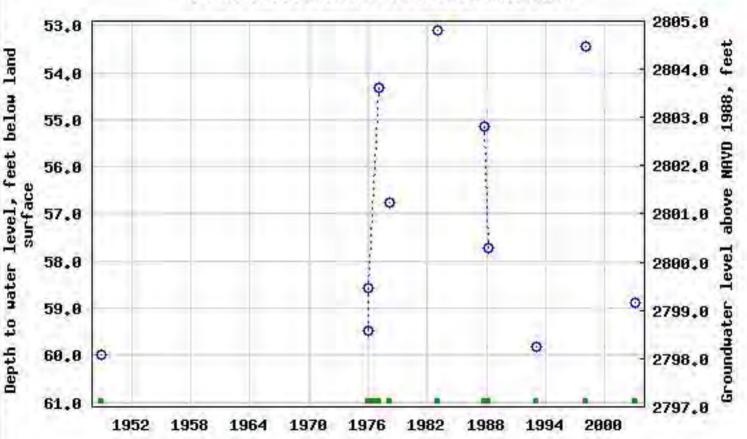
Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

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

OPERATION:

USGS 320307104005301 26S.28E.13.11214



USGS 320454104015601 26S.28E.02.112111

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°04'54", Longitude 104°01'56" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: not determined.

Land surface altitude: 2,913 feet above NAVD88.

Well completed in "Other aquifers" (N99990THER) national aquifer.

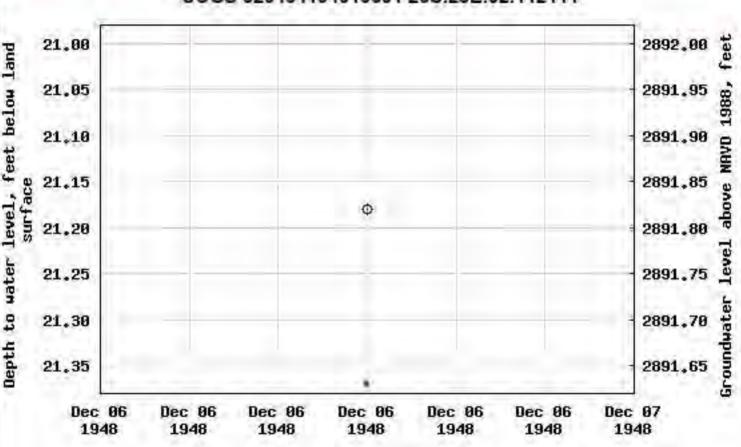
Well completed in "Castile Formation" (312CSTL) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1948-12-06	1948-12-06	3
Revisions	Unavailable (site:0) (timese	eries:0)

OPERATION:

USGS 320454104015601 26S.28E.02.112111



USGS 320719103584601 25S.29E.16.44444

Available data for this site

Well Site

DESCRIPTION:

Latitude 32°07'19", Longitude 103°58'46" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 200 feet

Land surface altitude: 3,042 feet above NAVD88.

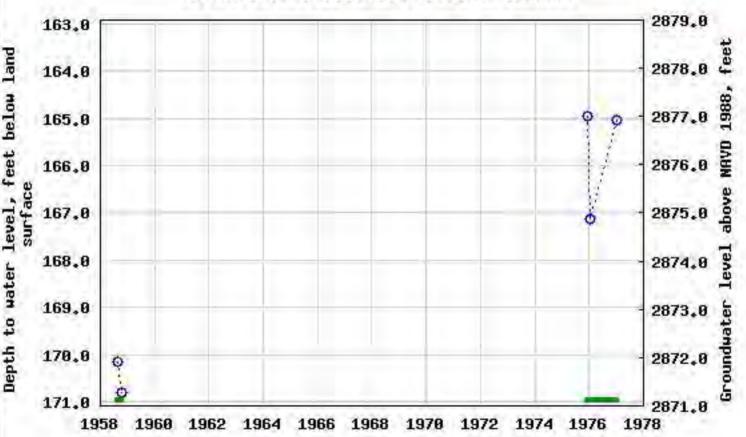
Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

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

OPERATION:





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.

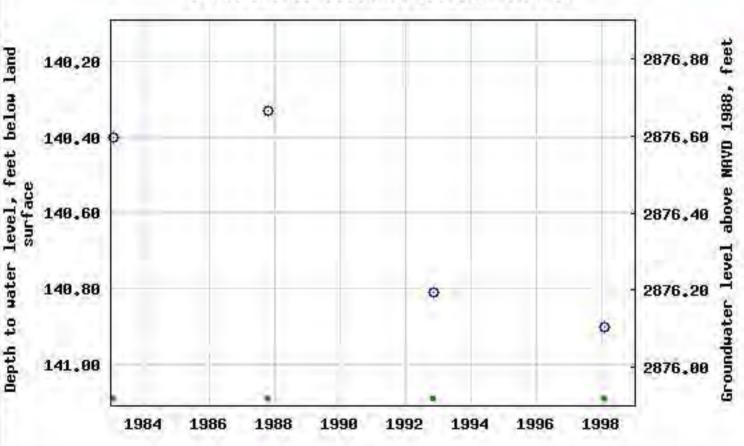
Well completed in "Other aquifers" (N99990THER) national aquifer. Well completed in "Rustler Formation" (312RSLR) local aquifer

AVAILABLE DATA:

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

OPERATION:

USGS 320739103584201 25S.29E.15.31134





New Mexico Office of the State Engineer

Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag **POD Number**

Q64 Q16 Q4 Sec Tws Rng

 \mathbf{X}

C 01337

25S 29E 1 30

591926 3552642*

Driller License: 24 **Driller Company:** BRININSTOOL, M.D.

Driller Name: HOWARD HEMLER

Drill Start Date: 08/25/1966 **Drill Finish Date:**

08/30/1966

Plug Date:

Shallow

Log File Date:

PCW Rcv Date: 01/26/1967

Source:

Pump Type:

Pipe Discharge Size:

Estimated Yield:

Casing Size:

Depth Well:

180 feet

Depth Water:

30 feet

Water Bearing Stratifications:

7.00

Bottom Description Top 73

93 Sandstone/Gravel/Conglomerate

163

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top **Bottom**

172

163

*UTM location was derived from PLSS - see Help

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

POINT OF DIVERSION SUMMARY



New Mexico Office of the State Engineer

Point of Diversion Summary

29E

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

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng 3 3 05 26S

 \mathbf{X}

C 03507 POD1

593064

3548313

Driller License: 1058 **Driller Company:** KEY'S DRILLING & PUMP SERVICE

Driller Name: KEY, CLINTON

Drill Start Date: 08/26/2011 **Drill Finish Date:** 08/26/2011 Plug Date:

Log File Date: 09/12/2011 PCW Rcv Date: Shallow Source: 35 GPM **Pump Type: SUBMER** Pipe Discharge Size: **Estimated Yield: Casing Size:** 6.00 Depth Well: 140 feet Depth Water: 78 feet

Water Bearing Stratifications: **Bottom Description** Top 78 Shale/Mudstone/Siltstone Sandstone/Gravel/Conglomerate 105 **Casing Perforations:** Top **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

26S 29E

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

(NAD83 UTM in meters)

Well Tag **POD Number** Q64 Q16 Q4 Sec Tws Rng 3 3 05

 \mathbf{X} Y

C 03508 POD1

593063 3548361

KEY'S DRILLING & PUMP SERVICE

Driller License: 1058

Driller Name: KEY, CLINTON

08/24/2011

Drill Start Date: 08/24/2011 Log File Date: 09/12/2011 **SUBMER**

Drill Finish Date: PCW Rcv Date: Pipe Discharge Size:

Driller Company:

Plug Date: Source:

Shallow 40 GPM

Pump Type: Casing Size: Depth Well:

140 feet

Estimated Yield: Depth Water:

75 feet

Water Bearing Stratifications:

6.00

Bottom Description Top

76 Shale/Mudstone/Siltstone

Casing Perforations:

Top **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

	\\ '	5)	! Ca	WS 508 West S rlsbad, Nev	P USA Stevens S w Mexico	treet 88220		BH or PH Name: PH01 Site Name: RP or Incident Numb	Thriller er:	Date: 4/29/2021	
									LTE Job Number:	TE012921	051	
LITHOLOGIC / SOIL SAMPLING LOG					Logged By SL		Method:	Backhoe				
Lat/Long: Field Screening: 32.092560,-103.999463 Chloride, PID					Hole Diameter:		Total Depth: 2'					
Comn	nents:					15					<u> </u>	
Field	screening \	alue inclu	ides 60	% error facto	or. 1D @ 2		~	1				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		L	ithology/F	Remarks	
					- -	_ 0 -		0-2'	Caliche w/ sand, stain, trace silt, r			, tan, no odor, no
D	<186	0.0	N	PH01	1'	_ 1	CCHE					
D	<186	0.0	N	PH01A	2'	<u> </u>						
					-	-			TD @ 2'			
					- - - - - - -	3 4 5 6						
					- - - - - - - - - - - - - - - - - - -	- 6 - 7 - 8 - 9 - 10 - 11						

\	//	5)	Ę Cal	WS 508 West S rlsbad, Nev	P USA Stevens S w Mexico	street 88220		BH or PH Name: PH02 Site Name: Thri RP or Incident Number: LTE Job Number: TE0	Date: 4/29/202	21
		LITH		SIC / SOII	SAMPI	ING LO	G		Logged By SL	Method:	: Backhoe
Lat/Lo	ng:		OLO	310 7 0011	Field Scree				Hole Diameter:	Total De	
32.092	2577,-103.9	999407			Chloride, P				-	2'	'
Comm		alue inclu	ides 60	% error facto	r TD @ 2'						
T TOTAL C	orcerning v	aldo il lolo	1000 00	70 01101 14010	15 @ 2		~				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	(ft bgs)	USCS/Rock Symbol			ogy/Remark	
						0		0-1'			brown, tan, no odor, no
					-	}	CCHE		stain, trace silt, m-f g	rained	
					-	 	COME				
D	<186	0.0	Ν	PH01	1'	1					
						 -		1'-2'		vn, well sorte	ed, m-f grained, no odor
					_	_	SP-SM		no stain		
D	377	0.0	Ν	PH01A	2'	2	OI OIVI				
					_	_			TD @ 2'		
					_	_					
					-	3					
					_						
					_						
					-	4					
					<u>-</u>	- 4					
					<u>-</u>	<u></u>					
					_	_					
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115	WSP USA 508 West Stevens Street Carlsbad, New Mexico 88220	BH or PH Name: PH03 Site Name: Thriller
	Calispau, New Mexico 66220	RP or Incident Number: LTE Job Number: TE012921051
LITHO	LOGIC / SOIL SAMPLING LOG	Logged By SL Method: Backhoe
Lat/Long:	Field Screening:	Hole Diameter: Total Depth:
32.092564,-103.999508	Chloride, PID	- 2'
Comments: Field screening value include	s 60% error factor. TD @ 2'	
Moisture Content Chloride (ppm) Vapor (ppm)	Sample Beath (ft bgs) Depth (ft bgs) Symbol	Lithology/Remarks
D 400 00	M 0 CCHE	0-1' Caliche w/ sand, well sorted, light brown, tan, no odor, no stain, trace silt, m-f grained
D <186 0.0	N PH01 1' 1	1'-2' Sand w/ caliche, brown, well sorted, m-f grained, no odor
D 435 0.0	N PH01A 2' 2 SP-SM	no stain
	+	TD @ 2'
	3	



PHOTOGRAPHIC LOG				
XTO Energy, Inc.	Thriller Battery	TE012921051		
	Eddy County, NM			

Photo No.Date1April 29, 2021Western view of PH02 delineation.



Photo No.	Date		1	
2	April 29, 2021			
Northern view of	PH03 delineation.			



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-602-1

Laboratory Sample Delivery Group: TE012921051

Client Project/Site: Thriller

For:

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

Attn: Dan Moir

MRAMER

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

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 8/10/2021 8:20:07 AM

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.

2

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4.0

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13

Client: WSP USA Inc.

Project/Site: Thriller

Laboratory Job ID: 890-602-1

SDG: TE012921051

Table of Contents

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Definitions/Glossary

Client: WSP USA Inc.

Job ID: 890-602-1

Project/Site: Thriller

SDG: TE012921051

1 2

Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier Qualifier Description

*+ LCS and/or LCSD is outside acceptance limits, high biased.

U Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier Qualifier Description

F1 MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Case Narrative

Client: WSP USA Inc. Job ID: 890-602-1 Project/Site: Thriller SDG: TE012921051

Job ID: 890-602-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-602-1

Receipt

The samples were received on 4/29/2021 4:39 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

Receipt Exceptions

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

GC VOA

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

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

GC Semi VOA

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

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

HPLC/IC

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

Lab Sample ID: 890-602-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-602-1 Project/Site: Thriller SDG: TE012921051

Client Sample ID: PH01

Date Collected: 04/29/21 11:00 Date Received: 04/29/21 16:39

Sample Depth: - 1

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	115	70 - 130	04/30/21 10:10	05/01/21 20:19	1
1 4-Difluorobenzene (Surr)	103	70 130	04/30/21 10:10	05/01/21 20:19	1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)									
A	nalyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
	Gasoline Range Organics GRO)-C6-C10	<49.9	U	49.9	mg/Kg		04/30/21 16:30	05/01/21 14:51	,
	Diesel Range Organics (Over C10-C28)	<49.9	U *+	49.9	mg/Kg		04/30/21 16:30	05/01/21 14:51	1
C	II Range Organics (Over C28-C36)	<49.9	U	49.9	mg/Kg		04/30/21 16:30	05/01/21 14:51	
Т	otal TPH	<49.9	U	49.9	mg/Kg		04/30/21 16:30	05/01/21 14:51	

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

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	76.4	4.98	mg/Kg			05/03/21 18:14	1	

Client Sample ID: PH01A Lab Sample ID: 890-602-2 Date Collected: 04/29/21 11:10 **Matrix: Solid**

Date Received: 04/29/21 16:39

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199	mg/Kg		04/30/21 10:10	05/01/21 20:40	1
Toluene	<0.00199	U	0.00199	mg/Kg		04/30/21 10:10	05/01/21 20:40	1
Ethylbenzene	<0.00199	U	0.00199	mg/Kg		04/30/21 10:10	05/01/21 20:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398	mg/Kg		04/30/21 10:10	05/01/21 20:40	1
o-Xylene	<0.00199	U	0.00199	mg/Kg		04/30/21 10:10	05/01/21 20:40	1
Xylenes, Total	<0.00398	U	0.00398	mg/Kg		04/30/21 10:10	05/01/21 20:40	1
Total BTEX	<0.00398	U	0.00398	mg/Kg		04/30/21 10:10	05/01/21 20:40	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		70 - 130			04/30/21 10:10	05/01/21 20:40	1
1,4-Difluorobenzene (Surr)	86		70 - 130			04/30/21 10:10	05/01/21 20:40	1

Lab Sample ID: 890-602-2

Client Sample Results

Client: WSP USA Inc. Job ID: 890-602-1 Project/Site: Thriller SDG: TE012921051

Client Sample ID: PH01A

Date Collected: 04/29/21 11:10 Date Received: 04/29/21 16:39

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:14	1
(GRO)-C6-C10								
Diesel Range Organics (Over	<50.0	U *+	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:14	1
C10-C28)								
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:14	1
Total TPH	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:14	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130			04/30/21 16:30	05/01/21 15:14	1
o-Terphenyl	117		70 - 130			04/30/21 16:30	05/01/21 15:14	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	394	=4	5.00	mg/Kg			05/03/21 18:20	

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-602-1 Project/Site: Thriller SDG: TE012921051

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		BFB1	DFBZ1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-602-1	PH01	115	103	
890-602-2	PH01A	102	86	
LCS 880-2532/1-A	Lab Control Sample	108	105	
LCSD 880-2532/2-A	Lab Control Sample Dup	106	105	
MB 880-2532/5-A	Method Blank	100	98	
MB 880-2540/5-A	Method Blank	102	100	
Surrogate Legend				
BFB = 4-Bromofluorober	nzene (Surr)			
DFBZ = 1,4-Difluorobena	zene (Surr)			

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
390-602-1	PH01	105	111	
390-602-2	PH01A	107	117	
LCS 880-2571/2-A	Lab Control Sample	107	108	
_CSD 880-2571/3-A	Lab Control Sample Dup	108	105	
MB 880-2571/1-A	Method Blank	99	105	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Eurofins Xenco, Carlsbad

Released to Imaging: 8/10/2021 8:20:07 AM

Client: WSP USA Inc. Job ID: 890-602-1 Project/Site: Thriller SDG: TE012921051

Method: 8021B - Volatile Organic Compounds (GC)

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

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Method Blank

Prep Batch: 2532

Prep Type: Total/NA

Dil Fac Analyzed 05/01/21 12:33 05/01/21 12:33 05/01/21 12:33

Analyte Result Qualifier RLUnit D Prepared Benzene <0.00200 U 0.00200 mg/Kg 04/30/21 10:10 Toluene <0.00200 U 0.00200 mg/Kg 04/30/21 10:10 Ethylbenzene <0.00200 U 0.00200 mg/Kg 04/30/21 10:10 m-Xylene & p-Xylene <0.00400 U 0.00400 mg/Kg 04/30/21 10:10 05/01/21 12:33 o-Xylene <0.00200 U 0.00200 04/30/21 10:10 05/01/21 12:33 mg/Kg Xylenes, Total <0.00400 U 0.00400 04/30/21 10:10 05/01/21 12:33 mg/Kg Total BTEX <0.00400 U 0.00400 04/30/21 10:10 05/01/21 12:33 mg/Kg

MB MB

мв мв

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	<u></u>	04/30/21 10:10	05/01/21 12:33	1
1,4-Difluorobenzene (Surr)	98		70 - 130	0	04/30/21 10:10	05/01/21 12:33	1

Lab Sample ID: LCS 880-2532/1-A **Client Sample ID: Lab Control Sample** Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 2530 Prep Batch: 2532

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

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	108	70 - 130
1.4-Difluorobenzene (Surr)	105	70 - 130

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

Matrix: Solid

Analysis Batch: 2530

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 2532

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

0.1025

0.100

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	106	70 - 130
1.4-Difluorobenzene (Surr)	105	70 - 130

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

Matrix: Solid

o-Xylene

Analysis Batch: 2530

Client Sample ID: Method Blank

70 - 130

102

mg/Kg

Prep Type: Total/NA

Prep Batch: 2540

35

мв мв Result Qualifier Analyte Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 04/30/21 13:50 05/01/21 00:58

Job ID: 890-602-1

SDG: TE012921051

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

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

Matrix: Solid

Client: WSP USA Inc.

Project/Site: Thriller

Analysis Batch: 2530

Client Sample	ID:	Method	Blank
---------------	-----	--------	-------

Prep Type: Total/NA

Prep Batch: 2540

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

MB MB

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

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

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

Matrix: Solid

Analysis Batch: 2589

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 2571

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

MB MB

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

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

Matrix: Solid

Analysis Batch: 2589

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

Prep Batch: 2571

%Rec

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

LCS LCS

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

Spike

Added

1000

1000

1057

1325 *+

Job ID: 890-602-1

mg/Kg

SDG: TE012921051

17

Prep Type: Soluble

Prep Type: Soluble

Prep Type: Soluble

Client Sample ID: PH01A

Client Sample ID: PH01A

Prep Type: Soluble

Prep Type: Soluble

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

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

Matrix: Solid

Analysis Batch: 2589

Gasoline Range Organics

Client: WSP USA Inc.

Project/Site: Thriller

Client Sample ID: Lab Control Sample Dup

70 - 130

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2571 LCSD LCSD RPD RPD Limit Result Qualifier Unit %Rec Limits mg/Kg 106 70 - 130 9 20

132

Diesel Range Organics (Over C10-C28)

(GRO)-C6-C10

Analyte

LCSD LCSD

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

Method: 300.0 - Anions, Ion Chromatography

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

Matrix: Solid

Analysis Batch: 2608

мв мв

Analyte Result Qualifier RL Unit Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 05/03/21 15:17

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

Matrix: Solid

Analysis Batch: 2608

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

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

Matrix: Solid

Analysis Batch: 2608

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

Lab Sample ID: 890-602-2 MS

Matrix: Solid

Analysis Batch: 2608

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	304	F1	250	602.0	F1	ma/Ka		83	90 110	

Lab Sample ID: 890-602-2 MSD

Matrix: Solid

Analysis Batch: 2608

Alialysis Datcii. 2000											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	394	F1	250	607.8	F1	mg/Kg		86	90 - 110	1	20

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-602-1

Project/Site: Thriller

SDG: TE012921051

GC VOA

Analysis Batch: 2530

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

Prep Batch: 2532

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

Prep Batch: 2540

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

GC Semi VOA

Prep Batch: 2571

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

Analysis Batch: 2589

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

HPLC/IC

Leach Batch: 2556

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

Analysis Batch: 2608

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

Eurofins Xenco, Carlsbad

5/4/2021

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QC Association Summary

Client: WSP USA Inc.
Project/Site: Thriller

Job ID: 890-602-1
SDG: TE012921051

HPLC/IC (Continued)

Analysis Batch: 2608 (Continued)

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

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Lab Chronicle

Client: WSP USA Inc. Job ID: 890-602-1 Project/Site: Thriller SDG: TE012921051

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2589

2556

2608

05/01/21 14:51

04/30/21 14:42

05/03/21 18:14

AJ

СН

CH

XM

ΧM

ΧM

Client Sample ID: PH01

Date Collected: 04/29/21 11:00 Date Received: 04/29/21 16:39

Lab Sample ID: 890-602-1

Matrix: Solid

Batch Batch Dilution Batch Prepared Prep Type Туре Method Run Factor Number or Analyzed Analyst Lab 5035 XM Total/NA Prep 2532 04/30/21 10:10 MR Total/NA Analysis 8021B 1 2530 05/01/21 20:19 MR ΧM Total/NA Prep 8015NM Prep 2571 04/30/21 16:30 DM ΧM

Lab Sample ID: 890-602-2

Matrix: Solid

Date Collected: 04/29/21 11:10

Client Sample ID: PH01A

Analysis

Analysis

Leach

Total/NA

Soluble

Soluble

Date Received: 04/29/21 16:39

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

Laboratory References:

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

8015B NM

DI Leach

300.0

Accreditation/Certification Summary

Client: WSP USA Inc. Job ID: 890-602-1 Project/Site: Thriller SDG: TE012921051

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date	
Texas	NELAP	T104704400-20-21	06-30-21	
The following analytes are include	d in this report, but the laboratory is not ce	ertified by the governing authority. This list ma	av include analytes for whic	

ich the agency does not offer certification.

Analysis Method	Fieb Method	IVIAUIX	Allalyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: WSP USA Inc.

Project/Site: Thriller

Job ID: 890-602-1

SDG: TE012921051

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

Protocol References:

ASTM = ASTM International

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

Laboratory References:

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

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Sample Summary

Client: WSP USA Inc. Project/Site: Thriller

Job ID: 890-602-1

SDG: TE012921051

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

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Chain of Custody

5 3	, >< \	Relinquished by: (Signature)	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontrol service. Xenco will be liable only for the cost of samples and shall not accume any reopensibility for any 105565 or expenses incurred by the client if such ic of xenco. A chimmum 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 v	Total 200.7 / 6010 Circle Method(s) a						PH01A	PH01	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	P.O. Number:	Project Number:	Project Name:	Phone: (3	City, State ZIP: N			Project Manager: D		X	
	Ь	Signature)	ument and relinquishn ble only for the cost of of \$75.00 will be appl	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed						S	S		Yes No	Yes Mo	(Yes) No	1.1	Temp Blank:	Spe		TE01	7	(303) 887-2946	Midland, TX 79705	3300 North A Street	WSP	Dan Moir			
7. OF	W. W.	Received	nent of samples consistent of samples and shall no lied to each project ar	0: 8R oe analyzed						4/29/2021	4/29/2021	Matrix Date Sampled		N/A Corre	1-12	(lank: (Yes) No	Spencer Lo		TE012921051	Thriller			et			Hobbs		
V	1	Received by: (Signature)	titutes a valid purch t assume any respond a charge of \$5 for	8RCRA 13PPM TCLP/SPLP						1110	1100	Time Sampled	Total Containers:	Correction Factor:	100-WN	Thermometer ID	Wet Ice:	Due Date:	Rush:	Routine	Turn	Email: Sp	C <u>i</u>	Ac	o o	Bi	NM (575-392-755	Houston,TX	
(4		nase order from clie maibility for any los reach sample subn	CRA 13PPM Texas 11 AITCLP / SPLP 6010: 8RCRA					_	2' 1	1'	Depth	er o	7.0			Yes No	jē:		4	Turn Around	encer.Lo@wsp.co	City, State ZIP:	Address:	Company Name:	Bill to: (if different)	0) Phoenix,AZ (4	(281) 240-4200 E	C
4.29/1/6:10	10	Date/Time	chase order from client company to Xenco, its affiliates and <u>subcontractors. It assigns standard terms and combiners to the client if such losses are due to circumstances beyond the control for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.</u>	A Sb As Ba Be			+			×	×	TPH (E	EPA	0=8	8021	_						Email: Spencer.Lo@wsp.com,Kalei.Jennings@wsp.com.Dan Moir@wsi	Carlsbad, NM 88220	3104 East Green Street	XTO Energy	Kyle Littrell	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-333 Midland TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296	Chain of Custody
4 0		Relinquished	its affiliates and subcont rred by the client if such i analyzed. These terms	B Cd Ca Cr e Cd Cr Co C				#													AN	wsp.com.Dan Moir	8220	n Street			a,GA (770-449-880	300 San Antonio,T 5-3443 Lubbock,T	Custody
	A My	hed by: (Signature)	uch losses are due terms will be enforced	Cu Fe			1		<u> </u>					0	890-602 Chair						ANALYSIS REQUEST	@wsp.com					0) Tampa,FL (813	TX (210) 509-3334 X (806)794-1296	
		7	ractors. It assigns standard terms and sentitions osses are due to circumstances beyond the crowill be enforced unless previously negotiated.	∭⊒ हे											Chain of Custody						EST	Deliverables: EDD	Reporting:Level II	State of Project:	Program: UST/PST		-620-2000)		
		Received by: (Signature)	ond the control egotiated.	K Se Ag							-			-	-				_				Level III	oject:	□RP	Work O	www.xenco.com		Work Order No:
		gnature)		SiO2 Na Sr Tl 1631 / 245.1		/						Sar	lab,	TAT star			Cost Cen	nAPP2110463633	nAPP2108546355,	Incident I	Wc	ADaPT [])ST		_Brownfields ☐	Work Order Comments	.com Page		er No:
		Date/Time		1631 / 245.1 / 7470 / 7471 :								Sample Comments	if received by 4:30p	TAT starts the day recevied by the			Cost Center: 1067741001	0463633	18546355,	Incident IDs: nAPP2108544357	Work Order Notes	Other:	RRP [evel IV		☐RRC ☐uperfund	S	of_	_	
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Revised Date 051418 Rev 2018 1

1089 N Canal St.

Carlsbad NM 88220 Phone 575-988-3199 Fax 575-988-3199

Eurofins Xenco, Carlsbad

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Chain of Custody Record

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Environment Testing

State, Zip TX, 79701 Note. Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. Empty Kit Relinquished by Deliverable Requested 1 II III IV Other (specify) Possible Hazard Identification PH01A (890-602-2) PH01 (890-602-1) 432-704-5440(Tel) Midland Client Information elinquished by sample Identification - Client ID (Lab ID) elinquished by hriller roject Name 211 W Florida Ave Custody Seals Intact

∆ Yes ∆ No dinquished by: urofins Xenco hipping/Receiving (Sub Contract Lab) Custody Seal No Date/Time Date/Time Primary Deliverable Rank SSOW#: 89000004 Due Date Requested 5/5/2021 Phone TAT Requested (days) roject #: 4/29/21 4/29/21 Date Mountain 11 10 Mountain 11 00 N G=grab (C=comp, Sample Preservation Code: Type Company Company Company Matrix Solid Solid E-Mail Kramer Jessica essica kramer@eurofinset.com Field Filtered Sample (Yes or No) NELAP - Louisiana NELAP - Texas Ime Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Moni Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Received by: × 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks × 300_ORGFM_28D/DI_LEACH Chloride × × × 8021B/6035FP_Calc BTEX × Analysis Requested State of Origin New Mexico Carrier Tracking No(s): Method of Shipment Date/Time Total Number of containers COC No: 890-192 1 890-602-1 Preservation Codes Page 1 of 1 Ice
I DI Water
EDTA
EDA NaOH

Zn Acetate

Nitric Acid

NaHSO4

MeOH

Amchlor

Ascorbic Acid 두 Special Instructions/Note < C - U Z D T O Z S ΝŞ Company W Hexane
V None
V NasNaO2
V Na2O4S
V Na2SO3
V Na2S2O3
V Na2S2O3 Ver: 11/01/2020 Company TSP Dodecahydrate
Acetone
MCAA / pH 4-5 other (specify) Months

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-602-1

SDG Number: TE012921051

List Source: Eurofins Carlsbad

Login Number: 602 List Number: 1 Creator: Clifton, Cloe

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	

True

True

N/A

True

N/A

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Eurofins Carlsbad

Appropriate sample containers are used.

There is sufficient vol. for all requested analyses, incl. any requested

Containers requiring zero headspace have no headspace or bubble is

Sample bottles are completely filled.

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

Login Sample Receipt Checklist

Client: WSP USA Inc. Job Number: 890-602-1 SDG Number: TE012921051

List Source: Eurofins Midland

List Number: 2

Login Number: 602 List Creation: 04/30/21 02:14 PM Creator: Copeland, Tatiana

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

Eurofins Carlsbad

<6mm (1/4").



Environment Testing America

ANALYTICAL REPORT

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

Laboratory Job ID: 890-603-1

Laboratory Sample Delivery Group: TE012921051

Client Project/Site: Thriller

For:

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

Attn: Dan Moir

MAMER

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

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

.....LINKS

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Have a Question?



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www.eurofinsus.com/Env

Released to Imaging: 8/10/2021 8:20:07 AM

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.

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Client: WSP USA Inc.

Project/Site: Thriller

Laboratory Job ID: 890-603-1

SDG: TE012921051

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Definitions/Glossary

Client: WSP USA Inc.

Job ID: 890-603-1

Project/Site: Thriller

SDG: TE012921051

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Qualifiers

GC VOA

Qualifier Description

U Indicates the analyte was analyzed for but not detected.

GC Semi VOA

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

HPLC/IC

Qualifier Qualifier Description

U Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent

 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

Eurofins Xenco, Carlsbad

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Case Narrative

Client: WSP USA Inc.

Project/Site: Thriller

Job ID: 890-603-1

SDG: TE012921051

Job ID: 890-603-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-603-1

Receipt

The samples were received on 4/29/2021 4:13 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C

GC VOA

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

GC Semi VOA

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

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

HPLC/IC

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

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Lab Sample ID: 890-603-1

Client Sample Results

Client: WSP USA Inc. Job ID: 890-603-1 Project/Site: Thriller SDG: TE012921051

Client Sample ID: PH02

Date Collected: 04/29/21 11:20 Date Received: 04/29/21 16:13

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 21:00	1
Toluene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 21:00	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 21:00	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		04/30/21 10:10	05/01/21 21:00	1
o-Xylene	<0.00200	U	0.00200	mg/Kg		04/30/21 10:10	05/01/21 21:00	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		04/30/21 10:10	05/01/21 21:00	1
Total BTEX	<0.00400	U	0.00400	mg/Kg		04/30/21 10:10	05/01/21 21:00	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130			04/30/21 10:10	05/01/21 21:00	1
1,4-Difluorobenzene (Surr)	107		70 - 130			04/30/21 10:10	05/01/21 21:00	1

Method: 8015B NM - Diesel Rang	Method: 8015B NM - Diesel Range Organics (DRO) (GC)								
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac	
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:35	1	
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:35	1	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:35	1	
Total TPH	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:35	1	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac	
1-Chlorooctane	100		70 - 130			04/30/21 16:30	05/01/21 15:35	1	
o-Terphenvl	104		70 - 130			04/30/21 16:30	05/01/21 15:35	1	

Method: 300.0 - Anions, Ion Chrom	natography - Soluble						
Analyte	Result Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	91.6	4.98	mg/Kg			05/03/21 18:36	1

Client Sample ID: PH02A Date Collected: 04/29/21 11:30 Date Received: 04/29/21 16:13

Sample Depth: - 2

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202	mg/Kg		04/30/21 13:50	05/01/21 06:20	1
Toluene	<0.00202	U	0.00202	mg/Kg		04/30/21 13:50	05/01/21 06:20	1
Ethylbenzene	<0.00202	U	0.00202	mg/Kg		04/30/21 13:50	05/01/21 06:20	1
m-Xylene & p-Xylene	<0.00403	U	0.00403	mg/Kg		04/30/21 13:50	05/01/21 06:20	1
o-Xylene	<0.00202	U	0.00202	mg/Kg		04/30/21 13:50	05/01/21 06:20	1
Xylenes, Total	<0.00403	U	0.00403	mg/Kg		04/30/21 13:50	05/01/21 06:20	1
Total BTEX	<0.00403	U	0.00403	mg/Kg		04/30/21 13:50	05/01/21 06:20	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	105		70 - 130			04/30/21 13:50	05/01/21 06:20	1
1,4-Difluorobenzene (Surr)	107		70 - 130			04/30/21 13:50	05/01/21 06:20	1

Lab Sample ID: 890-603-2

Matrix: Solid

Lab Sample ID: 890-603-2

Client Sample Results

Client: WSP USA Inc.

Job ID: 890-603-1

Project/Site: Thriller

SDG: TE012921051

Client Sample ID: PH02A

Date Collected: 04/29/21 11:30 Date Received: 04/29/21 16:13

Sample Depth: - 2

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:56	
Diesel Range Organics (Over C10-C28)	<50.0	U *+	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:56	•
OII Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:56	
Total TPH	<50.0	U	50.0	mg/Kg		04/30/21 16:30	05/01/21 15:56	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
1-Chlorooctane	106		70 - 130			04/30/21 16:30	05/01/21 15:56	-
o-Terphenyl	118		70 - 130			04/30/21 16:30	05/01/21 15:56	
Method: 300.0 - Anions, Ion Chro	matography -	Soluble						
Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fa
Chloride	17.7		4.97	mg/Kg			05/03/21 17:10	

Client Sample ID: PH03

Date Collected: 04/29/21 11:40

Lab Sample ID: 890-603-3

Matrix: Solid

Date Received: 04/29/21 16:13

Sample Depth: - 1

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201	mg/Kg		04/30/21 13:50	05/01/21 06:40	1
Toluene	<0.00201	U	0.00201	mg/Kg		04/30/21 13:50	05/01/21 06:40	1
Ethylbenzene	<0.00201	U	0.00201	mg/Kg		04/30/21 13:50	05/01/21 06:40	1
m-Xylene & p-Xylene	<0.00402	U	0.00402	mg/Kg		04/30/21 13:50	05/01/21 06:40	1
o-Xylene	<0.00201	U	0.00201	mg/Kg		04/30/21 13:50	05/01/21 06:40	
Xylenes, Total	<0.00402	U	0.00402	mg/Kg		04/30/21 13:50	05/01/21 06:40	
Total BTEX	<0.00402	U	0.00402	mg/Kg		04/30/21 13:50	05/01/21 06:40	
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	108		70 - 130			04/30/21 13:50	05/01/21 06:40	
1,4-Difluorobenzene (Surr)	106		70 - 130			04/30/21 13:50	05/01/21 06:40	1
Method: 8015B NM - Diesel Rang			5 1		_			511.5
Analyte	Result	Qualifier	RL_	Unit	D	Prepared	Analyzed	Dil Fac
Analyte Gasoline Range Organics		Qualifier	RL 49.9	Unit mg/Kg	<u>D</u>	Prepared 04/30/21 16:30	Analyzed 05/01/21 16:18	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10	Result <49.9	Qualifier U	49.9	mg/Kg	<u>D</u>	04/30/21 16:30	05/01/21 16:18	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U			<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <49.9	Qualifier U U *+	49.9	mg/Kg	<u>D</u>	04/30/21 16:30	05/01/21 16:18	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U U *+	49.9	mg/Kg	<u>D</u>	04/30/21 16:30 04/30/21 16:30	05/01/21 16:18 05/01/21 16:18	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH	Result <49.9 <49.9 <49.9	Qualifier U U*+ U	49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/30/21 16:30 04/30/21 16:30 04/30/21 16:30	05/01/21 16:18 05/01/21 16:18 05/01/21 16:18	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49	Qualifier U U*+ U	49.9 49.9 49.9 49.9	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/30/21 16:30 04/30/21 16:30 04/30/21 16:30 04/30/21 16:30	05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 05/01/21 16:18	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane	Result <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 <49.9 %Recovery	Qualifier U U*+ U	49.9 49.9 49.9 49.9 Limits	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/30/21 16:30 04/30/21 16:30 04/30/21 16:30 04/30/21 16:30 Prepared	05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 Analyzed	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U U *+ U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	<u>D</u>	04/30/21 16:30 04/30/21 16:30 04/30/21 16:30 04/30/21 16:30 Prepared 04/30/21 16:30	05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 Analyzed 05/01/21 16:18	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36) Total TPH Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U U *+ U Qualifier	49.9 49.9 49.9 49.9 Limits 70 - 130	mg/Kg mg/Kg mg/Kg	D	04/30/21 16:30 04/30/21 16:30 04/30/21 16:30 04/30/21 16:30 Prepared 04/30/21 16:30	05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 05/01/21 16:18 Analyzed 05/01/21 16:18	Dil Fac

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1 1

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=/4/202

Lab Sample ID: 890-603-4

Client Sample Results

Client: WSP USA Inc.

Project/Site: Thriller

Job ID: 890-603-1

SDG: TE012921051

Client Sample ID: PH03A

Date Collected: 04/29/21 11:50 Date Received: 04/29/21 16:13

Sample Depth: - 2

Chloride

U U U U U U	0.00199 0.00199 0.00199 0.00398 0.00199 0.00398 0.00398	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg		04/30/21 15:09 04/30/21 15:09 04/30/21 15:09 04/30/21 15:09 04/30/21 15:09	05/01/21 07:01 05/01/21 07:01 05/01/21 07:01 05/01/21 07:01	1 1 1
U U U	0.00199 0.00398 0.00199 0.00398	mg/Kg mg/Kg mg/Kg mg/Kg		04/30/21 15:09 04/30/21 15:09	05/01/21 07:01 05/01/21 07:01	1 1 1
U U U	0.00398 0.00199 0.00398	mg/Kg mg/Kg mg/Kg		04/30/21 15:09	05/01/21 07:01	1
U U	0.00199 0.00398	mg/Kg mg/Kg				1
U	0.00398	mg/Kg		04/30/21 15:09	05/04/04 07 04	
					05/01/21 07:01	1
U	0.00398			04/30/21 15:09	05/01/21 07:01	1
		mg/Kg		04/30/21 15:09	05/01/21 07:01	1
Qualifier	Limits			Prepared	Analyzed	Dil Fac
	70 - 130			04/30/21 15:09	05/01/21 07:01	1
	70 - 130			04/30/21 15:09	05/01/21 07:01	1
, , ,	RL	Unit	<u>D</u>	Prepared	Analyzed	Dil Fac
U	49.9	mg/Kg		04/30/21 16:30	05/01/21 16:39	1
*+	49.9	mg/Kg		04/30/21 16:30	05/01/21 16:39	1
U	49.9	mg/Kg		04/30/21 16:30	05/01/21 16:39	1
	49.9	mg/Kg		04/30/21 16:30	05/01/21 16:39	1
Qualifier	Limits			Prepared	Analyzed	Dil Fac
	70 - 130			04/30/21 16:30	05/01/21 16:39	1
	70 - 130			04/30/21 16:30	05/01/21 16:39	1
	RO) (GC) Qualifier U *+ U	70 - 130 RO) (GC) Qualifier RL U 49.9 *+ 49.9 U 49.9 Qualifier Limits 70 - 130	70 - 130 RO) (GC) Qualifier RL Unit U 49.9 mg/Kg *+ 49.9 mg/Kg U 49.9 mg/Kg 49.9 mg/Kg Qualifier Limits 70 - 130	70 - 130 RO) (GC) Qualifier RL Unit D #+ 49.9 mg/Kg U 49.9 mg/Kg U 49.9 mg/Kg Qualifier Limits 70 - 130	70 - 130 04/30/21 15:09 RO) (GC) Qualifier RL Unit D Prepared U 49.9 mg/Kg 04/30/21 16:30 U 49.9 mg/Kg 04/30/21 16:30 U 49.9 mg/Kg 04/30/21 16:30 Qualifier Limits Prepared 70 - 130 04/30/21 16:30	70 - 130 04/30/21 15:09 05/01/21 07:01 RO) (GC) Qualifier RL Unit D Prepared Analyzed 04/30/21 16:30 05/01/21 16:39 *+ 49.9 mg/Kg 04/30/21 16:30 05/01/21 16:39 U 49.9 mg/Kg 04/30/21 16:30 05/01/21 16:39 49.9 mg/Kg 04/30/21 16:30 05/01/21 16:39 Qualifier Limits Prepared Analyzed 70 - 130 05/01/21 16:30 05/01/21 16:39

25.1

mg/Kg

1650

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05/03/21 17:31

Surrogate Summary

Client: WSP USA Inc. Job ID: 890-603-1 Project/Site: Thriller SDG: TE012921051

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

		BFB1	DFBZ1	Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Semple ID	(70-130)	(70-130)	
890-603-1	Client Sample ID PH02	106	107	
890-603-1	PH02A	105	107	
890-603-3	PH03	108	106	
890-603-4	PH03A	106	106	
LCS 880-2532/1-A	Lab Control Sample	108	105	
LCS 880-2540/1-A	Lab Control Sample	98	106	
LCS 880-2567/1-A	Lab Control Sample	104	101	
LCSD 880-2532/2-A	Lab Control Sample Dup	106	105	
LCSD 880-2540/2-A	Lab Control Sample Dup	101	104	
LCSD 880-2567/2-A	Lab Control Sample Dup	106	102	
MB 880-2519/5-A	Method Blank	90	90	
MB 880-2531/5-A	Method Blank	102	103	
MB 880-2532/5-A	Method Blank	100	98	
MB 880-2540/5-A	Method Blank	102	100	
MB 880-2567/5-A	Method Blank	93	91	
Surrogate Legend				

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-603-1	PH02	100	104	
890-603-2	PH02A	106	118	
890-603-3	PH03	113	120	
890-603-4	PH03A	104	111	
LCS 880-2571/2-A	Lab Control Sample	107	108	
LCSD 880-2571/3-A	Lab Control Sample Dup	108	105	
MB 880-2571/1-A	Method Blank	99	105	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-603-1

Client: WSP USA Inc. Project/Site: Thriller SDG: TE012921051

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2519/5-A Client Sample ID: Method Blank

Matrix: Solid

Analysis Batch: 2544

Ctiloa Blank	Official Campic 12: Method
pe: Total/NA	Prep Type: Tot
Batch: 2519	Prep Batch:

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

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

Lab Sample ID: MB 880-2531/5-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Total/NA Analysis Batch: 2530** Prep Batch: 2531

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

	MB N	ИВ				
Surrogate	%Recovery C	Qualifier Li	mits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	70) ₋ 130	04/30/21 10:02	04/30/21 13:04	1
1,4-Difluorobenzene (Surr)	103	70) ₋ 130	04/30/21 10:02	04/30/21 13:04	1

Lab Sample ID: MB 880-2532/5-A **Client Sample ID: Method Blank Matrix: Solid Prep Type: Total/NA**

Analysis Batch: 2530 Prep Batch: 2532

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

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

QC Sample Results

Client: WSP USA Inc. Job ID: 890-603-1 Project/Site: Thriller SDG: TE012921051

Spike

Added

0.100

0.100

0.100

0.200

0.100

0.1070

0.2130

0.1036

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

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

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

Analysis Batch: 2530

Matrix: Solid

Analyte

Benzene

Toluene

o-Xylene

Ethylbenzene

m-Xylene & p-Xylene

Matrix: Solid

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 2532 LCS LCS Result Qualifier Unit %Rec Limits 0.1002 mg/Kg 100 70 - 130 0.1017

mg/Kg 102 70 - 130 mg/Kg 107 70 - 130 mg/Kg 106 70 - 130 mg/Kg 104 70 - 130

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1.4-Difluorobenzene (Surr)	105		70 ₋ 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 2532

Analysis Batch: 2530 LCSD LCSD %Rec. RPD Spike Added Result Qualifier RPD Limit Analyte Unit D %Rec I imits Benzene 0.100 0.1002 mg/Kg 100 70 - 130 0 35 Toluene 0.100 0.1017 mg/Kg 102 70 - 130 0 35 0.1038 Ethylbenzene 0.100 mg/Kg 104 70 - 130 3 35 0.200 0.2092 m-Xylene & p-Xylene mg/Kg 105 70 - 130 2 35 0.100 0.1025 102 o-Xylene mg/Kg 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1.4-Difluorobenzene (Surr)	105		70 - 130

Lab Sample ID: MB 880-2540/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 2530 Prep Batch: 2540

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

MB MB

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

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

Benzene

Matrix: Solid						Prep Type: Total/NA
Analysis Batch: 2530						Prep Batch: 2540
	Spike	LCS LCS				%Rec.
Analyte	Added	Result Qualifie	r Unit	D	%Rec	Limits

0.09679

mg/Kg

Eurofins Xenco, Carlsbad

Client Sample ID: Lab Control Sample

70 - 130

97

0.100

Client: WSP USA Inc. Job ID: 890-603-1 Project/Site: Thriller SDG: TE012921051

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

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

Matrix: Solid Analysis Batch: 2530 **Client Sample ID: Lab Control Sample**

Prep Type: Total/NA

Prep Batch: 2540

Prep Batch: 2540

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

LCS LCS

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

Client Sample ID: Lab Control Sample Dup

Lab Sample ID: LCSD 880-2540/2-A **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 2530

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

LCSD LCSD

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

Lab Sample ID: MB 880-2567/5-A Client Sample ID: Method Blank

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 2544** Prep Batch: 2567

мв мв

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

MB MB

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

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

Matrix: Solid

Analysis Batch: 2544

		Client Sample ID: Lab Control Sample
		Prep Type: Total/NA
		Prep Batch: 2567
Spike	LCS LCS	%Rec.

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

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QC Sample Results

Client: WSP USA Inc. Job ID: 890-603-1 Project/Site: Thriller SDG: TE012921051

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

Lab Sample ID: LCS 880-2567/1-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA Analysis Batch: 2544 Prep Batch: 2567

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

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

Lab Sample ID: LCSD 880-2567/2-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid** Prep Type: Total/NA

Analysis Batch: 2544 Prep Batch: 2567

LCSD	LCSD			%Rec.		RPD
Result	Qualifier Unit	D	%Rec	Limits	RPD	Limit
0.1111	mg/Kg		111	70 - 130	0	35
0.1045	mg/Kg		105	70 - 130	0	35
0.1055	mg/Kg		105	70 - 130	1	35
0.2224	mg/Kg		111	70 - 130	2	35
0.1117	mg/Kg		112	70 - 130	2	35
	Result 0.1111 0.1045 0.1055 0.2224	Result Qualifier Unit 0.1111 mg/Kg 0.1045 mg/Kg 0.1055 mg/Kg 0.2224 mg/Kg	Result Qualifier Unit D 0.1111 mg/Kg mg/Kg 0.1045 mg/Kg mg/Kg 0.2224 mg/Kg	Result Qualifier Unit D %Rec 0.1111 mg/Kg 111 0.1045 mg/Kg 105 0.1055 mg/Kg 105 0.2224 mg/Kg 111	Result Qualifier Unit D %Rec Limits 0.1111 mg/Kg 111 70 - 130 0.1045 mg/Kg 105 70 - 130 0.1055 mg/Kg 105 70 - 130 0.2224 mg/Kg 111 70 - 130	Result Qualifier Unit D %Rec Limits RPD 0.1111 mg/Kg 111 70 - 130 0 0.1045 mg/Kg 105 70 - 130 0 0.1055 mg/Kg 105 70 - 130 1 0.2224 mg/Kg 111 70 - 130 2

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

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

Lab Sample ID: MB 880-2571/1-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA Prep Batch: 2571

Analysis Batch: 2589 MR MR

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

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

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

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 2589** Prep Batch: 2571

LCS LCS Spike %Rec. Added Result Qualifier Analyte Unit %Rec Limits Gasoline Range Organics 1000 1159 116 70 - 130 mg/Kg

(GRO)-C6-C10

Job ID: 890-603-1

Client: WSP USA Inc. Project/Site: Thriller SDG: TE012921051

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

Lab Sample ID: LCS 880-2571/2-A Client Sample ID: Lab Control Sample **Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 2589** Prep Batch: 2571 LCS LCS

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

C10-C28)

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

Lab Sample ID: LCSD 880-2571/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA **Analysis Batch: 2589** Prep Batch: 2571

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

C10-C28)

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

мв мв

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2556/1-A Client Sample ID: Method Blank **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 2608

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

Lab Sample ID: LCS 880-2556/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble**

Analysis Batch: 2608

	Spike	LUS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	263.2		ma/Ka		105	90 - 110	

Lab Sample ID: LCSD 880-2556/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble**

Matrix: Solid Analysis Batch: 2608

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

QC Association Summary

Client: WSP USA Inc.

Job ID: 890-603-1
Project/Site: Thriller

SDG: TE012921051

GC VOA

Prep Batch: 2519

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

Analysis Batch: 2530

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

Prep Batch: 2531

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

Prep Batch: 2532

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

Prep Batch: 2540

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

Analysis Batch: 2544

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

Prep Batch: 2567

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

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QC Association Summary

Client: WSP USA Inc.

Job ID: 890-603-1

Project/Site: Thriller

SDG: TE012921051

GC Semi VOA

Prep Batch: 2571

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

Analysis Batch: 2589

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

HPLC/IC

Leach Batch: 2556

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

Analysis Batch: 2608

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

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Client: WSP USA Inc. Job ID: 890-603-1 Project/Site: Thriller SDG: TE012921051

Client Sample ID: PH02

Date Received: 04/29/21 16:13

Lab Sample ID: 890-603-1 Date Collected: 04/29/21 11:20

Matrix: Solid

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

Client Sample ID: PH02A Lab Sample ID: 890-603-2

Date Collected: 04/29/21 11:30 **Matrix: Solid** Date Received: 04/29/21 16:13

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

Client Sample ID: PH03 Lab Sample ID: 890-603-3

Date Collected: 04/29/21 11:40 Matrix: Solid Date Received: 04/29/21 16:13

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

Client Sample ID: PH03A Lab Sample ID: 890-603-4

Date Collected: 04/29/21 11:50 Matrix: Solid Date Received: 04/29/21 16:13

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

Laboratory References:

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

Accreditation/Certification Summary

Client: WSP USA Inc.

Job ID: 890-603-1

Project/Site: Thriller

SDG: TE012921051

Laboratory: Eurofins Xenco, Midland

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

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

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

Analysis Method	Prep Method	Matrix	Analyte	
8015B NM	8015NM Prep	Solid	Total TPH	
8021B	5035	Solid	Total BTEX	

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Method Summary

Client: WSP USA Inc.

Project/Site: Thriller

Job ID: 890-603-1

SDG: TE012921051

	-
Laboratory	

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
3015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

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

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

Laboratory References:

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

Sample Summary

Client: WSP USA Inc. Project/Site: Thriller

Job ID: 890-603-1

SDG: TE012921051

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

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Chain of Custody

roject Manager: Dan Mo ompany Name: WSP ddress: 3300 Nc ity, State ZIP: Midland hone: 300 Nc ity, State ZIP: Midland ity, State ZIP: Midland hone: 300 Nc ity, State ZIP: Midland ity, State ZIP:	Congent Name Cong	Turn 051 Correction Factor: Total Containers: Date Sampled 4/29/2021 1120 4/29/2021 1120 4/29/2021 1140 4/29/2021 1150 BRCRA 13PPM 8RCRA 13PPM	Company Name: Address: Address: City, State ZIP: Email: Spencer Lo@wsp cor Turn Around Routine - Q Rush: Due Date: Wet Ice: Yes) No Time Sampled 1120 1' 1 1130 2' 1 1140 1' 1 1150 2' 1 1150 2' 1 1160 2' 1 1170 1' 1 1	Number of Containers 1 1 Number of Containers 2 Carlsbar X X X TPH (EPA 8015) Al Sb As CCRA Sb As CCRA Sb As CCRA Sb As Library of Containers Al Sb As CCRA Sb As CCRA Sb As CCRA Sb As CCRA Sb As	XTO Energy XTO Energy 3104 East Green Street Carlsbad, NM 88220 Kalei Jennings@wsp.com XX X X X X X X X X X X X X X X X X X	WYS AND THE SECOND THE		State of Project: Reporting:Level IIev Deliverables: EDD SREQUEST SREQUEST SREQUEST U Fe Pb Mg Mn Mo Ni K Se Mn Mo Ni Se Ag Ti U Tr. (Signature) Received the conductors are due to circumstances beyond the conductors are due to circumstances previously negotiated. Reporting:Level IIev Deliverables: EDD	□ □ ST/U ADaPT ADaPT 1631 1631	ST RRC Juperfund ST RRP evel IV ST Other: Work Order Notes Work Order Notes APP2108546355, APP2110463633 cost Center: 1067741001 Sample Comments Sample Comments 1245.117470 17471: Hg Date/Time
(r)		Hous Mid Hobbs,NM (575-3	ton,TX (281) 240-420 land,TX (432-704-54 392-7550) Phoenix,A	Ch ao Dallas 10 Dallas 10) EL Pa Z (480-35	ain C TX (214) aso,TX (9	902-030 15)585-3 Atlanta,G	Chain of Custody Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296 Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)		Work Order No:	5/4/2021
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	3300 North A Street		Address:		04 East	Green S	street			ļ —
	Midland, TX 79705		City, State ZIP		arlsbad, l	NM 882	20		□ST/UST □RRP	evel IV
none:	(303) 887-2946	€m	nail: Spencer.Lo@ws	p com,Ka	ilei Jennii	isw@spr	.com,Dan.Moir@wsp.com	Deliverables: EDD	P	
oject Name:	Thriller		Turn Around				ANALYSIS REQUE	ST	Work Or	der Notes
oject Number:	TE01292106				_			_	Incident IDs: nA	PP2108544357,
O. Number:									nAPP21085463	55,
ampler's Name:	Spencer Lo		ue Date:						nAPP21104636	33
AMPLE RECE	Temp Blank: (No	Mes)	S					Cost Center: 10	67741001
emperature (°C):			eter ID	iner)	0)				
eceived Intact:		L '	2		_	300.		of Custody		
ooler Custody Seals	Yes (No)	Correction Fac	J. C	×		ΕPA	_	_	TAT starts the d	
		Data Timo			_	ride				
Sample Ident	Matrix				-	Chlo			Sample (
PH02	S				-	×				age
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PH03,	S			-	+	×				
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				1	+					
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Total 200.7 / 60 Circle Method(s	10 200.8 / 6020: s) and Metal(s) to be analy	8R	3PPM Texas 11 SPLP 6010 : 8RC	الما	As As	Be Be	Cd Ca Cr Co C d Cr Co Cu Pb	ᅵᅟᆽᆘ	Ag SiC	V Zn 17471 :
ce: Signature of this d	ocument and relinquishment of sa	noles constitutes a vali	d purchase order from	olient oor	pany to X	enco, Ita	affiliates and subcontractors. It assign	ns standard terms and conditi	ons	
ervice. Xenco will be li enco. A minimum chai	able only for the cost of samples a ge of \$75.00 will be applied to eac	ind shall not assume an h project and a charge o	y responsibility for an of \$5 for each sample s	losses o	r expenses to Xenco,	s incurred but not ar	by the client if such losses are due to nalyzed. These terms will be enforced in	circumstances beyond the co unless previously negotiated.	ntrol	
Relinquished by:	(Signature) F	Received by: (Sign	nature)	D	ate/Time	Э		re) Received		Date/Time
	(m) 1/1.	Loft		4/88/1	160	00	2 N. V.			
	Rec	The state of the s		7.70	1	16:13	6 4			
										2010

Eurofins Xenco, Carlsbad 1089 N Canal St.

Chain of Custody Record

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eurofins

Environment Testing

State, Zip TX, 79701 Empty Kit Relinquished by Note: Since laboratory accreditations are subject to change, Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Xenco LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. PH03A (890-603-4) PH02A (890-603-2) PH02 (890-603-1) Sample Identification - Client ID (Lab ID) Deliverable Requested 1 II III IV Other (specify) PH03 (890-603-3) 432-704-5440(Tel) Carlsbad NM 88220 Phone 575-988-3199 Fax: 575-988-3199 Thriller Client Information ossible Hazard Identification Midland elinquished by roject Name 211 W Florida Ave Custody Seals Intact elinquished by: linquished by: rofins Xenco nipping/Receiving Yes ∆ No B (Sub Contract Lab) Custody Seal No . 2.85. 2 Project #: 89000004 Date/Time Date/Time Primary Deliverable Rank. 2 Due Date Requested 5/5/2021 TAT Requested (days) Phone 4/29/21 4/29/21 4/29/21 4/29/21 Date Mountain 11 30 Mountain 11 40 Mountain 11 50 Sample 20 G=grab) (C=comp Preservation Code: Type Company Company Company S=solid, O=waste/oil, Matrix Solid Solid Solid Solid Kramer Jessica E-Mail jessica kramer@eurofinset.com Field Filtered Sample (Yes or No) Accreditations Required (See note)
NELAP - Louisıana NELAP - Texas Ime Special Instructions/QC Requirements Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Month Perform MS/MSD (Yes or No) Received by: 8015MOD_NM/8015NM_S_Prep Full TPH Cooler Temperature(s) °C and Other Remarks × × × × 300_ORGFM_28D/DI_LEACH Chloride × × × × 8021B/6036FP_Calc BTEX × × × × Analysis Requested New Mexico State of Origin Carrier Tracking No(s): Method of Shipment , Total Number of containers COC No: 890-192.1 Preservation Codes Page 1 of 1 390-603-1 lce
DI Water
EDTA
EDA NaOH
Zn Acetate
Nitric Acid
NaHSO4
MeOH
Amchlor
Ascorbic Acid 된 Special Instructions/Note N ≶ < C - 0 70 Company M Hexane
N None
D AsNaO2
Na2O4S
Na2SO3
Na2S2O3 Company Company Acetone MCAA H2SO4 TSP Dodecahydrate other (specify) pH 4-5 11/01/2020

Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-603-1

SDG Number: TE012921051

List Source: Eurofins Carlsbad

Login Number: 603 List Number: 1 Creator: Clifton, Cloe

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

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Login Sample Receipt Checklist

Client: WSP USA Inc.

Job Number: 890-603-1

SDG Number: TE012921051

List Source: Eurofins Midland

List Source: Eurofins Midland
List Number: 2
List Creation: 04/30/21 02:15 PM

Creator: Copeland, Tatiana

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

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<6mm (1/4").

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 30650

CONDITIONS

Operator:	OGRID:
XTO ENERGY, INC	5380
1	Action Number:
Midland, TX 79707	30650
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

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