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	nAPP2123361366
District RP	
Facility ID	
Application ID	

# **Release Notification**

# **Responsible Party**

			,	Ponsible	V		
Responsible F	Party: WPX	Energy Permian,	LLC	OG	RID: 246289		
Contact Name	e: Jim Raley	у		Cor	stact Telephone: 575-689-7597		
Contact email: jim.raley@dvn.com				Inci	Incident # (assigned by OCD) nAPP2123361366		
Contact mailin 88220	ng address:	5315 Buena Vista	a Dr., Carlsbad N	M			
			Location	n of Relea	se Source		
Latitude 32.02	210342		(NAD 83 in d	Long lecimal degrees to	itude -103.9788208 o 5 decimal places)		
Site Name: EA	AST PECOS	S FEDERAL 22 #	003H	Site	Type: Oil Production Facility		
Date Release I	Discovered:	Aug 21th, 2021		API	# (if applicable) 30-015-42285		
Unit Letter	Section	Township	Range		County		
M	22	26S	29E	Eddy			
	Materia		ll that apply and attac		e of Release specific justification for the volumes provided below)		
Crude Oil		Volume Release			Volume Recovered (bbls) 8		
Produced '	Water	Volume Release	` '		Volume Recovered (bbls) 19		
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chloride in th	e Xes No		
Condensat	e	Volume Release	ed (bbls)		Volume Recovered (bbls)		
Natural Ga	as	Volume Release	ed (Mcf)		Volume Recovered (Mcf)		
Other (des	Other (describe) Volume/Weight Released (provide units)			Volume/Weight Recovered (provide units)			
released to the	e pad surfac	ee.			ad failed, allowing for approx. 35 bbls (25PW/10 Oil) to be		
bbi estimut	4.2	$21(\frac{ft^3}{bbl\ equivalent})$	· estimated s	ou por osity	v(%) + recovered fluids (bbl)		

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Page 2 Oil Conservation Division

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Incident ID	nAPP2123361366
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Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the responsible party consider this a major release?  Volume exceeded 25 bbls
⊠ Yes □ No	
If YES, was immediate no	otice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
	y on 8/21/2021, to Robert Hamlet and Emily Hernandez
	Initial Response
The responsible p	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.
	s been secured to protect human health and the environment.
Released materials ha	we 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.
regulations all operators are public health or the environr failed to adequately investig	rmation given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and required to report and/or file certain release notifications and perform corrective actions for releases which may endanger ment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have ate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In f a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws
Printed Name:James	s Raley Title: Environmental Specialist
Signature:	Py Date:08/30/2021
email:jim.raley@dvn	
OCD Only	
Received by: Ramona	Marcus Date: <u>8/31/2021</u>

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 45151

# **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	45151
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
rmarcus	None	8/31/2021

tate of New Mexico

Incident ID	nAPP2123361366
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# **Site Assessment/Characterization**

 $This information \ must be provided \ to \ the \ appropriate \ district \ of fice \ no \ later \ than \ 90 \ days \ after \ the \ release \ discovery \ date.$ 

What is the shallowest depth to groundwater beneath the area affected by the release?	<u>51 - 100</u> (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☑ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☑ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☑ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☑ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☑ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☑ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☑ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☑ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☑ No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	☐ Yes ☑ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vert contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
Characterization Report Checklist: Each of the following items must be included in the report.	
<ul> <li>✓ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well</li> <li>✓ Field data</li> <li>✓ Data table of soil contaminant concentration data</li> <li>✓ Depth to water determination</li> <li>✓ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release</li> <li>✓ Boring or excavation logs</li> <li>✓ Photographs including date and GIS information</li> <li>✓ Topographic/Aerial maps</li> <li>✓ Laboratory data including chain of custody</li> </ul>	ls.

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

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

Printed Name: Jim Raley

Title: Environmental Professional

Date: 3/14/2022

email: jim.raley@dvn.com

Telephone: 575-689-7597

DOCD Only

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

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

Page 6 of 216 nAPP2123361366 Incident ID District RP Facility ID Application ID

# **Remediation Plan**

Remediation Plan Checklist: Each of the following items must b	e included in the plan.
<ul> <li>✓ Detailed description of proposed remediation technique</li> <li>✓ Scaled sitemap with GPS coordinates showing delineation poin</li> <li>✓ Estimated volume of material to be remediated</li> </ul>	is
Closure criteria is to Table 1 specifications subject to 19.15.29.	12(C)(4) NMAC
Proposed schedule for remediation (note if remediation plan tin	
Deferral Requests Only: Each of the following items must be con	nfirmed as part of any request for deferral of remediation.
Contamination must be in areas immediately under or around predeconstruction.	roduction equipment where remediation could cause a major facility
Extents of contamination must be fully delineated.	
Contamination does not cause an imminent risk to human health	n, the environment, or groundwater.
	e and remediate contamination that pose a threat to groundwater, acceptance of a C-141 report does not relieve the operator of
Printed Name: Jim Raley	Title: Environmental Professional
Signature: Jin Rolly	Date:3/14/2022
email: jim.raley@dvn.com	Telephone: <u>575-689-7597</u>
OCD Only	
OCD Only	
Received by:	Date:
Approved With Attached Conditions of	Approval Denied Deferral Approved
Signature: Jennifer Nobui	Date: 03/16/2022

wsp

WSP USA

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

March 10, 2022

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

RE: Remediation Work Plan
East Pecos Federal 22 #003H
Incident Number nAPP2123361366
Eddy County, New Mexico

To Whom it May Concern:

WSP USA Inc. (WSP) on behalf of WPX Energy Permian, LLC (WPX), presents the following Remediation Work Plan detailing remediation activities completed to date and a proposed work plan to address residual impacted soil at the East Pecos Federal 22 #003H (Site) in Unit M and D, Section 22, Township 26 South, Range 29 East, in Eddy County, New Mexico (Figure 1). The purpose of remediation activities was to address impacts to soil resulting from the release of crude oil and produced water at the Site, by safely excavating impacted soil to the extent possible based on Site conditions. The proposed work plan is designed to address remaining impacts to soil by installing a 20-mil impermeable liner in the subsurface and additional excavation to the greatest extent safely permissible around energized subsurface electric utilities and within an existing excavation.

#### RELEASE BACKGROUND

On August 21, 2021, a stainless-steel line running to a murphy gauge on the wellhead failed. Approximately 10 barrels (bbls) of crude oil and 25 bbls of produced water were released onto the surface of the well pad. Hydrovac trucks were immediately dispatched to the Site and recovered approximately 8 bbls of crude oil and 19 bbls of produced water. WPX reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification and Corrective Action Form (Form C-141) on August 30, 2021. The release was subsequently assigned Incident Number nAPP2123361366.

## 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 51 and 100 feet below ground surface (bgs) based on the nearby groundwater well data. Based on the desktop review, the closest permitted groundwater well with depth to groundwater data is the United States



Geological Survey (USGS) well number 320126103562801, located approximately 0.29 miles northeast from the Site. The water well has a depth to groundwater of approximately 67 feet bgs. However, field verification is sometimes necessary to measure the distance of a water well from the release extent and to confirm the water well location exists. During the field assessment to verify the location of USGS water well 320126103562801, WSP verified that the well did not exist.

Two other wells in the immediate area exhibit similar depth to groundwater measurements, indicating depth to groundwater is regionally consistent. The next closest well with depth to groundwater data is USGS well 320112103574501, located approximately 0.90 miles east of the Site, has a depth of groundwater measurement of 57.38 feet bgs. USGS well 320135103573301, located 1 mile northeast of the Site, has a depth to groundwater of approximately 80.88 feet bgs. All wells used for depth to groundwater determination are depicted on Figure 1 and referenced well records are provided in Attachment 1. While depth to groundwater appears to be between 51 and 100 feet bgs for the Site, the well location (greater than 0.5 mile from the Site) does not meet the NMOCD interpretated guidance of estimation of depth to water.

The closest continuously flowing water or significant watercourse to the Site is an intermittent stream approximately 1,270 feet north of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and less than 300 feet from an occupied residence. 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**

There do not appear to be any sensitive receptors related to the Site; however, the location of the wells is not within 0.5-mile of the Site. Therefore, the follow NMOCD Table 1 Closure Criteria apply:

Benzene: 10 milligrams per kilogram (mg/kg)

Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg

Total petroleum hydrocarbons (TPH): 100 mg/kg

Chloride: 600 mg/kg

# **DELINEATION SOIL SAMPLING ACTIVITIES AND RESULTS**

On September 9, 2021, WSP personnel visited the Site to oversee delineation activities to assess the areas of impacted soil. WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated photo-ionization detector (PID) and Hach® chloride QuanTab® test strips, respectively, to define the vertical extent of impacted soil within the subject release extent. Five



potholes (PH01 through PH05) were advanced within the release area to depths ranging from 1-foot to 8 feet bgs. At minimum, two soil samples were collected from each pothole for laboratory analysis: the highest observed field screened concentration and the pothole terminus. Field screening results and observations for the potholes were logged on lithologic/soil sampling logs, which are included in Attachment 2. The release extent and pothole locations were mapped utilizing a handheld Global Positioning System (GPS) unit and are depicted on Figure 2.

The delineation 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 Midland, Texas, for analysis of BTEX following EPA Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.

Laboratory analytical results for the delineation soil samples collected from potholes PH02, PH03 and PH05 indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria. Laboratory analytical results for the delineation soil samples PH01 at 1 foot bgs and PH04 at 4 feet bgs indicated that chloride concentrations exceeded the Closure Criteria and thus remediation was warranted. Vertical delineation to the Closure Criteria within the excavation was achieved in PH01 at 4 feet bgs and PH04 at 8 feet bgs.

## **EASTERN EXCAVATION SOIL SAMPLING ACTIVITIES AND RESULTS**

WSP personnel returned to the Site to oversee excavation activities from January 11 through 26, 2022. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride utilizing a calibrated PID and Hach® chloride QuanTab® test strips, respectively. Following removal of impacted soil, WSP collected 5-point composite soil samples at a frequency of at least every 200 square feet from the sidewalls and floor of the excavation. The 5-point composite samples were collected by placing five equivalent aliquots of soil into a 1-gallon, resealable plastic bag and homogenizing the samples by thoroughly mixing. The excavation soil samples were collected, handled and analyzed as previously described. Composite floor samples FS01 through FS09 were collected from the floor of the excavation from depths ranging from 2.5 feet to 3 feet bgs. Composite sidewall samples SW01 and SW02 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 3 feet bgs.

Final laboratory analytical results for the excavation soil samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in all samples except FS07, which exceeded Closure Criteria for chloride concentrations.



# WESTERN EXCAVATION SOIL SAMPLING ACTIVITIES AND RESULTS

WSP personnel simultaneously oversaw the western excavation from January 11 through 26, 2022. To direct excavation activities, WSP screened soil for volatile aromatic hydrocarbons and chloride as previously described. Following removal of impacted soil, WSP collected composite floor samples FS11, FS13 and FS15 from a depth of 4.5 feet bgs to characterize residual chloride impacts inside the excavation floor. Composite sidewall samples SW03 through SW09 were collected from the sidewalls of the excavation from depths ranging from the ground surface to 4.5 feet bgs. The excavation soil samples were handled and analyzed as previously described.

The excavation soil sample locations and excavation extent were mapped utilizing a GPS unit and are depicted on Figure 3. Photographic documentation is provided in Attachment 3.

Laboratory analytical data for SW03 through SW05 warranted additional soil removal due to chloride exceedances above the Closure Criteria. Final laboratory analytical results for the excavation sidewall samples indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the Closure Criteria in all samples except SW07, which exceeded Closure Criteria for chloride concentrations.

The final excavation extents measured approximately 2,103 square feet and 1,332 square feet for the eastern and the western excavation, respectively. A total of approximately 740 cubic yards of impacted soil were excavated, transported and disposed of at the R360 Facility under WPX approved manifests.

## LABORATORY ANALYTICAL RESULTS

The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are provided in Attachment 4.

# PROPOSED REMEDIATION WORK PLAN

Additional remediation is required in both the eastern and western excavation, specifically the area associated with SW07 and FS07 until Closure Criteria standards are achieved.

Currently, delineation and excavation soil sampling provided full lateral and vertical delineation of the remaining impacted soil. Remaining impacts in the western excavation floor are characterized by chloride concentrations of 949 mg/kg to 1,370 mg/kg based on FS11, FS13 and FS15. Vertical delineation to the Closure Criteria was achieved in PH04 at 8 feet bgs. WSP proposes additional excavation of SW07 within the top four feet until horizontal delineation is achieved, followed by the installation of a 20-mil impermeable liner at approximately 4.5 feet bgs inside the western excavation to act as a physical barrier and mitigate further chloride impacts into the subsurface. Once complete, WPX will backfill the area with non-waste containing soil. The proposed liner extent is shown on Figure 4.



Additionally, impacted soil within the vicinity of FS07 will be removed utilizing heavy equipment until Closure Criteria standards are achieved and confirmed with laboratory analytical results.

Following approval of this work plan by NMOCD, WPX will coordinate additional excavation efforts associated FS07 and SW07, liner installation and backfilling activities. WSP and WPX do not believe the liner and the residual impacted soil below will result in imminent risk to human health, the environment, or groundwater.

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

Sincerely,

WSP USA Inc.

Anna Byers

Consultant, Geologist

Joseph S. Hernandez

Consultant, Geologist

cc: Jim Raley, Devon Energy Corporation

# Attachments:

Figure 1 Site Location Map

Figure 2 Delineation Soil Sample Locations
Figure 3 Excavation Soil Sample Locations
Figure 4 Proposed Lines and Excavation Are

Figure 4 Proposed Liner and Excavation Areas

Table 1 Soil Analytical Results

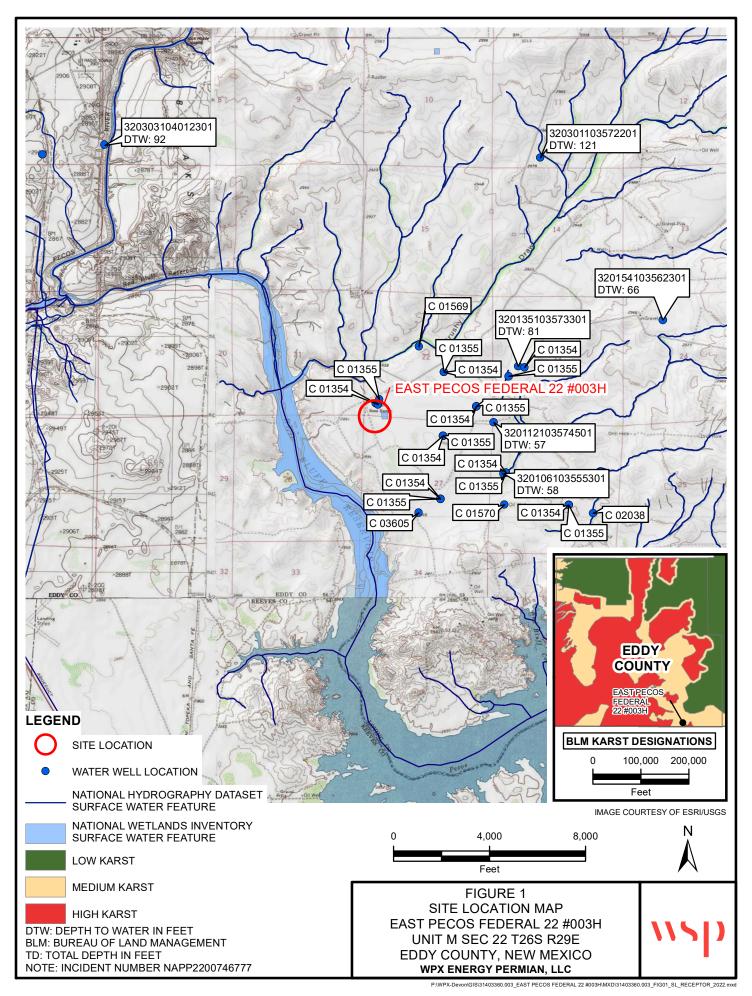
Attachment 1 Referenced Well Records

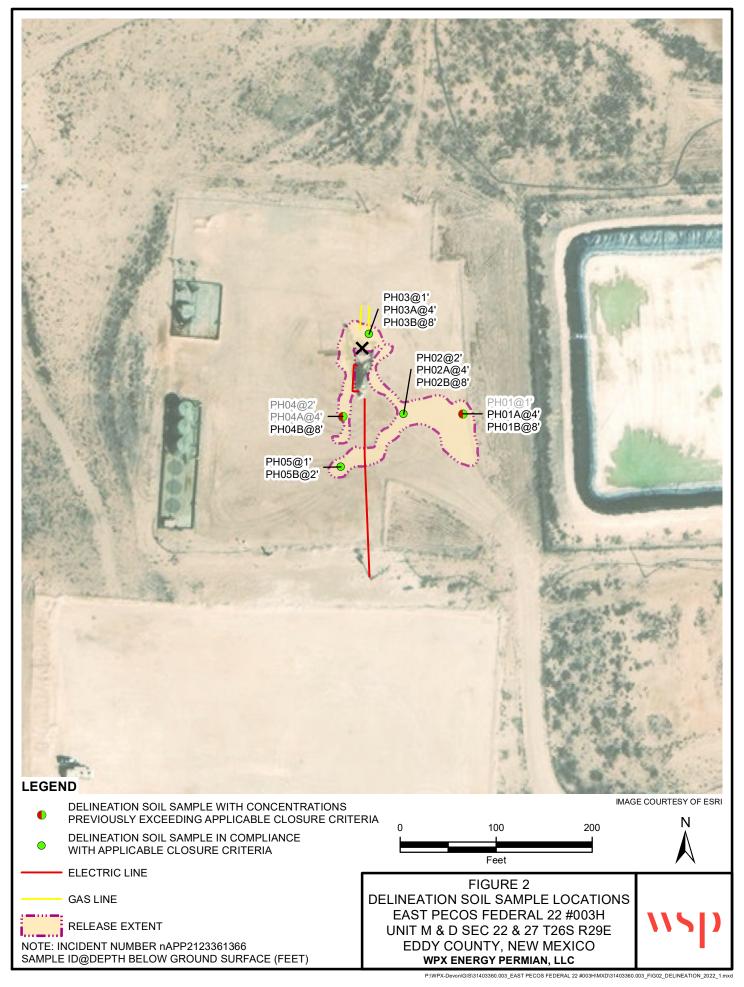
Attachment 2 Lithologic / Soil Sampling Log

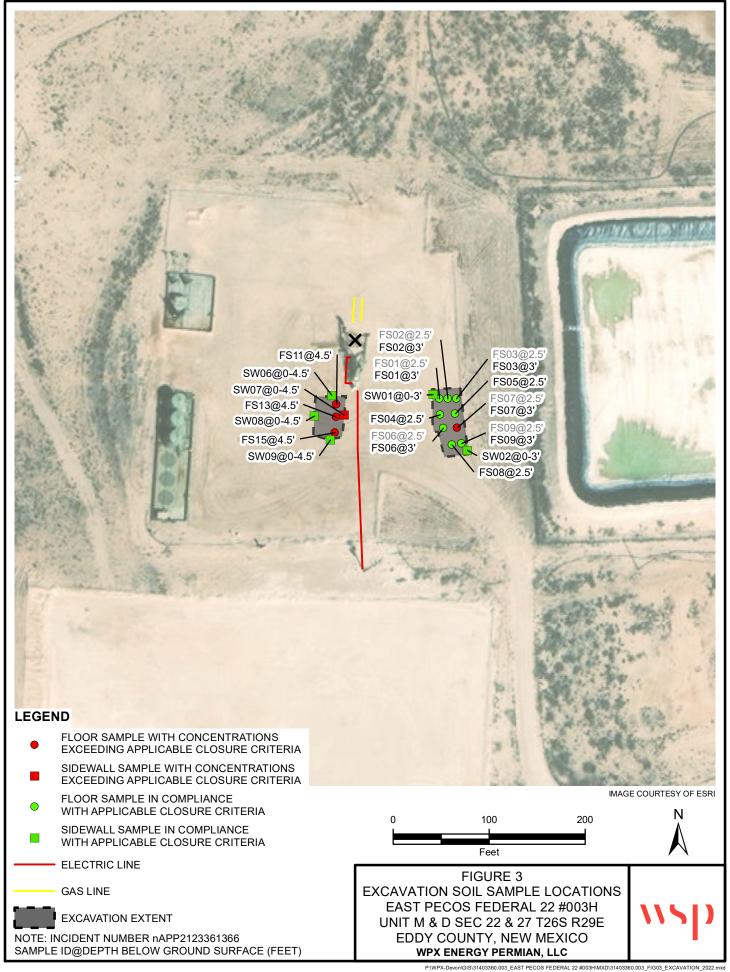
Attachment 3 Photographic Log

Attachment 4 Laboratory Analytical Reports

Attachment 5 Sampling Notifications







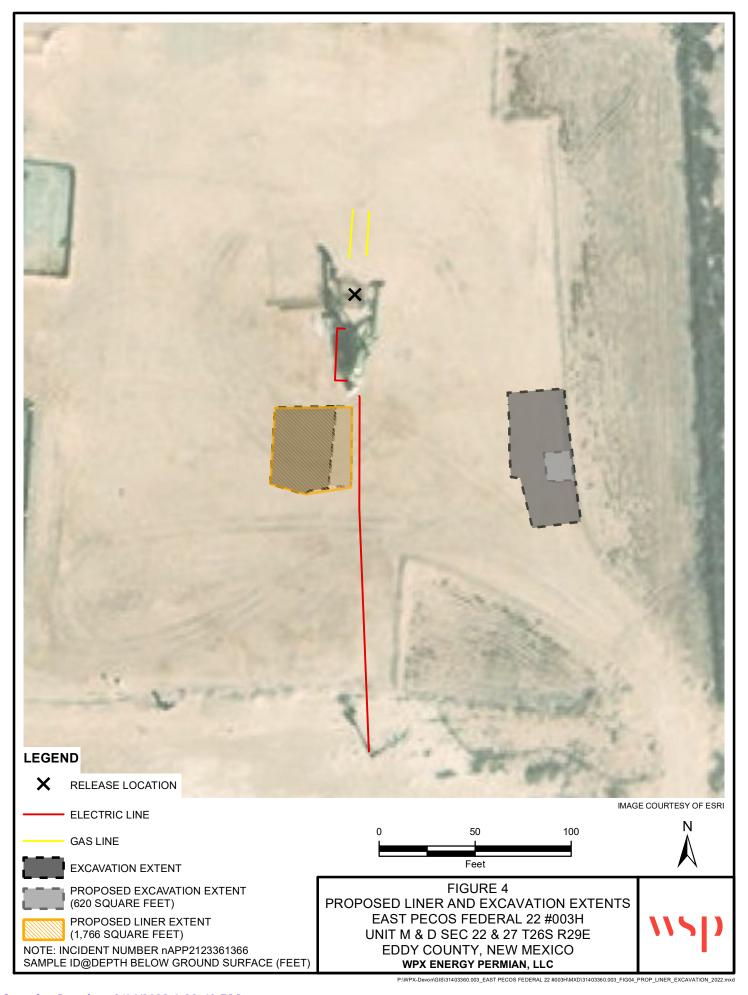


Table 1

# Soil Analytical Results EAST PECOS FEDERAL 22 #003H Incident Number nAPP2123361366 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Delineation Soil Sam	ples									
PH01	09/09/2021	1	< 0.00200	< 0.00401	<49.9	<49.9	<49.9	<49.9	<49.9	996
PH01A	09/09/2021	4	< 0.00200	< 0.00400	<49.9	<49.9	<49.9	<49.9	<49.9	351
PH01B	09/09/2021	8	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	547
PH02	09/09/2021	2	< 0.00200	< 0.00399	<49.8	<49.8	<49.8	<49.8	<49.8	291
PH02A	09/09/2021	4	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	56.2
PH02B	09/09/2021	8	< 0.00198	< 0.00398	<50.0	<50.0	<50.0	< 50.0	< 50.0	319
PH03	09/09/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	38.1
PH03A	09/09/2021	4	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	11.9
РН03В	09/09/2021	8	< 0.00199	0.00396	<49.8	<49.8	<49.8	<49.8	<49.8	40.6
PH04	09/09/2021	2	< 0.00200	< 0.00401	<49.8	<49.8	<49.8	<49.8	<49.8	107
PH04A	09/09/2021	4	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	803
PH04B	09/09/2021	8	<0.00000201	<0.00000201	<50.0	<50.0	<50.0	<50.0	< 50.0	491
PH05	09/09/2021	1	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	312
PH05B	09/09/2021	2	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	275
Eastern Excavation	Floor Samples									
FS01	01/13/2022	2.5	< 0.00199	< 0.00398	<49.9	<49.9	<49.9	<49.9	<49.9	703
FS01	01/26/2022	3	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	418

Table 1

# Soil Analytical Results EAST PECOS FEDERAL 22 #003H Incident Number nAPP2123361366 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Cl	losure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
FS02	01/13/2022	2.5	< 0.00200	< 0.00400	<49.9	<49.10	<49.11	<49.12	<49.13	911
FS02	01/26/2022	3	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	< 50.0	347
FS03	01/13/2022	2.5	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	< 50.0	899
FS03	01/26/2022	3	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	318
FS04	01/13/2022	2.5	< 0.00200	< 0.00399	<50.0	<50.0	<50.0	<50.0	<50.0	563
FS05	01/13/2022	2.5	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	577
FS06	01/13/2022	2.5	< 0.00198	< 0.00396	<49.9	<49.9	<49.9	<49.9	<49.9	1,070
FS06	01/21/2022	3	< 0.00200	< 0.00399	62.1	<50.0	<50.0	62.1	62.1	589
FS07	01/13/2022	2.5	< 0.00199	< 0.00398	<49.8	<49.8	<49.8	<49.8	<49.8	691
FS07	01/21/2022	3	< 0.00201	< 0.00402	<49.9	<49.9	<49.9	<49.9	<49.9	1,030
FS08	01/13/2022	2.5	< 0.00202	< 0.00403	<50.0	<50.0	<50.0	<50.0	<50.0	445
FS09	01/13/2022	2.5	< 0.00199	< 0.00414	<50.0	<50.0	<50.0	<50.0	< 50.0	782
FS09	01/26/2022	3	<0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	163
Eastern Excavation	Sidewall Samples									
SW01	01/26/2022	0-3	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	< 50.0	470
SW02	01/26/2022	0-3	< 0.00200	< 0.00400	<50.0	<50.0	<50.0	<50.0	<50.0	477

Table 1

# Soil Analytical Results EAST PECOS FEDERAL 22 #003H Incident Number nAPP2123361366 Eddy County, New Mexico

Sample ID	Sample Date	Sample Depth (ft bgs)	Benzene (mg/kg)	BTEX (mg/kg)	TPH-DRO (mg/kg)	TPH-GRO (mg/kg)	TPH-ORO (mg/kg)	Total GRO+DRO (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table 1 Clo	osure Criteria (NM	AC 19.15.29)	10	50	NE	NE	NE	NE	100	600
Western Excavation	Floor Samples									
FS11	01/18/2022	4.5	NA	NA	NA	NA	NA	NA	NA	949
FS13	01/18/2022	4.5	NA	NA	NA	NA	NA	NA	NA	1,370
FS15	01/18/2022	4.5	NA	NA	NA	NA	NA	NA	NA	1,070
Western Excavation	Sidewall Samples									
SW03	01/18/2022	0 - 4.5	NA	NA	NA	NA	NA	NA	NA	1,390
SW04	01/18/2022	0 - 4.5	NA	NA	NA	NA	NA	NA	NA	1,030
SW05	01/18/2022	0 - 4.5	NA	NA	NA	NA	NA	NA	NA	1,850
SW06	01/26/2022	0 - 4.5	< 0.00200	< 0.00399	<49.9	<49.9	<49.9	<49.9	<49.9	431
SW07	01/26/2022	0 - 4.5	< 0.00202	< 0.00403	<49.9	<49.9	<49.9	<49.9	<49.9	2,030
SW08	01/26/2022	0 - 4.5	< 0.00199	< 0.00398	<50.0	<50.0	<50.0	<50.0	<50.0	198
SW09	01/26/2022	0 - 4.5	< 0.00198	< 0.00397	<50.0	<50.0	<50.0	<50.0	<50.0	366

#### **Notes:**

ft - feet/foot

mg/kg - milligrams per kilograms

BTEX - benzene, toluene, ethylbenzene, and total xylenes

TPH - total petroleum hydrocarbons

DRO - diesel range organics

GRO - gasoline range organics

ORO - oil range organics

NMOCD - New Mexico Oil Conservation Division

NMAC - New Mexico Administrative Code

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

NE - Not Established

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

NA - Not Analyzed

Gray text indicates soil sample that was excavated



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## Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320126103562801

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 320126103562801 26S.29E.22.340

Eddy County, New Mexico

Latitude 32°01'22", Longitude 103°58'26" NAD27

Land-surface elevation 2,888 feet above NGVD29

The depth of the well is 80 feet below land surface. This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Rustler Formation (312RSLR) local aquifer.

#### **Output formats**

Table of dat	t <u>a</u>										
<u>Tab-separat</u>	ted data										
<u>Graph of da</u>	ata_										
Reselect pe	riod										
Date	Time	? Water- level date- time	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status

	accuracy		surface Vertical datum					status
1958-08-18	D	62610	2819.26	NGVD29	1	Z		Α
1958-08-18	D	62611	2820.78	NAVD88	1	Z		Α
1958-08-18	D	72019	68.74		1	Z		А

Evolanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication Processing and review completed.

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URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

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## Search Results -- 1 sites found

Agency code = usqs

site\_no list =

• 320112103574501

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 320112103574501 26S.29E.22.333242

Eddy County, New Mexico Latitude 32°01'12", Longitude 103°57'45" NAD27 Land-surface elevation 2,892.0 feet above NGVD29

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

# **Output formats**

Table of data			
Tab-separated data			
Graph of data			
Reselect period			
	Water		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status	
1993-01-05	21:45 UTC	m	62610		2834.62	NGVD29	1	S			A	4
1993-01-05	21:45 UTC	m	62611		2836.14	NAVD88	1	S			A	4
1993-01-05	21:45 UTC	m	72019	57.38			1	S			A	4

#### Explanation

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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## Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 320135103573301

#### Minimum number of levels = 1

Save file of selected sites to local disk for future upload

# USGS 320135103573301 26S.29E.23.31220

Eddy County, New Mexico

Latitude 32°01'35", Longitude 103°57'33" NAD27

Land-surface elevation 2,913 feet above NGVD29

The depth of the well is 170.00 feet below land surface.

This well is completed in the Other aguifers (N9999OTHER) national aguifer.

This well is completed in the Forty-Niner Member of Rustler Formation (310FRNR) local aquifer.

Output formats	
----------------	--

Table of data					
Tab-separate	d data				
Graph of data	1				
Reselect perio	<u>bc</u>				
	?	Water	Water		?

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1987-10-14		D	62610		2832.12	NGVD29	1	S			Α
1987-10-14		D	62611		2833.65	NAVD88	1	S			Α
1987-10-14		D	72019	80.88			1	S			Α

Explanation
-------------

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	Α	Approved for publication Processing and review completed.

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USA.gov

	WSP USA  508 West Stevens Street Carlsbad, New Mexico 88220							BH or PH Name: PH01  Site Name: East Pecos Federa RP or Incident Number: NAPP2 WSP Job Number: 31403360.0	2123361366	
						LING LO			Logged By: <b>AB</b>	Method: Backhoe
Lat/Lo	ong: <b>32.020</b>	855, -103	3.97848	39	Field Scre	ening: TPH,	Chlorides	3	Hole Diameter: N/A	Total Depth: 8'
Comp	nonto: All a	blovido t	00t0 de	not include	the 400/	correction fa				
	ist; D-dry; `			not include	tile 40% (	correction ia	ictor.			
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	bac)	USCS/Rock Symbol		Lithology	/Remarks
D	956	0	N N	PH01	1	1 2 3 4 5 6 7	SP	fine 4-8', CAl	grain, no staining, no odd LICHE, dry, tan-light brow solidated, fine-medium gr	n, poorly graded, very fine- or, well graded, moderately rain, abundant coarse-large e gravel, no staining, no odor.
D	420	0	N	PH01	8 _	8	TD	I otal de	oth at 8' bgs	

\\ <b>\</b> \\	WSP USA 508 West Stevens Street rlsbad, New Mexico 88220	BH or PH Name: PH02  Site Name: East Pecos Federal: RP or Incident Number: NAPP212 WSP Job Number: 31403360.003	23361366
LITHOLOGIC / SOI	I SAMPLING LOG	Logged By: <b>AB</b>	Method: Backhoe
Lat/Long: 32.020870, -103.978652	Field Screening: TPH, Chlorides	Hole Diameter: N/A	Total Depth: 8'
	,	The Blameton 1471	rota. Doptin o
Comments: All chloride tests do not include M-moist; D-dry; Y-yes; N-no			
Moisture Content Chloride (ppm) Vapor (ppm) Staining	Sample Depth (ft bgs) Depth (ft bgs)	Lithology/R	
D 792 0 N PH02  D 688 0 N PH02	2 2 2 3 4 4 4 5 5	LICHE, dry, tan-light brown, isolidated, fine-medium grai bround-subangular caliche g	in, abundant coarse-large gravel, no staining, no odor.
D 264 0 N PH02	7 SW	ND, dry, brown, well graded ining, no odor.	I, fine- medium grain, no

Lat/Lo	WSP USA  508 West Stevens Street Carlsbad, New Mexico 88220  LITHOLOGIC / SOIL SAMPLING LOG							BH or PH Name: PH03  Site Name: East Pecos Federa RP or Incident Number: NAPP2 WSP Job Number: 31403360.00 Logged By: AB Hole Diameter: N/A	123361366	
					- th - 400/		-1			
	nents: All d ist; D-dry; \			not include	) tne 40% (	correction fa				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	bac)	USCS		Lithology/	
D	<108	0	Z	PH03	1 -	1 2 3 4 5	CCHE	con sub	solidated, fine-medium gr. bround-subangular caliche	n, well graded, moderately ain, abundant coarse-large gravel, no staining, no odor.
D	<108	0	Z	PH03	8 -	8	SW		pth at 8' bgs	
					- - - -	- - - - -				

\	111	5	)	Ca		SP USA Stevens St ew Mexico	reet 88220		BH or PH Name: <b>PH04</b> Site Name: <b>East Pecos Fed</b> RP or Incident Number: <b>NAP</b>	eral 22 P21233	
									WSP Job Number: 3140336		
L = +/L =				GIC / SOI		ening: TPH,			Logged By: <b>AB</b> Hole Diameter: <b>N/A</b>		Method: Backhoe Total Depth: 8'
Lat/Lo	ong: <b>32.020</b>	18473, -10	J3.9788	1930	i leid Scie	ening. TFTI,	Ciliorides		Hole Diameter: N/A		otal Depth: 8
	nents: <b>All c</b> ist; D-dry; \			o not include	the 40% (	correction fa					
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	bgs)	USCS Sym		Litholo		
D	1,932	0	N	PH04	2 -	1 2		cor	solidated, fine-medium	grain,	vell graded, moderately, abundant coarse-large avel, no staining, no odor.
D	764	0	N	PH04	4 _	4 5 6					
D	496	0	Z	PH04	8 _	8	P	Total de	pth at 8' bgs		

	111			GIC / SOI	508 West rlsbad, No	SP USA Stevens Stew Mexico LING LOCening: TPH,	<b>3</b>		BH or PH Name: PH05  Site Name: East Pecos Feder: RP or Incident Number: NAPP2 WSP Job Number: 31403360.0 Logged By: AB	2123361366 003 Method: Backhoe
Lat/Lo	ong: <b>32.020</b>	7021, -10	13.9788	1995	rieiu Scie	ening. 1 <b>FH</b> ,	Ciliorides	•	Hole Diameter: N/A	Total Depth: 8'
	nents: <b>All c</b> ist; D-dry; \			o not include	the 40% o	correction fa				
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample #	Sample Depth (ft bgs)	bgs)	USCS			/Remarks
D	1,464	0	Z	PH05	1	0	CCHE	fine 1-2', CA con sub	solidated, fine-medium ground-subangular caliche	
							D	Total de	pth at 2' bgs.	



PHOTOGRAPHIC LOG							
WPX ENERGY	EAST PECOS FEDERAL 22 #003H	NAPP2123361366					
PERMIAN, LLC	Eddy County, NM						

Photo No.	Date				
1	August 23, 2021				
Site initial photo facing Northwest.					



Photo No.	Date				
2	August 23, 2021				
Site initial photo facing southwest.					





	PHOTOGRAPHIC LOG	
WPX ENERGY	EAST PECOS FEDERAL 22 #003H	NAPP2123361366
PERMIAN, LLC	Eddy County, NM	

Photo No. Date

September 13, 2021

Photo of delineation with backhoe facing northwest.



Photo No. Date
4 January 13, 2022

Initial start of eastern excavation facing south.





	PHOTOGRAPHIC LOG	
WPX ENERGY	EAST PECOS FEDERAL 22 #003H	NAPP2123361366
PERMIAN, LLC	Eddy County, NM	

Photo No. Date
5 January 13, 2022

Eastern excavation extent at 2.5' bgs facing north.



Photo No. Date
6 January 18, 2022

Completed eastern excavation facing south.





	PHOTOGRAPHIC LOG	
WPX ENERGY	EAST PECOS FEDERAL 22 #003H	NAPP2123361366
PERMIAN, LLC	Eddy County, NM	

Photo No. Date
7 January 18, 2022
Initial start of western excavation

facing south.



Photo No. Date

8 January 26, 2022

Completed western excavation facing north.





	PHOTOGRAPHIC LOG	
WPX ENERGY	EAST PECOS FEDERAL 22 #003H	NAPP2123361366
PERMIAN, LLC	Eddy County, NM	

Photo No. Date
9 January 26, 2022
Completed western excavation

facing northwest.





# **Environment Testing America**

## **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1249-1

Laboratory Sample Delivery Group: Eddy County NM

Client Project/Site: East Pecos Fed 22-3h

For:

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

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 9/14/2021 8:40:15 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

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

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

1

2

3

4

5

0

8

11

14

Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3h

Laboratory Job ID: 890-1249-1

SDG: Eddy County NM

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## **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1249-1 Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

**Qualifiers** 

**GC VOA** Qualifier **Qualifier Description** 

F1 MS and/or MSD recovery exceeds control limits.

F2 MS/MSD RPD exceeds control limits

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

**GC Semi VOA** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**HPLC/IC** 

Qualifier **Qualifier Description** 

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

DFR 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

Decision Level Concentration (Radiochemistry) DLC

**EDL** Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

EPA recommended "Maximum Contaminant Level" MCL MDA Minimum Detectable Activity (Radiochemistry) MDC Minimum Detectable Concentration (Radiochemistry)

Method Detection Limit MDL 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

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

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1

SDG: Eddy County NM

Job ID: 890-1249-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1249-1

#### Receipt

The samples were received on 9/13/2021 12:36 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

#### **GC VOA**

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

#### GC Semi VOA

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

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

Matrix: Solid

Lab Sample ID: 890-1249-1

## **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1249-1

Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

**Client Sample ID: PH01** 

Date Collected: 09/09/21 10:25 Date Received: 09/13/21 12:36

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 13:28	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	80		70 - 130				09/14/21 11:00	09/14/21 13:28	1
1,4-Difluorobenzene (Surr)	86		70 - 130				09/14/21 11:00	09/14/21 13:28	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		09/14/21 08:40	09/14/21 14:30	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		09/14/21 08:40	09/14/21 14:30	1
C10-C28)									
OII Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/14/21 08:40	09/14/21 14:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	121		70 - 130				09/14/21 08:40	09/14/21 14:30	1
o-Terphenyl	126		70 - 130				09/14/21 08:40	09/14/21 14:30	1

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	547		5.04		mg/Kg			09/14/21 16:45	1

**Client Sample ID: PH02** Lab Sample ID: 890-1249-2 **Matrix: Solid** Date Collected: 09/09/21 13:55

Date Received: 09/13/21 12:36

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 13:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		70 - 130				09/14/21 11:00	09/14/21 13:49	1
1,4-Difluorobenzene (Surr)	87		70 - 130				09/14/21 11:00	09/14/21 13:49	1

Method: 8015B NM - Diesel Rang	ge Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 15:03	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 15:03	1
C10-C28)									

Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1 SDG: Eddy County NM

Client Sample ID: PH02

Date Collected: 09/09/21 13:55

Date Received: 09/13/21 12:36

Sample Depth: 8

Lab Sample ID: 890-1249-2

Matrix: Solid

Dil Fac

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Result Qualifier RL MDL Analyte Unit D Prepared Analyzed <50.0 U 50.0 09/14/21 08:40 09/14/21 15:03 OII Range Organics (Over C28-C36) mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 120 70 - 130 09/14/21 08:40 09/14/21 15:03 122 70 - 130 09/14/21 08:40 09/14/21 15:03 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier MDL Unit Analyte RL D Prepared Analyzed Dil Fac 5.01 09/14/21 17:02 Chloride 319 mg/Kg

Lab Sample ID: 890-1249-3 **Client Sample ID: PH03** 

Date Collected: 09/09/21 16:10 Date Received: 09/13/21 12:36

Sample Depth: 8

**Matrix: Solid** 

Method: 8021B - Volatile Organic Compounds (GC) Analyte Result Qualifier MDL Dil Fac RL Unit D Prepared Analyzed Benzene <0.00198 0.00198 09/14/21 11:00 09/14/21 14:10 mg/Kg 09/14/21 14:10 Toluene <0.00198 U 0.00198 09/14/21 11:00 mg/Kg Ethylbenzene <0.00198 U 0.00198 mg/Kg 09/14/21 11:00 09/14/21 14:10 m-Xylene & p-Xylene <0.00396 U 0.00396 mg/Kg 09/14/21 11:00 09/14/21 14:10 o-Xylene <0.00198 U 0.00198 mg/Kg 09/14/21 11:00 09/14/21 14:10 Xylenes, Total <0.00396 U 0.00396 09/14/21 11:00 09/14/21 14:10 mg/Kg

%Recovery Qualifier Limits Dil Fac Surrogate Prepared Analyzed 70 - 130 09/14/21 11:00 4-Bromofluorobenzene (Surr) 102 09/14/21 14:10 1,4-Difluorobenzene (Surr) 104 70 - 130 09/14/21 11:00 09/14/21 14:10

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

Analyte Result Qualifier RL MDL Dil Fac Unit Prepared Analyzed <49.8 U 49.8 09/14/21 08:40 09/14/21 15:23 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.8 U 49.8 mg/Kg 09/14/21 08:40 09/14/21 15:23 C10-C28) <49.8 U 49.8 09/14/21 08:40 09/14/21 15:23 Oll Range Organics (Over C28-C36) mg/Kg

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 122 70 - 130 09/14/21 08:40 09/14/21 15:23 70 - 130 09/14/21 08:40 09/14/21 15:23 o-Terphenyl

Method: 300.0 - Anions, Ion Chromatography - Soluble Result Qualifier Analyte RL MDL Unit D Prepared Analyzed Dil Fac Chloride 40.6 4.95 mg/Kg 09/14/21 17:07

Matrix: Solid

Lab Sample ID: 890-1249-4

## **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1249-1

Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

**Client Sample ID: PH04** 

Date Collected: 09/09/21 11:20 Date Received: 09/13/21 12:36

Sample Depth: 8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00000201	U	0.0000020		mg/Kg		09/14/21 11:00	09/14/21 14:30	1
Toluene	<0.00000201	U	0.0000020		mg/Kg		09/14/21 11:00	09/14/21 14:30	1
Ethylbenzene	<0.00000201	U	0.0000020 1		mg/Kg		09/14/21 11:00	09/14/21 14:30	,
m-Xylene & p-Xylene	<0.00000402	U	0.0000040		mg/Kg		09/14/21 11:00	09/14/21 14:30	,
o-Xylene	<0.00000201	U	0.0000020 1		mg/Kg		09/14/21 11:00	09/14/21 14:30	•
Xylenes, Total	<0.00000402	U	0.0000040 2		mg/Kg		09/14/21 11:00	09/14/21 14:30	•
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	93		70 - 130				09/14/21 11:00	09/14/21 14:30	
1,4-Difluorobenzene (Surr)	102		70 - 130				09/14/21 11:00	09/14/21 14:30	
			70 - 130				00// // 2/ ////00	00,1 ,,21 11.00	
Method: 8015B NM - Diesel Ran		RO) (GC)	70 - 100				00,1,1,2,1,100	00,7 11,27 7 7.00	
Method: 8015B NM - Diesel Ran	ge Organics (D	RO) (GC) Qualifier	70 - 730 RL	MDL	Unit	D	Prepared	Analyzed	
Method: 8015B NM - Diesel Ran Analyte	ge Organics (D	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	ge Organics (D	Qualifier U	RL	MDL		<u>D</u>	Prepared	Analyzed	Dil Fa
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D Result <50.0	Qualifier U	RL 50.0	MDL	mg/Kg	<u>D</u>	Prepared 09/14/21 08:40	<b>Analyzed</b> 09/14/21 15:44	Dil Fa
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (D Result <50.0	Qualifier U U U	<b>RL</b> 50.0	MDL	mg/Kg	<u>D</u>	Prepared 09/14/21 08:40 09/14/21 08:40	Analyzed 09/14/21 15:44 09/14/21 15:44	Dil Fa
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (D)  Result  <50.0  <50.0	Qualifier U U U	FL 50.0 50.0 50.0	MDL	mg/Kg	<u> </u>	Prepared 09/14/21 08:40 09/14/21 08:40 09/14/21 08:40	Analyzed 09/14/21 15:44 09/14/21 15:44	Dil Fa
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	ge Organics (D)  Result  <50.0  <50.0  <50.0  %Recovery	Qualifier U U U	50.0 50.0 50.0 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	Prepared 09/14/21 08:40 09/14/21 08:40 09/14/21 08:40 Prepared	Analyzed 09/14/21 15:44 09/14/21 15:44 09/14/21 15:44 Analyzed	Dil Fa
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	ge Organics (D)  Result  <50.0  <50.0  <50.0   **Recovery  121  124	Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130	MDL	mg/Kg	<u>D</u>	Prepared 09/14/21 08:40 09/14/21 08:40 09/14/21 08:40  Prepared 09/14/21 08:40	Analyzed 09/14/21 15:44 09/14/21 15:44 09/14/21 15:44  Analyzed 09/14/21 15:44	Dil Fac
Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	ge Organics (D)  Result  <50.0  <50.0  <50.0   **Recovery  121  124  romatography -	Qualifier U U Qualifier	RL 50.0 50.0 50.0 Limits 70 - 130		mg/Kg	<u>D</u>	Prepared 09/14/21 08:40 09/14/21 08:40 09/14/21 08:40  Prepared 09/14/21 08:40	Analyzed 09/14/21 15:44 09/14/21 15:44 09/14/21 15:44  Analyzed 09/14/21 15:44	Dil Fac

## **Surrogate Summary**

Client: WSP USA Inc. Job ID: 890-1249-1 Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

	BFB1	DFBZ1
Client Sample ID	(70-130)	(70-130)
Matrix Spike	119	89
Matrix Spike Duplicate	177 S1+	80
PH01	80	86
PH02	91	87
PH03	102	104
PH04	93	102
Lab Control Sample	122	84
Lab Control Sample Dup	113	90
Method Blank	126	98
Method Blank	125	100
	Matrix Spike Matrix Spike Duplicate PH01 PH02 PH03 PH04 Lab Control Sample Lab Control Sample Dup Method Blank	Client Sample ID         (70-130)           Matrix Spike         119           Matrix Spike Duplicate         177 S1+           PH01         80           PH02         91           PH03         102           PH04         93           Lab Control Sample         122           Lab Control Sample Dup         113           Method Blank         126

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
880-6052-A-1-B MS	Matrix Spike	105	99	
880-6052-A-1-C MSD	Matrix Spike Duplicate	105	100	
890-1249-1	PH01	121	126	
890-1249-2	PH02	120	122	
890-1249-3	PH03	122	128	
890-1249-4	PH04	121	124	
LCS 880-7855/2-A	Lab Control Sample	103	99	
LCSD 880-7855/3-A	Lab Control Sample Dup	103	100	
MB 880-7855/1-A	Method Blank	110	119	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1

SDG: Eddy County NM

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

Lab Sample ID: MB 880-7801/5-A

**Matrix: Solid** 

**Analysis Batch: 7815** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7801

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 10:16	09/13/21 16:45	1
Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		09/13/21 10:16	09/13/21 16:45	1

MB MB

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	126		70 - 130
1,4-Difluorobenzene (Surr)	98		70 - 130

09/13/21 10:16 09/13/21 16:45 09/13/21 10:16 09/13/21 16:45

Analyzed

Prepared

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 7836

**Matrix: Solid** 

**Analysis Batch: 7815** 

Lab Sample ID: MB 880-7836/5-A

мв мв

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/13/21 16:00	09/14/21 03:41	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/13/21 16:00	09/14/21 03:41	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130	09/13/21 16:00	09/14/21 03:41	1
1,4-Difluorobenzene (Surr)	100		70 - 130	09/13/21 16:00	09/14/21 03:41	1

Lab Sample ID: LCS 880-7836/1-A

**Matrix: Solid** 

**Analysis Batch: 7815** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA Prep Batch: 7836

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.08762		mg/Kg		88	70 - 130	
Toluene	0.100	0.1026		mg/Kg		103	70 - 130	
Ethylbenzene	0.100	0.1087		mg/Kg		109	70 - 130	
m-Xylene & p-Xylene	0.200	0.1992		mg/Kg		100	70 - 130	
o-Xylene	0.100	0.09707		mg/Kg		97	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	122	70 _ 130
1.4-Difluorobenzene (Surr)	84	70 - 130

Lab Sample ID: LCSD 880-7836/2-A

Matrix: Solid

**Analysis Batch: 7815** 

Prep Type: Total/NA

Prep Batch: 7836 RPD RPD Limit

Spike LCSD LCSD %Rec. Result Qualifier Analyte Added Unit %Rec Limits Benzene 0.100 0.08024 mg/Kg 80 70 - 130 9

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Dil Fac

Job ID: 890-1249-1 Project/Site: East Pecos Fed 22-3h

SDG: Eddy County NM

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

Lab Sample ID: LCSD 880-7836/2-A

**Matrix: Solid Analysis Batch: 7815**  Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA Prep Batch: 7836

Spike LCSD LCSD %Rec. **RPD** Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit D Toluene 0.100 0.09943 99 70 - 130 35 mg/Kg 3 Ethylbenzene 0.100 0.1019 mg/Kg 102 70 - 130 6 35 0.200 m-Xylene & p-Xylene 0.1990 mg/Kg 100 70 130 35 n o-Xylene 0.100 0.09178 mg/Kg 92 70 - 130 35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	113		70 - 130
1,4-Difluorobenzene (Surr)	90		70 - 130

Lab Sample ID: 880-6047-A-1-A MS

**Matrix: Solid** 

**Analysis Batch: 7815** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7836

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Benzene U F1 0.0990 0.02858 F1 29 <0.00200 mg/Kg 70 - 130 Toluene <0.00200 U F1 F2 0.0990 0.04647 F1 47 70 - 130 mg/Kg U F1 F2 0.0990 0.04278 F1 70 - 130 Ethylbenzene < 0.00200 mg/Kg 43 <0.00400 U F1 F2 0.198 0.08167 F1 41 70 - 130 m-Xylene & p-Xylene mg/Kg o-Xylene <0.00200 UF1F2 0.0990 0.04048 F1 mg/Kg 41 70 - 130

MS MS

<0.00200 UF1F2

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	119	70 - 130
1,4-Difluorobenzene (Surr)	89	70 - 130

Lab Sample ID: 880-6047-A-1-B MSD

**Matrix: Solid** 

o-Xylene

**Analysis Batch: 7815** 

Client Sample ID: Matrix Spike Duplicate

%Rec.

70 - 130

Prep Type: Total/NA Prep Batch: 7836

RPD

35

Spike Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Benzene <0.00200 U F1 0.0998 0.04031 F1 mg/Kg 40 70 - 130 34 35 Toluene <0.00200 U F1 F2 0.0998 0.09007 F2 mg/Kg 90 70 - 130 64 35 Ethylbenzene <0.00200 U F1 F2 0.0998 0.09953 F2 mg/Kg 100 70 - 130 80 35 0.200 <0.00400 UF1F2 0.2007 F2 101 70 - 130 35 m-Xylene & p-Xylene mg/Kg 84

0.0998

MSD MSD

0.08753 F2

mg/Kg

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	177	S1+	70 - 130
1,4-Difluorobenzene (Surr)	80		70 - 130

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

Lab Sample ID: MB 880-7855/1-A

**Matrix: Solid** 

**Analysis Batch: 7858** 

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

Prep Batch: 7855

MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed <50.0 U 50.0 09/14/21 08:40 09/14/21 10:34 Gasoline Range Organics mg/Kg

(GRO)-C6-C10

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Page 10 of 22

Job ID: 890-1249-1

SDG: Eddy County NM

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

Lab Sample ID: MB 880-7855/1-A

Project/Site: East Pecos Fed 22-3h

**Matrix: Solid** 

**Analysis Batch: 7858** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7855

	MB	INIR
analyte	Result	Qualif

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 10:34	1
<50.0	U	50.0		mg/Kg		09/14/21 08:40	09/14/21 10:34	1
	<50.0	<50.0 U	<50.0 U 50.0	<50.0 U 50.0	<50.0 U 50.0 mg/Kg	<50.0 U 50.0 mg/Kg	<50.0 U 50.0 mg/Kg 09/14/21 08:40	<50.0 U 50.0 mg/Kg 09/14/21 08:40 09/14/21 10:34

MB MB

Surrogate	%Recovery Qu	ualifier Limi	ts	Prepared	Analyzed	Dil Fac
1-Chlorooctane	110	70 -	130	09/14/21 08:40	09/14/21 10:34	1
o-Terphenyl	119	70 -	130	09/14/21 08:40	09/14/21 10:34	1

**Client Sample ID: Lab Control Sample** 

**Matrix: Solid** 

**Analysis Batch: 7858** 

Lab Sample ID: LCS 880-7855/2-A

Prep Type: Total/NA

Prep Batch: 7855

	<b>Бріке</b>	LCS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	876.5		mg/Kg		88	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	856.9		mg/Kg		86	70 - 130	
C10-C28)								

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	99		70 - 130

Lab Sample ID: LCSD 880-7855/3-A

**Matrix: Solid** 

**Analysis Batch: 7858** 

Prep Type: Total/NA

Prep Batch: 7855

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	810.7		mg/Kg		81	70 - 130	8	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	760.2		mg/Kg		76	70 - 130	12	20
040,000)									

C10-C28)

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	103		70 - 130
o-Terphenyl	100		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 7855

**Analysis Batch: 7858** 

Diesel Range Organics (Over

Matrix: Solid

Lab Sample ID: 880-6052-A-1-B MS

	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	<49.8	U	997	927.2		mg/Kg		88	70 - 130
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	997	878.8		mg/Kg		84	70 _ 130

C10-C28)

	MS	MS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	99		70 - 130

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Client: WSP USA Inc. Project/Site: East Pecos Fed 22-3h Job ID: 890-1249-1

SDG: Eddy County NM

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

Lab Sample ID: 880-6052-A-1-C MSD

**Analysis Batch: 7858** 

**Matrix: Solid** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 7855

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.8	U	999	914.4		mg/Kg		87	70 - 130	1	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.8	U	999	886.8		mg/Kg		84	70 - 130	1	20
C10 C20)											

C10-C28)

MSD MSD

мв мв

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	105		70 - 130
o-Terphenyl	100		70 - 130

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

Lab Sample ID: MB 880-7862/1-A

**Matrix: Solid** 

**Analysis Batch: 7887** 

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

**Prep Type: Soluble** 

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Dil Fac

Analyte Result Qualifier RLMDL Unit Prepared Analyzed Chloride <5.00 U 5.00 mg/Kg 09/14/21 15:54

Lab Sample ID: LCS 880-7862/2-A **Client Sample ID: Lab Control Sample Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 7887** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	 250	255.7		mg/Kg		102	90 - 110	

Lab Sample ID: LCSD 880-7862/3-A

**Matrix: Solid** 

**Analysis Batch: 7887** 

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	250	255.9		mg/Kg		102	90 - 110	0	20

Lab Sample ID: 880-6052-A-1-F MS

**Matrix: Solid** 

**Analysis Batch: 7887** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	176		250	418.8		mg/Kg		97	90 - 110	

Lab Sample ID: 880-6052-A-1-G MSD

**Matrix: Solid** 

Analysis Batch: 7887

Alialysis batch. 1001											
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	176		250	419.0		mg/Kg		97	90 - 110	0	20

## **QC Association Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1

SDG: Eddy County NM

#### **GC VOA**

#### Prep Batch: 7801

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-7801/5-A	Method Blank	Total/NA	Solid	5035	

#### **Analysis Batch: 7815**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Total/NA	Solid	8021B	7836
890-1249-2	PH02	Total/NA	Solid	8021B	7836
890-1249-3	PH03	Total/NA	Solid	8021B	7836
890-1249-4	PH04	Total/NA	Solid	8021B	7836
MB 880-7801/5-A	Method Blank	Total/NA	Solid	8021B	7801
MB 880-7836/5-A	Method Blank	Total/NA	Solid	8021B	7836
LCS 880-7836/1-A	Lab Control Sample	Total/NA	Solid	8021B	7836
LCSD 880-7836/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7836
880-6047-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	7836
880-6047-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7836

#### Prep Batch: 7836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Total/NA	Solid	5035	
890-1249-2	PH02	Total/NA	Solid	5035	
890-1249-3	PH03	Total/NA	Solid	5035	
890-1249-4	PH04	Total/NA	Solid	5035	
MB 880-7836/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7836/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7836/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6047-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-6047-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### **GC Semi VOA**

#### Prep Batch: 7855

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Total/NA	Solid	8015NM Prep	
890-1249-2	PH02	Total/NA	Solid	8015NM Prep	
890-1249-3	PH03	Total/NA	Solid	8015NM Prep	
890-1249-4	PH04	Total/NA	Solid	8015NM Prep	
MB 880-7855/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7855/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7855/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-6052-A-1-B MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-6052-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 7858**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Total/NA	Solid	8015B NM	7855
890-1249-2	PH02	Total/NA	Solid	8015B NM	7855
890-1249-3	PH03	Total/NA	Solid	8015B NM	7855
890-1249-4	PH04	Total/NA	Solid	8015B NM	7855
MB 880-7855/1-A	Method Blank	Total/NA	Solid	8015B NM	7855
LCS 880-7855/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7855
LCSD 880-7855/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7855
880-6052-A-1-B MS	Matrix Spike	Total/NA	Solid	8015B NM	7855

Eurofins Xenco, Carlsbad

9/14/2021

## **QC Association Summary**

Client: WSP USA Inc. Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1

SDG: Eddy County NM

## GC Semi VOA (Continued)

## **Analysis Batch: 7858 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
880-6052-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	7855

#### HPLC/IC

#### Leach Batch: 7862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Soluble	Solid	DI Leach	
890-1249-2	PH02	Soluble	Solid	DI Leach	
890-1249-3	PH03	Soluble	Solid	DI Leach	
890-1249-4	PH04	Soluble	Solid	DI Leach	
MB 880-7862/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7862/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7862/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6052-A-1-F MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6052-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### **Analysis Batch: 7887**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1249-1	PH01	Soluble	Solid	300.0	7862
890-1249-2	PH02	Soluble	Solid	300.0	7862
890-1249-3	PH03	Soluble	Solid	300.0	7862
890-1249-4	PH04	Soluble	Solid	300.0	7862
MB 880-7862/1-A	Method Blank	Soluble	Solid	300.0	7862
LCS 880-7862/2-A	Lab Control Sample	Soluble	Solid	300.0	7862
LCSD 880-7862/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7862
880-6052-A-1-F MS	Matrix Spike	Soluble	Solid	300.0	7862
880-6052-A-1-G MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7862

Project/Site: East Pecos Fed 22-3h

**Client Sample ID: PH01** 

Date Collected: 09/09/21 10:25

Date Received: 09/13/21 12:36

Job ID: 890-1249-1 SDG: Eddy County NM

Lab Sample ID: 890-1249-1

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7836	09/14/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 13:28	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7855	09/14/21 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 14:30	AJ	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7862	09/14/21 09:34	CH	XEN MID
Soluble	Analysis	300.0		1			7887	09/14/21 16:45	CH	XEN MID

**Client Sample ID: PH02** 

Date Collected: 09/09/21 13:55 Date Received: 09/13/21 12:36

Lab Sample ID: 890-1249-2 Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.02 g 5 mL 7836 09/14/21 11:00 KL XEN MID Total/NA 8021B XEN MID 5 mL 5 mL 7815 09/14/21 13:49 KL Analysis 1 Total/NA Prep 8015NM Prep 10.01 g 10 mL 09/14/21 08:40 XEN MID 7855 DM Total/NA 8015B NM XEN MID Analysis 7858 09/14/21 15:03 AJ Soluble Leach DI Leach 4.99 g 50 mL 7862 09/14/21 09:34 СН XEN MID Soluble Analysis 300.0 1 7887 09/14/21 17:02 CH XEN MID

**Client Sample ID: PH03** Lab Sample ID: 890-1249-3

Date Collected: 09/09/21 16:10 **Matrix: Solid** Date Received: 09/13/21 12:36

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	7836	09/14/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 14:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7855	09/14/21 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 15:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7862	09/14/21 09:34	CH	XEN MID
Soluble	Analysis	300.0		1			7887	09/14/21 17:07	CH	XEN MID

**Client Sample ID: PH04** Lab Sample ID: 890-1249-4

Date Collected: 09/09/21 11:20 Matrix: Solid Date Received: 09/13/21 12:36

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.98 g	5 mg	7836	09/14/21 11:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7815	09/14/21 14:30	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7855	09/14/21 08:40	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7858	09/14/21 15:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	7862	09/14/21 09:34	CH	XEN MID
Soluble	Analysis	300.0		1			7887	09/14/21 17:13	CH	XEN MID

**Laboratory References:** 

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

## **Accreditation/Certification Summary**

Client: WSP USA Inc. Job ID: 890-1249-1 Project/Site: East Pecos Fed 22-3h SDG: Eddy County NM

## Laboratory: Eurofins Xenco, Midland

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Texas	NELAP	T104704400-21-22	06-30-22

## **Method Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3h

Job ID: 890-1249-1

SDG: Eddy County NM

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

#### **Protocol References:**

ASTM = ASTM International

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

#### Laboratory References:

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

Eurofins Xenco, Carlsbad

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## **Sample Summary**

Collected

09/09/21 10:25

09/09/21 13:55

09/09/21 16:10

09/09/21 11:20

09/13/21 12:36 8

09/13/21 12:36

Matrix

Solid

Solid

Solid

Solid

Client: WSP USA Inc.

Lab Sample ID

890-1249-1

890-1249-2

890-1249-3

890-1249-4

Project/Site: East Pecos Fed 22-3h

PH01

PH02

PH03

PH04

Client Sample ID

Job ID: 890-1249-1

SDG: Eddy County NM

Received	Depth	
09/13/21 12:36	8	
09/13/21 12:36	8	

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	0	Unn Buert	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 subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 Circle Method(s) a				PHPY	PHØ3	PHØ2	PHO	Sample Identification	Sample Custody Seals:	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT			Project Location	Project Number:	Project Name:					Project Manager:		LAB	K
		7	ignature)	ument and relinquishment only for the cost of samp of \$75.00 will be applied to	otal 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed				•			S	fication Matrix	Yes No	Yes No	Yes	(°C): 4-8/4.6	Temp Blank:	C	· Bise	Eddy County	53360.	East Pecos	281-702-2329	Midland, T	3300 NA Street		Joseph Hern		ORATORI	ロ フ こ こ
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			(Signature)	lid purchase order from clie ny responsibility for any los of \$5 for each sample subm	8RCRA 13PPM Texas 1 TCLP / SPLP 6010: 8RCRA				1200 8	16/10	355 8	1025 8	Time Depth	tainers:	Factor: -0, 2	LOO-WAA	Thermometer ID	Wet Ice: Yes No		Due Date:	Rush: Sec Comment	Routine	Turn Around	Email: anna. byers @	City, State ZIP:	A	Company Name:	Bill to: (if different)	Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334  Aidinad TX (432) 704-5440 FL Pasc TX (915) 585-3443 Hibbook TX (806) 794-1296 Crasibad, NM (432) 704-5440	
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**Eurofins Xenco, Carlsbad** 

1089 N Canal St	,	•	,	- I															٨.	eurofins	
Carlsbad NM 88220 Phone. 575-988-3199 Fax: 575-988-3199	ر	nain o	Chain of Custody Record	oay Ke	CO	3															Environment Testing America
Client Information (Sub Contract Lab)	Sampler			Lab PM Kramer Jessica	er Jes	ssica					ĺ	_	Carrier Tracking No(s)	Track	ing N	Š	1	- 1		COC No 890-404 1	
Client Contact: Shipping/Receiving	Phone			E-Mail Jessica kramer@eurofinset com	a kran	ner@	euro	finset	com			<b>7</b> 0	State of Origin. New Mexico	Origi Nexic	8 =					Page Page 1 of 1	
Company Eurofins Xenco				<b>7</b> A	Accreditations Required (See note): NELAP - Texas	ations	Requi	red (S	ee not	e)										Job #: 890-1249-1	
Address 1211 W Florida Ave	Due Date Requested 9/14/2021	٩					l		Anal		/sis R	Requested	est	ا تة				l	<u>_</u>	Cod	
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Project Name East Pecos Fed 22-3h	Project # 88000203				AME . A. 150	EACH	S_Pre	EX											A. Barre	L EDA Z	other (specify)
Site	SSOW#				phosecopy, agents	BD/DI_L	015NM	Calc B1										41 J. 1944	auto ottiliniste	Other:	
		Sample	Sample Type	Matrix (W=water S=solid, Filtered	orm MS/N	ORGFM_2	MOD_NM/8	B/6036FP_										-C 7307 : 1	l Number		
Sample Identification - Client ID (Lab ID)	Sample Date	1	3	ᆫ	CONTRACTOR .	300	801	802		1		L	<u> </u>		<b> </b>				Tota	Special Instr	Special Instructions/Note
		10.25	Preservation Code:	in Code:	X			Lean		-	4	ļ.,	-	- Kitan	1	-	L		×		
PH01 (890-1249-1)	9/9/21	Mountain		Solid		×	×	×	<u> </u>	<u> </u>	<u> </u>	<u> </u>	ļ	ļ	ļ	ļ	ļ		**		
PH02 (890-1249-2)	9/9/21	Mountain		Solid		×	×	×											940		
PH03 (890-1249-3)	9/9/21	16 10 Mountain		Solid		×	×	×											7 <del>4</del>		
PH04 (890-1249-4)	9/9/21	11 20 Mountain		Solid		×	×	×											20)		
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Note Since laboratory accreditations are subject to change Eurofins Xenco LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories, 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 instruattention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC.	aces the ownership or analyzed the sa signed Chain of Cus	of method analy mples must be a tody attesting to	te & accreditati shipped back to said complicar	on compliance the Eurofins X nce to Eurofins	upon a enco L Xenco	out sub LC lab	orator	ct labo y or ot	oratorie her ins	es. Th	ns wi	nple s I be p	hipme rovide	ntis f	orwar y cha	ded u	nder l	chain- redita	of-cu	ıstody if the laboratory status should be brough	This sample shipment is forwarded under chain-of-custody If the laboratory does not currently ctions will be provided. Any changes to accreditation status should be brought to Eurofins Xenco LLC.
Possible Hazard Identification Unconfirmed					Sar	Sample Disposal ( A fee	<b>le Disposal (A f</b> Return To Client	osal To C	lient A		may be assessed if samples	e as Di	assessed if san Disposal By Lah	B 2	san	ple	□ ag	□ e l	in in in	are retained longer than 1 m	month)
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Custody Seals Intact Custody Seal No						Coole	Cooler Temperature(s) °C	peratu	re(s) °		and Other Remarks.	Rem	arks.								

Ver 06/08/2021

## **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1249-1

SDG Number: Eddy County NM

Login Number: 1249 List Source: Eurofins Xenco, Carlsbad

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 ampered 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	
s the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is 6mm (1/4").	N/A	

## **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1249-1 SDG Number: Eddy County NM

List Source: Eurofins Xenco, Midland

List Creation: 09/14/21 12:20 PM

List Number: 2 Creator: Phillips, Kerianna

Login Number: 1249

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

Released to Imaging: 3/16/2022 1:23:43 PM



# **Environment Testing America**

## **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1250-1

Laboratory Sample Delivery Group: 31403360.003

Client Project/Site: East Pecos Fed 22-3H

For:

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

Attn: Joseph Hernandez

J. KRAMER

Authorized for release by: 9/20/2021 5:05:41 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS

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Released to Imaging: 3/16/2022 1:23:43 PM

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: East Pecos Fed 22-3H

Laboratory Job ID: 890-1250-1

SDG: 31403360.003

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## **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H

SDG: 31403360.003

#### **Qualifiers**

**GC VOA** 

Qualifier **Qualifier Description** MS and/or MSD recovery exceeds control limits.

U Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

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

Not Calculated NC

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

NEG Negative / Absent Positive / Present POS

**PQL Practical Quantitation Limit** 

**PRES** Presumptive QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1

SDG: 31403360.003

Job ID: 890-1250-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative 890-1250-1

#### Receipt

The samples were received on 9/13/2021 12:47 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 4.6°C

#### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-7758 and analytical batch 880-7857 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: PH05 (890-1250-9) and PH05 (890-1250-10). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

Matrix: Solid

Lab Sample ID: 890-1250-1

## **Client Sample Results**

Client: WSP USA Inc.

Job ID: 890-1250-1

Project/Site: Fact Pages Fed 23 3H

SDC: 31403360 003

Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Client Sample ID: PH01

Date Collected: 09/09/21 09:35 Date Received: 09/13/21 12:47

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/14/21 11:00	09/14/21 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130				09/14/21 11:00	09/14/21 18:50	1
1,4-Difluorobenzene (Surr)	88		70 - 130				09/14/21 11:00	09/14/21 18:50	1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 01:14	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 01:14	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 01:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	122		70 - 130				09/14/21 16:18	09/15/21 01:14	1
o-Terphenyl	130		70 - 130				09/14/21 16:18	09/15/21 01:14	1

Method: 300.0 - Anions, Ion Chroma	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	996	4.95	mg/Kg	)		09/17/21 00:27	1

Client Sample ID: PH01

Date Collected: 09/09/21 10:00

Lab Sample ID: 890-1250-2

Matrix: Solid

Date Received: 09/13/21 12:47

Sample Depth: 4

Gasoline Range Organics

Diesel Range Organics (Over

(GRO)-C6-C10

C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/21 11:00	09/14/21 19:10	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	118		70 - 130				09/14/21 11:00	09/14/21 19:10	1
1,4-Difluorobenzene (Surr)	81		70 - 130				09/14/21 11:00	09/14/21 19:10	1
Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac

49.9

49.9

mg/Kg

mg/Kg

Eurofins Xenco, Carlsbad

09/15/21 01:36

09/15/21 01:36

<49.9 U

<49.9 U

3

5

4.0

11

13

14

09/14/21 16:18

09/14/21 16:18

Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1 SDG: 31403360.003

**Client Sample ID: PH01** 

Date Collected: 09/09/21 10:00 Date Received: 09/13/21 12:47

Sample Depth: 4

Lab Sample ID: 890-1250-2

Lab Sample ID: 890-1250-3

**Matrix: Solid** 

**Matrix: Solid** 

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued) Analyzed Analyte Result Qualifier RL MDL D Dil Fac Unit Prepared <49.9 U 09/14/21 16:18 09/15/21 01:36 Oll Range Organics (Over C28-C36) 49.9 mg/Kg %Recovery Qualifier Limits Prepared Analyzed Dil Fac Surrogate 1-Chlorooctane 102 70 - 130 09/14/21 16:18 09/15/21 01:36 o-Terphenyl 111 70 - 130 09/14/21 16:18 09/15/21 01:36 Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte Result Qualifier RLMDL Unit D Dil Fac Prepared Analyzed mg/Kg Chloride 351 4.95 09/17/21 00:32

Date Collected: 09/09/21 11:30

Client Sample ID: PH02

Date Received: 09/13/21 12:47

Sample Depth: 2

Surrogate

o-Terphenyl

1-Chlorooctane

Method: 8021B - Volatile Organic Analyte	-	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/21 11:00	09/14/21 19:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	116		70 - 130				09/14/21 11:00	09/14/21 19:31	1
1,4-Difluorobenzene (Surr)	81		70 - 130				09/14/21 11:00	09/14/21 19:31	1
1,4-Dilidolobelizelle (Sdil)	01		70 - 730				09/14/21 11.00	03/14/21 13.31	,
		RO) (GC)	70 - 130				09/14/21 11.00	09/14/21 19.31	,
: Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC) Qualifier	70 - 730 RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang Analyte	ge Organics (D	Qualifier		MDL	Unit mg/Kg	<u>D</u>			
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	ge Organics (D	Qualifier	RL	MDL		<u>D</u>	Prepared	Analyzed	
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (D	Qualifier U	RL	MDL		<u> </u>	Prepared	Analyzed	

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	291		5.04		mg/Kg			09/18/21 05:47	1

Limits

70 - 130

70 - 130

%Recovery

130

138 S1+

Qualifier

Eurofins Xenco, Carlsbad

Analyzed

09/15/21 01:57

09/15/21 01:57

Dil Fac

Prepared

09/14/21 16:18

09/14/21 16:18

Matrix: Solid

Lab Sample ID: 890-1250-4

## **Client Sample Results**

Client: WSP USA Inc. Job ID: 890-1250-1

Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

**Client Sample ID: PH02** 

Date Collected: 09/09/21 13:35 Date Received: 09/13/21 12:47

Sample Depth: 4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 19:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				09/14/21 11:00	09/14/21 19:51	1
1,4-Difluorobenzene (Surr)	79		70 - 130				09/14/21 11:00	09/14/21 19:51	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 02:19	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 02:19	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	110		70 - 130				09/14/21 16:18	09/15/21 02:19	1
o-Terphenvl	120		70 - 130				09/14/21 16:18	09/15/21 02:19	1

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	56.2		4.98		mg/Kg			09/18/21 06:04	1

**Client Sample ID: PH03** Lab Sample ID: 890-1250-5 Date Collected: 09/09/21 15:40 **Matrix: Solid** 

Date Received: 09/13/21 12:47

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 11:00	09/14/21 20:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	112		70 - 130				09/14/21 11:00	09/14/21 20:11	1
1,4-Difluorobenzene (Surr)	78		70 - 130				09/14/21 11:00	09/14/21 20:11	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.9	11	49.9		mg/Kg		09/14/21 16:18	09/15/21 02:41	1

Eurofins Xenco, Carlsbad

09/15/21 02:41

09/14/21 16:18

49.9

mg/Kg

<49.9 U

Diesel Range Organics (Over

(GRO)-C6-C10

C10-C28)

Result Qualifier

Client: WSP USA Inc. Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

**Client Sample ID: PH03** Lab Sample ID: 890-1250-5

Date Collected: 09/09/21 15:40 Matrix: Solid Date Received: 09/13/21 12:47

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 02:41	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	120		70 - 130				09/14/21 16:18	09/15/21 02:41	1
o-Terphenyl	130		70 - 130				09/14/21 16:18	09/15/21 02:41	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	38.1		5.04		mg/Kg			09/17/21 00:49	1

**Client Sample ID: PH03** Lab Sample ID: 890-1250-6

RL

MDL Unit

D

Prepared

Analyzed

Date Collected: 09/09/21 15:55 Matrix: Solid

Date Received: 09/13/21 12:47

Method: 8021B - Volatile Organic Compounds (GC)

Sample Depth: 4

Analyte

Chloride	11.9		5.02		mg/Kg			09/17/21 00:55	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
o-Terphenyl	126		70 - 130				09/14/21 16:18	09/15/21 03:03	1
1-Chlorooctane	113		70 - 130				09/14/21 16:18	09/15/21 03:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 03:03	1
C10-C28)	140.0	J	40.0		mg/rtg		03/14/21 10:10	03/10/21 00:00	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9	П	49.9		mg/Kg		09/14/21 16:18	09/15/21 03:03	1
Gasoline Range Organics	<49.9	U	49.9		mg/Kg		09/14/21 16:18	09/15/21 03:03	1
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
1,4-Difluorobenzene (Surr)	85		70 - 130				09/14/21 12:00	09/15/21 01:59	1
4-Bromofluorobenzene (Surr)	107		70 - 130				09/14/21 12:00	09/15/21 01:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 01:59	1
Benzene	<0.00200		0.00200		mg/Kg		09/14/21 12:00	09/15/21 01:59	

Eurofins Xenco, Carlsbad

Dil Fac

Project/Site: East Pecos Fed 22-3H

SDG: 31403360.003

Job ID: 890-1250-1

**Client Sample ID: PH04** 

Date Collected: 09/10/21 10:55 Date Received: 09/13/21 12:47

Sample Depth: 2

Lab Sample ID: 890-1250-7

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		09/14/21 12:00	09/15/21 02:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	114		70 - 130				09/14/21 12:00	09/15/21 02:19	1
1,4-Difluorobenzene (Surr)	81		70 - 130				09/14/21 12:00	09/15/21 02:19	1

Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<49.8	U	49.8		mg/Kg		09/14/21 16:18	09/15/21 03:24	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<49.8	U	49.8		mg/Kg		09/14/21 16:18	09/15/21 03:24	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		09/14/21 16:18	09/15/21 03:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	102		70 - 130				09/14/21 16:18	09/15/21 03:24	1
o-Terphenyl	112		70 - 130				09/14/21 16:18	09/15/21 03:24	1

Method: 300.0 - Anions, Ion Chroma	atography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	107	4.98	mg/Kg			09/17/21 01:00	1

**Client Sample ID: PH04** Lab Sample ID: 890-1250-8 Date Collected: 09/10/21 11:00 **Matrix: Solid** 

Date Received: 09/13/21 12:47

Sample Depth: 4

C10-C28)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 12:00	09/15/21 02:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		70 - 130				09/14/21 12:00	09/15/21 02:40	1
1,4-Difluorobenzene (Surr)	79		70 - 130				09/14/21 12:00	09/15/21 02:40	1
- Method: 8015B NM - Diesel Ra	ange Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 03:46	1
Diesel Range Organics (Over	<50.0		50.0		mg/Kg		09/14/21 16:18	09/15/21 03:46	1

Job ID: 890-1250-1

SDG: 31403360.003

**Client Sample ID: PH04** 

Date Collected: 09/10/21 11:00 Date Received: 09/13/21 12:47

Project/Site: East Pecos Fed 22-3H

Sample Depth: 4

Lab Sample ID: 890-1250-8

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		09/14/21 16:18	09/15/21 03:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	108		70 - 130				09/14/21 16:18	09/15/21 03:46	1
o-Terphenyl	110		70 - 130				09/14/21 16:18	09/15/21 03:46	1
- Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	803		4.95		mg/Kg			09/17/21 01:06	

Client Sample ID: PH05 Lab Sample ID: 890-1250-9 Matrix: Solid

Date Collected: 09/10/21 12:40 Date Received: 09/13/21 12:47

Sample Depth: 1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
Toluene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		09/14/21 12:00	09/15/21 04:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130				09/14/21 12:00	09/15/21 04:03	1
1,4-Difluorobenzene (Surr)	81		70 - 130				09/14/21 12:00	09/15/21 04:03	1
Method: 8015B NM - Diesel Rang	•		DI.	MDI	11-4	_	Dogwood	Austral	D# 5
Analyte	Result	Qualifier	RL	MDL	Unit	<u>D</u>	Prepared	Analyzed	
Analyte Gasoline Range Organics	•	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 09/14/21 16:18	Analyzed 09/15/21 04:29	
Analyte Gasoline Range Organics (GRO)-C6-C10	<b>Result</b> <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	09/14/21 16:18	09/15/21 04:29	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>			
Analyte Gasoline Range Organics (GRO)-C6-C10	<b>Result</b> <49.9	Qualifier U	49.9	MDL	mg/Kg	<u> </u>	09/14/21 16:18	09/15/21 04:29	
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9   <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	09/14/21 16:18 09/14/21 16:18	09/15/21 04:29 09/15/21 04:29	1
Analyte  Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <49.9   <49.9   <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	09/14/21 16:18 09/14/21 16:18 09/14/21 16:18	09/15/21 04:29 09/15/21 04:29 09/15/21 04:29	1
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <49.9   <49.9   <49.9   <49.9   %Recovery	Qualifier U U U Qualifier	49.9 49.9 49.9 <b>Limits</b>	MDL	mg/Kg	<u>D</u>	09/14/21 16:18 09/14/21 16:18 09/14/21 16:18 Prepared	09/15/21 04:29 09/15/21 04:29 09/15/21 04:29 Analyzed	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.9   <49.9   <49.9     <49.9     <49.9     <49.10     <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10   <49.10	Qualifier  U  U  Qualifier  S1+ S1+	49.9 49.9 49.9 <b>Limits</b> 70 - 130	MDL	mg/Kg	<u>D</u>	09/14/21 16:18 09/14/21 16:18 09/14/21 16:18 <b>Prepared</b> 09/14/21 16:18	09/15/21 04:29 09/15/21 04:29 09/15/21 04:29 Analyzed 09/15/21 04:29	1 1 1 1 Dil Fac
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier  U  U  Qualifier  S1+ S1+	49.9 49.9 49.9 <b>Limits</b> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	09/14/21 16:18 09/14/21 16:18 09/14/21 16:18 <b>Prepared</b> 09/14/21 16:18	09/15/21 04:29 09/15/21 04:29 09/15/21 04:29 Analyzed 09/15/21 04:29	Dil Fac  Dil Fac  Dil Fac  Dil Fac

Matrix: Solid

# **Client Sample Results**

Job ID: 890-1250-1 Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Lab Sample ID: 890-1250-10 **Client Sample ID: PH05** Date Collected: 09/10/21 12:50

Sample Depth: 2

Chloride

Date Received: 09/13/21 12:47

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 04:24	
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 04:24	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 04:24	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		09/14/21 12:00	09/15/21 04:24	
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/15/21 04:24	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		09/14/21 12:00	09/15/21 04:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Surroyate									
			70 - 130				09/14/21 12:00	09/15/21 04:24	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	80	RO) (GC)	70 - 130 70 - 130				09/14/21 12:00 09/14/21 12:00	09/15/21 04:24 09/15/21 04:24	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran	ge Organics (DI	, , ,	70 - 130				09/14/21 12:00	09/15/21 04:24	
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte	ge Organics (DI	Qualifier		MDL	Unit mg/Kg	<u>D</u>			Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)	ge Organics (DI	Qualifier	70 - 130 RL	MDL		<u>D</u>	09/14/21 12:00 Prepared	09/15/21 04:24  Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr)  Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics	ge Organics (DI	Qualifier U	70 - 130 RL	MDL		<u> </u>	09/14/21 12:00 Prepared	09/15/21 04:24  Analyzed	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	ge Organics (DI Result <49.9	Qualifier U	70 - 130  RL 49.9	MDL	mg/Kg	<u> </u>	09/14/21 12:00  Prepared  09/14/21 16:18	09/15/21 04:24  Analyzed  09/15/21 04:50	Dil Fa
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	ge Organics (DI Result <49.9	Qualifier  U  U	70 - 130  RL 49.9	MDL	mg/Kg	<u>D</u>	09/14/21 12:00  Prepared 09/14/21 16:18 09/14/21 16:18	Analyzed 09/15/21 04:50 09/15/21 04:50	Dil Fac
4-Bromofluorobenzene (Surr) 1,4-Difluorobenzene (Surr) Method: 8015B NM - Diesel Ran Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	ge Organics (DI Result <49.9 <49.9	Qualifier  U  U	70 - 130  RL 49.9  49.9  49.9	MDL	mg/Kg	<u>D</u>	09/14/21 12:00  Prepared 09/14/21 16:18 09/14/21 16:18	Analyzed 09/15/21 04:24  09/15/21 04:50 09/15/21 04:50 09/15/21 04:50	

5.04

275

mg/Kg

09/17/21 01:17

# **Surrogate Summary**

 Client: WSP USA Inc.
 Job ID: 890-1250-1

 Project/Site: East Pecos Fed 22-3H
 SDG: 31403360.003

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)	
880-5958-A-41-D MS	Matrix Spike	116	83	
880-5958-A-41-E MSD	Matrix Spike Duplicate	116	85	
880-6057-A-1-A MS	Matrix Spike	119	87	
880-6057-A-1-B MSD	Matrix Spike Duplicate	113	87	
890-1250-1	PH01	100	88	
890-1250-2	PH01	118	81	
890-1250-3	PH02	116	81	
890-1250-4	PH02	112	79	
890-1250-5	PH03	112	78	
890-1250-6	PH03	107	85	
890-1250-7	PH04	114	81	
890-1250-8	PH04	107	79	
890-1250-9	PH05	122	81	
890-1250-10	PH05	116	80	
LCS 880-7758/1-A	Lab Control Sample	113	73	
LCS 880-7874/1-A	Lab Control Sample	109	88	
LCSD 880-7758/2-A	Lab Control Sample Dup	110	84	
LCSD 880-7874/2-A	Lab Control Sample Dup	107	89	
MB 880-7758/5-A	Method Blank	113	77	
MB 880-7874/5-A	Method Blank	108	77	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1250-1	PH01	122	130	
890-1250-2	PH01	102	111	
890-1250-3	PH02	130	138 S1+	
890-1250-4	PH02	110	120	
890-1250-5	PH03	120	130	
890-1250-6	PH03	113	126	
890-1250-7	PH04	102	112	
890-1250-8	PH04	108	110	
890-1250-9	PH05	136 S1+	151 S1+	
890-1250-10	PH05	121	134 S1+	
LCS 880-7890/2-A	Lab Control Sample	104	103	
LCSD 880-7890/3-A	Lab Control Sample Dup	103	100	
MB 880-7890/1-A	Method Blank	112	124	

Surrogate Legend

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

### **QC Sample Results**

Client: WSP USA Inc. Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H

SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-7758/5-A

**Matrix: Solid** 

**Analysis Batch: 7857** 

Client Sample ID: Method Blank

Prep Type: Total/NA
Pron Batch: 7758

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 09:00	09/14/21 12:20	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/21 09:00	09/14/21 12:20	1

MB MB

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	113		70 - 130	09/14/21 09:00	09/14/21 12:20	1
1.4-Difluorobenzene (Surr)	77		70 - 130	09/14/21 09:00	09/14/21 12:20	1

Lab Sample ID: LCS 880-7758/1-A **Client Sample ID: Lab Control Sample** Matrix: Solid

**Analysis Batch: 7857** 

Prep Type: Total/NA Prep Batch: 7758

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09498		mg/Kg		95	70 - 130	
Toluene	0.100	0.09272		mg/Kg		93	70 - 130	
Ethylbenzene	0.100	0.09436		mg/Kg		94	70 - 130	
m-Xylene & p-Xylene	0.200	0.1926		mg/Kg		96	70 - 130	
o-Xylene	0.100	0.09544		mg/Kg		95	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	113	70 - 130
1,4-Difluorobenzene (Surr)	73	70 - 130

Lab Sample ID: LCSD 880-7758/2-A

Matrix: Solid

**Analysis Batch: 7857** 

Prep Type: Total/NA

Prep Batch: 7758

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Benzene	0.100	0.1030		mg/Kg		103	70 - 130	8	35	
Toluene	0.100	0.09796		mg/Kg		98	70 - 130	6	35	
Ethylbenzene	0.100	0.09754		mg/Kg		98	70 - 130	3	35	
m-Xylene & p-Xylene	0.200	0.2080		mg/Kg		104	70 - 130	8	35	
o-Xylene	0.100	0.1037		mg/Kg		104	70 - 130	8	35	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	110		70 - 130
1.4-Difluorobenzene (Surr)	84		70 - 130

Lab Sample ID: 880-5958-A-41-D MS

Matrix: Solid

**Analysis Batch: 7857** 

Client Sample ID: Matrix Spil	(e
Prep Type: Total/N	Α

Prep Batch: 7758

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0998	0.08777		mg/Kg		88	70 - 130	
Toluene	<0.00199	U	0.0998	0.08007		mg/Kg		80	70 - 130	

### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1250-1

SDG: 31403360.003 Project/Site: East Pecos Fed 22-3H

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

Lab Sample ID: 880-5958-A-41-D MS Client Sample ID: Matrix Spike **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 7857** Prep Batch: 7758 MS MS Sample Sample Snike

Campic	Campic	Opine	1110	1010				/01100.
Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
<0.00199	U F1	0.0998	0.07502		mg/Kg		75	70 - 130
<0.00398	U F1	0.200	0.1559		mg/Kg		78	70 - 130
<0.00199	U F1	0.0998	0.08068		mg/Kg		81	70 - 130
	Result <0.00199 <0.00398	Result   Qualifier	Result         Qualifier         Added           <0.00199	Result         Qualifier         Added         Result           <0.00199	Result         Qualifier         Added         Result         Qualifier           <0.00199	Result         Qualifier         Added         Result         Qualifier         Unit           <0.00199	Result          Qualifier         Added          Result Qualifier         Unit Unit Unit Unit Major         D           <0.00199	Result Qualifier         Added Added         Result Qualifier         Unit Unit Unit Unit Unit Unit Unit Unit

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 70 - 130 116 1,4-Difluorobenzene (Surr) 70 - 130 83

Lab Sample ID: 880-5958-A-41-E MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 7857** Prep Batch: 7758

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.100	0.07857		mg/Kg		78	70 - 130	11	35
Toluene	<0.00199	U	0.100	0.07046		mg/Kg		70	70 - 130	13	35
Ethylbenzene	<0.00199	U F1	0.100	0.06374	F1	mg/Kg		64	70 - 130	16	35
m-Xylene & p-Xylene	<0.00398	U F1	0.200	0.1306	F1	mg/Kg		65	70 - 130	18	35
o-Xylene	<0.00199	U F1	0.100	0.06920	F1	mg/Kg		69	70 - 130	15	35

MSD MSD Surrogate %Recovery Qualifier Limits 70 - 130 4-Bromofluorobenzene (Surr) 116 1,4-Difluorobenzene (Surr) 70 - 130 85

Lab Sample ID: MB 880-7874/5-A Client Sample ID: Method Blank **Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 7857** MD MD

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Toluene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		09/14/21 12:00	09/14/21 23:14	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		09/14/21 12:00	09/14/21 23:14	1

	МВ	МВ				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	108		70 - 130	09/14/21 12:00	09/14/21 23:14	1
1.4-Difluorobenzene (Surr)	77		70 - 130	09/14/21 12:00	09/14/21 23:14	1

Lab Sample ID: LCS 880-7874/1-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA

**Analysis Batch: 7857** Prep Batch: 7874

	Spike	LCS	LCS				%Rec.		
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Benzene	0.100	0.09076		mg/Kg		91	70 - 130		
Toluene	0.100	0.08237		mg/Kg		82	70 - 130		
Ethylbenzene	0.100	0.08102		mg/Kg		81	70 - 130		
m-Xylene & p-Xylene	0.200	0.1707		mg/Kg		85	70 - 130		
	Benzene Toluene Ethylbenzene	Analyte         Added           Benzene         0.100           Toluene         0.100           Ethylbenzene         0.100	Analyte         Added         Result           Benzene         0.100         0.09076           Toluene         0.100         0.08237           Ethylbenzene         0.100         0.08102	Analyte         Added         Result Qualifier           Benzene         0.100         0.09076           Toluene         0.100         0.08237           Ethylbenzene         0.100         0.08102	Analyte         Added         Result Qualifier         Unit           Benzene         0.100         0.09076         mg/Kg           Toluene         0.100         0.08237         mg/Kg           Ethylbenzene         0.100         0.08102         mg/Kg	Analyte         Added         Result         Qualifier         Unit         D           Benzene         0.100         0.09076         mg/Kg           Toluene         0.100         0.08237         mg/Kg           Ethylbenzene         0.100         0.08102         mg/Kg	Analyte         Added         Result Qualifier         Unit         D         %Rec           Benzene         0.100         0.09076         mg/Kg         91           Toluene         0.100         0.08237         mg/Kg         82           Ethylbenzene         0.100         0.08102         mg/Kg         81	Analyte         Added         Result Qualifier         Unit         D         %Rec Limits           Benzene         0.100         0.09076         mg/Kg         91         70 - 130           Toluene         0.100         0.08237         mg/Kg         82         70 - 130           Ethylbenzene         0.100         0.08102         mg/Kg         81         70 - 130	Analyte         Added         Result Qualifier         Unit         D         %Rec Limits           Benzene         0.100         0.09076         mg/Kg         91         70 - 130           Toluene         0.100         0.08237         mg/Kg         82         70 - 130           Ethylbenzene         0.100         0.08102         mg/Kg         81         70 - 130

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Prep Batch: 7874

9/20/2021

### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

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

Lab Sample ID: LCS 880-7874/1-A

**Matrix: Solid** 

**Analysis Batch: 7857** 

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 7874

LCS LCS Spike %Rec. Analyte Added Result Qualifier Unit %Rec Limits o-Xylene 0.100 0.08631 86 70 - 130 mg/Kg

LCS LCS

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 109 70 - 130 70 - 130 1,4-Difluorobenzene (Surr) 88

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Lab Sample ID: LCSD 880-7874/2-A **Matrix: Solid** 

**Analysis Batch: 7857** 

Prep Batch: 7874

Spike LCSD LCSD RPD %Rec. Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Benzene 0.100 0.1012 mg/Kg 101 70 - 130 11 35 Toluene 0.100 0.09352 mg/Kg 94 70 - 130 13 35 0.100 Ethylbenzene 0.09545 mg/Kg 95 70 - 130 16 35 0.200 m-Xylene & p-Xylene 0.1928 mg/Kg 96 70 - 130 12 35 o-Xylene 0.100 0.09783 mg/Kg 98 70 - 130 13

LCSD LCSD

Comple Comple

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	107		70 - 130
1,4-Difluorobenzene (Surr)	89		70 - 130

Lab Sample ID: 880-6057-A-1-A MS Client Sample ID: Matrix Spike

Child

**Matrix: Solid** 

**Analysis Batch: 7857** 

Prep Type: Total/NA Prep Batch: 7874

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	Sample	Sample	<b>Бріке</b>	IVIS	M2				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.0998	0.08191		mg/Kg		82	70 - 130	
Toluene	<0.00200	U	0.0998	0.07653		mg/Kg		77	70 - 130	
Ethylbenzene	<0.00200	U	0.0998	0.07815		mg/Kg		78	70 - 130	
m-Xylene & p-Xylene	<0.00400	U	0.200	0.1600		mg/Kg		80	70 - 130	
o-Xylene	<0.00200	U	0.0998	0.08061		mg/Kg		81	70 - 130	

MS MS

Surrogate	%Recovery	Qualifier	Limits		
4-Bromofluorobenzene (Surr)	119		70 - 130		
1.4-Difluorobenzene (Surr)	87		70 <sub>-</sub> 130		

Lab Sample ID: 880-6057-A-1-B MSD

**Matrix: Solid** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA **Analysis Batch: 7857** Prep Batch: 7874

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00200	U	0.0996	0.07848	-	mg/Kg		79	70 - 130	4	35
Toluene	<0.00200	U	0.0996	0.07395		mg/Kg		74	70 - 130	3	35
Ethylbenzene	<0.00200	U	0.0996	0.07503		mg/Kg		75	70 - 130	4	35
m-Xylene & p-Xylene	<0.00400	U	0.199	0.1542		mg/Kg		77	70 - 130	4	35
o-Xylene	<0.00200	U	0.0996	0.07891		mg/Kg		79	70 - 130	2	35

Client: WSP USA Inc.

Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

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

Lab Sample ID: 880-6057-A-1-B MSD **Matrix: Solid** 

**Analysis Batch: 7857** 

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 7874

MSD MSD

Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 113 70 - 130 1,4-Difluorobenzene (Surr) 87 70 - 130

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

Lab Sample ID: MB 880-7890/1-A

**Analysis Batch: 7865** 

**Matrix: Solid** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 7890

мв мв

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac Gasoline Range Organics <50.0 U 50.0 09/14/21 16:18 09/14/21 22:41 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 09/14/21 16:18 09/14/21 22:41 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 mg/Kg 09/14/21 16:18 09/14/21 22:41

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	112		70 - 130	09/14/21 16:18	09/14/21 22:41	1
o-Terphenyl	124		70 - 130	09/14/21 16:18	09/14/21 22:41	1

Lab Sample ID: LCS 880-7890/2-A

**Matrix: Solid** 

**Analysis Batch: 7865** 

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

Prep Batch: 7890

Spike LCS LCS %Rec. Result Qualifier Analyte Added Unit D %Rec Limits Gasoline Range Organics 1000 782.9 mg/Kg 78 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over 1000 956.2 mg/Kg 96 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	104	70 - 130
o-Ternhenyl	103	70 130

Lab Sample ID: LCSD 880-7890/3-A

**Matrix: Solid** 

**Analysis Batch: 7865** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 7890

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits Limit Gasoline Range Organics 1000 830.6 83 70 - 130 6 20 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 953.2 95 70 - 130 20 mg/Kg C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	103	70 - 130
o-Terphenyl	100	70 - 130

Client: WSP USA Inc. Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H

SDG: 31403360.003

**Prep Type: Soluble** 

**Client Sample ID: PH05** 

Client Sample ID: PH05

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-7867/1-A

**Matrix: Solid** 

**Analysis Batch: 7982** 

MB MB

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 09/16/21 23:42

Lab Sample ID: LCS 880-7867/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 7982** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 251.8 mg/Kg 101 90 - 110

Lab Sample ID: LCSD 880-7867/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 7982** 

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit D %Rec Limits RPD Limit Chloride 252.7 250 mg/Kg 101 90 - 110

Lab Sample ID: 890-1250-10 MS

**Matrix: Solid** 

**Analysis Batch: 7982** 

MS MS Sample Sample Spike %Rec. Added %Rec Analyte Result Qualifier Result Qualifier Unit D Limits Chloride 275 252 532.1 102 90 - 110 mg/Kg

Lab Sample ID: 890-1250-10 MSD

**Matrix: Solid** 

**Analysis Batch: 7982** 

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 275 252 532.4 mg/Kg 102 90 - 110

Lab Sample ID: MB 880-7885/1-A

**Matrix: Solid** 

**Analysis Batch: 7986** 

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Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 5.00 mg/Kg 09/18/21 03:50

Lab Sample ID: LCS 880-7885/2-A

**Matrix: Solid** 

**Analysis Batch: 7986** 

LCS LCS %Rec. Spike Added Result Qualifier Limits Analyte Unit %Rec Chloride 250 245.5 mg/Kg 98 90 - 110

Lab Sample ID: LCSD 880-7885/3-A

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**Matrix: Solid** 

**Analysis Batch: 7986** Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit Chloride 250 246.6 mg/Kg 99 90 - 110 20

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

**Prep Type: Soluble** 

# **QC Sample Results**

Client: WSP USA Inc. Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: 880-6058-A-64-C MS

**Matrix: Solid** 

Analysis Batch: 7986

Alidiysis Balcii. 7900										
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	123		250	374.6		mg/Kg		101	90 - 110	

Lab Sample ID: 880-6058-A-64-D MSD

**Matrix: Solid** 

**Analysis Batch: 7986** 

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	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	123		250	375.7		mg/Kg		101	90 - 110	0	20

# **QC Association Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1 SDG: 31403360.003

### **GC VOA**

### Prep Batch: 7758

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Total/NA	Solid	5035	
890-1250-2	PH01	Total/NA	Solid	5035	
890-1250-3	PH02	Total/NA	Solid	5035	
890-1250-4	PH02	Total/NA	Solid	5035	
890-1250-5	PH03	Total/NA	Solid	5035	
MB 880-7758/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7758/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7758/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-5958-A-41-D MS	Matrix Spike	Total/NA	Solid	5035	
880-5958-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

### Analysis Batch: 7857

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Total/NA	Solid	8021B	7758
890-1250-2	PH01	Total/NA	Solid	8021B	7758
890-1250-3	PH02	Total/NA	Solid	8021B	7758
890-1250-4	PH02	Total/NA	Solid	8021B	7758
890-1250-5	PH03	Total/NA	Solid	8021B	7758
890-1250-6	PH03	Total/NA	Solid	8021B	7874
890-1250-7	PH04	Total/NA	Solid	8021B	7874
890-1250-8	PH04	Total/NA	Solid	8021B	7874
890-1250-9	PH05	Total/NA	Solid	8021B	7874
890-1250-10	PH05	Total/NA	Solid	8021B	7874
MB 880-7758/5-A	Method Blank	Total/NA	Solid	8021B	7758
MB 880-7874/5-A	Method Blank	Total/NA	Solid	8021B	7874
LCS 880-7758/1-A	Lab Control Sample	Total/NA	Solid	8021B	7758
LCS 880-7874/1-A	Lab Control Sample	Total/NA	Solid	8021B	7874
LCSD 880-7758/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7758
LCSD 880-7874/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	7874
880-5958-A-41-D MS	Matrix Spike	Total/NA	Solid	8021B	7758
880-5958-A-41-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7758
880-6057-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	7874
880-6057-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	7874

### Prep Batch: 7874

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-6	PH03	Total/NA	Solid	5035	
890-1250-7	PH04	Total/NA	Solid	5035	
890-1250-8	PH04	Total/NA	Solid	5035	
890-1250-9	PH05	Total/NA	Solid	5035	
890-1250-10	PH05	Total/NA	Solid	5035	
MB 880-7874/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-7874/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-7874/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-6057-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-6057-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

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# **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1250-1

 Project/Site: East Pecos Fed 22-3H
 SDG: 31403360.003

GC Semi VOA

### **Analysis Batch: 7865**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Total/NA	Solid	8015B NM	7890
890-1250-2	PH01	Total/NA	Solid	8015B NM	7890
890-1250-3	PH02	Total/NA	Solid	8015B NM	7890
890-1250-4	PH02	Total/NA	Solid	8015B NM	7890
890-1250-5	PH03	Total/NA	Solid	8015B NM	7890
890-1250-6	PH03	Total/NA	Solid	8015B NM	7890
890-1250-7	PH04	Total/NA	Solid	8015B NM	7890
890-1250-8	PH04	Total/NA	Solid	8015B NM	7890
890-1250-9	PH05	Total/NA	Solid	8015B NM	7890
890-1250-10	PH05	Total/NA	Solid	8015B NM	7890
MB 880-7890/1-A	Method Blank	Total/NA	Solid	8015B NM	7890
LCS 880-7890/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	7890
LCSD 880-7890/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	7890

### Prep Batch: 7890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Total/NA	Solid	8015NM Prep	
890-1250-2	PH01	Total/NA	Solid	8015NM Prep	
890-1250-3	PH02	Total/NA	Solid	8015NM Prep	
890-1250-4	PH02	Total/NA	Solid	8015NM Prep	
890-1250-5	PH03	Total/NA	Solid	8015NM Prep	
890-1250-6	PH03	Total/NA	Solid	8015NM Prep	
890-1250-7	PH04	Total/NA	Solid	8015NM Prep	
890-1250-8	PH04	Total/NA	Solid	8015NM Prep	
890-1250-9	PH05	Total/NA	Solid	8015NM Prep	
890-1250-10	PH05	Total/NA	Solid	8015NM Prep	
MB 880-7890/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-7890/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-7890/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

### **HPLC/IC**

### Leach Batch: 7867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Soluble	Solid	DI Leach	_
890-1250-2	PH01	Soluble	Solid	DI Leach	
890-1250-5	PH03	Soluble	Solid	DI Leach	
890-1250-6	PH03	Soluble	Solid	DI Leach	
890-1250-7	PH04	Soluble	Solid	DI Leach	
890-1250-8	PH04	Soluble	Solid	DI Leach	
890-1250-9	PH05	Soluble	Solid	DI Leach	
890-1250-10	PH05	Soluble	Solid	DI Leach	
MB 880-7867/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7867/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7867/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1250-10 MS	PH05	Soluble	Solid	DI Leach	
890-1250-10 MSD	PH05	Soluble	Solid	DI Leach	

### Leach Batch: 7885

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-3	PH02	Soluble	Solid	DI Leach	

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# **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1250-1

 Project/Site: East Pecos Fed 22-3H
 SDG: 31403360.003

**HPLC/IC** (Continued)

### Leach Batch: 7885 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-4	PH02	Soluble	Solid	DI Leach	
MB 880-7885/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-7885/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-7885/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-6058-A-64-C MS	Matrix Spike	Soluble	Solid	DI Leach	
880-6058-A-64-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### Analysis Batch: 7982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-1	PH01	Soluble	Solid	300.0	7867
890-1250-2	PH01	Soluble	Solid	300.0	7867
890-1250-5	PH03	Soluble	Solid	300.0	7867
890-1250-6	PH03	Soluble	Solid	300.0	7867
890-1250-7	PH04	Soluble	Solid	300.0	7867
890-1250-8	PH04	Soluble	Solid	300.0	7867
890-1250-9	PH05	Soluble	Solid	300.0	7867
890-1250-10	PH05	Soluble	Solid	300.0	7867
MB 880-7867/1-A	Method Blank	Soluble	Solid	300.0	7867
LCS 880-7867/2-A	Lab Control Sample	Soluble	Solid	300.0	7867
LCSD 880-7867/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7867
890-1250-10 MS	PH05	Soluble	Solid	300.0	7867
890-1250-10 MSD	PH05	Soluble	Solid	300.0	7867

### **Analysis Batch: 7986**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1250-3	PH02	Soluble	Solid	300.0	7885
890-1250-4	PH02	Soluble	Solid	300.0	7885
MB 880-7885/1-A	Method Blank	Soluble	Solid	300.0	7885
LCS 880-7885/2-A	Lab Control Sample	Soluble	Solid	300.0	7885
LCSD 880-7885/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	7885
880-6058-A-64-C MS	Matrix Spike	Soluble	Solid	300.0	7885
880-6058-A-64-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	7885

Eurofins Xenco, Carlsbad

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Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1 SDG: 31403360.003

**Client Sample ID: PH01** 

Date Collected: 09/09/21 09:35 Date Received: 09/13/21 12:47

Lab Sample ID: 890-1250-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 18:50	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 01:14	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 00:27	CH	XEN MID

**Client Sample ID: PH01** 

Date Collected: 09/09/21 10:00 Date Received: 09/13/21 12:47 Lab Sample ID: 890-1250-2

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 19:10	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 01:36	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 00:32	CH	XEN MID

**Client Sample ID: PH02** 

Date Collected: 09/09/21 11:30

Date Received: 09/13/21 12:47

Lab Sample ID: 890-1250-3

**Matrix: Solid** 

Batch		Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 19:31	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.04 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 01:57	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 05:47	CH	XEN MID

**Client Sample ID: PH02** 

Date Collected: 09/09/21 13:35

Date Received: 09/13/21 12:47

Lab	Sample	ID:	890-1250-4	
			Matrix: Solid	

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 19:51	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 02:19	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7885	09/14/21 11:34	CH	XEN MID
Soluble	Analysis	300.0		1			7986	09/18/21 06:04	CH	XEN MID

Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1 SDG: 31403360.003

**Client Sample ID: PH03** 

Date Received: 09/13/21 12:47

Lab Sample ID: 890-1250-5 Date Collected: 09/09/21 15:40

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7758	09/14/21 11:00	MR	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/14/21 20:11	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 02:41	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 00:49	CH	XEN MID

**Client Sample ID: PH03** 

Date Collected: 09/09/21 15:55 Date Received: 09/13/21 12:47

Lab Sample ID: 890-1250-6

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Prep 5035 5.01 g 5 mL 7874 09/14/21 12:00 KL XEN MID Total/NA 8021B XEN MID Analysis 5 mL 5 mL 7857 09/15/21 01:59  $\mathsf{KL}$ 1 Total/NA Prep 8015NM Prep 10.02 g 10 mL XEN MID 7890 09/14/21 16:18 DM Total/NA 8015B NM XEN MID Analysis 7865 09/15/21 03:03 AMSoluble 7867 XEN MID Leach DI Leach 4.98 g 50 mL 09/14/21 09:37 СН Soluble Analysis 300.0 1 7982 09/17/21 00:55 CH XEN MID

Client Sample ID: PH04 Lab Sample ID: 890-1250-7

Date Collected: 09/10/21 10:55 Date Received: 09/13/21 12:47

Matrix: Solid

Batch	Batch		Dil	Initial	Final	Batch	Prepared			
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.99 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 02:19	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.05 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 03:24	AM	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 01:00	CH	XEN MID

**Client Sample ID: PH04** 

Date Collected: 09/10/21 11:00

Date Received: 09/13/21 12:47

Lab	Sample	ID:	890-1250-8
			Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 02:40	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 03:46	AM	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 01:06	CH	XEN MID

### **Lab Chronicle**

Client: WSP USA Inc. Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

**Client Sample ID: PH05** Lab Sample ID: 890-1250-9

Date Collected: 09/10/21 12:40 Matrix: Solid Date Received: 09/13/21 12:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 04:03	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 04:29	AM	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	7867	09/14/21 09:37	CH	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 01:12	CH	XEN MID

**Client Sample ID: PH05** 

Date Collected: 09/10/21 12:50 **Matrix: Solid** Date Received: 09/13/21 12:47

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	7874	09/14/21 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	7857	09/15/21 04:24	KL	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	7890	09/14/21 16:18	DM	XEN MID
Total/NA	Analysis	8015B NM		1			7865	09/15/21 04:50	AM	XEN MID
Soluble	Leach	DI Leach			4.96 g	50 mL	7867	09/14/21 09:37	СН	XEN MID
Soluble	Analysis	300.0		1			7982	09/17/21 01:17	CH	XEN MID

### Laboratory References:

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

Lab Sample ID: 890-1250-10

# **Accreditation/Certification Summary**

Client: WSP USA Inc. Job ID: 890-1250-1 Project/Site: East Pecos Fed 22-3H SDG: 31403360.003

**Laboratory: Eurofins Xenco, Midland** 

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	<b>Expiration Date</b>
Texas	NELAP	T104704400-21-22	06-30-22

# **Method Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Fed 22-3H

Job ID: 890-1250-1

SDG: 31403360.003

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

### **Protocol References:**

ASTM = ASTM International

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

### Laboratory References:

XEN MID = 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: East Pecos Fed 22-3H

Job ID: 890-1250-1

SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1250-1	PH01	Solid	09/09/21 09:35	09/13/21 12:47	1
890-1250-2	PH01	Solid	09/09/21 10:00	09/13/21 12:47	4
890-1250-3	PH02	Solid	09/09/21 11:30	09/13/21 12:47	2
890-1250-4	PH02	Solid	09/09/21 13:35	09/13/21 12:47	4
890-1250-5	PH03	Solid	09/09/21 15:40	09/13/21 12:47	1
890-1250-6	PH03	Solid	09/09/21 15:55	09/13/21 12:47	4
890-1250-7	PH04	Solid	09/10/21 10:55	09/13/21 12:47	2
890-1250-8	PH04	Solid	09/10/21 11:00	09/13/21 12:47	4
890-1250-9	PH05	Solid	09/10/21 12:40	09/13/21 12:47	1
890-1250-10	PH05	Solid	09/10/21 12:50	09/13/21 12:47	2

# Chain of Custody

13

Project Manager: Company Name: City, State ZIP: Address: ABORATORIES Midland, WSP USA 00 3388 N Jeseph Hernander Z 2279 Street SAEDE Phoenix,AZ (480) 355-0900 Atlanta,GA (770) 449-8800 Tampa,FL (813) 620-2000 West Palm Beach, FL (561) 689-6701 Midland,TX (432) 704-5440 EL Paso,TX (915) 585-3443 Lubbock,TX (806) 794-1296 Crasibad, NM (432) 704-5440 Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 SULVE Company Name: Bill to: (If different City, State ZIP: byers@ wsp. com MPX WPXALLIM Cartsbad, NM 88220 Vista Do Railey Deliverables: EDD [ Reporting:Level II | Level III | PST/UST | TRRP | Level IV | Program: UST/PST ☐ PRP ☐ Brownfields ☐RRC ☐ Superfund ☐ State of Project: Work Order No: www.xenco.com **Work Order Comments** ADaPT 🗌 Other:

(	1	Reli	Notice of ser			Pt	Pt	Z,	<b>~</b>	Pŧ	Ç	9	0	P	9	0 <del>E</del>	S				SAMPLE		S	T	_		
	mre byer	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 subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xence. A minimum charge of \$75.00 will be applied to each project and a charge of \$15 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method(s) and Metal(s) to be analyzed	Total 200.7 / 6010 200.8 / 6020:	Pries	PHOS	Patra	PHRH	PHØ3	PHD 3	PHØ2	PHO2	PHE	PHO	Sample Identification	Sample Custody Seals: Yes No	Cooler Custody Seals: Yes No		°C): 4.8/	RECEIPT	1	Amner	Eddu		Project Name: Fast Pecas Fed	
	Clar	>	hment of sampl of samples and aplied to each p	to be analyz	020:	4	9	2	.0	9/	,	0	2	- a	S	Matrix	162		No	4.6	Temp Blank:		Byes )	Bounty.	$\sim$		
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		Received by: (Signature	a valid purchas ime any respons harge of \$5 for s	TCLP / SPI	8RCRA 13PPM	125¢	1240	MAGIN	1055	1585	1540	1335	1130	DADAI	Ø935	Time Sampled	Total Containers:	Correction Factor:	ECO-MM	hermometer ID	Wet Ice:		Due Date:	Rush:	Routine		
		ure)	se order from c sibility for any l each sample su	TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co	13PPM T	2'	-	r,	2'	7,	て、	r,	2'	۲	-,	Depth		-0.7	H	ō	No No		)ate:		Z g	Turn Around	
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	9.13.21	Date/Time	company to Xenco, its affiliate es or expenses incurred by the tted to Xenco, but not analyzed	) As Ba	Al Sb As						 					TPI							٠.				
	236	ie i	s affiliates an ed by the clie analyzed. The	Be Cd C	Ва Ве											Br											
6 4	2	Relinquished by: (Signature)	and subcontractors. It assigns stan client if such losses are due to circum These terms will be enforced unless	Cr Co Cu Pb Mn Mo Ni Se Ag	Ca Cr														890-1250 C				-			ANALYSIS REQUEST	
		gnature)	It assigns standard terms and conditions te due to circumstances beyond the contro forced unless previously negotiated.	i Se Ag Tl U	Pb Mg Mn Mo Ni K													-	250 Chain of Custody							REQUEST	
		Received by: (Signature)	itions		Se Ag SiO2 Na													TAT st	Zn Ac	NaOH: Na	HCL: HL	H2S04: H2	HNO	None: NO	MeOH: Me		
		Date/Time		631 / 245.1 / /4/U / /4/1 : Hg	_								P			Sample Comments	received by 4:00pin	TAT starts the day recevied by the lab, if	Zn Acetate+ NaOH: Zn	.: Na	F	)4: HZ	HNC3: HN	NO	H: Me	Preservative Codes	

Date 022619 Rev. 2019 1

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

**Eurofins Xenco, Carlsbad** 1089 N Canal St.

Chain of Custody Record

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Environment Testing America

Midland State Zip TX 79701 PH04 (890-1250-8) PH04 (890-1250-7) PH03 (890-1250-5) PH02 (890-1250-3) PH01 (890-1250-2) PH01 (890-1250-1) PH05 (890-1250-9) PH02 (890-1250-4) Sample Identification - Client ID (Lab ID Project Name: East Pecos Fed 22-3H <sup>2</sup>H03 (890-1250-6) 432-704-5440(Tel) ossible Hazard Identification 1211 W Florida Ave Deliverable Requested | II III IV Other (specify) ote: 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 aintain 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. Client Information (Sub Contract Lab elinquished by urofins Xenco mpty Kit Relinquished by hipping/Receiving nquished by E Custody Seal No 9.13.2 Project # 88000203 Due Date Requested 9/17/2021 Date/Time Primary Deliverable Rank 2 PO#: Phone: Date/Time NO#: FAT Requested (days): Sample Date 9/10/21 9/10/21 9/10/21 9/9/21 9/9/21 9/9/21 9/9/21 9/9/21 9/9/21 Mountain 10 55 Date Mountain 10 00 Mountain 12 40 Mountain 11 00 Mountain 15 55 Mountain 15 40 Mountain 13 35 Mountain 11 30 Sample 09 35 (C=comp G=grab) Sample Preservation Code: Type Company Company Matrix Solid Solid Solid Solid Solid Solid Solid Solid Solid Kramer Jessica jessica.kramer@eurofinset com lime Accreditations Required (See note NELAP - Texas Perform MS/MSD (Yes or No) Special Instructions/QC Requirements Sample Disposal ( A fee may be assessed if samples are retained longer than 1 month) × × × × × × × 300\_ORGFM\_28D/DI\_LEACH Chloride Received by: × × Cooler Temperature(s) °C and Other Remarks Return To Client × × × × × × × × 8015MOD\_NM/8015NM\_S\_Prep Full TPH × 8021B/5035FP\_Calc BTEX × × × ×  $\times$ × Analysis Requested Disposal By Lab State of Origin New Mexico Carrier Tracking No(s) Date/Time Archive For Total Number of containers يكلفي dis. -9 æ. A HCL
B NaOH
C Zn Acetate
D Nitric Acid
F MeoDH
G Amchior
H Ascorbic Acid
I loe
J DI Water
K EDTA
L EDA Page: Page 1 of 2 COC No 890-404 1 Preservation Codes 390-1250-1 Special Instructions/Note Q K C ⊢ D > ≥ N I Hexane
I None
AsNaO2
I Na2SO3
I Na2SO3
I Na2SO3
I Na2SO3
I TSP Dodecahydrate
J Acetone
J MCAA
W pH 4-5 Ver: 06/08/2021 Company other (specify) FC

Eurofins

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Xenco, Carlsbad				:
1St.	Chain of Custon			eurofins
M 88220	Cliaill of Custody Record	uy Record		America
88-3199 Fax 575-988-3199				
	Sampler	Lab PM	Carrier Tracking No(s)	COC No
rmation (Sub Contract Lab)		Kramer Jessica		890-404 2
	Phone	E-Mail	State of Origin.	Page:
eiving		jessica kramer@eurofinset com	New Mexico	Page 2 of 2
		Accreditations Required (See note):		10h #-

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 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 attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins Xenco LLC. State Zip TX 79701 Carlsbad NN Phone. 575-98 Deliverable Requested I II III IV Other (specify) Possible Hazard Identification PH05 (890-1250-10) Sample Identification - Client ID (Lab ID) Project Name East Pecos Fed 22-3H Midland Empty Kit Relinquished by Client Infor Client Contact: Shipping/Rece elinquished by: elinquished by 132-704-5440(Tel) Eurofins Xenco 211 W Florida Ave linquished by Z Custody Seal No 9.13.2 Date/Time Project #: 88000203 Primary Deliverable Rank 2 Due Date Requested 9/17/2021 )ate/Time TAT Requested (days): 9/10/21 Mountair Sample 12 50 G=grab) (C=comp, Sample Preservation Code: Type Company Company Matrix Solid Time Field Filtered Sample (Yes or No) NELAP - Texas Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return To Client Disposal By Lab Archive For Mon Perform MS/MSD (Yes or No) Special Instructions/QC Requirements 300\_ORGFM\_28D/DI\_LEACH Chloride Cooler Temperature(s) °C and Other Remarks Received by: × 8015MOD\_NM/8015NM\_S\_Prep Full TPH 8021B/5035FP\_Calc BTEX Analysis Requested Date/Time A - HCL
C ZN Acetate
C ZN Acetate
D Nift Acid
E NaHSO4
F NaHSO4
F Amethor
G Amethor
H Ascorbic Acid
I Ice
J DI Water
K EDTA
L EDA Total Number of containers 890-1250-1 Preservation Codes If the laboratory does not currently should be brought to Eurofins Xenco I M Hexane
N None
O AsNAO2
P-NaZO4S
Q NaZSO3
R-NaZSO3
S HZSO4
T TSP Dodecahydrate
U Acetone
V MCAA
W pH 4-5
Z other (specify) Company Months F

Shipping Order ID 419

Bottle Order # Bottle Order

**Bottle Order Information** 

Prepared By Order Status Date Order Posted

Deliver By Date:

Lab Project Number

9/13/2021 11:59:00PM

PWSID

Request From Client 9/13/2021 Ready To Process

Notes to Field Staff:

Sets

Bottles/Set

Qty

**Bottle Type Description** 

Preservative

Method

Matrix

Sample Type

Comments

Lot #

Preservative

Comment

Health and Safety Notes:

sampler instructions Scan QR code for field

Please notify )	Relinquished By	Relinquished By
Please notify your PM immediately if an error is found in shipment. When returning sa	(Company	Company 0 4.13.2)
an error is	Date	Date
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shipment. When returni	Received By	Received By
ing samples, please ret	Company	Company
ımples, please return all provided QC samples.	Seal# Seal# Seal#	Seal# Seal# Seal#

Page 3 of 3

Printed on 9/13/2021 1 01 35PM

Filled by Sent Date Sent Via

Tracking #

Creator

Cloe Clifton

Order Completion Information

# **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1250-1

SDG Number: 31403360.003

Login Number: 1250 List Source: Eurofins Xenco, Carlsbad

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 ampered 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	
s 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 <a href="mailto:smm">&lt;6 mm</a> (1/4").	N/A	

Released to Imaging: 3/16/2022 1:23:43 PM

# **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1250-1 SDG Number: 31403360.003

Login Number: 1250 List Source: Eurofins Xenco, Midland List Number: 2

List Creation: 09/14/21 12:21 PM

Creator: Phillips, Kerianna

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	

Released to Imaging: 3/16/2022 1:23:43 PM

<6mm (1/4").

# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1838-1

Laboratory Sample Delivery Group: 31403360.003 Client Project/Site: East Pecos Federal 22 #003H

For:

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

Attn: Joseph Hernandez

MAMER

Authorized for release by: 1/25/2022 12:45:31 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

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

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

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Client: WSP USA Inc. Project/Site: East Pecos Federal 22 #003H Laboratory Job ID: 890-1838-1 SDG: 31403360.003

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# **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

### **Qualifiers**

### **GC VOA** Qualifier

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

**Qualifier Description** 

### **GC Semi VOA**

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low biased.
U	Indicates the analyte was analyzed for but not detected.

### HDI C/IC

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

MDC

MDL

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)

Method Detection Limit MLMinimum Level (Dioxin)

MPN Most Probable Number MQL Method Quantitation Limit

NC Not Calculated

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

Minimum Detectable Concentration (Radiochemistry)

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 Carlsbad** 

### **Case Narrative**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1 SDG: 31403360.003

Job ID: 890-1838-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-1838-1

### Receipt

The samples were received on 1/18/2022 11:49 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.6°C

### **GC VOA**

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17388 and analytical batch 880-17427 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

### GC Semi VOA

Method 8015MOD\_NM: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17278 and analytical batch 880-17438 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following sample was outside control limits: FS01 (890-1838-1). Evidence of matrix interferences is not obvious.

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

### HPLC/IC

Method 300\_ORGFM\_28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-17449 and 880-17449 and analytical batch 880-17490 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

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Client: WSP USA Inc. Job ID: 890-1838-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

**Client Sample ID: FS01** Lab Sample ID: 890-1838-1 Date Collected: 01/13/22 10:10 Matrix: Solid

Date Received: 01/18/22 11:49 Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/19/22 10:00	01/20/22 17:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	125		70 - 130				01/19/22 10:00	01/20/22 17:56	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/19/22 10:00	01/20/22 17:56	1
- Method: Total BTEX - Total BTEX	X Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/24/22 16:52	1
Analyte Total TPH	Result <49.9	Qualifier U	RL 49.9	MDL	Unit mg/Kg	D	Prepared	Analyzed 01/24/22 16:33	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang	ge Organics (D	BO) (GC)							
	ge organics (b.	RO) (GC)							
Analyte	• •	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	• •	Qualifier	RL 49.9	MDL	Unit mg/Kg	<u>D</u>	Prepared 01/19/22 13:54	Analyzed 01/21/22 12:49	Dil Fac
5 5	Result	Qualifier U F1		MDL		<u>D</u>			1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result   <49.9	Qualifier U F1	49.9	MDL	mg/Kg	<u>D</u>	01/19/22 13:54	01/21/22 12:49	1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result <49.9 <49.9	Qualifier U F1 U	49.9	MDL	mg/Kg	<u>D</u>	01/19/22 13:54	01/21/22 12:49	1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result <49.9 <49.9 <49.9	Qualifier U F1 U U Qualifier	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54	01/21/22 12:49 01/21/22 12:49 01/21/22 12:49	1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result	Qualifier U F1 U U Qualifier	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared	01/21/22 12:49 01/21/22 12:49 01/21/22 12:49 01/21/22 12:49 Analyzed	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result	Qualifier U F1 U U Qualifier S1- S1-	49.9 49.9 49.9  Limits 70 - 130	MDL	mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared 01/19/22 13:54	01/21/22 12:49 01/21/22 12:49 01/21/22 12:49 Analyzed 01/21/22 12:49	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier U F1 U U Qualifier S1- S1-	49.9 49.9 49.9  Limits 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	01/19/22 13:54 01/19/22 13:54 01/19/22 13:54 Prepared 01/19/22 13:54	01/21/22 12:49 01/21/22 12:49 01/21/22 12:49 Analyzed 01/21/22 12:49	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

**Client Sample ID: FS02** Lab Sample ID: 890-1838-2

Date Collected: 01/13/22 10:15 Date Received: 01/18/22 11:49

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/22 10:00	01/20/22 18:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				01/19/22 10:00	01/20/22 18:16	1

**Eurofins Carlsbad** 

Matrix: Solid

1/25/2022

Client: WSP USA Inc. Job ID: 890-1838-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: FS02 Lab Sample ID: 890-1838-2 **Matrix: Solid** 

Date Collected: 01/13/22 10:15 Date Received: 01/18/22 11:49 Sample Depth: 2.5

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

Surrogate	%Recovery Qua	alifier Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	114	70 - 130	01/19/22 10:00	01/20/22 18:16	1

**Method: Total BTEX - Total BTEX Calculation** Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac

Total BTEX <0.00400 U 0.00400 01/24/22 16:52 mg/Kg

Method: 8015 NM - Diesel Range Organics (DRO) (GC) RL **MDL** Unit D Prepared Analyzed Dil Fac

Total TPH <49.9 U 49.9 mg/Kg 01/24/22 16:33

Method: 8015B NM - Diesel Range Organics (DRO) (GC) Result Qualifier MDL Unit D Analyte RL Prepared Analyzed Dil Fac <49.9 U 49.9 01/19/22 13:54 01/21/22 13:51 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 49.9 mg/Kg 01/19/22 13:54 01/21/22 13:51 C10-C28) 01/19/22 13:54 OII Range Organics (Over C28-C36) <49.9 U 49.9 mg/Kg 01/21/22 13:51

Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1-Chlorooctane 74 70 - 130 01/19/22 13:54 01/21/22 13:51 01/21/22 13:51 o-Terphenyl 82 70 - 130 01/19/22 13:54

Method: 300.0 - Anions, Ion Chromatography - Soluble Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac 911 24.8 01/19/22 16:56 Chloride mg/Kg

**Client Sample ID: FS03** Lab Sample ID: 890-1838-3

Date Collected: 01/13/22 10:20 Matrix: Solid Date Received: 01/18/22 11:49

Sample Depth: 2.5

Method: 8021B - Volatile Orga	nic Compounds (	GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/22 10:00	01/20/22 18:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	126		70 - 130				01/19/22 10:00	01/20/22 18:36	1
1,4-Difluorobenzene (Surr)	95		70 - 130				01/19/22 10:00	01/20/22 18:36	1

**Method: Total BTEX - Total BTEX Calculation** Analyte Result Qualifier RL MDL Unit Dil Fac

Total BTEX	<0.00399 U	0.00399	mg/Kg	01/24/22 16:52	1
Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)				

wietnod: 8015 NW - Diesei Range C	rganics (טאט	U) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/24/22 16:33	1

**Eurofins Carlsbad** 

Analyzed

Prepared

Matrix: Solid

Matrix: Solid

Lab Sample ID: 890-1838-3

Client: WSP USA Inc.

Job ID: 890-1838-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

**Client Sample ID: FS03** 

Date Collected: 01/13/22 10:20 Date Received: 01/18/22 11:49

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 02:20	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 02:20	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 02:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	96		70 - 130				01/19/22 13:48	01/20/22 02:20	1
o-Terphenyl	94		70 - 130				01/19/22 13:48	01/20/22 02:20	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
	Desult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
Analyte	Result	Qualifier	114		0		opa. oa	7 illuly 20 u	

**Client Sample ID: FS04** Lab Sample ID: 890-1838-4

Date Collected: 01/13/22 10:24

Date Received: 01/18/22 11:49

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:57	
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:57	•
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/19/22 10:00	01/20/22 18:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				01/19/22 10:00	01/20/22 18:57	1
1,4-Difluorobenzene (Surr)	94		70 - 130				01/19/22 10:00	01/20/22 18:57	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/24/22 16:52	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 01/24/22 16:33	Dil Fac
Analyte	Result   <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte Total TPH	Result <50.0	Qualifier U		MDL MDL	mg/Kg	D	Prepared Prepared		
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg		<u> </u>	01/24/22 16:33	1
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0  Je Organics (Dige Result	Qualifier U  RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	01/24/22 16:33  Analyzed	Dil Fac
Analyte Total TPH  .  Method: 8015B NM - Diesel Rang	Result <50.0	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg  Unit mg/Kg		Prepared 01/19/22 13:48	01/24/22 16:33  Analyzed  01/20/22 02:41	1 Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0  RL  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/19/22 13:48 01/19/22 13:48	01/24/22 16:33  Analyzed  01/20/22 02:41  01/20/22 02:41	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result	Qualifier U  RO) (GC) Qualifier U  U	50.0  RL  50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/19/22 13:48 01/19/22 13:48 01/19/22 13:48	01/24/22 16:33  Analyzed 01/20/22 02:41 01/20/22 02:41	1 Dil Fac

**Eurofins Carlsbad** 

Matrix: Solid

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1 SDG: 31403360.003

Lab Sample ID: 890-1838-4

**Client Sample ID: FS04** 

Date Collected: 01/13/22 10:24 Date Received: 01/18/22 11:49

Sample Depth: 2.5

Method: 300.0 - Anions, Ion Chron	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	563		5.00		mg/Kg			01/19/22 17:27	1

**Client Sample ID: FS05** Lab Sample ID: 890-1838-5 **Matrix: Solid** 

Date Collected: 01/13/22 10:28 Date Received: 01/18/22 11:49

Sample Depth: 2.5

Total DTEV

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/19/22 10:00	01/20/22 19:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	120		70 - 130				01/19/22 10:00	01/20/22 19:17	1
1,4-Difluorobenzene (Surr)	87		70 - 130				01/19/22 10:00	01/20/22 19:17	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015B NM - Diesel R	ange Organics (DF	RO) (GC)							
Total TPH	<50.0	U	50.0		mg/Kg			01/24/22 16:33	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Method: 8015 NM - Diesel Rai	nge Organics (DRC	O) (GC)							
Total BTEX	<0.00403	U	0.00403		mg/kg			01/24/22 16.52	'

0.00400

MDL Unit

Prepared

Analyzed

01/24/22 16:52

Gasoline Range Organics	<50.0	U	50.0	mg/Kg	01/19/22 13:48	01/20/22 03:02	1
(GRO)-C6-C10							
Diesel Range Organics (Over	<50.0	U	50.0	mg/Kg	01/19/22 13:48	01/20/22 03:02	1
C10-C28)							
Oll Range Organics (Over C28-C36)	<50.0	U	50.0	mg/Kg	01/19/22 13:48	01/20/22 03:02	1
Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1-Chlorooctane	98		70 - 130		01/19/22 13:48	01/20/22 03:02	1
o-Terphenyl	95		70 - 130		01/19/22 13:48	01/20/22 03:02	1

Method: 300.0 - Anions, Ion Chrom	natography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	577		24.9		mg/Kg			01/19/22 17:34	5

**Eurofins Carlsbad** 

Client: WSP USA Inc. Job ID: 890-1838-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

**Client Sample ID: FS06** Lab Sample ID: 890-1838-6

Date Collected: 01/13/22 10:35 Matrix: Solid Date Received: 01/18/22 11:49

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00198	U	0.00198		mg/Kg		01/19/22 16:00	01/20/22 19:38	-
Toluene	<0.00198	U	0.00198		mg/Kg		01/19/22 16:00	01/20/22 19:38	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/19/22 16:00	01/20/22 19:38	
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/19/22 16:00	01/20/22 19:38	
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/19/22 16:00	01/20/22 19:38	
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/19/22 16:00	01/20/22 19:38	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	119		70 - 130				01/19/22 16:00	01/20/22 19:38	
1,4-Difluorobenzene (Surr)	98		70 - 130				01/19/22 16:00	01/20/22 19:38	
Method: Total BTEX - Total BTE)	( Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00396	U	0.00396		mg/Kg			01/24/22 16:52	
	<49.9		49.9		mg/Kg	<u>-</u>		01/24/22 16:33	
Analyte Total TPH		Qualifier U	49.9	MDL		D	Prepared	Analyzed 01/24/22 16:33	Dil Fa
•									
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	
Analyte Gasoline Range Organics	•	Qualifier	<b>RL</b>	MDL	Unit mg/Kg	<u>D</u>	Prepared 01/19/22 13:48	Analyzed 01/20/22 03:23	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result	Qualifier U		MDL		<u>D</u>	<u>·</u>		Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <49.9	Qualifier U	49.9	MDL	mg/Kg	<u>D</u>	01/19/22 13:48	01/20/22 03:23	Dil Fa
Analyte  Gasoline Range Organics (GRO)-C6-C10  Diesel Range Organics (Over C10-C28)  Oll Range Organics (Over C28-C36)	Result   <49.9   <49.9	Qualifier U U U	49.9	MDL	mg/Kg	<u>D</u>	01/19/22 13:48	01/20/22 03:23	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)  Surrogate	Result   <49.9   <49.9   <49.9	Qualifier U U U	49.9 49.9 49.9	MDL	mg/Kg	<u>D</u>	01/19/22 13:48 01/19/22 13:48 01/19/22 13:48	01/20/22 03:23 01/20/22 03:23 01/20/22 03:23	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane	Result   <49.9   <49.9   <49.9   <49.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80.9   <80	Qualifier U U U	49.9 49.9 49.9 <i>Limits</i>	MDL	mg/Kg	<u>D</u>	01/19/22 13:48 01/19/22 13:48 01/19/22 13:48 Prepared	01/20/22 03:23 01/20/22 03:23 01/20/22 03:23 Analyzed	Dil Fa
Method: 8015B NM - Diesel Rang Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl Method: 300.0 - Anions, Ion Chro	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	Qualifier  U  U  Qualifier	49.9 49.9 49.9 <b>Limits</b> 70 - 130	MDL	mg/Kg	<u> </u>	01/19/22 13:48 01/19/22 13:48 01/19/22 13:48 Prepared 01/19/22 13:48	01/20/22 03:23 01/20/22 03:23 01/20/22 03:23 Analyzed 01/20/22 03:23	Dil Fa
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)  Surrogate 1-Chlorooctane o-Terphenyl	Result	Qualifier  U  U  Qualifier	49.9 49.9 49.9 <b>Limits</b> 70 - 130	MDL	mg/Kg mg/Kg mg/Kg	<u>D</u>	01/19/22 13:48 01/19/22 13:48 01/19/22 13:48 Prepared 01/19/22 13:48	01/20/22 03:23 01/20/22 03:23 01/20/22 03:23 Analyzed 01/20/22 03:23	Dil Fa

**Client Sample ID: FS07** Lab Sample ID: 890-1838-7

Date Collected: 01/13/22 10:42 Date Received: 01/18/22 11:49

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/21/22 07:30	01/22/22 00:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	133	S1+	70 - 130				01/21/22 07:30	01/22/22 00:54	1

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**Matrix: Solid** 

Client: WSP USA Inc. Job ID: 890-1838-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

**Client Sample ID: FS07** Lab Sample ID: 890-1838-7

Date Collected: 01/13/22 10:42 Matrix: Solid Date Received: 01/18/22 11:49

Sample Depth: 2.5

Method: 8021B - Volatile Organic	Compounds	(GC) (Conti	nued)						
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	103		70 - 130				01/21/22 07:30	01/22/22 00:54	1
Method: Total BTEX - Total BTEX		Ovelities.	DI.	MDI	l lait	Б	Drawayad	Analysed	Dil Foo
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			01/24/22 16:52	1

Method: 8015 NM - Diesel Range O	rganics (DRO) (GC)						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.8 U	49.8	mg/Kg			01/24/22 16:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.8	U	49.8		mg/Kg		01/19/22 13:48	01/20/22 03:43	1
Diesel Range Organics (Over C10-C28)	<49.8	U	49.8		mg/Kg		01/19/22 13:48	01/20/22 03:43	1
Oll Range Organics (Over C28-C36)	<49.8	U	49.8		mg/Kg		01/19/22 13:48	01/20/22 03:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	97		70 - 130				01/19/22 13:48	01/20/22 03:43	

Method: 300.0 - Anions, Ion Chror	natography - Soluble						
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	691	25.0	mg/K	g	-	01/19/22 17:49	5

70 - 130

95

Result Qualifier

<50.0 U

**Client Sample ID: FS08** Lab Sample ID: 890-1838-8 Date Collected: 01/13/22 10:46 **Matrix: Solid** 

Date Received: 01/18/22 11:49

Sample Depth: 2.5

Analyte

Total TPH

o-Terphenyl

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/21/22 07:30	01/22/22 01:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/21/22 07:30	01/22/22 01:15	1
1,4-Difluorobenzene (Surr)	96		70 - 130				01/21/22 07:30	01/22/22 01:15	1
Method: Total BTEX - Total B1	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00403	U	0.00403		mg/Kg			01/24/22 16:52	1

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Analyzed

01/24/22 16:33

RL

50.0

MDL Unit

mg/Kg

01/19/22 13:48

Prepared

01/20/22 03:43

Dil Fac

Client: WSP USA Inc. Job ID: 890-1838-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

**Client Sample ID: FS08** Lab Sample ID: 890-1838-8 Date Collected: 01/13/22 10:46 Matrix: Solid

Date Received: 01/18/22 11:49

Sample Depth: 2.5

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:04	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:04	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	90		70 - 130				01/19/22 13:48	01/20/22 04:04	1
o-Terphenyl	91		70 - 130				01/19/22 13:48	01/20/22 04:04	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	445		4.96		mg/Kg			01/19/22 17:57	1

**Client Sample ID: FS09** Lab Sample ID: 890-1838-9 Matrix: Solid

Date Collected: 01/13/22 10:55 Date Received: 01/18/22 11:49

Sample Depth: 2.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
Toluene	< 0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
m-Xylene & p-Xylene	0.00414		0.00398		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
Xylenes, Total	0.00414		0.00398		mg/Kg		01/21/22 07:30	01/22/22 01:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/21/22 07:30	01/22/22 01:35	1
1,4-Difluorobenzene (Surr)	100		70 - 130				01/21/22 07:30	01/22/22 01:35	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	0.00414		0.00398		mg/Kg			01/25/22 11:51	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			01/24/22 16:33	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:25	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:25	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/20/22 04:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	99		70 - 130				01/19/22 13:48	01/20/22 04:25	1
o-Terphenyl	98		70 - 130				01/19/22 13:48	01/20/22 04:25	1

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Client: WSP USA Inc.

Job ID: 890-1838-1

Project/Site: Fast Peops Federal 22 #003H

SDG: 31403360 003

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: FS09

Date Collected: 01/13/22 10:55

Date Received: 01/18/22 11:49

Lab Sample ID: 890-1838-9

Matrix: Solid

Sample Depth: 2.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	782		25.2		mg/Kg			01/19/22 18:19	5

5

6

8

10

11

13

14

# **Surrogate Summary**

Client: WSP USA Inc. Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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)	
880-10292-A-2-C MSD	Matrix Spike Duplicate	102	86	
880-10292-A-2-F MS	Matrix Spike	115	102	
890-1838-1	FS01	125	96	
890-1838-2	FS02	133 S1+	114	
890-1838-3	FS03	126	95	
890-1838-4	FS04	120	94	
890-1838-5	FS05	120	87	
890-1838-6	FS06	119	98	
890-1838-7	FS07	133 S1+	103	
890-1838-8	FS08	119	96	
890-1838-9	FS09	119	100	
890-1840-A-5-J MS	Matrix Spike	117	99	
890-1840-A-5-K MSD	Matrix Spike Duplicate	139 S1+	119	
LCS 880-17131/1-A	Lab Control Sample	108	93	
LCS 880-17388/1-A	Lab Control Sample	117	105	
LCSD 880-17131/2-A	Lab Control Sample Dup	109	94	
LCSD 880-17388/2-A	Lab Control Sample Dup	124	112	
MB 880-17131/5-A	Method Blank	123	97	
MB 880-17341/5-A	Method Blank	122	103	
MB 880-17388/5-A	Method Blank	119	101	

BFB = 4-Bromofluorobenzene (Surr)

DFBZ = 1,4-Difluorobenzene (Surr)

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

**Matrix: Solid** Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1CO1	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1836-A-1-F MS	Matrix Spike	92	82	
890-1836-A-1-G MSD	Matrix Spike Duplicate	79	79	
890-1838-1	FS01	62 S1-	68 S1-	
890-1838-1 MS	FS01	73	71	
890-1838-1 MSD	FS01	77	76	
890-1838-2	FS02	74	82	
890-1838-3	FS03	96	94	
890-1838-4	FS04	105	108	
890-1838-5	FS05	98	95	
890-1838-6	FS06	103	99	
890-1838-7	FS07	97	95	
890-1838-8	FS08	90	91	
890-1838-9	FS09	99	98	
LCS 880-17278/2-A	Lab Control Sample	99	104	
LCSD 880-17278/3-A	Lab Control Sample Dup	99	105	
	Method Blank	92	109	

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OTPH = o-Terphenyl

#### **Surrogate Summary**

Client: WSP USA Inc. Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Lin
		1CO2	OTPH2	
_ab Sample ID	Client Sample ID	(70-130)	(70-130)	
CS 880-17277/2-A	Lab Control Sample	102	98	
LCSD 880-17277/3-A	Lab Control Sample Dup	106	100	
MB 880-17277/1-A	Method Blank	107	106	
Surrogate Legend				
1CO = 1-Chlorooctane				
OTPH = o-Terphenyl				

Client: WSP USA Inc.

Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17131/5-A

Lab Sample ID: LCS 880-17131/1-A

**Matrix: Solid** 

Analysis Batch: 17325

**Matrix: Solid** Analysis Batch: 17325 Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 17131

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/19/22 07:30	01/20/22 11:10	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/19/22 07:30	01/20/22 11:10	1

MB MB

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	123		70 - 130	0	1/19/22 07:30	01/20/22 11:10	1
1,4-Difluorobenzene (Surr)	97		70 - 130	0	1/19/22 07:30	01/20/22 11:10	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 17131

Prep Type: Total/NA

Prep Batch: 17131

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.09493 mg/Kg 95 70 - 130 Toluene 0.100 0.1015 mg/Kg 101 70 - 130 0.100 0.09858 Ethylbenzene mg/Kg 99 70 - 130 0.200 0.1931 70 - 130 m-Xylene & p-Xylene mg/Kg 97 0.100 0.09628 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		70 - 130
1,4-Difluorobenzene (Surr)	93		70 - 130

Lab Sample ID: LCSD 880-17131/2-A **Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

Analysis Batch: 17325

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09424		mg/Kg		94	70 - 130	1	35
Toluene	0.100	0.09680		mg/Kg		97	70 - 130	5	35
Ethylbenzene	0.100	0.1024		mg/Kg		102	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1998		mg/Kg		100	70 - 130	3	35
o-Xylene	0.100	0.09640		mg/Kg		96	70 - 130	0	35

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		70 - 130
1,4-Difluorobenzene (Surr)	94		70 - 130

Lab Sample ID: 880-10292-A-2-C MSD

**Matrix: Solid** 

Analysis Batch: 17325

Prep Type: Total/NA

Prep Batch: 17131

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00202	U	0.0990	0.08451		mg/Kg		85	70 - 130	17	35
Toluene	<0.00202	U	0.0990	0.09054		mg/Kg		91	70 - 130	15	35

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#### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Lab Sample ID: 880-10292-A-2-C MSD **Matrix: Solid** 

Analysis Batch: 17325

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17131

MSD MSD Sample Sample Spike %Rec. **RPD** Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits **RPD** Limit D Ethylbenzene <0.00202 U 0.0990 0.09309 94 70 - 130 22 35 mg/Kg m-Xylene & p-Xylene <0.00403 0.198 0.1811 mg/Kg 91 70 - 130 16 35 0.0990 0.08850 o-Xylene <0.00202 U mg/Kg 89 70 - 130 15

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		70 - 130
1,4-Difluorobenzene (Surr)	86		70 - 130

Lab Sample ID: 880-10292-A-2-F MS

**Matrix: Solid** 

**Analysis Batch: 17325** 

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17131

Sample Sample Spike MS MS %Rec. %Rec Result Qualifier Added Result Qualifier Limits Analyte Unit 0.100 Benzene <0.00202 U 0.09972 mg/Kg 99 70 - 130 Toluene <0.00202 U 0.100 0.1050 mg/Kg 105 70 - 130 Ethylbenzene <0.00202 U 0.100 0.1164 mg/Kg 116 70 - 130 <0.00403 U 0.201 70 - 130 m-Xylene & p-Xylene 0.2123 mq/Kq 106 0.100 <0.00202 U 0.1030 70 - 130 o-Xylene mg/Kg 103

MS MS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	115		70 - 130
1,4-Difluorobenzene (Surr)	102		70 - 130

Lab Sample ID: MB 880-17341/5-A

**Matrix: Solid** 

Analysis Batch: 17427

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17341

MB MB

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/21/22 09:38	01/21/22 11:47	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/21/22 09:38	01/21/22 11:47	1

MB MB

мв мв

<0.00400 U

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	122		70 - 130	01/21/22 09:38	01/21/22 11:47	1
1,4-Difluorobenzene (Surr)	103		70 - 130	01/21/22 09:38	01/21/22 11:47	1

Lab Sample ID: MB 880-17388/5-A

**Matrix: Solid** 

Analyte

Benzene

**Analysis Batch: 17427** 

Client Sample ID: Method Blank

01/21/22 23:24

01/21/22 07:30

Prep Type: Total/NA

Prep Batch: 17388

Result Qualifier Dil Fac MDL Unit Prepared RL Analyzed < 0.00200 U 0.00200 01/21/22 07:30 01/21/22 23:24 mg/Kg <0.00200 U 0.00200 mg/Kg 01/21/22 07:30 01/21/22 23:24 0.003137 0.00200 mg/Kg 01/21/22 07:30 01/21/22 23:24

mg/Kg

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0.00400

Toluene Ethylbenzene m-Xylene & p-Xylene

#### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Lab Sample ID: MB 880-17388/5-A

**Matrix: Solid** 

**Analysis Batch: 17427** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17388

MB MB

Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac o-Xylene <0.00200 U 0.00200 mg/Kg 01/21/22 07:30 01/21/22 23:24 Xylenes, Total <0.00400 U 0.00400 mg/Kg 01/21/22 07:30 01/21/22 23:24

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130	01/21/22 07:30	01/21/22 23:24	1
1,4-Difluorobenzene (Surr)	101		70 - 130	01/21/22 07:30	01/21/22 23:24	1

**Client Sample ID: Lab Control Sample** 

Lab Sample ID: LCS 880-17388/1-A **Matrix: Solid** 

**Analysis Batch: 17427** 

Prep Type: Total/NA

Prep Batch: 17388

	<b>Бріке</b>	LUS	LUS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	0.100	0.09187		mg/Kg		92	70 - 130	
Toluene	0.100	0.1014		mg/Kg		101	70 - 130	
Ethylbenzene	0.100	0.1005		mg/Kg		101	70 - 130	
m-Xylene & p-Xylene	0.200	0.1969		mg/Kg		98	70 - 130	
o-Xylene	0.100	0.09342		mg/Kg		93	70 - 130	

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	117	70 - 130
1.4-Difluorobenzene (Surr)	105	70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17388

**Analysis Batch: 17427** 

**Matrix: Solid** 

Lab Sample ID: LCSD 880-17388/2-A

LCSD LCSD Spike %Rec. RPD Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Benzene 0.100 0.09869 mg/Kg 99 70 - 130 35 Toluene 0.100 0.1022 mg/Kg 102 70 - 130 35 Ethylbenzene 0.100 0.1019 mg/Kg 102 70 - 130 35 m-Xylene & p-Xylene 0.200 0.2002 mg/Kg 100 70 - 130 35 o-Xylene 0.100 0.1002 mg/Kg 100 70 - 130 35

LCSD LCSD

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	124	70 - 130
1.4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: 890-1840-A-5-J MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 17427

Prep Type: Total/NA

Prep Batch: 17388

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U F2 F1	0.0996	0.09366		mg/Kg		93	70 - 130	
Toluene	<0.00199	U F2 F1	0.0996	0.09215		mg/Kg		91	70 - 130	
Ethylbenzene	<0.00199	U F2 F1	0.0996	0.1025		mg/Kg		103	70 - 130	
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.199	0.1941		mg/Kg		97	70 - 130	
o-Xylene	<0.00199	U F1	0.0996	0.09497		mg/Kg		95	70 - 130	

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1

SDG: 31403360.003

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

Lab Sample ID: 890-1840-A-5-J MS

Lab Sample ID: 890-1840-A-5-K MSD

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 17427** 

Analysis Batch, 47427

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17388

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 117 70 - 130 1,4-Difluorobenzene (Surr) 99 70 - 130

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Analysis Batch: 17427									Prep	batch:	1/300
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U F2 F1	0.100	0.04365	F2 F1	mg/Kg		43	70 - 130	73	35
Toluene	<0.00199	U F2 F1	0.100	0.06067	F2 F1	mg/Kg		59	70 - 130	41	35
Ethylbenzene	<0.00199	U F2 F1	0.100	0.06531	F2 F1	mg/Kg		65	70 - 130	44	35
m-Xylene & p-Xylene	<0.00398	U F2 F1	0.200	0.1177	F2 F1	mg/Kg		59	70 - 130	49	35
o-Xylene	<0.00199	U F1	0.100	0.06987	F1	mg/Kg		69	70 - 130	30	35

MSD MSD

%Recovery Qualifier Surrogate Limits 4-Bromofluorobenzene (Surr) 139 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 119 70 - 130

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

Lab Sample ID: MB 880-17277/1-A

**Matrix: Solid** 

Analysis Batch: 17214

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17277

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/19/22 19:43	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/19/22 19:43	1
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/19/22 13:48	01/19/22 19:43	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	107		70 - 130	01/19/22 13	48 01/19/22 19:43	1
o-Terphenyl	106		70 - 130	01/19/22 13	48 01/19/22 19:43	1

Lab Sample ID: LCS 880-17277/2-A

**Matrix: Solid** 

Analysis Batch: 17214

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 17277

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	975.2		mg/Kg		98	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1056		mg/Kg		106	70 - 130	
C40 C20\								

C10-C28)

	LUS	LUS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	98		70 - 130

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Released to Imaging: 3/16/2022 1:23:43 PM

#### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

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

Lab Sample ID: LCSD 880-17277/3-A

Analysis Batch: 17214

**Matrix: Solid** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Type: Total/NA

Prep Type: Total/NA

Prep Batch: 17277

Prep Batch: 17277

	<b>Бріке</b>	LCSD	LCSD				%Rec.		KPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	919.8		mg/Kg		92	70 - 130	6	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	982.9		mg/Kg		98	70 - 130	7	20
C40 C20\									

Chiles

LCCD LCCD

C10-C28)

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	106		70 - 130
o-Terphenyl	100		70 - 130

Lab Sample ID: 890-1836-A-1-F MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

**Analysis Batch: 17214** 

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U F2	997	1205		mg/Kg	_	121	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	1282		mg/Kg		129	70 - 130	
C10-C28)										

MS MS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 92 70 - 130 o-Terphenyl 82 70 - 130

Lab Sample ID: 890-1836-A-1-G MSD

**Matrix: Solid** 

Analysis Batch: 17214

Analysis Batch: 17214									Prep	Batch:	1/2//
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U F2	996	957.7	F2	mg/Kg		96	70 - 130	23	20
Diesel Range Organics (Over C10-C28)	<49.9	U	996	1118		mg/Kg		112	70 - 130	14	20

MSD MSD Qualifier Limits Surrogate %Recovery 1-Chlorooctane 79 70 - 130 79 70 - 130 o-Terphenyl

MB MB

Result Qualifier

Lab Sample ID: MB 880-17278/1-A

**Matrix: Solid** 

Analyte

**Analysis Batch: 17438** 

С	lient	Samp	le	ID:	Me	thod	В	lank	
			_		_				

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA Prep Batch: 17278

Analyzed	Dil Fac
01/21/22 11:45	1

Gasoline Range Organics <50.0 U 50.0 01/19/22 13:54 mg/Kg (GRO)-C6-C10 01/19/22 13:54 Diesel Range Organics (Over <50.0 U 50.0 mg/Kg 01/21/22 11:45 C10-C28) OII Range Organics (Over C28-C36) <50.0 U 50.0 01/19/22 13:54 mg/Kg 01/21/22 11:45

RL

MDL Unit

D

Prepared

Job ID: 890-1838-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Lab Sample ID: MB 880-17278/1-A

Matrix: Solid

Client: WSP USA Inc.

**Analysis Batch: 17438** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17278

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	ed	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	01/19/22	13:54	01/21/22 11:45	1
o-Terphenyl	109		70 - 130	01/19/22 1	13:54	01/21/22 11:45	1

Lab Sample ID: LCS 880-17278/2-A Client Sample ID: Lab Control Sample

Matrix: Solid

Analysis Batch: 17438

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

Prep Batch: 17278

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit D %Rec Limits Gasoline Range Organics 1000 980.3 98 70 - 130 mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 923.6 mg/Kg 92 70 - 130 C10-C28)

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	99		70 - 130
o-Terphenyl	104		70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Matrix: Solid

Analysis Batch: 17438

Lab Sample ID: LCSD 880-17278/3-A

Prep Batch: 17278

	Spike	LCSD	LCSD				70Rec.		KFD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	995.1		mg/Kg		100	70 - 130	1	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	938.2		mg/Kg		94	70 - 130	2	20	
C10 C28)										

I COD I COD

Cnika

C10-C28)

LCSD LCSD

Surrogate	%Recovery Qualifier	r Limits
1-Chlorooctane	99	70 - 130
o-Terphenyl	105	70 - 130

Lab Sample ID: 890-1838-1 MS Client Sample ID: FS01

Matrix: Solid

Analysis Batch: 17438

Prep Type: Total/NA Prep Batch: 17278

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U F1	997	1391	F1	mg/Kg		136	70 - 130		_
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	997	1141		mg/Kg		112	70 - 130		
040,000)											

C10-C28)

MS MS

Surrogate	%Recovery Qualif	ier Limits
1-Chlorooctane	73	70 - 130
o-Terphenyl	71	70 - 130

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Project/Site: East Pecos Federal 22 #003H

Client: WSP USA Inc.

Job ID: 890-1838-1

SDG: 31403360.003

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

Lab Sample ID: 890-1838-1 MSD Client Sample ID: FS01

**Matrix: Solid** 

Analysis Batch: 17438

Prep Type: Total/NA Prep Batch: 17278

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U F1	996	1250		mg/Kg		122	70 - 130	11	20
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	996	1250		mg/Kg		123	70 - 130	9	20
C10-C28)											

MSD MSD

Surrogate	%Recovery Qualifier	Limits
1-Chlorooctane	77	70 - 130
o-Terphenyl	76	70 - 130

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17254/1-A Client Sample ID: Method Blank **Prep Type: Soluble** 

Matrix: Solid

Analysis Batch: 17294

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Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00 U	5.00	mg/Kg			01/19/22 15:48	1

Lab Sample ID: LCS 880-17254/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17294** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	250	269.0		mg/Kg		108	90 - 110	

Lab Sample ID: LCSD 880-17254/3-A Client Sample ID: Lab Control Sample Dup **Prep Type: Soluble** 

Matrix: Solid

Analysis Batch: 17294

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Chloride	250	267.6		ma/Ka		107	90 - 110		20	

Lab Sample ID: 890-1838-8 MS **Client Sample ID: FS08 Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 17294

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Chloride	445		248	709.0		ma/Ka		107	90 110	

Lab Sample ID: 890-1838-8 MSD **Client Sample ID: FS08 Prep Type: Soluble** 

Matrix: Solid

Analysis Batch: 17294

Released to Imaging: 3/16/2022 1:23:43 PM

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	445		248	705.1		mg/Kg		105	90 - 110	1	20

Client: WSP USA Inc.

Job ID: 890-1838-1

SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: MB 880-17449/1-A

Project/Site: East Pecos Federal 22 #003H

**Matrix: Solid** 

Analysis Batch: 17490

Analyte

Chloride

Client Sample ID: Method Blank **Prep Type: Soluble** 

MB MB MDL Unit Dil Fac Result Qualifier RL D Prepared Analyzed <5.00 U 5.00 mg/Kg 01/21/22 13:59

Lab Sample ID: LCS 880-17449/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17490** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 271.8 mg/Kg 109 90 - 110

Lab Sample ID: LCSD 880-17449/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 17490

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 271.9 mg/Kg 109 90 - 110

Lab Sample ID: 880-10451-A-1-B MS Client Sample ID: Matrix Spike **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 17490

Spike MS MS Sample Sample %Rec. Analyte Result Qualifier Added Result Qualifier %Rec Unit Limits Chloride 12.5 F1 250 321.4 F1 124 90 - 110 mg/Kg

Lab Sample ID: 880-10451-A-1-C MSD

**Matrix: Solid** 

Analysis Batch: 17490

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 328.4 F1 Chloride 12.5 F1 250 mg/Kg 126 90 - 110 20

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Client Sample ID: Matrix Spike Duplicate

**Prep Type: Soluble** 

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1 SDG: 31403360.003

#### **GC VOA**

#### Prep Batch: 17131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	5035	
890-1838-2	FS02	Total/NA	Solid	5035	
890-1838-3	FS03	Total/NA	Solid	5035	
890-1838-4	FS04	Total/NA	Solid	5035	
890-1838-5	FS05	Total/NA	Solid	5035	
890-1838-6	FS06	Total/NA	Solid	5035	
MB 880-17131/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17131/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17131/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10292-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
880-10292-A-2-F MS	Matrix Spike	Total/NA	Solid	5035	

#### Analysis Batch: 17325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	8021B	17131
890-1838-2	FS02	Total/NA	Solid	8021B	17131
890-1838-3	FS03	Total/NA	Solid	8021B	17131
890-1838-4	FS04	Total/NA	Solid	8021B	17131
890-1838-5	FS05	Total/NA	Solid	8021B	17131
890-1838-6	FS06	Total/NA	Solid	8021B	17131
MB 880-17131/5-A	Method Blank	Total/NA	Solid	8021B	17131
LCS 880-17131/1-A	Lab Control Sample	Total/NA	Solid	8021B	17131
LCSD 880-17131/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17131
880-10292-A-2-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17131
880-10292-A-2-F MS	Matrix Spike	Total/NA	Solid	8021B	17131

#### Prep Batch: 17341

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17341/5-A	Method Blank	Total/NA	Solid	5035	

#### Prep Batch: 17388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-7	FS07	Total/NA	Solid	5035	
890-1838-8	FS08	Total/NA	Solid	5035	
890-1838-9	FS09	Total/NA	Solid	5035	
MB 880-17388/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17388/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17388/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
890-1840-A-5-J MS	Matrix Spike	Total/NA	Solid	5035	
890-1840-A-5-K MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 17427

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-7	FS07	Total/NA	Solid	8021B	17388
890-1838-8	FS08	Total/NA	Solid	8021B	17388
890-1838-9	FS09	Total/NA	Solid	8021B	17388
MB 880-17341/5-A	Method Blank	Total/NA	Solid	8021B	17341
MB 880-17388/5-A	Method Blank	Total/NA	Solid	8021B	17388
LCS 880-17388/1-A	Lab Control Sample	Total/NA	Solid	8021B	17388
LCSD 880-17388/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17388
890-1840-A-5-J MS	Matrix Spike	Total/NA	Solid	8021B	17388

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1

SDG: 31403360.003

#### **GC VOA (Continued)**

#### **Analysis Batch: 17427 (Continued)**

ı	Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
	890-1840-A-5-K MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17388

#### Analysis Batch: 17647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	Total BTEX	-
890-1838-2	FS02	Total/NA	Solid	Total BTEX	
890-1838-3	FS03	Total/NA	Solid	Total BTEX	
890-1838-4	FS04	Total/NA	Solid	Total BTEX	
890-1838-5	FS05	Total/NA	Solid	Total BTEX	
890-1838-6	FS06	Total/NA	Solid	Total BTEX	
890-1838-7	FS07	Total/NA	Solid	Total BTEX	
890-1838-8	FS08	Total/NA	Solid	Total BTEX	

#### Analysis Batch: 17693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-9	FS09	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Analysis Batch: 17214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-3	FS03	Total/NA	Solid	8015B NM	17277
890-1838-4	FS04	Total/NA	Solid	8015B NM	17277
890-1838-5	FS05	Total/NA	Solid	8015B NM	17277
890-1838-6	FS06	Total/NA	Solid	8015B NM	17277
890-1838-7	FS07	Total/NA	Solid	8015B NM	17277
890-1838-8	FS08	Total/NA	Solid	8015B NM	17277
890-1838-9	FS09	Total/NA	Solid	8015B NM	17277
MB 880-17277/1-A	Method Blank	Total/NA	Solid	8015B NM	17277
LCS 880-17277/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17277
LCSD 880-17277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17277
890-1836-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17277
890-1836-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17277

#### Prep Batch: 17277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-3	FS03	Total/NA	Solid	8015NM Prep	
890-1838-4	FS04	Total/NA	Solid	8015NM Prep	
890-1838-5	FS05	Total/NA	Solid	8015NM Prep	
890-1838-6	FS06	Total/NA	Solid	8015NM Prep	
890-1838-7	FS07	Total/NA	Solid	8015NM Prep	
890-1838-8	FS08	Total/NA	Solid	8015NM Prep	
890-1838-9	FS09	Total/NA	Solid	8015NM Prep	
MB 880-17277/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17277/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17277/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1836-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1836-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1 SDG: 31403360.003

#### GC Semi VOA

#### Prep Batch: 17278

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	8015NM Prep	
890-1838-2	FS02	Total/NA	Solid	8015NM Prep	
MB 880-17278/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17278/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1838-1 MS	FS01	Total/NA	Solid	8015NM Prep	
890-1838-1 MSD	FS01	Total/NA	Solid	8015NM Prep	

#### **Analysis Batch: 17438**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	8015B NM	17278
890-1838-2	FS02	Total/NA	Solid	8015B NM	17278
MB 880-17278/1-A	Method Blank	Total/NA	Solid	8015B NM	17278
LCS 880-17278/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17278
LCSD 880-17278/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17278
890-1838-1 MS	FS01	Total/NA	Solid	8015B NM	17278
890-1838-1 MSD	FS01	Total/NA	Solid	8015B NM	17278

#### Analysis Batch: 17641

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Total/NA	Solid	8015 NM	
890-1838-2	FS02	Total/NA	Solid	8015 NM	
890-1838-3	FS03	Total/NA	Solid	8015 NM	
890-1838-4	FS04	Total/NA	Solid	8015 NM	
890-1838-5	FS05	Total/NA	Solid	8015 NM	
890-1838-6	FS06	Total/NA	Solid	8015 NM	
890-1838-7	FS07	Total/NA	Solid	8015 NM	
890-1838-8	FS08	Total/NA	Solid	8015 NM	
890-1838-9	FS09	Total/NA	Solid	8015 NM	

#### HPLC/IC

#### Leach Batch: 17254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Soluble	Solid	DI Leach	
890-1838-2	FS02	Soluble	Solid	DI Leach	
890-1838-3	FS03	Soluble	Solid	DI Leach	
890-1838-4	FS04	Soluble	Solid	DI Leach	
890-1838-5	FS05	Soluble	Solid	DI Leach	
890-1838-6	FS06	Soluble	Solid	DI Leach	
890-1838-7	FS07	Soluble	Solid	DI Leach	
890-1838-8	FS08	Soluble	Solid	DI Leach	
890-1838-9	FS09	Soluble	Solid	DI Leach	
MB 880-17254/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17254/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17254/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1838-8 MS	FS08	Soluble	Solid	DI Leach	
890-1838-8 MSD	FS08	Soluble	Solid	DI Leach	

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Client: WSP USA Inc. Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

**HPLC/IC** 

Analysis Batch: 17294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1838-1	FS01	Soluble	Solid	300.0	17254
890-1838-2	FS02	Soluble	Solid	300.0	17254
890-1838-3	FS03	Soluble	Solid	300.0	17254
890-1838-4	FS04	Soluble	Solid	300.0	17254
890-1838-5	FS05	Soluble	Solid	300.0	17254
890-1838-6	FS06	Soluble	Solid	300.0	17254
890-1838-7	FS07	Soluble	Solid	300.0	17254
890-1838-8	FS08	Soluble	Solid	300.0	17254
890-1838-9	FS09	Soluble	Solid	300.0	17254
MB 880-17254/1-A	Method Blank	Soluble	Solid	300.0	17254
LCS 880-17254/2-A	Lab Control Sample	Soluble	Solid	300.0	17254
LCSD 880-17254/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17254
890-1838-8 MS	FS08	Soluble	Solid	300.0	17254
890-1838-8 MSD	FS08	Soluble	Solid	300.0	17254

Leach Batch: 17449

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17449/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17449/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17449/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
880-10451-A-1-B MS	Matrix Spike	Soluble	Solid	DI Leach	
880-10451-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

**Analysis Batch: 17490** 

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17449/1-A	Method Blank	Soluble	Solid	300.0	17449
LCS 880-17449/2-A	Lab Control Sample	Soluble	Solid	300.0	17449
LCSD 880-17449/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17449
880-10451-A-1-B MS	Matrix Spike	Soluble	Solid	300.0	17449
880-10451-A-1-C MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17449

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

Job ID: 890-1838-1

**Client Sample ID: FS01** Lab Sample ID: 890-1838-1 Date Collected: 01/13/22 10:10

**Matrix: Solid** 

Date Received: 01/18/22 11:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17131	01/19/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 17:56	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17278	01/19/22 13:54	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17438	01/21/22 12:49	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17254	01/19/22 11:43	СН	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 16:49	CH	XEN MID

**Client Sample ID: FS02** Lab Sample ID: 890-1838-2

Date Collected: 01/13/22 10:15 **Matrix: Solid** Date Received: 01/18/22 11:49

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab 5035 Total/NA Prep 5.00 g 5 mL 17131 01/19/22 10:00 KL XEN MID Total/NA 8021B 5 mL 01/20/22 18:16 KL XEN MID Analysis 1 5 mL 17325 Total/NA Total BTEX 17647 01/24/22 16:52 XEN MID Analysis 1 A.I Total/NA Analysis 8015 NM 17641 01/24/22 16:33 XEN MID Total/NA 17278 01/19/22 13:54 XEN MID Prep 8015NM Prep 10.02 g DM 10 mL Total/NA Analysis 8015B NM 17438 01/21/22 13:51 AJ XEN MID Soluble 17254 01/19/22 11:43 СН XEN MID Leach DI Leach 5.05 g 50 mL Soluble Analysis 300.0 5 17294 01/19/22 16:56 CH XEN MID

Lab Sample ID: 890-1838-3 **Client Sample ID: FS03** 

Date Collected: 01/13/22 10:20 **Matrix: Solid** Date Received: 01/18/22 11:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17131	01/19/22 10:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 18:36	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 02:20	AJ	XEN MID
Soluble	Leach	DI Leach			4.95 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 17:19	CH	XEN MID

Lab Sample ID: 890-1838-4 **Client Sample ID: FS04** Date Collected: 01/13/22 10:24 **Matrix: Solid** 

Date Received: 01/18/22 11:49

Г		Datah	Datah		Dil	Initial	Final	Datah	Duamanad		
١,	Pron Tuno	Batch	Batch Method	Run	Dil Factor	Initial	Final	Batch Number	Prepared or Analyzed	Analyst	Lab
[	Prep Type	Туре	_ ivietiiou	Kuii	- racioi	Amount	Amount	Number	Of Allalyzeu	Allalyst	_ Lab
1	Total/NA	Prep	5035			5.01 g	5 mL	17131	01/19/22 10:00	KL	XEN MID
1	Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 18:57	KL	XEN MID
1	Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1 SDG: 31403360.003

**Client Sample ID: FS04** 

Client: WSP USA Inc.

Lab Sample ID: 890-1838-4 Date Collected: 01/13/22 10:24

**Matrix: Solid** 

Date Received: 01/18/22 11:49

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 02:41	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	17254	01/19/22 11:43	СН	XEN MID
Soluble	Analysis	300.0		1			17294	01/19/22 17:27	CH	XEN MID

**Client Sample ID: FS05** Lab Sample ID: 890-1838-5

Date Collected: 01/13/22 10:28 **Matrix: Solid** 

17294

01/19/22 17:34

CH

Date Received: 01/18/22 11:49

Batch Batch Dil Initial Final Batch Prepared Prep Type Method Amount Amount Number or Analyzed Type Run Factor Analyst Lab 5035 Total/NA Prep 4.96 g 5 mL 17131 01/19/22 10:00 KL XEN MID Total/NA Analysis 8021B 5 mL 5 mL 17325 01/20/22 19:17 KL XEN MID 1 Total/NA Total BTEX XEN MID Analysis 1 17647 01/24/22 16:52 AJ Total/NA Analysis 8015 NM 17641 01/24/22 16:33 XEN MID AJ XEN MID Total/NA Prep 8015NM Prep 10.00 g 10 mL 17277 01/19/22 13:48 DM Total/NA Analysis 8015B NM 17214 01/20/22 03:02 AJ XEN MID Soluble Leach DI Leach 5.02 g 50 mL 17254 01/19/22 11:43 CH XEN MID

**Client Sample ID: FS06** Lab Sample ID: 890-1838-6 Date Collected: 01/13/22 10:35 **Matrix: Solid** 

5

Date Received: 01/18/22 11:49

Analysis

300.0

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17131	01/19/22 16:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17325	01/20/22 19:38	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 03:23	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 17:42	CH	XEN MID

**Client Sample ID: FS07** Lab Sample ID: 890-1838-7

Date Collected: 01/13/22 10:42 Date Received: 01/18/22 11:49

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17388	01/21/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 00:54	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.04 g	10 mL	17277 17214	01/19/22 13:48 01/20/22 03:43	DM AJ	XEN MID XEN MID

**Eurofins Carlsbad** 

XEN MID

**Matrix: Solid** 

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1

SDG: 31403360.003

**Client Sample ID: FS07** 

Date Collected: 01/13/22 10:42 Date Received: 01/18/22 11:49

Lab Sample ID: 890-1838-7

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/19/22 17:49	CH	XEN MID

**Client Sample ID: FS08** Lab Sample ID: 890-1838-8

Date Collected: 01/13/22 10:46 Date Received: 01/18/22 11:49

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17388	01/21/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17427	01/22/22 01:15	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			17647	01/24/22 16:52	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17214	01/20/22 04:04	AJ	XEN MID
Soluble	Leach	DI Leach			5.04 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		1			17294	01/19/22 17:57	CH	XEN MID

**Client Sample ID: FS09** Lab Sample ID: 890-1838-9

Date Collected: 01/13/22 10:55 Date Received: 01/18/22 11:49

**Matrix: Solid** 

Lab

XEN MID

Batch Dil Initial Final Batch Batch Prepared Prep Type Туре Method Run Factor Amount Amount Number or Analyzed Analyst Prep Total/NA 5035 5.02 g 5 mL 17388 01/21/22 07:30 KL Total/NA Analysis 8021B 5 mL 5 mL 17427 01/22/22 01:35

Total/NA	Analysis	8021B	1	5 mL	5 mL	17427	01/22/22 01:35	KL	XEN MID
Total/NA	Analysis	Total BTEX	1			17693	01/25/22 11:51	AJ	XEN MID
Total/NA	Analysis	8015 NM	1			17641	01/24/22 16:33	AJ	XEN MID
Total/NA	Prep	8015NM Prep		10.01 g	10 mL	17277	01/19/22 13:48	DM	XEN MID
Total/NA	Analysis	8015B NM	1			17214	01/20/22 04:25	AJ	XEN MID
Soluble	Leach	DI Leach		4.96 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0	5			17294	01/19/22 18:19	CH	XEN MID

Laboratory References:

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

#### **Accreditation/Certification Summary**

Client: WSP USA Inc. Job ID: 890-1838-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

#### **Laboratory: Eurofins Midland**

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

Authority	Pr	ogram	Identification Number	Expiration Date				
Texas	NE	ELAP	T104704400-21-22	06-30-22				
The following analytes	are included in this report, but							
the agency does not of	• •		ou zy alio go rollinig danielity.	ay molade dhalytee lei				
the agency does not of Analysis Method	• •	he laboratory is not certified by the governing authority. This list may include analytes for which  Matrix  Analyte						
0 ,	fer certification.	,	, , ,					

#### **Method Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1

SDG: 31403360.003

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

#### **Protocol References:**

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Carlsbad** 

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#### **Sample Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1838-1

SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1838-1	FS01	Solid	01/13/22 10:10	01/18/22 11:49	2.5
890-1838-2	FS02	Solid	01/13/22 10:15	01/18/22 11:49	2.5
890-1838-3	FS03	Solid	01/13/22 10:20	01/18/22 11:49	2.5
890-1838-4	FS04	Solid	01/13/22 10:24	01/18/22 11:49	2.5
890-1838-5	FS05	Solid	01/13/22 10:28	01/18/22 11:49	2.5
890-1838-6	FS06	Solid	01/13/22 10:35	01/18/22 11:49	2.5
890-1838-7	FS07	Solid	01/13/22 10:42	01/18/22 11:49	2.5
890-1838-8	FS08	Solid	01/13/22 10:46	01/18/22 11:49	2.5
890-1838-9	FS09	Solid	01/13/22 10:55	01/18/22 11:49	2.5

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Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334 **Chain of Custody** 

	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the contropy of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed		FS09 S 1.13.22	FS08 S 1.13.22	FS07 S 1.13.22	FS06 S 1.13.22	FS05 S 1.13.22	FS04 S 1.13.22	FS03 S 1.13.22	FS02 S 1.13.22	FS01 S 1.13.22	Sample Identification Matrix Sampled	Sample Custody Seals: Yes No WA T	Cooler Custody Seals: Yes No MA Co	Received Intact: (Yes) No 1-W	Temperature (°C): $5.9 / 5.6$	SAMPLE RECEIPT Temp Blank: Yes No	Sampler's Name: Gilbert Moreno	Incident ID: nAPP2123361366	Project Number: 31403360.003	Project Name: East Pecos Federal 22 #003H	Phone 281-702-2329	City, State ZIP: Midland, TX 79705	Address: 3300 North A Street	Company Name: WSP	Project Manager: Joseph Hernandez
Received by: (Signature)	constitutes a valid purchase order fill not assume any responsibility foct and a charge of \$5 for each sam	8RCRA 13PPM Texas 11 A TCLP / SPLP 6010: 8RCRA		2 10:55 2.5	2 10:46 2.5	2 10:42 2.5	2 10:35 2.5	2 10:28 2.5	2 10:24 2.5	2 10:20 2.5	2 10:15 2.5	2 10:10 2.5	Time Depth	Total Containers:	Correction Factor: -0.2	18-8	The	No Wet Ice: Xes No	Due Date:	Rush: 24 HR	Routine	Turn Around	Email Anna.Byer	City, State 2	Address	Company Name	Bull to: (if different)
Date/Time Relinquished by: (\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	nature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions  Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control  A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	I Sb As Ba Be B Cd Ca Cr Co Cu Sb As Ba Be Cd Cr Co Cu Pb Mn	*	×	×	×	×	×	×	×	×	×	Number TPH (El BTEX (I	PA 8	015) 0=80	021)	890-1					ANALYSIS REQUEST	Anna.Byers@wsp.com,_	Carlsbad, NM 88220	5315 Buena Vista Dr.		Ball to: (if different) Jim Raley
(Signature) Received by: (Signature) Date/Time	and subcontractors. It assigns standard terms and conditions client if such losses are due to circumstances beyond the control These terms will be enforced unless previously negotiated.	Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Ti Sn U V Zn Mo Ni Se Ag Ti U 1631/245.1/7470 /7471: Hg		Si What		CL-24HR Kish	Stant Sample						Sample Comments	lab, if received by 4:30pm	TAT starts the day recevied by the		838 Chain of Custody		AP)		CC 1061208201	REQUEST Work Order Notes	Deliverables: EDD ADaPT Other:	ULevelIII UPST/UST UR	3	Program: UST/PST □PRP □Brownfields ¬RC □Superfund	Work Order Comments

Work Order No:

Revised Date 051418 Rev. 2018 1

# **Chain of Custody**

LABC	LABORATORIES	u ·	Hoobba	Houston, Midland	Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210)  Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)7',  Hobbs NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tamp	200 Da 5440) E	Dallas,TX (214) 902-0300 San Antonio,TX (210) EL Paso,TX (915)585-3443 Lubbock,TX (806)7- 480-355-0900) Atlanta,GA (770-449-8800) Tami	(214) 9( TX (915	)2-0300 )585-34 lanta G/	San Ar 43 Lub	ntonio,T bock,TX	x (210) (806)7 )) Tamı	509-3334 94-1296 pa,FL (813-620-2000)	34 3 3 3 13-620	J-2000)	www.xenco.com	.com Page	ಲ ಇ ಲ
Project Manager	Joseph Hernandez	lez			(if different)		Jim Raley	iley								Work Or	Work Order Comments	
Company Name:	WSP				Company Name		WPX Energy	nergy						7	rograi	Program: UST/PST □PRP □Brownfields	3rownfields RRC	kC □Superfund □
	3300 North A Street	reet			Address		5315 E	5315 Buena Vista Dr	/ista Dı					_	Stat			]
te ZIP:	Midland, TX 79705	705			City, State ZIP	Ō	Carlsb	Carlsbad, NM 88220	88220					70	eportin	Reporting:Level III Level III		HRRP Level IV
	281-702-2329			Email	Anna.Byers@wsp.com	@wsp.	com,	ļ						Г	elivera	Deliverables: EDD/	ADaPT -	Other:
Project Name:	East Pecos Federal 22 #003H	ral 22 #0	)03Н	Tu	Turn Around						AN	ANALYSIS REQUEST	SREC	UES.			Wc	Work Order Notes
100	31403360.003			Routi	Routine 😾						L				4	-	CC 106	1208201
Incident ID:	nAPP2123361366	66		Rush						_	_						AFE	
Sampler's Name:	Gilbert Moreno			Due Date	Date:												API	
SAMPLE RECEIPT		Temp Blank:	Yes No	Wet Ice:	No No													
Temperature (°C):	5.8 /	5.6	Т	Thermometer ID	ō	ners			)				_					
Received Intact:	Mes (	8	TIN	m-00	1	nta	)	021)	300.0									
Cooler Custody Seals:		MAX	Correc	Correction Factor:	€ 0.2	f Co	015	0=8	PA:						_		TAT stan	TAT starts the day recevied by the
Sample Custody Seals:	Yes No	(Ne	Total	Total Containers:		er o	PA 8	EPA	de (E			_					iab	lab, if received by 4.30pm
Sample Identification	fication	Matrix	Date Sampled	Time Sampled	Depth	Numb	TPH (E	BTEX (	Chloric								Sar	Sample Comments
FS01		S	1.13.22	10:10	2.5	1	×	×			_	_	_	<u> </u>				
FS02		S	1.13.22	10:15	2.5	_	×	×			_	_			_			
FS03		S	1.13.22	10:20	2.5	_	×	×					_	-	L			
FS04		S	1.13.22	10:24	2.5	_	×	×	ļ -									
FS05		S	1.13.22	10:28	2.5	_	×	×		_	_	-	-	L				
FS06		S	1.13.22	10:35	2.5	_	×	×	_		_	-	-	-	L			
FS07		S	1.13.22	10:42	2.5	->	×	×	_		L	-	-	_	igspace			
FS08		S	1.13.22	10:46	2.5		×	×	_	L	-	_	$\vdash$	-	-			
FS09		S	1.13.22	10:55	2.5		×	×		_	_		J.	3	V			
1		1					Ц		$\parallel$		1	X	1	1				
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	10 200.8 / 6020:  and Metal(s) to be	)20: o be ana	8	8RCRA 13PPM TCLP / SPLP 6	RCRA 13PPM Texas 11 A		Sp / SP	-	Be B	ပ္ ပိ	Ca Cr Co Cu	Cr Co Cu Fe Pb Mg Mn Cu Pb Mn Mo Ni Se Ag	u Fe In Mo	Pb N	Mg Mir Se Ag	Mo Ni K Se Ag TI U	SiO2 Na Sr TI Sn U V 1631 / 245.1 / 7470	Sn U V Zn 1/7470 /7471 : Hg
															hac hac	terms and conditions		
Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	cument and relinqui able only for the cos ge of \$75.00 will be	shment of t of sample applied to a	samples consti	itutes a valid pu t assume any re d a charge of \$5	rchase order fro sponsibility for a for each sample	m client any losse e submit	compan s or exp ted to Xe	y to Xen enses ir	co, its at curred t not ana	filiates a by the cli lyzed. T	nd subcent if su	ontracto ch losse ns will b	s are du e enforc	e to cir	tandard cumstar	terms and conditions terms and conditions tees beyond the control iously negotiated.		
Relinquished by: (Signature)	(Signature)		Received	Received by: (Signature)	lre)		Date/Time	Time		Re_	Relinquished by	ned by	: (Sign	(Signature)		Received by: (Signature)	gnature)	Date/Time
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'n									6						_			

Revised Date 051418 Rev. 2018.1

Empty Kit Relinquished by Deliverable Requested

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Other (specify)

Primary Deliverable Rank 2

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) () ()

Date/Time

Company Company

Ime

Method of Shipment

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 Mon

)ate/Time Date/Time

Company

Cooler Temperature(s) °C and Other Remarks

Company

Ver 06/08/2021

Company

elinquished by elinquished by

Custody Seal No

Possible Hazard Identification

Note Since laboratory accreditations are subject to change Eurofins South Central 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 naintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed. The samples must be shipped back to the Eurofins South Central laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins South Central attention immediately. If all requested accreditations are current to date return the signed Chain of Custody attesting to said complicance to Eurofins South Central

FS07 (890-1838-7)

FS06 (890-1838-6) FS05 (890-1838-5) FS04 (890-1838-4) FS03 (890-1838-3)

1/13/22

Mountain 10 24 Mountain 10 20

1/13/22

Mountain 10 28 Mountain 10 35

Solid

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1/13/22

1/13/22 1/13/22

Mountain 10 15

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FS09 (890-1838-9) FS08 (890-1838-8)

1/13/22 1/13/22 1/13/22

Mountain 10 55 Mountain 10 46 Mountain 10 42

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Solid Solid

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Mountain

FS02 (890-1838-2)

FS01 (890-1838-1)

Sample Identification - Client ID (Lab ID)

Sample Date

Sample Time

G=grab) (C=Comp Sample

Type

Matrix

Perform MS/MSD (Yes or No)

8021B/6036FP\_Calc BTEX

Total Number of containers

J DI Water K EDTA L EDA

other (specify)

A HCL
B Nah
C Zn Acetate
D Nitric Acid
E NaHSO4
F MeOH
G Amchlor
H Ascorbic Acid

V None

A ANADO

A ANADO

NAZOAS

NAZSO3

NAZSO3

NAZSO3

V NAZSO3

V NAZSOO

A NAZSOO

8015MOD Calo

Total\_BTEX\_GCV

300\_ORGFM\_28D/DI\_LEACH Chloride

8015MOD NM/8015NM S Prep Full TPH

Preservation Code:

Carlsbad NM 88220

1089 N Canal St

State Zip TX, 79701

Midland

1211 W Florida Ave

Due Date Requested 1/19/2022

TAT Requested (days):

Eurofins Environment Testing South Centre

Shipping/Receiving

432-704-5440(Tel)

East Pecos Fewderal 22 #003h

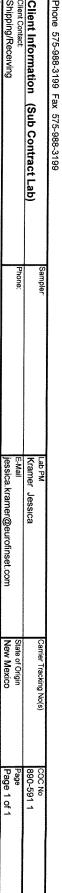
Project #: 88000203

WO#: PO#

roject Name:

**Eurofins Carlsbad** 

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**NELAP - Texas** Accreditations Required (See note)

Analysis Requested

Preservation Codes 390-1838-1 Chain of Custody Record

💸 eurofins

**Environment Testing** 

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Special Instructions/Note

#### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1838-1 SDG Number: 31403360.003

List Source: Eurofins Carlsbad

Login Number: 1838 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	

#### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1838-1

SDG Number: 31403360.003

**List Source: Eurofins Midland** 

List Creation: 01/19/22 01:26 PM

List Number: 2 Creator: Kramer, Jessica

Login Number: 1838

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

**Eurofins Carlsbad** 

<6mm (1/4").



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1847-1

Laboratory Sample Delivery Group: 31403360.003 Client Project/Site: East Pecos Federal 22 # 003h

For:

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

Attn: Joseph Hernandez

MAMER

Authorized for release by: 1/20/2022 4:45:50 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

**Have a Question?** 



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www.eurofinsus.com/Env
Released to Imaging: 3/16/2022 1:23:43 PM

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: East Pecos Federal 22 # 003h Laboratory Job ID: 890-1847-1 SDG: 31403360.003

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Eurofins Carlsbad 1/20/2022

#### **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1847-1 Project/Site: East Pecos Federal 22 # 003h

SDG: 31403360.003

#### **Qualifiers**

#### HPLC/IC

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

Method Quantitation Limit

Practical Quantitation Limit

Relative Error Ratio (Radiochemistry)

Toxicity Equivalent Factor (Dioxin)

Too Numerous To Count

Toxicity Equivalent Quotient (Dioxin)

Reporting Limit or Requested Limit (Radiochemistry)

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

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

Not Calculated

Negative / Absent

Positive / Present

Presumptive

**Quality Control** 

#### Clossary

MQL

NC

ND NEG

POS

PQL

QC

RER

RL RPD

TEF

TEQ

**TNTC** 

**PRES** 

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

#### **Case Narrative**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 # 003h

Job ID: 890-1847-1

SDG: 31403360.003

Job ID: 890-1847-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-1847-1

#### Receipt

The samples were received on 1/19/2022 8:14 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 0.8°C

#### HPLC/IC

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

Matrix: Solid

Project/Site: East Pecos Federal 22 # 003h

Client: WSP USA Inc. SDG: 31403360.003

**Client Sample ID: FS11** Lab Sample ID: 890-1847-1

Date Collected: 01/18/22 12:13 Matrix: Solid Date Received: 01/19/22 08:14

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	949		24.9		mg/Kg			01/20/22 14:10	5

**Client Sample ID: FS13** Lab Sample ID: 890-1847-2

Date Collected: 01/18/22 12:15 Date Received: 01/19/22 08:14

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
	Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1370	24.8		mg/Kg	_		01/20/22 14:18	5

**Client Sample ID: FS15** Lab Sample ID: 890-1847-3 Matrix: Solid

Date Collected: 01/18/22 12:17 Date Received: 01/19/22 08:14

Sample Depth: 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1070		24.9		mg/Kg			01/20/22 14:25	5

**Client Sample ID: SW03** Lab Sample ID: 890-1847-4 **Matrix: Solid** 

Date Collected: 01/18/22 12:25 Date Received: 01/19/22 08:14

Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble  Analyte Result Qualifier RL MDL Unit D Prepared Analyzed							
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1390	24.9	mg/Kg		_	01/20/22 14:33	5

Client Sample ID: SW04 Lab Sample ID: 890-1847-5

Date Collected: 01/18/22 12:27 Date Received: 01/19/22 08:14

Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chron	natography - Sol	luble						
Analyte	Result Qu	ualifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	1030	25.0		mg/Kg			01/20/22 14:41	5

**Client Sample ID: SW05** Lab Sample ID: 890-1847-6

Date Collected: 01/18/22 12:30 Date Received: 01/19/22 08:14

Released to Imaging: 3/16/2022 1:23:43 PM

Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chromatography - Soluble										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	1850		25.0		mg/Kg			01/20/22 14:48	5

**Eurofins Carlsbad** 

**Matrix: Solid** 

**Matrix: Solid** 

Client Sample ID: Method Blank

Client Sample ID: Lab Control Sample

Client Sample ID: Lab Control Sample Dup

**Prep Type: Soluble** 

Client Sample ID: Matrix Spike

Client Sample ID: Matrix Spike Duplicate

Client: WSP USA Inc.

Job ID: 890-1847-1 Project/Site: East Pecos Federal 22 # 003h SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-17254/1-A

**Matrix: Solid** 

Analysis Batch: 17294

MB MB

MDL Unit Analyte Result Qualifier RL D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 01/19/22 15:48

Lab Sample ID: LCS 880-17254/2-A

**Matrix: Solid** 

Analysis Batch: 17294

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 269.0 mg/Kg 108 90 - 110

Lab Sample ID: LCSD 880-17254/3-A

**Matrix: Solid** 

Analysis Batch: 17294

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 267.6 107 20 mg/Kg 90 - 110

Lab Sample ID: 890-1838-A-8-C MS

**Matrix: Solid** 

Analysis Batch: 17294

MS MS Sample Sample Spike %Rec. Analyte Result Qualifier Added Qualifier %Rec Result Unit Limits 709.0 Chloride 445 248 107 90 - 110 mg/Kg

Lab Sample ID: 890-1838-A-8-D MSD

**Matrix: Solid** 

Analysis Batch: 17294

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 248 445 705.1 mg/Kg 105 90 - 110 20

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 # 003h

Job ID: 890-1847-1 SDG: 31403360.003

#### HPLC/IC

#### Leach Batch: 17254

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1847-1	FS11	Soluble	Solid	DI Leach	
890-1847-2	FS13	Soluble	Solid	DI Leach	
890-1847-3	FS15	Soluble	Solid	DI Leach	
890-1847-4	SW03	Soluble	Solid	DI Leach	
890-1847-5	SW04	Soluble	Solid	DI Leach	
890-1847-6	SW05	Soluble	Solid	DI Leach	
MB 880-17254/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17254/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17254/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1838-A-8-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1838-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 17294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1847-1	FS11	Soluble	Solid	300.0	17254
890-1847-2	FS13	Soluble	Solid	300.0	17254
890-1847-3	FS15	Soluble	Solid	300.0	17254
890-1847-4	SW03	Soluble	Solid	300.0	17254
890-1847-5	SW04	Soluble	Solid	300.0	17254
890-1847-6	SW05	Soluble	Solid	300.0	17254
MB 880-17254/1-A	Method Blank	Soluble	Solid	300.0	17254
LCS 880-17254/2-A	Lab Control Sample	Soluble	Solid	300.0	17254
LCSD 880-17254/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17254
890-1838-A-8-C MS	Matrix Spike	Soluble	Solid	300.0	17254
890-1838-A-8-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17254

**Eurofins Carlsbad** 

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Date Received: 01/19/22 08:14

Job ID: 890-1847-1

Client: WSP USA Inc. Project/Site: East Pecos Federal 22 # 003h SDG: 31403360.003

**Client Sample ID: FS11** Lab Sample ID: 890-1847-1 Date Collected: 01/18/22 12:13

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.02 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:10	CH	XEN MID

**Client Sample ID: FS13** Lab Sample ID: 890-1847-2

Date Collected: 01/18/22 12:15 Matrix: Solid

Date Received: 01/19/22 08:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.05 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:18	CH	XEN MID

**Client Sample ID: FS15** Lab Sample ID: 890-1847-3

Date Collected: 01/18/22 12:17 Matrix: Solid

Date Received: 01/19/22 08:14

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.03 g	50 mL	17254	01/19/22 11:43	СН	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:25	CH	XEN MID

**Client Sample ID: SW03** Lab Sample ID: 890-1847-4

Date Collected: 01/18/22 12:25 Date Received: 01/19/22 08:14

300.0

Batch Batch Dil Batch Initial Final Prepared Method Amount Number **Prep Type** Type Run Factor Amount or Analyzed Analyst Lab Soluble Leach DI Leach 5.02 g 50 mL 17254 01/19/22 11:43 CH XEN MID

5

Client Sample ID: SW04 Lab Sample ID: 890-1847-5

17294

17294

01/20/22 14:33

01/20/22 14:48

СН

Date Collected: 01/18/22 12:27 Date Received: 01/19/22 08:14

Analysis

Soluble

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			5.01 g	50 mL	17254	01/19/22 11:43	CH	XEN MID
Soluble	Analysis	300.0		5			17294	01/20/22 14:41	CH	XEN MID

**Client Sample ID: SW05** Lab Sample ID: 890-1847-6

Date Collected: 01/18/22 12:30 **Matrix: Solid** Date Received: 01/19/22 08:14

Batch Batch Dil Initial Final Batch Prepared Prep Type Туре Method Run Amount Amount Number or Analyzed Analyst Factor Lab DI Leach 17254 СН XEN MID Soluble Leach 5 g 50 mL 01/19/22 11:43

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**Laboratory References:** 

Soluble

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

300.0

**Eurofins Carlsbad** 

**Matrix: Solid** 

XEN MID

**Matrix: Solid** 

XEN MID

Analysis

#### **Accreditation/Certification Summary**

 Client: WSP USA Inc.
 Job ID: 890-1847-1

 Project/Site: East Pecos Federal 22 # 003h
 SDG: 31403360.003

**Laboratory: Eurofins Midland** 

The accreditations/certifications listed below are applicable to this report.

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

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#### **Method Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 # 003h

Job ID: 890-1847-1

SDG: 31403360.003

Method	Method Description	Protocol	Laboratory
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

#### Protocol References:

ASTM = ASTM International

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

#### Laboratory References:

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

#### Sample Summary

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 # 003h

Job ID: 890-1847-1

SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1847-1	FS11	Solid	01/18/22 12:13	01/19/22 08:14	4.5
890-1847-2	FS13	Solid	01/18/22 12:15	01/19/22 08:14	4.5
890-1847-3	FS15	Solid	01/18/22 12:17	01/19/22 08:14	4.5
890-1847-4	SW03	Solid	01/18/22 12:25	01/19/22 08:14	0 - 4.5
890-1847-5	SW04	Solid	01/18/22 12:27	01/19/22 08:14	0 - 4.5
890-1847-6	SW05	Solid	01/18/22 12:30	01/19/22 08:14	0 - 4.5

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**Chain of Custody** 

			Hopps,	VM (5/5-392-	7550) Prioenix,	AZ (40U-3	00-000	Allailla,	Hobbs, NM (5/5-392-/550) Phoenix, AZ (480-355-0900) Atlanta, GA (7/0-449-8800) Tampa, FC (	pa, r. (013-020-2000)	
Project Manager: J	Joseph Hernandez	Ze			: (if different)		Jim Raley			Work Order Comments	rents
Company Name: V	WSP			0	Company Name		WPX Energy	rgy		Program: UST/PST PRP Brownfields	fields RRC Superfund
	3300 North A Street	eet			Address	53	15 Buer	5315 Buena Vista Dr.	ī.		]
City, State ZIP: N	Midland, TX 79705	55			City. State ZIP		arlsbad,	Carlsbad, NM 88220	0	Reporting:Level III Level III LPST/UST	UST YRRP Level IV
	281-702-2329			Email /	Anna.Byers@wsp.com	ນwsp.co	Ä			Deliverables: EDD ADaPT	Other:
Project Name: E	East Pecos Federal 22 #003H	al 22 #003	Ĩ	Tur	Turn Around				ANALYSIS REQUEST	NEST	Work Order Notes
:16	31403360.003			Routine	Je [						CC 1081208201
Incident ID:	nAPP2123361366	6		Rush: 24HR	24HR				_		AFE
Sampler's Name:	Gilbert Moreno			Due Date	ate:						API
SAMPLE RECEIPT		[emp Blank:	(es) No	Wet Ice:	No No						
Temperature (°C):	<u>.</u> 0			_ [	0	ners		,			
Received Intact:	Yes) I	No .	M	LOOT WIN		ntai	21)		890-1847 Ch	890-1847 Chain of Custody	
Cooler Custody Seals:	Yes No	(N/A)	Correct	Correction Factor:	0.2						TAT starts the day recevied by the
Sample Custody Seals:	Yes	RIE	Total (	Total Containers:				-			lab, if received by 4:30pm
Sample Identification		Matrix Sa	Date Sampled	Time Sampled	Depth	Numb	TPH (E BTEX (	Chloric			Sample Comments
FS11		S 1	1.18.22	12:13	4.5			×			
FS13		S 1	1.18.22	12:15	4.5			×			
FS15		S 1	1.18.22	12:17	4.5	_		×			
SW03		S	1.18.22	12:25	0-4.5			×			
SW04		S	1.18.22		0-4.5	_		×			
SW05		S 1	1.18.22	12:30	0-4.5			×			
					0			-	972		
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					1	-					
Total 200.7 / 6010 200.8 / 6020: Circle Method(s) and Metal(s) to be analyzed	10 200.8 / 6020: and Metal(s) to be	20: be analyz	œ	8RCRA 13PPM	RCRA 13PPM Texas 11 A	- 1	Sb As Ba Sb As Ba	Be	B Cd Ca Cr Co Cu Fe Pb Cd Cr Co Cu Pb Mn Mo Ni	Mg Mn Mo Ni K Se Ag SiO2 Se Ag Tl U	Na Sr Tl Sn U V Zn 1631 / 245.1 / 7470 / 7471 : Hg
Notice: Signature of this do	cument and relinquis	hment of sam	ples constitu	utes a valid pur	chase order fron	n client co	mpany to	Xenco, its	iffiliates and subcontractors. It as by the client if such losses are du	Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control	
	ge of \$75.00 will be a	plied to each	project and	a charge of \$5	for each sample	submitted	to Xenco	, but not a	alyzed. These terms will be enfor	A minimum charge of \$75.00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	
Relinquished by: (Signature)	(Signature)	) R	eceived b	Received by: (Signature)	(e)	0	Date/Time	ie	Relinquished by: (Sig	(Signature) Received by: (Signature)	re) Date/Time
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Revised Date 051418 Rev 2018 1

#### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1847-1
SDG Number: 31403360.003

List Source: Eurofins Carlsbad

Login Number: 1847 List Number: 1 Creator: Clifton, Cloe

Sample bottles are completely filled.

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

Containers requiring zero headspace have no headspace or bubble is

Sample Preservation Verified.

MS/MSDs

<6mm (1/4").

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

True

N/A

True

N/A

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# **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1847-1 SDG Number: 31403360.003

List Source: Eurofins Midland

List Creation: 01/20/22 11:57 AM

List Number: 2 Creator: Rodriguez, Leticia

Login Number: 1847

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

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<6mm (1/4").



# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1858-1

Laboratory Sample Delivery Group: 31403360.003 Client Project/Site: East Pecos Federal 22 # 003H

For:

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

Attn: Joseph Hernandez

JURAMER

Authorized for release by: 1/28/2022 3:35:37 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

**Have a Question?** 



Visit us at:

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www.eurofinsus.com/Env

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

intended to be the legally binding equivalent of a traditionally handwritten signature.

This report has been electronically signed and authorized by the signatory. Electronic signature is

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Client: WSP USA Inc.

Laboratory Job ID: 890-1858-1

Project/Site: East Pecos Federal 22 # 003H

SDG: 31403360.003

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### **Definitions/Glossary**

Client: WSP USA Inc. Job ID: 890-1858-1 Project/Site: East Pecos Federal 22 # 003H

SDG: 31403360.003

**Qualifiers** 

**GC VOA** 

Qualifier **Qualifier Description** 

Indicates the analyte was analyzed for but not detected.

**GC Semi VOA** 

Qualifier **Qualifier Description** 

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

**HPLC/IC** 

Qualifier **Qualifier Description** 

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)

Estimated Detection Limit (Dioxin) **EDL** LOD Limit of Detection (DoD/DOE) LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit Minimum Level (Dioxin) ML 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 Positive / Present POS **PQL Practical Quantitation Limit** 

**PRES** Presumptive

QC **Quality Control** 

RER Relative Error Ratio (Radiochemistry)

Reporting Limit or Requested Limit (Radiochemistry) RL

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

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

**TNTC** Too Numerous To Count

#### **Case Narrative**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1

SDG: 31403360.003

Job ID: 890-1858-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-1858-1

#### Receipt

The samples were received on 1/21/2022 4:46 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 8.0°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: Surrogate recovery for the following samples were outside control limits: (LCS 880-17749/2-A), (LCSD 880-17749/3-A) and (890-1863-A-1-E MS). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

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

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Client: WSP USA Inc.

Job ID: 890-1858-1

Project/Site: East Peace Federal 23 # 002H

SDC: 31402360 002

Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

Client Sample ID: FS06

Lab Sample ID: 890-1858-1

Date Collected: 01/21/22 10:55

Matrix: Solid

Date Received: 01/21/22 16:46 Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 15:26	
Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 15:26	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 15:26	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/25/22 07:13	01/25/22 15:26	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 15:26	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/25/22 07:13	01/25/22 15:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	126		70 - 130				01/25/22 07:13	01/25/22 15:26	-
1,4-Difluorobenzene (Surr)	102		70 - 130				01/25/22 07:13	01/25/22 15:26	
Method: Total BTEX - Total BTEX	( Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00399	U	0.00399		mg/Kg			01/28/22 14:15	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	62.1		50.0		mg/Kg			01/27/22 16:10	1
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/26/22 08:19	01/26/22 17:26	1
Diesel Range Organics (Over C10-C28)	62.1		50.0		mg/Kg		01/26/22 08:19	01/26/22 17:26	,
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:19	01/26/22 17:26	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	72		70 - 130				01/26/22 08:19	01/26/22 17:26	
o-Terphenyl	72		70 - 130				01/26/22 08:19	01/26/22 17:26	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
	Decult	Qualifier	RL	MDI	Linit	D	Dronored	Anglyzod	
Analyte	Result	Qualifier	KL	MDL	UIIIL	D	Prepared	Analyzed	Dil Fac

Client Sample ID: FS07 Lab Sample ID: 890-1858-2

4.97

mg/Kg

Date Collected: 01/21/22 11:10
Date Received: 01/21/22 16:46

589

Sample Depth: 3

Chloride

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/25/22 07:13	01/25/22 15:47	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/25/22 07:13	01/25/22 15:47	1

**Eurofins Carlsbad** 

01/27/22 20:59

**Matrix: Solid** 

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1/20/2022

Client: WSP USA Inc. Job ID: 890-1858-1

Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

Lab Sample ID: 890-1858-2 **Client Sample ID: FS07** 

Date Collected: 01/21/22 11:10 Matrix: Solid Date Received: 01/21/22 16:46

Sample Depth: 3

Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	108		70 - 130				01/25/22 07:13	01/25/22 15:47	1
Method: Total BTEX - Total BTEX	( Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402		mg/Kg			01/28/22 14:15	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			01/27/22 16:10	
` '	<49.9		49.9		mg/Kg		01/25/22 14:20	01/26/22 06:40	
(GRO)-C6-C10 Diesel Range Organics (Over	<49.9		49.9		mg/Kg		01/25/22 14:20	01/26/22 06:40	
C10-C28)									
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/25/22 14:20	01/26/22 06:40	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	78		70 - 130				01/25/22 14:20	01/26/22 06:40	
o-Terphenyl	91		70 - 130				01/25/22 14:20	01/26/22 06:40	
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
· ····· <b>,</b> · ·									

# **Surrogate Summary**

 Client: WSP USA Inc.
 Job ID: 890-1858-1

 Project/Site: East Pecos Federal 22 # 003H
 SDG: 31403360.003

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)	
880-10483-A-31-D MS	Matrix Spike	103	105	
880-10483-A-31-E MSD	Matrix Spike Duplicate	106	99	
890-1858-1	FS06	126	102	
890-1858-2	FS07	107	108	
LCS 880-17651/1-A	Lab Control Sample	96	106	
LCSD 880-17651/2-A	Lab Control Sample Dup	101	99	
MB 880-17651/5-A	Method Blank	104	90	

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

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

Matrix: Solid Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limit
		1CO1	OTPH1	
b Sample ID	Client Sample ID	(70-130)	(70-130)	
0-10455-A-1-F MS	Matrix Spike	76	80	
0-10455-A-1-G MSD	Matrix Spike Duplicate	75	77	
0-1858-1	FS06	72	72	
-1858-2	FS07	78	91	
-1863-A-1-E MS	Matrix Spike	73	69 S1-	
-1863-A-1-F MSD	Matrix Spike Duplicate	77	73	
880-17729/2-A	Lab Control Sample	108	118	
880-17749/2-A	Lab Control Sample	131 S1+	125	
SD 880-17729/3-A	Lab Control Sample Dup	102	112	
SD 880-17749/3-A	Lab Control Sample Dup	137 S1+	140 S1+	
3 880-17729/1-A	Method Blank	92	111	
3 880-17749/1-A	Method Blank	106	119	

1CO = 1-Chlorooctane

OTPH = o-Terphenyl

Job ID: 890-1858-1 Project/Site: East Pecos Federal 22 # 003H

SDG: 31403360.003

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

Lab Sample ID: MB 880-17651/5-A

Analysis Batch: 17652

**Matrix: Solid** 

Lab Sample ID: LCS 880-17651/1-A

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17651

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Benzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
I	Toluene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
I	Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
I	m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
	o-Xylene	<0.00200	U	0.00200		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
	Xylenes, Total	< 0.00400	U	0.00400		mg/Kg		01/25/22 07:13	01/25/22 10:38	1
ı										

MB MB

Surrogate	%Recovery	Qualifier	Limits	P	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		70 - 130	01/2	25/22 07:13	01/25/22 10:38	1
1,4-Difluorobenzene (Surr)	90		70 - 130	01/2	25/22 07:13	01/25/22 10:38	1

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 17651

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08637 mg/Kg 86 70 - 130 Toluene 0.100 0.07496 mg/Kg 75 70 - 130 0.100 77 Ethylbenzene 0.07679 mg/Kg 70 - 130 0.200 0.1563 70 - 130 m-Xylene & p-Xylene mg/Kg 78 0.100 0.07613 70 - 130 o-Xylene mg/Kg 76

LCS LCS

Surrogate	%Recovery Qualifi	er Limits
4-Bromofluorobenzene (Surr)	96	70 - 130
1,4-Difluorobenzene (Surr)	106	70 - 130

Lab Sample ID: LCSD 880-17651/2-A **Client Sample ID: Lab Control Sample Dup** 

**Matrix: Solid** 

**Matrix: Solid** 

Analysis Batch: 17652

Analysis Batch: 17652

Prep Type: Total/NA Prep Batch: 17651

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.09341		mg/Kg		93	70 - 130	8	35
Toluene	0.100	0.08777		mg/Kg		88	70 - 130	16	35
Ethylbenzene	0.100	0.08431		mg/Kg		84	70 - 130	9	35
m-Xylene & p-Xylene	0.200	0.1758		mg/Kg		88	70 - 130	12	35
o-Xylene	0.100	0.08578		mg/Kg		86	70 - 130	12	35

LCSD LCSD

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

Lab Sample ID: 880-10483-A-31-D MS

**Matrix: Solid** 

Analysis Batch: 17652

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

Prep Batch: 17651

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00200	U	0.101	0.09564		mg/Kg	_	95	70 - 130	
Toluene	< 0.00200	U	0.101	0.08614		mg/Kg		85	70 - 130	

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Prep Batch: 17651

## QC Sample Results

Client: WSP USA Inc. Job ID: 890-1858-1 Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

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

Lab Sample ID: 880-10483-A-31-D MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** Analysis Batch: 17652

Sample Sample Spike MS MS %Rec. Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 0.101 Ethylbenzene <0.00200 U 0.08454 84 70 - 130 mg/Kg m-Xylene & p-Xylene <0.00400 0.202 0.1734 mg/Kg 86 70 - 130 o-Xylene <0.00200 U 0.101 0.08391 83 70 - 130 mg/Kg

MS MS

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

Lab Sample ID: 880-10483-A-31-E MSD Client Sample ID: Matrix Spike Duplicate Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 17652** 

Prep Batch: 17651 Sample Sample Spike MSD MSD %Rec. RPD Result Qualifier Result Qualifier RPD Limit Analyte Added Unit %Rec Limits 0.0994 Benzene <0.00200 U 0.09453 mg/Kg 95 70 - 130 35 0.08605 Toluene <0.00200 U 0.0994 mg/Kg 87 70 - 130 0 35 Ethylbenzene <0.00200 U 0.0994 0.09097 mg/Kg 92 70 - 130 35 0.199 0.1887 95 70 - 130 35 m-Xylene & p-Xylene <0.00400 U mg/Kg 8 0.0994 <0.00200 U 0.09057 91 70 - 130 o-Xylene mg/Kg 8

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		70 - 130
1,4-Difluorobenzene (Surr)	99		70 - 130

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

Lab Sample ID: MB 880-17729/1-A

**Matrix: Solid** 

Analysis Batch: 17660

Client Sample ID: Method Blank Prep Type: Total/NA Prep Batch: 17729

	MR	MR							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/25/22 14:20	01/25/22 21:23	1
(GRO)-C6-C10 Diesel Range Organics (Over	<50.0	П	50.0		mg/Kg		01/25/22 14:20	01/25/22 21:23	1
C10-C28)	٠٠٠٠٠	Ü	00.0		mg/rtg		01/20/22 14.20	01/20/22 21:20	
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/25/22 14:20	01/25/22 21:23	1

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepare	d	Analyzed	Dil Fac
1-Chlorooctane	92		70 - 130	01/25/22 14	4:20	01/25/22 21:23	1
o-Terphenyl	111		70 - 130	01/25/22 14	4:20	01/25/22 21:23	1

Lab Sample ID: LCS 880-17729/2-A

**Matrix: Solid** 

Analysis Batch: 17660

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

Prep Batch: 17729

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	937.7		mg/Kg		94	70 - 130	-
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1045		mg/Kg		105	70 - 130	
C10-C28)								

Job ID: 890-1858-1

Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

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

Lab Sample ID: LCS 880-17729/2-A Client Sample ID: Lab Control Sample

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 17660 Prep Batch: 17729

	LCS		
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	108		70 - 130
o-Terphenyl	118		70 - 130

Lab Sample ID: LCSD 880-17729/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 17660 Prep Batch: 17729

Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 911.9 91 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 mg/Kg Diesel Range Organics (Over 1000 1004 100 70 - 13020 C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	102		70 - 130
o-Terphenyl	112		70 - 130

Lab Sample ID: 880-10455-A-1-F MS Client Sample ID: Matrix Spike

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 17660 Prep Batch: 17729

Sample Sample Spike MS MS Analyte Result Qualifier hahhA Result Qualifier Unit D %Rec Limits Gasoline Range Organics <49.9 U 997 1048 mg/Kg 101 70 - 130 (GRO)-C6-C10

Diesel Range Organics (Over <49.9 U 997 1217 mg/Kg 120 70 - 130 C10-C28)

70 - 130

 MS
 MS

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 76
 70 - 130

80

Lab Sample ID: 880-10455-A-1-G MSD

Client Sample ID: Matrix Spike Duplicate

Matrix: Solid Prep Type: Total/NA
Analysis Batch: 17660 Prep Batch: 17729

Sample Sample MSD MSD RPD Spike %Rec. Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits **RPD** Limit <49.9 U 996 1096 106 20 Gasoline Range Organics mg/Kg 70 - 130 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 996 1189 mg/Kg 118 70 - 130 2 20

 Surrogate
 %Recovery
 Qualifier
 Limits

 1-Chlorooctane
 75
 70 - 130

 o-Terphenyl
 77
 70 - 130

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o-Terphenyl

C10-C28)

Job ID: 890-1858-1 Client: WSP USA Inc. Project/Site: East Pecos Federal 22 # 003H

SDG: 31403360.003

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

MD MD

106

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Lab Sample ID: MB 880-17749/1-A

**Matrix: Solid** 

Analysis Batch: 17755

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17749

ı		MB	MB							
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/26/22 08:19	01/26/22 11:10	1
	(GRO)-C6-C10									
	Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/26/22 08:19	01/26/22 11:10	1
	C10-C28)									
	OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/26/22 08:19	01/26/22 11:10	1
		МВ	MB							
1	Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

70 - 130

70 - 130

Lab Sample ID: LCS 880-17749/2-A

**Matrix: Solid** 

1-Chlorooctane

o-Terphenyl

**Analysis Batch: 17755** 

**Client Sample ID: Lab Control Sample** 

01/26/22 11:10

01/26/22 11:10

01/26/22 08:19

01/26/22 08:19

Prep Type: Total/NA

Prep Batch: 17749

	<b>Spike</b>	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	1093		mg/Kg		109	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1153		mg/Kg		115	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 1-Chlorooctane 131 S1+ 70 - 130 o-Terphenyl 125 70 - 130

Lab Sample ID: LCSD 880-17749/3-A

**Matrix: Solid** 

**Analysis Batch: 17755** 

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 17749

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	1000	1100		mg/Kg		110	70 - 130	1	20
(GRO)-C6-C10									
Diesel Range Organics (Over	1000	1225		mg/Kg		122	70 - 130	6	20
C10-C28)									

LCSD LCSD %Recovery Qualifier Limits Surrogate 137 S1+ 70 - 130 1-Chlorooctane 140 S1+ 70 - 130 o-Terphenyl

Lab Sample ID: 890-1863-A-1-E MS

Matrix: Solid

Analysis Batch: 17755

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17749

-	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	<49.9	U	997	1106		mg/Kg		111	70 - 130	
(GRO)-C6-C10										
Diesel Range Organics (Over	<49.9	U	997	964.5		mg/Kg		95	70 - 130	
C10-C28)										

Job ID: 890-1858-1

Project/Site: East Pecos Federal 22 # 003H SDG: 31403360.003

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

Lab Sample ID: 890-1863-A-1-E MS Client Sample ID: Matrix Spike

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17755** Prep Batch: 17749

	IVIS	IVIS		
Surrogate	%Recovery	Qualifier	Limits	
1-Chlorooctane	73		70 - 130	
o-Terphenyl	69	S1-	70 - 130	

Lab Sample ID: 890-1863-A-1-F MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** Prep Type: Total/NA **Analysis Batch: 17755** Prep Batch: 17749

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits RPD Limit <49.9 U 996 1144 115 70 - 1303 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 996 101 <49.9 U 1028 mg/Kg 70 - 1306 20 C10-C28)

MSD MSD %Recovery Surrogate Qualifier Limits 70 - 130 1-Chlorooctane 77 73 70 - 130 o-Terphenyl

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

Lab Sample ID: MB 880-17707/1-A Client Sample ID: Method Blank **Matrix: Solid** 

**Prep Type: Soluble** 

**Analysis Batch: 17737** 

Analyte Result Qualifier RL MDL Unit D Dil Fac Prepared Analyzed Chloride 5.00 <5.00 U mg/Kg 01/27/22 17:51

Lab Sample ID: LCS 880-17707/2-A Client Sample ID: Lab Control Sample Matrix: Solid **Prep Type: Soluble** 

**Analysis Batch: 17737** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit %Rec Limits Chloride 250 274.3 mg/Kg 110 90 - 110

Lab Sample ID: LCSD 880-17707/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 17737** 

Spike LCSD LCSD %Rec. RPD Added Analyte Result Qualifier Unit D %Rec Limits RPD Limit Chloride 250 273.1 109 90 - 110 20 mg/Kg

Lab Sample ID: 890-1857-A-2-D MS Client Sample ID: Matrix Spike

**Matrix: Solid Prep Type: Soluble Analysis Batch: 17737** 

Sample Sample Spike MS MS %Rec.

Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits 250 Chloride 17.4 284.4 mg/Kg 107 90 - 110

# **QC Sample Results**

 Client: WSP USA Inc.
 Job ID: 890-1858-1

 Project/Site: East Pecos Federal 22 # 003H
 SDG: 31403360.003

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 890-1857-A-2-E MSD

Matrix: Solid

Client Sample ID: Matrix Spike Duplicate
Prep Type: Soluble

Matrix: Solid Analysis Batch: 17737

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloride	17.4		250	285.1		mg/Kg		107	90 - 110	0	20

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# **QC Association Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1 SDG: 31403360.003

#### **GC VOA**

#### Prep Batch: 17651

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	5035	
890-1858-2	FS07	Total/NA	Solid	5035	
MB 880-17651/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17651/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17651/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10483-A-31-D MS	Matrix Spike	Total/NA	Solid	5035	
880-10483-A-31-E MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

#### Analysis Batch: 17652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	8021B	17651
890-1858-2	FS07	Total/NA	Solid	8021B	17651
MB 880-17651/5-A	Method Blank	Total/NA	Solid	8021B	17651
LCS 880-17651/1-A	Lab Control Sample	Total/NA	Solid	8021B	17651
LCSD 880-17651/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17651
880-10483-A-31-D MS	Matrix Spike	Total/NA	Solid	8021B	17651
880-10483-A-31-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17651

#### **Analysis Batch: 18058**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	Total BTEX	
890-1858-2	FS07	Total/NA	Solid	Total BTEX	

#### **GC Semi VOA**

#### Analysis Batch: 17660

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-2	FS07	Total/NA	Solid	8015B NM	17729
MB 880-17729/1-A	Method Blank	Total/NA	Solid	8015B NM	17729
LCS 880-17729/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17729
LCSD 880-17729/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17729
880-10455-A-1-F MS	Matrix Spike	Total/NA	Solid	8015B NM	17729
880-10455-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17729

#### Prep Batch: 17729

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-2	FS07	Total/NA	Solid	8015NM Prep	<u> </u>
MB 880-17729/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17729/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17729/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10455-A-1-F MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10455-A-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

#### Prep Batch: 17749

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	8015NM Prep	
MB 880-17749/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-17749/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-17749/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1863-A-1-E MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1863-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

# **QC Association Summary**

 Client: WSP USA Inc.
 Job ID: 890-1858-1

 Project/Site: East Pecos Federal 22 # 003H
 SDG: 31403360.003

GC Semi VOA

#### Analysis Batch: 17755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	8015B NM	17749
MB 880-17749/1-A	Method Blank	Total/NA	Solid	8015B NM	17749
LCS 880-17749/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	17749
LCSD 880-17749/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	17749
890-1863-A-1-E MS	Matrix Spike	Total/NA	Solid	8015B NM	17749
890-1863-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	17749

#### Analysis Batch: 17951

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Total/NA	Solid	8015 NM	
890-1858-2	FS07	Total/NA	Solid	8015 NM	

#### **HPLC/IC**

#### Leach Batch: 17707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1858-1	FS06	Soluble	Solid	DI Leach	
890-1858-2	FS07	Soluble	Solid	DI Leach	
MB 880-17707/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-17707/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-17707/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1857-A-2-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1857-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

#### Analysis Batch: 17737

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1858-1	FS06	Soluble	Solid	300.0	17707
890-1858-2	FS07	Soluble	Solid	300.0	17707
MB 880-17707/1-A	Method Blank	Soluble	Solid	300.0	17707
LCS 880-17707/2-A	Lab Control Sample	Soluble	Solid	300.0	17707
LCSD 880-17707/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	17707
890-1857-A-2-D MS	Matrix Spike	Soluble	Solid	300.0	17707
890-1857-A-2-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	17707

**Eurofins Carlsbad** 

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Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1

SDG: 31403360.003

**Client Sample ID: FS06** 

Client: WSP USA Inc.

Lab Sample ID: 890-1858-1 Date Collected: 01/21/22 10:55

Matrix: Solid

Date Received: 01/21/22 16:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 15:26	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	17749	01/26/22 08:19	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17755	01/26/22 17:26	AJ	XEN MID
Soluble	Leach	DI Leach			5.03 g	50 mL	17707	01/25/22 12:33	CH	XEN MID
Soluble	Analysis	300.0		1			17737	01/27/22 20:59	CH	XEN MID

**Client Sample ID: FS07** Lab Sample ID: 890-1858-2

Matrix: Solid

Date Collected: 01/21/22 11:10 Date Received: 01/21/22 16:46

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17651	01/25/22 07:13	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17652	01/25/22 15:47	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18058	01/28/22 14:15	AJ	XEN MID
Total/NA	Analysis	8015 NM		1			17951	01/27/22 16:10	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	17729	01/25/22 14:20	DM	XEN MID
Total/NA	Analysis	8015B NM		1			17660	01/26/22 06:40	AJ	XEN MID
Soluble	Leach	DI Leach			5.01 g	50 mL	17707	01/25/22 12:33	СН	XEN MID
Soluble	Analysis	300.0		5			17737	01/27/22 21:07	CH	XEN MID

**Laboratory References:** 

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

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# **Accreditation/Certification Summary**

 Client: WSP USA Inc.
 Job ID: 890-1858-1

 Project/Site: East Pecos Federal 22 # 003H
 SDG: 31403360.003

#### **Laboratory: Eurofins Midland**

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

Authority		rogram	Identification Number	Expiration Date	
Texas	N	ELAP	T104704400-21-22	06-30-22	
The following analytes the agency does not of		ut the laboratory is not certifi	ed by the governing authority. This list ma	y include analytes for wh	
Analysis Method	Prep Method	Matrix	Analyte		
8015 NM		Solid	Total TPH		

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# **Method Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1

SDG: 31403360.003

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

#### **Protocol References:**

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

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# Sample Summary

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 # 003H

Job ID: 890-1858-1

SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1858-1	FS06	Solid	01/21/22 10:55	01/21/22 16:46	3
890-1858-2	FS07	Solid	01/21/22 11:10	01/21/22 16:46	3

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Program: UST/PST □PRP □Brownfie	Program:	Company Name WPX Energy	WSP	pany Name: WSP
Work Order Co		Bill to: (if different) Jim Raley	et Manager: Joseph Hernandez	ect Manager:
www.xenco.com	20-2000)	Hobbs,NM (575-392-7550) Phoenix,AZ (480-355-0900) Atlanta,GA (770-449-8800) Tampa,FL (813-620-2000)	Hobbs,NM (5	
		Midland,TX (432-704-5440) EL Paso,TX (915)585-3443 Lubbock,TX (806)794-1296		LA
		Houston,TX (281) 240-4200 Dallas,TX (214) 902-0300 San Antonio,TX (210) 509-3334		X
Work Order No:		Chain of Custody		5

Notice: Signature of this document and relinquishment of samples constitutes a valid purchase order from client company to Xenco, its affiliates and subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75.00 will be enforced unless previously negotiated. Sample Custody Seals: Sampler's Name: Received Intact: Address: Cooler Custody Seals: City, State ZIP: emperature (°C): ncident ID: SAMPLE RECEIPT roject Number: roject Name: Relinquished by: (Signature) Total 200.7 / 6010 Circle Method(s) and Metal(s) to be analyzed Sample identification FS07 FS06 Gilbert Moreno nAPP2123361366 Midland, TX 79705 3300 North A Street 31403360.003 East Pecos Federal 22 #003H 281-702-2329 B 200.8 / 6020: Yes Yes Temp Blank 8 Š 18.0 8 Matrix **₹**(§) S S Sampled Yes Received by: (Signature) 1.21.22 1.21.22 Date Correction Factor: ö Total Containers: NM. OB-8RCRA Thermometer ID TCLP / SPLP 6010: 8RCRA Sampled 10:55 11:10 Time Wet Ice: (Yes Routine Due Date: Rush 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Turn Around Anna.Byers@wsp.com 6 Depth ယ ω State ZIP Ş Number of Containers 51.00 X Sb As Ba Be Cd 5315 Buena Vista Dr Carlsbad, NM 88220 Date/Time TPH (EPA 8015) × BTEX (EPA 0=8021) × × Chloride (EPA 300.0) Cr Co Cu Pb Mn Mo Ni Se Ag TI U Relinquished by: (Signature) ANALYSIS REQUEST Cr Co Cu Fe Pb Mg 890-1858 Chain of Custody Reporting:Level II Level III Deliverables: EDD State of Project: Mn Mo Ni Received by: (Signature) ス Se Ą SiO2 Na Sr Tl Sn U V ₽st/ust ADaPT -|631 / 245.1 / 7470 / 7471 : Hg nfields RRC Comments AP TAT starts the day recevied by lab, if received by 4:30pm Sample Comments PRRP □evel IV Work Order Notes Other: Revised Date 051418 Rev. 2018.1 Superfund Date/Time Zn Fig.

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Eurofins Carlsbad 1089 N Canal St.

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# Chain of Custody Record

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Environment Testing
America

State Zip: **TX**, 79701 Shipping/Receiving Client Information (Sub Contract Lab) Carlsbad, NM 88220 Phone 575-988-3199 Fax 575-988-3199 Sample Identification - Client ID (Lab ID) Midland Eurofins Environment Testing South Centr 1211 W Florida Ave FS07 (890-1858-2) FS06 (890-1858-1) East Pecos Federal 22 # 003H 132-704-5440(Tel) Note: Since laboratory accreditations are subject to change, Eurofins Environment Testing South Central LLC places the ownership of method analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the aboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the Eurofins Environment Testing South Central LLC laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins Environment Testing South Central, LLC attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to Eurofins Environment Testing South Central. LLC. elinquished by mpty Kit Relin ossible Hazard Identification eliverable Requested | II III IV Other (specify) nquished by Custody Seal No Project #: 88000203 Phone TAT Requested (days) Sampler Primary Deliverable Rank 2 Date/Time Sample Date 1/21/22 1/21/22 Mountain 11 10 Mountair Sample Time 10 55 (C=comp G=grab) Sample Type Preservation Code Company Company Company Matrix Solid Solid E-Mail jessica kramer@eurofinset.com Kramer Jessica Lab PM Field Filtered Sample (Yes or No) NELAP - Texas Time. ccreditations Required (See note Perform MS/MSD (Yes or No) 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 Mon 300\_ORGFM\_28D/DI\_LEACH Chloride × × Received by Cooler Temperature(s) °C and Other Remarks: 8015MOD\_NM/8015NM\_S\_Prep Full TPH × × 8021B/5035FP\_Calc BTEX × × × × 8015MOD Calc Analysis Requested D Total\_BTEX\_GCV × Ō State of Origin: New Mexico Carrier Tracking No(s) Method of Shipment: Date/Time J DI Water
K EDTA Total Number of containers 6 A HCL
B NaCH
C Zn Acetate
D Nitric Acid
E NaHSO4
F - MeOH
G Amchlor
H - Ascorbic Acid COC No: 890-597 1 Page 1 of 1 Preservation 890-1858-1 Special Instructions/Note: Ó M - Hexane
N None
O - AsNaO2
P Na2O4S
Q Na2SO3
R Na2SO3
S H2SO4
T TSP Dodecahydrate
U Acetone
V MCAA Company Ver: 06/08/2021 company Months B

# **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1858-1 SDG Number: 31403360.003

Login Number: 1858 List Source: Eurofins Carlsbad

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 Number: 1858

# **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1858-1

SDG Number: 31403360.003

**List Source: Eurofins Midland** List Cr

List Number: 2 Creator: Rodriguez, Leticia

reation:	01/25/22	11:57	AM	

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

<6mm (1/4").

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# **Environment Testing America**

# **ANALYTICAL REPORT**

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

Laboratory Job ID: 890-1877-1

Laboratory Sample Delivery Group: 31403360.003 Client Project/Site: East Pecos Federal 22 #003H

For:

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

Attn: Joseph Hernandez

WRAMER

Authorized for release by: 2/7/2022 1:39:57 PM

Jessica Kramer, Project Manager (432)704-5440

jessica.kramer@eurofinset.com

LINKS .....

Review your project results through

**Have a Question?** 



Visit us at:

www.eurofinsus.com/Env

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

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

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Client: WSP USA Inc. Project/Site: East Pecos Federal 22 #003H Laboratory Job ID: 890-1877-1 SDG: 31403360.003

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#### **Definitions/Glossary**

Client: WSP USA Inc.

Job ID: 890-1877-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

#### **Qualifiers**

<b>GC VOA</b>	
Qualifier	

Quannon	Qualific Boothplion
F1	MS and/or MSD recovery exceeds control limits.
S1-	Surrogate recovery exceeds control limits, low biased.
S1+	Surrogate recovery exceeds control limits, high biased.
U	Indicates the analyte was analyzed for but not detected.

Qualifier Description

#### **GC Semi VOA**

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
S1-	Surrogate recovery exceeds control limits, low 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

DLC

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

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)

Decision Level Concentration (Radiochemistry)

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

NC Not Calculated

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

 NEG
 Negative / Absent

 POS
 Positive / Present

 PQL
 Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

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

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

TNTC Too Numerous To Count

#### **Case Narrative**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1

SDG: 31403360.003

Job ID: 890-1877-1

**Laboratory: Eurofins Carlsbad** 

Narrative

Job Narrative 890-1877-1

#### Receipt

The samples were received on 1/27/2022 8:43 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 1.4°C

#### GC VOA

Method 8021B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 880-17780 and analytical batch 880-17974 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

#### GC Semi VOA

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: (890-1883-A-1-C MS) and (890-1883-A-1-D MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: The matrix spike / matrix spike duplicate / sample duplicate (MS/MSD/DUP) precision for preparation batch 880-18150 and analytical batch 880-18223 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8015MOD\_NM: Surrogate recovery for the following samples were outside control limits: SW07 (890-1877-2), SW08 (890-1877-3), SW09 (890-1877-4), SW01 (890-1877-5), FS01 (890-1877-7), (880-10650-A-21-F), (880-10650-A-21-G MS) and (880-10650-A-21-H MSD). Evidence of matrix interferences is not obvious.

Method 8015MOD NM: Surrogate recovery for the following samples were outside control limits: (880-10698-A-1-C MS) and (880-10698-A-1-D MSD). Evidence of matrix interferences is not obvious.

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

#### HPLC/IC

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18029 and analytical batch 880-18094 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 300 ORGFM 28D: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 880-18214 and analytical batch 880-18520 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

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

Client: WSP USA Inc.

Job ID: 890-1877-1

Project/Site: Fast Peops Federal 22 #003H

SDG: 31403360 003

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Client Sample ID: SW06

Lab Sample ID: 890-1877-1

Date Collected: 01/26/22 09:15

Matrix: Solid

Date Received: 01/27/22 08:43 Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 15:24	
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 15:24	
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 15:24	
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		01/28/22 07:30	01/29/22 15:24	
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 15:24	
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		01/28/22 07:30	01/29/22 15:24	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				01/28/22 07:30	01/29/22 15:24	
1,4-Difluorobenzene (Surr)	105		70 - 130				01/28/22 07:30	01/29/22 15:24	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Method: 8015 NM - Diesel Range	•					_			
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<49.9	U	49.9		mg/Kg			02/01/22 19:05	
Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/31/22 11:10	02/01/22 18:27	
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/22 11:10	02/01/22 18:27	
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/22 11:10	02/01/22 18:27	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
1-Chlorooctane	84		70 - 130				01/31/22 11:10	02/01/22 18:27	
o-Terphenyl	96		70 - 130				01/31/22 11:10	02/01/22 18:27	
Method: 300.0 - Anions, Ion Chro									
Analyte		Qualifier		MDL	Unit mg/Kg	D	Prepared	Analyzed	Dil Fa
Chloride	431							02/01/22 20:20	

Client Sample ID: SW07

Date Collected: 01/26/22 13:30

Lab Sample ID: 890-1877-2

Matrix: Solid

Date Collected: 01/26/22 13:30 Date Received: 01/27/22 08:43

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
Toluene	<0.00202	U	0.00202		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		01/28/22 07:30	01/29/22 15:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	128		70 - 130				01/28/22 07:30	01/29/22 15:44	1

Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Lab Sample ID: 890-1877-2

**Client Sample ID: SW07** Date Collected: 01/26/22 13:30

Date Received: 01/27/22 08:43 Sample Depth: 0 - 4.5

Matrix: Solid

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

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	122	70 - 130	01/28/22 07:30	01/29/22 15:44	1

**Method: Total BTEX - Total BTEX Calculation** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	< 0.00403	U	0.00403		mg/Kg		_	02/02/22 18:08	1

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

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			02/01/22 19:05	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 01:44	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 01:44	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 01:44	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	50	S1-	70 - 130	01/31/22 12	03 02/02/22 01:44	1
o-Terphenyl	62	S1-	70 - 130	01/31/22 12	03 02/02/22 01:44	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte		ualifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Chloride	2030	24.9	mg/Kg			02/01/22 20:27	5

Client Sample ID: SW08 Lab Sample ID: 890-1877-3

Date Collected: 01/26/22 14:00 Date Received: 01/27/22 08:43

Sample Depth: 0 - 4.5

Mothod: 9021D	Volatila Organia	Compounds (GC)
I WIELIIOU. OUZ ID '	• voiatile Organic	Compounds (GC)

		/							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
Toluene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/28/22 07:30	01/29/22 16:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	119		70 - 130				01/28/22 07:30	01/29/22 16:05	1
1,4-Difluorobenzene (Surr)	108		70 - 130				01/28/22 07:30	01/29/22 16:05	1

Mothod:	Total RTFX	. Total RTFX	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		ma/Ka			02/02/22 18:08	1

Method: 8015 NM - Diesel Range Organics (DRO) (GC	2)
motification of the property and organics (Erro) (St	•,

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1

SDG: 31403360.003

**Client Sample ID: SW08** 

Date Collected: 01/26/22 14:00 Date Received: 01/27/22 08:43 Lab Sample ID: 890-1877-3 Matrix: Solid

Sample Depth: 0 - 4.5

Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:05	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:05	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 02:05	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	54	S1-	70 - 130				01/31/22 12:03	02/02/22 02:05	1
o-Terphenyl	68	S1-	70 - 130				01/31/22 12:03	02/02/22 02:05	1
Method: 300.0 - Anions, Ion Chro	matography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	198		5.00		mg/Kg			02/01/22 20:33	1

Lab Sample ID: 890-1877-4 **Client Sample ID: SW09** Date Collected: 01/26/22 15:45 Matrix: Solid

Date Received: 01/27/22 08:43

Sample Depth: 0 - 4.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/29/22 16:25	
Toluene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/29/22 16:25	
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/29/22 16:25	
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		01/28/22 07:30	01/29/22 16:25	
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/29/22 16:25	
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		01/28/22 07:30	01/29/22 16:25	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	112		70 - 130				01/28/22 07:30	01/29/22 16:25	-
1,4-Difluorobenzene (Surr)	103		70 - 130				01/28/22 07:30	01/29/22 16:25	
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total BTEX	<0.00397	U	0.00397		mg/Kg			02/02/22 18:08	
-									
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Method: 8015 NM - Diesel Range Analyte	•	O) (GC) Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
•	•	Qualifier	RL	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/01/22 19:05	
Analyte Total TPH	Result   <50.0	Qualifier U		MDL		<u>D</u>	Prepared		
Analyte	Result <50.0	Qualifier U				<u>D</u>	Prepared Prepared		,
Analyte Total TPH  Method: 8015B NM - Diesel Range	Result <50.0	Qualifier U RO) (GC) Qualifier	50.0		mg/Kg			02/01/22 19:05	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	Result <50.0 e Organics (D Result	Qualifier U  RO) (GC) Qualifier U	50.0		mg/Kg		Prepared	02/01/22 19:05  Analyzed	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10	Result <50.0 e Organics (D Result <50.0	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0		mg/Kg  Unit mg/Kg		Prepared 01/31/22 12:03	02/01/22 19:05  Analyzed  02/02/22 02:28	Dil Fa
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	Result   <50.0	Qualifier U  RO) (GC) Qualifier U	50.0 RL 50.0 50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/31/22 12:03 01/31/22 12:03	02/01/22 19:05  Analyzed 02/02/22 02:28 02/02/22 02:28	Dil Fac
Analyte Total TPH  Method: 8015B NM - Diesel Range Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) Oll Range Organics (Over C28-C36)	Result   <50.0	Qualifier U  RO) (GC) Qualifier U  U	50.0  RL  50.0  50.0  50.0		mg/Kg  Unit mg/Kg  mg/Kg		Prepared 01/31/22 12:03 01/31/22 12:03	02/01/22 19:05  Analyzed 02/02/22 02:28 02/02/22 02:28	Dil Fac

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1

SDG: 31403360.003

**Client Sample ID: SW09** 

Date Collected: 01/26/22 15:45 Date Received: 01/27/22 08:43 Matrix: Solid

Lab Sample ID: 890-1877-4

Sample Depth: 0 - 4.5

Method: 300.0 - Anions, Ion Chrom	atography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	366		4.95		mg/Kg			02/03/22 17:10	1

Client Sample ID: SW01

Date Collected: 01/26/22 10:50

Lab Sample ID: 890-1877-5

Matrix: Solid

Date Collected: 01/26/22 10:50 Date Received: 01/27/22 08:43

Sample Depth: 0 - 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:46	
Toluene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:46	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:46	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/28/22 07:30	01/29/22 16:46	
o-Xylene	<0.00199	U	0.00199		mg/Kg		01/28/22 07:30	01/29/22 16:46	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/28/22 07:30	01/29/22 16:46	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	114		70 - 130				01/28/22 07:30	01/29/22 16:46	
1,4-Difluorobenzene (Surr)	79		70 - 130				01/28/22 07:30	01/29/22 16:46	
Method: Total BTEX - Total BTE	( Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/22 18:08	
Method: 8015 NM - Diesel Range	Organics (DD)	o) (GC)							
Analyte	•	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	-
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Analyte			50.0		mg/Kg		01/31/22 12:03	02/02/22 02:50	
Gasoline Range Organics	<50.0	U	30.0						
Analyte Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over	<50.0 <50.0		50.0		mg/Kg		01/31/22 12:03	02/02/22 02:50	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over					mg/Kg		01/31/22 12:03	02/02/22 02:50	•
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)		U			mg/Kg mg/Kg		01/31/22 12:03 01/31/22 12:03	02/02/22 02:50 02/02/22 02:50	
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28) OII Range Organics (Over C28-C36)	<50.0	U	50.0						Dil Fac
Gasoline Range Organics (GRO)-C6-C10 Diesel Range Organics (Over C10-C28)	<50.0 <50.0	U U	50.0 50.0				01/31/22 12:03	02/02/22 02:50	,

**Eurofins Carlsbad** 

Analyzed

02/03/22 17:22

RL

24.8

Result Qualifier

470 F1

MDL Unit

mg/Kg

D

Prepared

Dil Fac

Analyte

Chloride

Client: WSP USA Inc. Job ID: 890-1877-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

Lab Sample ID: 890-1877-6 **Client Sample ID: SW02** Date Collected: 01/26/22 10:55 Matrix: Solid

Date Received: 01/27/22 08:43
Sample Depth: 0 - 3
Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/29/22 17:06	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)			70 - 130				01/28/22 07:30	01/29/22 17:06	1
1,4-Difluorobenzene (Surr)	97		70 - 130				01/28/22 07:30	01/29/22 17:06	1
- Method: Total BTEX - Total BT	EX Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		mg/Kg			02/02/22 18:08	1
- Method: 8015 NM - Diesel Ran	ge Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<50.0	U	50.0		mg/Kg			02/01/22 19:05	1
Method: 8015B NM - Diesel Ra	inge Organics (Di	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:11	1

Method: 8015B NM - Diesel Rang	je Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:11	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:11	1
C10-C28)									
Oll Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/31/22 12:03	02/02/22 03:11	1
o-Terphenyl	89		70 - 130				01/31/22 12:03	02/02/22 03:11	1

Method: 300.0 - Anions, Ion Chromatography - Soluble								
	Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
	Chloride	477	25.1	mg/Kg			02/03/22 17:58	5

**Client Sample ID: FS01** Lab Sample ID: 890-1877-7

Date Collected: 01/26/22 09:10 Date Received: 01/27/22 08:43

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00201	U	0.00201		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
Toluene	<0.00201	U	0.00201		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
Ethylbenzene	<0.00201	U	0.00201		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
m-Xylene & p-Xylene	<0.00402	U	0.00402		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
o-Xylene	<0.00201	U	0.00201		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
Xylenes, Total	<0.00402	U	0.00402		mg/Kg		01/28/22 07:30	01/28/22 21:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	150	S1+	70 - 130				01/28/22 07:30	01/28/22 21:12	1

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: WSP USA Inc. Job ID: 890-1877-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

**Client Sample ID: FS01** Lab Sample ID: 890-1877-7 Date Collected: 01/26/22 09:10 Matrix: Solid

Date Received: 01/27/22 08:43 Sample Depth: 3

Method: 8021B - Volatile Organic Compounds	(GC) (Continued)
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Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Difluorobenzene (Surr)	109	70 - 130	01/28/22 07:30	01/28/22 21:12	1

Mathad:	Total	RTFY.	. Total	RTEY	Calculation

Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00402	U	0.00402	mg/Kg			02/02/22 18:08	1

Г	
Mathad, OOAE NIM	Discal Dance Oversion (DDO) (CC)

Analyte		alifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9 U	49.9	ma/Ka			02/01/22 19:05	1

Method: 8015B	NM - Diesel	Range Ore	anice l	(DRO)	(GC)
Methou. ou isb	IAIN - DIESEI	Range Org	janics i	(DRU)	(GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 03:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 03:33	1
OII Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/22 12:03	02/02/22 03:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	67	S1-	70 - 130	01/31/22 12:03	02/02/22 03:33	1
o-Terphenyl	85		70 - 130	01/31/22 12:03	02/02/22 03:33	1

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	418		25.2		mg/Kg			02/03/22 18:09	5

**Client Sample ID: FS02** Lab Sample ID: 890-1877-8 Matrix: Solid

Date Collected: 01/26/22 09:15 Date Received: 01/27/22 08:43

Sample Depth: 3

Method: 8021B -	Volatilo C	raanic C	omnounde	(CC)
I WELLIOU. OUZ ID .	VUIALITE C	n uaiiic u	Ullibuullus	1001

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/28/22 21:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	155	S1+	70 - 130				01/28/22 07:30	01/28/22 21:40	1
1,4-Difluorobenzene (Surr)	112		70 - 130				01/28/22 07:30	01/28/22 21:40	1

Mothod:	Total	RTFY.	. Total	RTFY	Calculation

Analyte	Result	Qualifier	RL	MDL	Unit	כ	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00400	U	0.00400		ma/Ka			02/02/22 18:08	1

Analyte		Result	Qualifier	RL	MDL	Unit	)	Prepared	Analyzed	Dil Fac
Total TPH		<50.0	U	50.0		mg/Kg			02/01/22 19:05	1

Client: WSP USA Inc. Job ID: 890-1877-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

**Client Sample ID: FS02** Lab Sample ID: 890-1877-8 Date Collected: 01/26/22 09:15 Matrix: Solid

Date Received: 01/27/22 08:43 Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:55	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:55	1
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/02/22 03:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	73		70 - 130				01/31/22 12:03	02/02/22 03:55	1
o-Terphenyl	90		70 - 130				01/31/22 12:03	02/02/22 03:55	1
Method: 300.0 - Anions, Ion Chro	omatography -	Soluble							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
, <b></b>									

**Client Sample ID: FS03** Lab Sample ID: 890-1877-9 Date Collected: 01/26/22 09:20 Matrix: Solid

Date Received: 01/27/22 08:43

Sample Depth: 3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
Toluene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		01/28/22 07:30	01/28/22 22:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	14	S1-	70 - 130				01/28/22 07:30	01/28/22 22:08	1
1,4-Difluorobenzene (Surr)	103		70 - 130				01/28/22 07:30	01/28/22 22:08	1
Method: Total BTEX - Total BTEX	Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00396	U	0.00396		mg/Kg			02/02/22 18:08	1
Method: 8015 NM - Diesel Range	Organics (DR	O) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total TPH	<49.9	U	49.9		mg/Kg			02/01/22 19:05	1
Method: 8015B NM - Diesel Rang	e Organics (D	RO) (GC)							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		01/31/22 15:06	02/02/22 16:33	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		01/31/22 15:06	02/02/22 16:33	1
Oll Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		01/31/22 15:06	02/02/22 16:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1-Chlorooctane	71		70 - 130				01/31/22 15:06	02/02/22 16:33	1
o-Terphenyl	77		70 <sub>-</sub> 130				01/31/22 15:06	02/02/22 16:33	1

Client: WSP USA Inc. Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

**Client Sample ID: FS03** 

Date Collected: 01/26/22 09:20 Date Received: 01/27/22 08:43

Sample Depth: 3

Lab Sample ID: 890-1877-9

Matrix: Solid

Job ID: 890-1877-1

Method: 300.0 - Anions, Ion Chromatography - Soluble											
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
	Chloride	318		25.0		mg/Kg			02/03/22 18:57	5	

Lab Sample ID: 890-1877-10 **Client Sample ID: FS04** Matrix: Solid

Date Collected: 01/26/22 09:25

Date Received: 01/27/22 08:43

Method: 8021B - Volatile Organic	c Compounds (	GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Benzene	<0.00199	U	0.00199		mg/Kg		01/28/22 12:00	01/28/22 22:36	
Toluene	0.00348		0.00199		mg/Kg		01/28/22 12:00	01/28/22 22:36	
Ethylbenzene	< 0.00199	U	0.00199		mg/Kg		01/28/22 12:00	01/28/22 22:36	
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		01/28/22 12:00	01/28/22 22:36	
o-Xylene	< 0.00199	U	0.00199		mg/Kg		01/28/22 12:00	01/28/22 22:36	
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		01/28/22 12:00	01/28/22 22:36	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	145	S1+	70 - 130				01/28/22 12:00	01/28/22 22:36	
1,4-Difluorobenzene (Surr)	104		70 - 130				01/28/22 12:00	01/28/22 22:36	1
Method: Total BTEX - Total BTEX	K Calculation								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total BTEX	<0.00398	U	0.00398		mg/Kg			02/02/22 18:08	1
Method: 8015 NM - Diesel Range Analyte Total TPH		Qualifier	<b>RL</b> 50.0	MDL	Unit mg/Kg	<u>D</u>	Prepared	Analyzed 02/01/22 19:05	Dil Fac
Method: 8015B NM - Diesel Rang	ge Organics (D	RO) (GC)							
Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 16:55	1
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 16:55	1
C10-C28)									
· ·	<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 16:55	•
· ·	<50.0		50.0 <i>Limits</i>		mg/Kg		01/31/22 15:06  Prepared	02/02/22 16:55  Analyzed	
OII Range Organics (Over C28-C36)					mg/Kg				Dil Fac
	%Recovery		Limits		mg/Kg		Prepared	Analyzed	Dil Fa
Oll Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane	%Recovery 75 81	Qualifier	Limits 70 - 130		mg/Kg		Prepared 01/31/22 15:06	Analyzed 02/02/22 16:55	Dil Fac
Oll Range Organics (Over C28-C36)  Surrogate  1-Chlorooctane o-Terphenyl	%Recovery 75 81  omatography -	Qualifier	Limits 70 - 130	MDL	mg/Kg Unit	D	Prepared 01/31/22 15:06	Analyzed 02/02/22 16:55	Dil Fac

# **Surrogate Summary**

 Client: WSP USA Inc.
 Job ID: 890-1877-1

 Project/Site: East Pecos Federal 22 #003H
 SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid Prep Type: Total/NA

880-10650-A-21-B MSD	Client Sample ID Matrix Spike Duplicate Matrix Spike Matrix Spike Matrix Spike Matrix Spike Duplicate SW06 SW07 SW08	BFB1 (70-130) 136 S1+ 127 135 S1+ 117 112 128	111 101 117 113 105	
880-10650-A-21-B MSD	Matrix Spike Duplicate Matrix Spike Matrix Spike Matrix Spike Matrix Spike Duplicate SW06 SW07 SW08	127 135 S1+ 117 112	101 117 113 105	
880-10651-A-1-A MS	Matrix Spike Matrix Spike Duplicate SW06 SW07 SW08	135 S1+ 117 112	117 113 105	
880-10651-A-1-B MSD	Matrix Spike Duplicate SW06 SW07 SW08	117 112	113 105	
890-1877-1 \$ 890-1877-2 \$ 890-1877-3 \$ 890-1877-4 \$ 8	SW06 SW07 SW08	112	105	
890-1877-2 \$ 890-1877-3 \$ 890-1877-4 \$	SW07 SW08			
390-1877-3 \$ 390-1877-4 \$	SW08	128	400	
390-1877-4			122	
	21400	119	108	
890-1877-5	SW09	112	103	
	SW01	114	79	
890-1877-6	SW02	116	97	
890-1877-7 F	FS01	150 S1+	109	
890-1877-8 F	S02	155 S1+	112	
390-1877-9 F	S03	14 S1-	103	
890-1877-10 F	S04	145 S1+	104	
LCS 880-17780/1-A	ab Control Sample	100	96	
LCS 880-17925/1-A L	ab Control Sample	127	112	
LCSD 880-17925/2-A	ab Control Sample Dup	131 S1+	107	
MB 880-17780/5-A	Method Blank	100	89	
MB 880-17873/5-A	Method Blank	86	99	
MB 880-17924/5-A	Method Blank	106	104	
MB 880-17925/5-A	Method Blank	88	96	

DFBZ = 1,4-Difluorobenzene (Surr)

### 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			
LCSD 880-17780/2-A	Lab Control Sample Dup			
Surrogate Legend				
BFB = 4-Bromofluorobe	nzene (Surr)			
DFBZ = 1,4-Difluoroben	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)	
880-10650-A-21-G MS	Matrix Spike	57 S1-	62 S1-	
880-10650-A-21-H MSD	Matrix Spike Duplicate	63 S1-	69 S1-	
880-10698-A-1-C MS	Matrix Spike	66 S1-	64 S1-	
880-10698-A-1-D MSD	Matrix Spike Duplicate	66 S1-	66 S1-	
890-1877-1	SW06	84	96	
890-1877-2	SW07	50 S1-	62 S1-	
890-1877-3	SW08	54 S1-	68 S1-	

# **Surrogate Summary**

Client: WSP USA Inc. Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

**Matrix: Solid** Prep Type: Total/NA

				Percent Surrogate Recovery (Acceptance Limits)
		1001	OTPH1	
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	
890-1877-4	SW09	61 S1-	77	
890-1877-5	SW01	67 S1-	84	
890-1877-6	SW02	71	89	
890-1877-7	FS01	67 S1-	85	
890-1877-8	FS02	73	90	
890-1877-9	FS03	71	77	
890-1877-10	FS04	75	81	
890-1883-A-1-C MS	Matrix Spike	69 S1-	69 S1-	
890-1883-A-1-D MSD	Matrix Spike Duplicate	69 S1-	70	
LCS 880-18143/2-A	Lab Control Sample	90	96	
LCS 880-18150/2-A	Lab Control Sample	73	83	
LCS 880-18190/2-A	Lab Control Sample	94	96	
LCSD 880-18143/3-A	Lab Control Sample Dup	89	93	
LCSD 880-18150/3-A	Lab Control Sample Dup	74	82	
LCSD 880-18190/3-A	Lab Control Sample Dup	92	92	
MB 880-18143/1-A	Method Blank	82	97	
MB 880-18150/1-A	Method Blank	75	96	
MB 880-18190/1-A	Method Blank	74	82	

1CO = 1-Chlorooctane OTPH = o-Terphenyl

Client: WSP USA Inc.

Job ID: 890-1877-1

SDG: 31403360.003

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-17780/5-A

Lab Sample ID: LCS 880-17780/1-A

**Matrix: Solid** 

Analysis Batch: 17974

Project/Site: East Pecos Federal 22 #003H

**Matrix: Solid** Analysis Batch: 17974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17780

	IVID	IVID							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/28/22 07:30	01/29/22 09:13	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/28/22 07:30	01/29/22 09:13	1

MB MB

MD MD

Surrogate	%Recovery	Qualifier	Limits	F	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	100		70 - 130	01/2	28/22 07:30	01/29/22 09:13	1
1,4-Difluorobenzene (Surr)	89		70 - 130	01/2	28/22 07:30	01/29/22 09:13	1

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 17780

LCS LCS Spike Analyte Added Result Qualifier Unit %Rec Limits Benzene 0.100 0.08241 mg/Kg 82 70 - 130 Toluene 0.100 0.07814 mg/Kg 78 70 - 130 0.100 0.07885 79 Ethylbenzene mg/Kg 70 - 130 0.200 0.1592 70 - 130 m-Xylene & p-Xylene mg/Kg 80 0.100 0.07992 70 - 130 o-Xylene mg/Kg

LCS LCS

Surrogate	%Recovery Q	ualifier)	Limits
4-Bromofluorobenzene (Surr)	100		70 - 130
1,4-Difluorobenzene (Surr)	96		70 - 130

Lab Sample ID: LCSD 880-17780/2-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

Analysis Batch: 17974

Prep Type: Total/NA Prep Batch: 17780

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.08258		mg/Kg					
Toluene	0.100	0.07681		mg/Kg					
Ethylbenzene	0.100	0.07922		mg/Kg					
m-Xylene & p-Xylene	0.200	0.1589		mg/Kg					
o-Xylene	0.100	0.08096		mg/Kg					

LCSD LCSD

%Recovery Qualifier Limits Surrogate

4-Bromofluorobenzene (Surr)

1,4-Difluorobenzene (Surr)

Lab Sample ID: 880-10650-A-21-B MSD

**Matrix: Solid** 

Analysis Batch: 17974

Client Sample	D:	Matrix	Spike	Duplicate

Prep Type: Total/NA

Prep Batch: 17780

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00198	U F1	0.101	0.03187	F1	mg/Kg		30	70 - 130	34	35
Toluene	<0.00198	U F1	0.101	0.03177	F1	mg/Kg		31	70 - 130	29	35

**Eurofins Carlsbad** 

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### QC Sample Results

Client: WSP USA Inc. Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

Lab Sample ID: 880-10650-A-21-B MSD **Matrix: Solid** 

Lab Sample ID: 880-10650-A-21-D MS

Analysis Batch: 17974

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 17780

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Ethylbenzene	0.00285	F1	0.101	0.03048	F1	mg/Kg		27	70 - 130	8	35
m-Xylene & p-Xylene	<0.00396	U F1	0.202	0.08105	F1	mg/Kg		40	70 - 130	11	35
o-Xylene	<0.00198	U F1	0.101	0.04490	F1	mg/Kg		44	70 - 130	17	35

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	136	S1+	70 - 130
1,4-Difluorobenzene (Surr)	111		70 - 130

Client Sample ID: Matrix Spike

Prep Type: Total/NA

Prep Batch: 17780

Sample Sample Spike MS MS %Rec. Result Qualifier Added Result Qualifier %Rec Limits Analyte Unit 0.0994 Benzene <0.00198 UF1 0.02272 F1 mg/Kg 21 70 - 130 Toluene 0.0994 43 70 - 130 <0.00198 UF1 0.04247 F1 mg/Kg Ethylbenzene 0.00285 F1 0.0994 0.03298 F1 mg/Kg 30 70 - 130 m-Xylene & p-Xylene <0.00396 UF1 0.199 0.09046 F1 46 70 - 130 mg/Kg 0.0994 o-Xylene <0.00198 U F1 0.05351 F1 54 70 - 130 mg/Kg

MS MS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 - 130
1,4-Difluorobenzene (Surr)	101	70 - 130

Lab Sample ID: MB 880-17873/5-A

**Matrix: Solid** 

**Matrix: Solid** 

**Analysis Batch: 17974** 

Analysis Batch: 17866

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17873

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Toluene	<0.00200	U	0.00200		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		01/27/22 08:57	01/28/22 04:03	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		01/27/22 08:57	01/28/22 04:03	1

MB MB

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	d Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		70 - 130	01/27/22 08	3:57 01/28/22 04:03	1
1,4-Difluorobenzene (Surr)	99		70 - 130	01/27/22 08	3:57 01/28/22 04:03	1

Lab Sample ID: MB 880-17924/5-A

**Matrix: Solid** 

Analysis Batch: 17974

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17924

	IVID	IVID						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 22:18	1
Toluene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 22:18	1
Ethylbenzene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 22:18	1
m-Xylene & p-Xylene	<0.00400	U	0.00400	mg/Kg		01/28/22 07:30	01/28/22 22:18	1

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1

SDG: 31403360.003

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

Lab Sample ID: MB 880-17924/5-A

**Matrix: Solid** 

Analysis Batch: 17974

**Analysis Batch: 17866** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 17924

	1110	IVID						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
o-Xylene	<0.00200	U	0.00200	mg/Kg		01/28/22 07:30	01/28/22 22:18	1
Xylenes, Total	<0.00400	U	0.00400	mg/Kg		01/28/22 07:30	01/28/22 22:18	1

MR MR

MR MR

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		70 - 130	01/28/22 07:30	01/28/22 22:18	1
1,4-Difluorobenzene (Surr)	104		70 - 130	01/28/22 07:30	01/28/22 22:18	1

Client Sample ID: Method Blank

Lab Sample ID: MB 880-17925/5-A **Matrix: Solid** Prep Type: Total/NA

Prep Batch: 17925

мв мв Analyte Result Qualifier MDL Unit Prepared Analyzed Dil Fac Benzene <0.00200 U 0.00200 mg/Kg 01/28/22 07:30 01/28/22 20:16 Toluene <0.00200 U 0.00200 mg/Kg 01/28/22 07:30 01/28/22 20:16 0.00200 01/28/22 07:30 01/28/22 20:16 Ethylbenzene <0.00200 U mg/Kg m-Xylene & p-Xylene <0.00400 U 0.00400 01/28/22 07:30 01/28/22 20:16 mg/Kg <0.00200 U 0.00200 01/28/22 07:30 01/28/22 20:16 o-Xylene mg/Kg <0.00400 U 01/28/22 20:16 Xylenes, Total 0.00400 01/28/22 07:30 mg/Kg

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		70 - 130	01/28/22 07:	30 01/28/22 20:16	1
1,4-Difluorobenzene (Surr)	96		70 - 130	01/28/22 07:	30 01/28/22 20:16	1

Lab Sample ID: LCS 880-17925/1-A

**Matrix: Solid** 

Analysis Batch: 17866

**Client Sample ID: Lab Control Sample** 

Prep Type: Total/NA

Prep Batch: 17925

Spike	LCS	LUS				%Rec.	
Added	Result	Qualifier	Unit	D	%Rec	Limits	
0.100	0.1153		mg/Kg		115	70 - 130	
0.100	0.09498		mg/Kg		95	70 - 130	
0.100	0.09455		mg/Kg		95	70 - 130	
0.200	0.2078		mg/Kg		104	70 - 130	
0.100	0.1102		mg/Kg		110	70 - 130	
	0.100 0.100 0.100 0.100 0.200	Added         Result           0.100         0.1153           0.100         0.09498           0.100         0.09455           0.200         0.2078	Added         Result         Qualifier           0.100         0.1153           0.100         0.09498           0.100         0.09455           0.200         0.2078	Added         Result         Qualifier         Unit           0.100         0.1153         mg/Kg           0.100         0.09498         mg/Kg           0.100         0.09455         mg/Kg           0.200         0.2078         mg/Kg	Added         Result         Qualifier         Unit         D           0.100         0.1153         mg/Kg           0.100         0.09498         mg/Kg           0.100         0.09455         mg/Kg           0.200         0.2078         mg/Kg	Added         Result         Qualifier         Unit         D         %Rec           0.100         0.1153         mg/Kg         115           0.100         0.09498         mg/Kg         95           0.100         0.09455         mg/Kg         95           0.200         0.2078         mg/Kg         104	Added         Result         Qualifier         Unit         D         %Rec         Limits           0.100         0.1153         mg/Kg         115         70 - 130           0.100         0.09498         mg/Kg         95         70 - 130           0.100         0.09455         mg/Kg         95         70 - 130           0.200         0.2078         mg/Kg         104         70 - 130

LCS LCS

Surrogate	%Recovery Qualifier	Limits
4-Bromofluorobenzene (Surr)	127	70 _ 130
1,4-Difluorobenzene (Surr)	112	70 - 130

Lab Sample ID: LCSD 880-17925/2-A

**Matrix: Solid** 

Analysis Batch: 17866

Client	Sample	ID: I ah	Control	Sample	Dun

Prep Type: Total/NA

Prep Batch: 17925

-	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	0.100	0.1157		mg/Kg		116	70 - 130	0	35
Toluene	0.100	0.09650		mg/Kg		96	70 - 130	2	35
Ethylbenzene	0.100	0.09352		mg/Kg		94	70 - 130	1	35
m-Xylene & p-Xylene	0.200	0.2054		mg/Kg		103	70 - 130	1	35
o-Xylene	0.100	0.1096		mg/Kg		110	70 - 130	0	35

### **QC Sample Results**

Client: WSP USA Inc. Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

Prep Type: Total/NA

Prep Batch: 17925

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

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	131	S1+	70 - 130
1,4-Difluorobenzene (Surr)	107		70 - 130

Lab Sample ID: 880-10651-A-1-A MS Client Sample ID: Matrix Spike

**Matrix: Solid** 

Analysis Batch: 17866

	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Benzene	<0.00199	U	0.0990	0.08894		mg/Kg		90	70 - 130	
Toluene	< 0.00199	U F1	0.0990	0.07379		mg/Kg		75	70 - 130	
Ethylbenzene	< 0.00199	U F1	0.0990	0.06806	F1	mg/Kg		69	70 - 130	
m-Xylene & p-Xylene	<0.00398	U	0.198	0.1464		mg/Kg		73	70 - 130	
o-Xylene	<0.00199	U	0.0990	0.08143		mg/Kg		82	70 - 130	

MS MS Surrogate %Recovery Qualifier Limits 4-Bromofluorobenzene (Surr) 135 S1+ 70 - 130 1,4-Difluorobenzene (Surr) 117 70 - 130

Lab Sample ID: 880-10651-A-1-B MSD

**Matrix: Solid** 

**Analysis Batch: 17866** 

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

Prep Batch: 17925

, and the second	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Benzene	<0.00199	U	0.0998	0.07131		mg/Kg		71	70 - 130	22	35
Toluene	<0.00199	U F1	0.0998	0.06243	F1	mg/Kg		63	70 - 130	17	35
Ethylbenzene	<0.00199	U F1	0.0998	0.06749	F1	mg/Kg		68	70 - 130	1	35
m-Xylene & p-Xylene	<0.00398	U	0.200	0.1469		mg/Kg		73	70 - 130	0	35
o-Xylene	<0.00199	U	0.0998	0.07642		mg/Kg		77	70 - 130	6	35

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	117		70 - 130
1,4-Difluorobenzene (Surr)	113		70 - 130

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

Lab Sample ID: MB 880-18143/1-A

**Matrix: Solid** 

**Analysis Batch: 18225** 

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 18143

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	Ū	50.0		mg/Kg		01/31/22 11:10	02/01/22 09:23	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		01/31/22 11:10	02/01/22 09:23	1
Oll Range Organics (Over C28-C	<50.0	U	50.0		mg/Kg		01/31/22 11:10	02/01/22 09:23	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	82		70 - 130	01/31/22 11:10	02/01/22 09:23	1
o-Terphenyl	97		70 - 130	01/31/22 11:10	02/01/22 09:23	1

Client: WSP USA Inc. Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

Prep Type: Total/NA

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

Lab Sample ID: LCS 880-18143/2-A **Client Sample ID: Lab Control Sample Matrix: Solid** Prep Type: Total/NA Analysis Batch: 18225 Prep Batch: 18143

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	846.8		mg/Kg		85	70 - 130	
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1190		mg/Kg		119	70 - 130	
C10-C28)								

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 90 o-Terphenyl 96 70 - 130

Lab Sample ID: LCSD 880-18143/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 18225** 

Diesel Range Organics (Over

Prep Batch: 18143 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 926.5 93 70 - 130 9 Gasoline Range Organics mg/Kg (GRO)-C6-C10

1204

mg/Kg

120

70 - 130

1000

C10-C28)

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	89		70 - 130
o-Terphenyl	93		70 - 130

Lab Sample ID: 890-1883-A-1-C MS Client Sample ID: Matrix Spike Prep Type: Total/NA

**Matrix: Solid** 

**Analysis Batch: 18225** 

Prep Batch: 18143 Sample Sample Spike MS MS %Rec. Added Analyte Result Qualifier Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U 999 851.8 83 70 - 130 mg/Kg (GRO)-C6-C10 <49.9 U 999 970.6 95 70 - 130 Diesel Range Organics (Over mg/Kg

C10-C28)

	IVIS	IVIS	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130
o-Terphenyl	69	S1-	70 - 130

Lab Sample ID: 890-1883-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 18225									Prep	Batch:	18143
	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	999	967.9		mg/Kg		95	70 - 130	13	20
Diesel Range Organics (Over	<49.9	U	999	999.6		mg/Kg		98	70 - 130	3	20

C10-C28)

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	69	S1-	70 - 130

**Eurofins Carlsbad** 

Prep Type: Total/NA

Client: WSP USA Inc. Job ID: 890-1877-1

Project/Site: East Pecos Federal 22 #003H SDG: 31403360.003

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

MSD MSD

Lab Sample ID: 890-1883-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

**Analysis Batch: 18225** 

Prep Type: Total/NA

Prep Batch: 18143

Surrogate %Recovery Qualifier

Limits o-Terphenyl 70 70 - 130

Lab Sample ID: MB 880-18150/1-A

**Matrix: Solid** 

**Analysis Batch: 18223** 

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 18150

	MB	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/01/22 19:10	1
(GRO)-C6-C10									
Diesel Range Organics (Over	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/01/22 19:10	1
C10-C28)									
OII Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		01/31/22 12:03	02/01/22 19:10	1

мв мв

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	75		70 - 130	01/31/22 12:0	3 02/01/22 19:10	1
o-Terphenyl	96		70 - 130	01/31/22 12:0	3 02/01/22 19:10	1

Lab Sample ID: LCS 880-18150/2-A Client Sample ID: Lab Control Sample

**Matrix: Solid** 

**Analysis Batch: 18223** 

Prep Type: Total/NA

Prep Batch: 18150

	Spike	LCS	LCS				%Rec.
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
Gasoline Range Organics	1000	774.4		mg/Kg		77	70 - 130
(GRO)-C6-C10							
Diesel Range Organics (Over	1000	919.4		mg/Kg		92	70 - 130
C10-C28)							

C10-C28)

LCS LCS %Recovery Qualifier Limits Surrogate 70 - 130 1-Chlorooctane 73 o-Terphenyl 83 70 - 130

Lab Sample ID: LCSD 880-18150/3-A Client Sample ID: Lab Control Sample Dup

**Matrix: Solid** 

**Analysis Batch: 18223** 

Prep Type: Total/NA

Prep Batch: 18150

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
Gasoline Range Organics	1000	802.4		mg/Kg		80	70 - 130	4	20	
(GRO)-C6-C10										
Diesel Range Organics (Over	1000	942.2		mg/Kg		94	70 - 130	2	20	
C10-C28)										

LCSD LCSD

Surrogate	%Recovery Quali	fier Limits
1-Chlorooctane	74	70 - 130
o-Terphenyl	82	70 - 130

Client: WSP USA Inc.

Job ID: 890-1877-1

SDG: 31403360.003

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

Lab Sample ID: 880-10650-A-21-G MS

Lab Sample ID: 880-10650-A-21-H MSD

Project/Site: East Pecos Federal 22 #003H

**Matrix: Solid Analysis Batch: 18223**  Client Sample ID: Matrix Spike

Prep Type: Total/NA Prep Batch: 18150

Sample Sample Spike MS MS Result Qualifier Analyte Added Result Qualifier Unit %Rec Limits Gasoline Range Organics <49.9 U F2 999 796.0 mg/Kg 75 70 - 130 (GRO)-C6-C10 999 Diesel Range Organics (Over <49.9 U 875.1 mg/Kg 86 70 - 130

C10-C28)

MS MS

Surrogate	%Recovery	Qualifier	Limits		
1-Chlorooctane	57	S1-	70 - 130		
o-Terphenyl	62	S1-	70 - 130		

Client Sample ID: Matrix Spike Duplicate

Prep Type: Total/NA

Prep Batch: 18150

**Analysis Batch: 18223** Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit D %Rec Limits **RPD** Limit <49.9 U F2 999 1038 F2 70 - 130 Gasoline Range Organics mg/Kg 99 26 20 (GRO)-C6-C10 Diesel Range Organics (Over <49.9 U 999 975.4 mg/Kg 96 70 - 130 11 20

C10-C28)

**Matrix: Solid** 

MSD MSD %Recovery Qualifier Limits Surrogate 1-Chlorooctane 63 S1-70 - 130 o-Terphenyl 69 S1-70 - 130

Lab Sample ID: MB 880-18190/1-A

**Matrix: Solid** 

**Analysis Batch: 18339** 

Client Sample ID: Method Blank

Prep Type: Total/NA Prep Batch: 18190

мв мв

Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 11:37	1
<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 11:37	1
<50.0	U	50.0		mg/Kg		01/31/22 15:06	02/02/22 11:37	1
	<50.0 <50.0	Result   Qualifier   U	<50.0 U 50.0 <50.0	<50.0 U 50.0 <50.0	<50.0 U 50.0 mg/Kg <50.0 U 50.0 mg/Kg	<50.0 U 50.0 mg/Kg <50.0 U 50.0 mg/Kg	<50.0	<50.0 U

MB MB

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1-Chlorooctane	74		70 - 130	01/31/22 15:06	02/02/22 11:37	1
o-Terphenyl	82		70 - 130	01/31/22 15:06	02/02/22 11:37	1

Lab Sample ID: LCS 880-18190/2-A

**Matrix: Solid** 

**Analysis Batch: 18339** 

Client Sample ID: Lab Control S	Sample
---------------------------------	--------

Prep Type: Total/NA

Prep Batch: 18190

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Gasoline Range Organics	1000	870.1		mg/Kg		87	70 - 130	 
(GRO)-C6-C10								
Diesel Range Organics (Over	1000	1097		mg/Kg		110	70 - 130	
C10-C28)								

Client: WSP USA Inc. Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

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

Lab Sample ID: LCS 880-18190/2-A

**Matrix: Solid** 

Lab Sample ID: LCSD 880-18190/3-A

Analysis Batch: 18339

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

Prep Batch: 18190

LCS LCS Surrogate %Recovery Qualifier Limits 1-Chlorooctane 94 70 - 130 o-Terphenyl 96 70 - 130

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 18190

Analysis Batch: 18339 Spike LCSD LCSD %Rec. RPD Analyte Added Result Qualifier Unit D %Rec Limits **RPD** Limit 1000 842.4 84 70 - 130 3 20 Gasoline Range Organics mg/Kg (GRO)-C6-C10 Diesel Range Organics (Over 1000 1061 106 mg/Kg 70 - 1303 20

C10-C28)

**Matrix: Solid** 

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

Client Sample ID: Matrix Spike Lab Sample ID: 880-10698-A-1-C MS

Matrix: Solid

**Analysis Batch: 18339** 

Prep Type: Total/NA

Prep Batch: 18190

	Sample	Sample	Spike	MS	MS				%Rec.		
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits		
Gasoline Range Organics	<49.9	U	999	776.3		mg/Kg		78	70 - 130		-
(GRO)-C6-C10											
Diesel Range Organics (Over	<49.9	U	999	887.8		mg/Kg		87	70 - 130		
C10-C28)											

C10-C28)

MS MS %Recovery Qualifier Surrogate Limits 70 - 130 1-Chlorooctane 66 S1-64 S1o-Terphenyl 70 - 130

Lab Sample ID: 880-10698-A-1-D MSD Client Sample ID: Matrix Spike Duplicate

**Matrix: Solid** 

Analysis Batch: 18339

Prep Type: Total/NA

Prep Batch: 18190

	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Gasoline Range Organics	<49.9	U	999	750.2		mg/Kg		75	70 - 130	3	20
(GRO)-C6-C10	<b>~10.0</b>		000	024 5		m a /// a		01	70 120	4	20
Diesel Range Organics (Over C10-C28)	<49.9	U	999	924.5		mg/Kg		91	70 - 130	4	20

	MSD	MSD	
Surrogate	%Recovery	Qualifier	Limits
1-Chlorooctane	66	S1-	70 - 130
o-Terphenyl	66	S1-	70 - 130

Client: WSP USA Inc. Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

**Prep Type: Soluble** 

Client Sample ID: Method Blank

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-18029/1-A

**Matrix: Solid** 

Analysis Batch: 18094

MB MB

Analyte Result Qualifier RLMDL Unit D Prepared Analyzed Dil Fac Chloride <5.00 U 5.00 mg/Kg 02/01/22 17:20

Lab Sample ID: LCS 880-18029/2-A Client Sample ID: Lab Control Sample **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 18094** 

Spike LCS LCS %Rec. Added Analyte Result Qualifier Unit D %Rec Limits Chloride 250 231.6 mg/Kg 93 90 - 110

Lab Sample ID: LCSD 880-18029/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 18094** 

LCSD LCSD %Rec. RPD Spike Analyte Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 250 261.3 mg/Kg 105 90 - 110

Lab Sample ID: 890-1870-A-3-D MS Client Sample ID: Matrix Spike **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 18094** 

Sample Sample MS MS Spike %Rec. Result Qualifier Added Analyte Result Qualifier Unit %Rec Limits Chloride 76.3 250 327.6 101 90 - 110 mg/Kg

Lab Sample ID: 890-1870-A-3-E MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble** 

**Matrix: Solid** 

Analysis Batch: 18094

Sample Sample Spike MSD MSD %Rec. RPD Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit 76.3 F1 293.2 F1 Chloride 250 mg/Kg 87 90 - 110

Lab Sample ID: 890-1876-A-6-C MS Client Sample ID: Matrix Spike **Matrix: Solid Prep Type: Soluble** 

**Analysis Batch: 18094** 

Sample Spike MS MS %Rec. Sample Result Qualifier Added Analyte Result Qualifier Unit D %Rec Limits Chloride 2420 F1 1240 3559 mg/Kg 90 - 110

Lab Sample ID: 890-1876-A-6-D MSD Client Sample ID: Matrix Spike Duplicate **Prep Type: Soluble** 

**Matrix: Solid** 

**Analysis Batch: 18094** 

MSD MSD %Rec. RPD Sample Sample Spike Result Qualifier Added Result Qualifier Limits RPD Limit Analyte Unit D %Rec Chloride 2420 F1 1240 3183 F1 mg/Kg 62 90 - 110

Lab Sample ID: MB 880-18214/1-A Client Sample ID: Method Blank

**Matrix: Solid** 

**Analysis Batch: 18520** 

Released to Imaging: 3/16/2022 1:23:43 PM

MB MB Analyte Result Qualifier RL MDL Unit D Prepared Analyzed Dil Fac Chloride 5.00 <5.00 mg/Kg 02/03/22 13:00

**Eurofins Carlsbad** 

**Prep Type: Soluble** 

### QC Sample Results

Job ID: 890-1877-1 Client: WSP USA Inc. Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

Client Sample ID: SW01

**Prep Type: Soluble** 

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: LCS 880-18214/2-A **Client Sample ID: Lab Control Sample Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 18520

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Chloride 250 254.8 mg/Kg 102 90 - 110

Lab Sample ID: LCSD 880-18214/3-A Client Sample ID: Lab Control Sample Dup **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 18520

Spike LCSD LCSD %Rec. RPD Added Result Qualifier Unit RPD Limit Analyte D %Rec Limits Chloride 250 249.1 mg/Kg 100

Lab Sample ID: 890-1877-5 MS Client Sample ID: SW01 **Matrix: Solid Prep Type: Soluble** 

Analysis Batch: 18520

MS MS %Rec. Sample Sample Spike Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits Chloride 470 F1 1240 1775 105 90 - 110 mg/Kg

Lab Sample ID: 890-1877-5 MSD

**Matrix: Solid** 

**Analysis Batch: 18520** 

Spike MSD MSD %Rec. RPD Sample Sample Analyte Result Qualifier Added Result Qualifier Unit %Rec Limits RPD Limit Chloride 470 F1 1240 1895 F1 115 90 - 110 20 mg/Kg

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1 SDG: 31403360.003

GC VOA

Prep Batch: 17780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batcl
890-1877-1	SW06	Total/NA	Solid	5035	
890-1877-2	SW07	Total/NA	Solid	5035	
890-1877-3	SW08	Total/NA	Solid	5035	
890-1877-4	SW09	Total/NA	Solid	5035	
890-1877-5	SW01	Total/NA	Solid	5035	
890-1877-6	SW02	Total/NA	Solid	5035	
MB 880-17780/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17780/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17780/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10650-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	
880-10650-A-21-D MS	Matrix Spike	Total/NA	Solid	5035	

Analysis Batch: 17866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-7	FS01	Total/NA	Solid	8021B	17925
890-1877-8	FS02	Total/NA	Solid	8021B	17925
890-1877-9	FS03	Total/NA	Solid	8021B	17925
890-1877-10	FS04	Total/NA	Solid	8021B	17925
MB 880-17873/5-A	Method Blank	Total/NA	Solid	8021B	17873
MB 880-17925/5-A	Method Blank	Total/NA	Solid	8021B	17925
LCS 880-17925/1-A	Lab Control Sample	Total/NA	Solid	8021B	17925
LCSD 880-17925/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17925
880-10651-A-1-A MS	Matrix Spike	Total/NA	Solid	8021B	17925
880-10651-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17925

Prep Batch: 17873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17873/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17924

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-17924/5-A	Method Blank	Total/NA	Solid	5035	

Prep Batch: 17925

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-7	FS01	Total/NA	Solid	5035	
890-1877-8	FS02	Total/NA	Solid	5035	
890-1877-9	FS03	Total/NA	Solid	5035	
890-1877-10	FS04	Total/NA	Solid	5035	
MB 880-17925/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-17925/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-17925/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	
880-10651-A-1-A MS	Matrix Spike	Total/NA	Solid	5035	
880-10651-A-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	5035	

Analysis Batch: 17974

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	8021B	17780
890-1877-2	SW07	Total/NA	Solid	8021B	17780
890-1877-3	SW08	Total/NA	Solid	8021B	17780
890-1877-4	SW09	Total/NA	Solid	8021B	17780

 Client: WSP USA Inc.
 Job ID: 890-1877-1

 Project/Site: East Pecos Federal 22 #003H
 SDG: 31403360.003

**GC VOA (Continued)** 

### **Analysis Batch: 17974 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-5	SW01	Total/NA	Solid	8021B	17780
890-1877-6	SW02	Total/NA	Solid	8021B	17780
MB 880-17780/5-A	Method Blank	Total/NA	Solid	8021B	17780
MB 880-17924/5-A	Method Blank	Total/NA	Solid	8021B	17924
LCS 880-17780/1-A	Lab Control Sample	Total/NA	Solid	8021B	17780
LCSD 880-17780/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	17780
880-10650-A-21-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8021B	17780
880-10650-A-21-D MS	Matrix Spike	Total/NA	Solid	8021B	17780

### Analysis Batch: 18428

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	Total BTEX	-
890-1877-2	SW07	Total/NA	Solid	Total BTEX	
890-1877-3	SW08	Total/NA	Solid	Total BTEX	
890-1877-4	SW09	Total/NA	Solid	Total BTEX	
890-1877-5	SW01	Total/NA	Solid	Total BTEX	
890-1877-6	SW02	Total/NA	Solid	Total BTEX	
890-1877-7	FS01	Total/NA	Solid	Total BTEX	
890-1877-8	FS02	Total/NA	Solid	Total BTEX	
890-1877-9	FS03	Total/NA	Solid	Total BTEX	
890-1877-10	FS04	Total/NA	Solid	Total BTEX	

### **GC Semi VOA**

### Prep Batch: 18143

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	8015NM Prep	
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### Prep Batch: 18150

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-2	SW07	Total/NA	Solid	8015NM Prep	
890-1877-3	SW08	Total/NA	Solid	8015NM Prep	
890-1877-4	SW09	Total/NA	Solid	8015NM Prep	
890-1877-5	SW01	Total/NA	Solid	8015NM Prep	
890-1877-6	SW02	Total/NA	Solid	8015NM Prep	
890-1877-7	FS01	Total/NA	Solid	8015NM Prep	
890-1877-8	FS02	Total/NA	Solid	8015NM Prep	
MB 880-18150/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18150/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18150/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10650-A-21-G MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10650-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### Prep Batch: 18190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-9	FS03	Total/NA	Solid	8015NM Prep	

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1

SDG: 31403360.003

### **GC Semi VOA (Continued)**

### Prep Batch: 18190 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-10	FS04	Total/NA	Solid	8015NM Prep	
MB 880-18190/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-18190/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-18190/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	
880-10698-A-1-C MS	Matrix Spike	Total/NA	Solid	8015NM Prep	
880-10698-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015NM Prep	

### **Analysis Batch: 18223**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-2	SW07	Total/NA	Solid	8015B NM	18150
890-1877-3	SW08	Total/NA	Solid	8015B NM	18150
890-1877-4	SW09	Total/NA	Solid	8015B NM	18150
890-1877-5	SW01	Total/NA	Solid	8015B NM	18150
890-1877-6	SW02	Total/NA	Solid	8015B NM	18150
890-1877-7	FS01	Total/NA	Solid	8015B NM	18150
890-1877-8	FS02	Total/NA	Solid	8015B NM	18150
MB 880-18150/1-A	Method Blank	Total/NA	Solid	8015B NM	18150
LCS 880-18150/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18150
LCSD 880-18150/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18150
880-10650-A-21-G MS	Matrix Spike	Total/NA	Solid	8015B NM	18150
880-10650-A-21-H MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18150

### Analysis Batch: 18225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	8015B NM	18143
MB 880-18143/1-A	Method Blank	Total/NA	Solid	8015B NM	18143
LCS 880-18143/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18143
LCSD 880-18143/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18143
890-1883-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	18143
890-1883-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18143

### Analysis Batch: 18327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Total/NA	Solid	8015 NM	
890-1877-2	SW07	Total/NA	Solid	8015 NM	
890-1877-3	SW08	Total/NA	Solid	8015 NM	
890-1877-4	SW09	Total/NA	Solid	8015 NM	
890-1877-5	SW01	Total/NA	Solid	8015 NM	
890-1877-6	SW02	Total/NA	Solid	8015 NM	
890-1877-7	FS01	Total/NA	Solid	8015 NM	
890-1877-8	FS02	Total/NA	Solid	8015 NM	
890-1877-9	FS03	Total/NA	Solid	8015 NM	
890-1877-10	FS04	Total/NA	Solid	8015 NM	
880-10637-A-115 MS	Matrix Spike	Total/NA	Solid	8015 NM	
880-10637-A-115 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015 NM	

### Analysis Batch: 18339

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-9	FS03	Total/NA	Solid	8015B NM	18190
890-1877-10	FS04	Total/NA	Solid	8015B NM	18190
MB 880-18190/1-A	Method Blank	Total/NA	Solid	8015B NM	18190

 Client: WSP USA Inc.
 Job ID: 890-1877-1

 Project/Site: East Pecos Federal 22 #003H
 SDG: 31403360.003

**GC Semi VOA (Continued)** 

### **Analysis Batch: 18339 (Continued)**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 880-18190/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	18190
LCSD 880-18190/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	18190
880-10698-A-1-C MS	Matrix Spike	Total/NA	Solid	8015B NM	18190
880-10698-A-1-D MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B NM	18190

### **HPLC/IC**

### Leach Batch: 18029

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Soluble	Solid	DI Leach	
890-1877-2	SW07	Soluble	Solid	DI Leach	
890-1877-3	SW08	Soluble	Solid	DI Leach	
MB 880-18029/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1870-A-3-D MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1870-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	
890-1876-A-6-C MS	Matrix Spike	Soluble	Solid	DI Leach	
890-1876-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	DI Leach	

### Analysis Batch: 18094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-1	SW06	Soluble	Solid	300.0	18029
890-1877-2	SW07	Soluble	Solid	300.0	18029
890-1877-3	SW08	Soluble	Solid	300.0	18029
MB 880-18029/1-A	Method Blank	Soluble	Solid	300.0	18029
LCS 880-18029/2-A	Lab Control Sample	Soluble	Solid	300.0	18029
LCSD 880-18029/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18029
890-1870-A-3-D MS	Matrix Spike	Soluble	Solid	300.0	18029
890-1870-A-3-E MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18029
890-1876-A-6-C MS	Matrix Spike	Soluble	Solid	300.0	18029
890-1876-A-6-D MSD	Matrix Spike Duplicate	Soluble	Solid	300.0	18029

#### Leach Batch: 18214

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-4	SW09	Soluble	Solid	DI Leach	
890-1877-5	SW01	Soluble	Solid	DI Leach	
890-1877-6	SW02	Soluble	Solid	DI Leach	
890-1877-7	FS01	Soluble	Solid	DI Leach	
890-1877-8	FS02	Soluble	Solid	DI Leach	
890-1877-9	FS03	Soluble	Solid	DI Leach	
890-1877-10	FS04	Soluble	Solid	DI Leach	
MB 880-18214/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-18214/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-18214/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-1877-5 MS	SW01	Soluble	Solid	DI Leach	
890-1877-5 MSD	SW01	Soluble	Solid	DI Leach	

### Analysis Batch: 18520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-4	SW09	Soluble	Solid	300.0	18214

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Client: WSP USA Inc. Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

### **HPLC/IC (Continued)**

### Analysis Batch: 18520 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-1877-5	SW01	Soluble	Solid	300.0	18214
890-1877-6	SW02	Soluble	Solid	300.0	18214
890-1877-7	FS01	Soluble	Solid	300.0	18214
890-1877-8	FS02	Soluble	Solid	300.0	18214
890-1877-9	FS03	Soluble	Solid	300.0	18214
890-1877-10	FS04	Soluble	Solid	300.0	18214
MB 880-18214/1-A	Method Blank	Soluble	Solid	300.0	18214
LCS 880-18214/2-A	Lab Control Sample	Soluble	Solid	300.0	18214
LCSD 880-18214/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	18214
890-1877-5 MS	SW01	Soluble	Solid	300.0	18214
890-1877-5 MSD	SW01	Soluble	Solid	300.0	18214

Job ID: 890-1877-1

Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

**Client Sample ID: SW06** Date Collected: 01/26/22 09:15 Date Received: 01/27/22 08:43

Lab Sample ID: 890-1877-1

Matrix: Solid

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.01 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 15:24	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.02 g	10 mL	18143	01/31/22 11:10	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18225	02/01/22 18:27	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		5			18094	02/01/22 20:20	CH	XEN MID

**Client Sample ID: SW07** Lab Sample ID: 890-1877-2

Date Collected: 01/26/22 13:30

Matrix: Solid

Date Received: 01/27/22 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.96 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 15:44	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 01:44	AJ	XEN MID
Soluble	Leach	DI Leach			5.02 g	50 mL	18029	01/28/22 10:48	CH	XEN MID

**Client Sample ID: SW08** Lab Sample ID: 890-1877-3 Date Collected: 01/26/22 14:00

18094

02/01/22 20:27 CH

5

Date Received: 01/27/22 08:43

Analysis

300.0

Soluble

**Matrix: Solid** 

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 16:05	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 02:05	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18029	01/28/22 10:48	CH	XEN MID
Soluble	Analysis	300.0		1			18094	02/01/22 20:33	CH	XEN MID

**Client Sample ID: SW09** Lab Sample ID: 890-1877-4

Date Collected: 01/26/22 15:45 Date Received: 01/27/22 08:43 **Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.04 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 16:25	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID

Client: WSP USA Inc.

Job ID: 890-1877-1 Project/Site: East Pecos Federal 22 #003H

SDG: 31403360.003

**Client Sample ID: SW09** 

Lab Sample ID: 890-1877-4

Matrix: Solid

Date Collected: 01/26/22 15:45 Date Received: 01/27/22 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 02:28	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		1			18520	02/03/22 17:10	CH	XEN MID

Lab Sample ID: 890-1877-5

**Matrix: Solid** 

Date Collected: 01/26/22 10:50 Date Received: 01/27/22 08:43

**Client Sample ID: SW01** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.02 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 16:46	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.00 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 02:50	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 17:22	CH	XEN MID

**Client Sample ID: SW02** Lab Sample ID: 890-1877-6

Date Collected: 01/26/22 10:55 **Matrix: Solid** Date Received: 01/27/22 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.00 g	5 mL	17780	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17974	01/29/22 17:06	KL	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18150	01/31/22 12:03	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18223	02/02/22 03:11	AJ	XEN MID
Soluble	Leach	DI Leach			4.99 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 17:58	CH	XEN MID

**Client Sample ID: FS01** Lab Sample ID: 890-1877-7

Date Collected: 01/26/22 09:10 Date Received: 01/27/22 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.97 g	5 mL	17925	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/28/22 21:12	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA Total/NA	Prep Analysis	8015NM Prep 8015B NM		1	10.03 g	10 mL	18150 18223	01/31/22 12:03 02/02/22 03:33	DM AJ	XEN MID XEN MID

**Eurofins Carlsbad** 

**Matrix: Solid** 

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1

SDG: 31403360.003

**Client Sample ID: FS01** 

Date Collected: 01/26/22 09:10 Date Received: 01/27/22 08:43

Lab Sample ID: 890-1877-7

**Matrix: Solid** 

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Soluble	Leach	DI Leach			4.97 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 18:09	CH	XEN MID

**Client Sample ID: FS02** Lab Sample ID: 890-1877-8

Date Collected: 01/26/22 09:15 Date Received: 01/27/22 08:43

02/02/22 03:55

01/31/22 18:49

02/03/22 18:45

AJ

SC

CH

18223

18214

18520

50 mL

Matrix: Solid

Batch Batch Dil Initial Final Batch Prepared **Prep Type** Туре Method Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA 5035 5.00 g 17925 01/28/22 07:30 KL XEN MID Prep 5 mL Total/NA 8021B 5 mL 5 mL 01/28/22 21:40 MR XEN MID Analysis 1 17866 Total/NA Total BTEX 18428 02/02/22 18:08 KL XEN MID Analysis 1 Total/NA Analysis 8015 NM 18327 02/01/22 19:05 AJ XEN MID Total/NA XEN MID Prep 8015NM Prep 10.01 g 10 mL 18150 01/31/22 12:03 DM

**Client Sample ID: FS03** Lab Sample ID: 890-1877-9

1

5 g

Date Collected: 01/26/22 09:20 Date Received: 01/27/22 08:43

Analysis

Analysis

Leach

Total/NA

Soluble

Soluble

8015B NM

DI Leach

300.0

**Matrix: Solid** 

XEN MID

XEN MID

XEN MID

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.05 g	5 mL	17925	01/28/22 07:30	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/28/22 22:08	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.03 g	10 mL	18190	01/31/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18339	02/02/22 16:33	AJ	XEN MID
Soluble	Leach	DI Leach			5 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		5			18520	02/03/22 18:57	CH	XEN MID

**Client Sample ID: FS04** Lab Sample ID: 890-1877-10

Date Collected: 01/26/22 09:25 Date Received: 01/27/22 08:43

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.03 g	5 mL	17925	01/28/22 12:00	KL	XEN MID
Total/NA	Analysis	8021B		1	5 mL	5 mL	17866	01/28/22 22:36	MR	XEN MID
Total/NA	Analysis	Total BTEX		1			18428	02/02/22 18:08	KL	XEN MID
Total/NA	Analysis	8015 NM		1			18327	02/01/22 19:05	AJ	XEN MID
Total/NA	Prep	8015NM Prep			10.01 g	10 mL	18190	01/31/22 15:06	DM	XEN MID
Total/NA	Analysis	8015B NM		1			18339	02/02/22 16:55	AJ	XEN MID
Soluble	Leach	DI Leach			5.05 g	50 mL	18214	01/31/22 18:49	SC	XEN MID
Soluble	Analysis	300.0		1			18520	02/03/22 19:09	CH	XEN MID

**Eurofins Carlsbad** 

Released to Imaging: 3/16/2022 1:23:43 PM

**Matrix: Solid** 

### Lab Chronicle

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1 SDG: 31403360.003

Laboratory References:

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

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# **Accreditation/Certification Summary**

 Client: WSP USA Inc.
 Job ID: 890-1877-1

 Project/Site: East Pecos Federal 22 #003H
 SDG: 31403360.003

### **Laboratory: Eurofins Midland**

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

Authority	Pr	ogram	Identification Number	Expiration Date 06-30-22		
Texas	NE	ELAP	T104704400-21-22			
The following analytes	are included in this report hi	it the laboratory is not certific	ed by the governing authority. This list ma	av include analytes for		
the agency does not of	· '	it the laboratory is not certific	ed by the governing additionty. This list the	ay include analytes for		
0 ,	· '	Matrix	Analyte	ay ilicidde allaiytes loi		
the agency does not of	fer certification.	,	, , ,			

# **Method Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1

SDG: 31403360.003

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XEN MID
Total BTEX	Total BTEX Calculation	TAL SOP	XEN MID
8015 NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XEN MID
300.0	Anions, Ion Chromatography	MCAWW	XEN MID
5035	Closed System Purge and Trap	SW846	XEN MID
3015NM Prep	Microextraction	SW846	XEN MID
DI Leach	Deionized Water Leaching Procedure	ASTM	XEN MID

#### **Protocol References:**

ASTM = ASTM International

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

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

#### Laboratory References:

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

**Eurofins Carlsbad** 

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# **Sample Summary**

Client: WSP USA Inc.

Project/Site: East Pecos Federal 22 #003H

Job ID: 890-1877-1

SDG: 31403360.003

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Depth
890-1877-1	SW06	Solid	01/26/22 09:15	01/27/22 08:43	0 - 4.5
890-1877-2	SW07	Solid	01/26/22 13:30	01/27/22 08:43	0 - 4.5
890-1877-3	SW08	Solid	01/26/22 14:00	01/27/22 08:43	0 - 4.5
890-1877-4	SW09	Solid	01/26/22 15:45	01/27/22 08:43	0 - 4.5
890-1877-5	SW01	Solid	01/26/22 10:50	01/27/22 08:43	0 - 3
890-1877-6	SW02	Solid	01/26/22 10:55	01/27/22 08:43	0 - 3
890-1877-7	FS01	Solid	01/26/22 09:10	01/27/22 08:43	3
890-1877-8	FS02	Solid	01/26/22 09:15	01/27/22 08:43	3
890-1877-9	FS03	Solid	01/26/22 09:20	01/27/22 08:43	3
890-1877-10	FS04	Solid	01/26/22 09:25	01/27/22 08:43	3

	00	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 subcontractors. It assigns standard terms and conditions of service. Xenco will be liable only for the cost of samples and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the control of Xenco. A minimum charge of \$75,00 will be applied to each project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated.	Circle Method	Total 200.7 / 6010	FS09	FS03	FS02	FS01	SW02	SW01	SW09	80/WS	SW07	SW06	Sample Identification	Sample Custody Seals	Cooler Custody Seals:	Received Intact:	Temperature (°C):	SAMPLE RECEIPT	Sampler's Name:	Incident ID:	Project Number:	Project Name:	Phone	City, State ZIP:	Address:	Company Name:	Project Manager	LAE LAE	
	- Cul	: (Signature)	document and relinque liable only for the coarge of \$75.00 will be	Circle Method(s) and Metal(s) to be analyzed	010 200.8 / 6020:	9	3	2	1	12	)1	)9	)8	)7	)6	tification	ils: Yes No		·γes	1.4.		Gilbert Moreno	nAPP2123361366	31403360.003	East Pecos Federal 22 #003H	281-702-2329	Midland, TX 79705	3300 North A Street	WSP	Joseph Hernandez	ORATOR:	
			st of sample applied to	to be ana	020:	S	S	S	S	S	S	S	S	S	S	Matrix		1	lz	t	Temp Blank:		366		eral 22 #		705	treet		dez	้ง	
	ce Cu	Received t	samples consti	alyzed	81	1.26.22	1.26.22	1.26.22	1.26.22	1.26.22	1.26.22	1.26.22	1.26.22	1.26.22	1.26.22	Date Sampled	Total	Correc	1		(Yes) No				003Н						Hobbs	
+	1	Received by: (Signature)	tutes a valid pu assume any red d a charge of \$5	TCLP / SPLP 6010: 8RCRA	8RCRA 13PPM	9:25	9:20	9:15	9:10	10:55	10:50	15:45	14:00	13:30	9:15	Time Sampled	Total Containers:	Correction Factor:	100-m	Thermometer ID	Wet Ice:	Due Date	Rush	Routine	Tur	Email					Chain of Custory  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)	
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# **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1877-1

SDG Number: 31403360.003

List Source: Eurofins Carlsbad

Login Number: 1877 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	N/A	

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### **Login Sample Receipt Checklist**

Client: WSP USA Inc.

Job Number: 890-1877-1 SDG Number: 31403360.003

List Source: Eurofins Midland

List Creation: 01/28/22 12:32 PM

Login Number: 1877 List Number: 2

Creator: Rodriguez, Leticia

Question Answer Comment The cooler's custody seal, if present, is intact. N/A Sample custody seals, if present, are intact. N/A The cooler or samples do not appear to have been compromised or True tampered with. Samples were received on ice. True True Cooler Temperature is acceptable. 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 True HTs) 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 True MS/MSDs Containers requiring zero headspace have no headspace or bubble is N/A

**Eurofins Carlsbad** 

<6mm (1/4").

# Moreno, Gilbert

From: Byers, Anna

**Sent:** Monday, March 7, 2022 1:13 PM

**To:** Moreno, Gilbert

**Subject:** Fwd: Updated WPX Site Activities for Week Ending January 14, 2022

### Get Outlook for iOS

From: Byers, Anna

Sent: Tuesday, January 11, 2022 11:20:44 AM

To: ocd.enviro@state.nm.us <ocd.enviro@state.nm.us>

Cc: Raley, Jim <Jim.Raley@dvn.com>; Hernandez, Joseph <Joe.Hernandez@wsp.com>

Subject: Updated WPX Site Activities for Week Ending January 14, 2022

#### Good morning,

WPX anticipates completing final sampling activities at the following sites during Jan 13<sup>th</sup> and 14<sup>th</sup>, 2022:

#### **WSP**

Site: RDX Federal Com 17 #026H

API: 30-015-42752

Incident ID: napp2134444397 Release Date: 12/07/2021

Site: East Pecos Federal 22 #003H

API: 30-015-42285

Incident ID: nAPP2123361366

Release Date: 8/21/2021

Site: RDX FEDERAL 28 #012

API: 30-015-42110

Incident Number: nAPP2124531124

Release Date: 8/30/2021

WPX anticipates completing a liner inspection for the following site on 1/13/2022.

#### **WSP**

Site: East Pecos Federal Com 22 #014H

API: 30-015-43586

Incident Number: nAPP2200729617

Release Date: 1/03/2022

# Moreno, Gilbert

From: Byers, Anna

**Sent:** Monday, March 7, 2022 1:13 PM

**To:** Moreno, Gilbert

**Subject:** Fwd: WPX Final Sampling Notification through Week Ending January 21, 2022

### Get Outlook for iOS

From: Byers, Anna

Sent: Tuesday, January 18, 2022 4:14:51 PM

To: ocd.enviro@state.nm.us <ocd.enviro@state.nm.us>

**Cc:** Hernandez, Joseph <Joe.Hernandez@wsp.com>; Raley, Jim <Jim.Raley@dvn.com> **Subject:** WPX Final Sampling Notification through Week Ending January 21, 2022

### Good morning,

WPX anticipates completing final sampling activities at the following sites during Jan 20th and 21th, 2022:

#### **WSP**

Site: RDX 17 Federal Com #006H

API: 30-015-39308

Incident ID: NRM2019548894

Release Date: 07/05/2020

Site: East Pecos Federal 22 #003H

API: 30-015-42285

Incident ID: nAPP2123361366

Release Date: 8/21/2021

Thank you,

#### **Anna Byers**

Consultant, Geologist Please note the new email address.



# Moreno, Gilbert

From: Byers, Anna

**Sent:** Monday, March 7, 2022 1:13 PM

**To:** Moreno, Gilbert

**Subject:** Fwd: WPX Final Sampling Notification through Week Ending January 28, 2022

### Get Outlook for iOS

From: Byers, Anna

Sent: Friday, January 21, 2022 11:16:39 AM

To: ocd.enviro@state.nm.us <ocd.enviro@state.nm.us>

**Cc:** Raley, Jim <Jim.Raley@dvn.com>; Hernandez, Joseph <Joe.Hernandez@wsp.com> **Subject:** WPX Final Sampling Notification through Week Ending January 28, 2022

### Good morning,

WPX anticipates completing final sampling activities at the following sites during Jan 25th and 28th, 2022:

#### **WSP**

Site: RDX 17 Federal Com #006H

API: 30-015-39308

Incident ID: NRM2019548894

Release Date: 07/05/2020

Site: East Pecos Federal 22 #003H

API: 30-015-42285

Incident ID: nAPP2123361366

Release Date: 8/21/2021

Thank you,

#### **Anna Byers**

Consultant, Geologist Please note the new email address.



From: <u>Hamlet, Robert, EMNRD</u>

To: Raley, Jim

Cc: Byers, Anna; Hernandez, Joseph; Bratcher, Mike, EMNRD; Hensley, Chad, EMNRD; Velez, Nelson, EMNRD; Nobui,

Jennifer, EMNRD

Subject: [EXTERNAL] (Extension Denied) - East Pecos 22-3H - nAPP2123361366

Date: Tuesday, February 15, 2022 10:38:11 AM

Attachments: <u>image003.png</u>

#### RE: Incident #NAPP2123361366

#### Jim,

An extension for this release has already been granted. Your request for another extension is **denied**. **Devon** will have 30 days to submit a remediation/closure plan to the payment portal. Please include this e-mail correspondence in the remediation and/or closure report.

Robert Hamlet • Environmental Specialist - Advanced

Environmental Bureau
EMNRD - Oil Conservation Division
811 S. First Street | Artesia, NM 88210
575.909.0302 | robert.hamlet@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raley, Jim < Jim.Raley@dvn.com>
Sent: Monday, February 14, 2022 3:21 PM

To: Hamlet, Robert, EMNRD < Robert. Hamlet@state.nm.us>

**Cc:** Byers, Anna <Anna.Byers@wsp.com>; Hernandez, Joseph <Joe.Hernandez@wsp.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Hensley, Chad, EMNRD <Chad.Hensley@state.nm.us>; Velez, Nelson, EMNRD <Nelson.Velez@state.nm.us>

Subject: RE: [EXTERNAL] (Extension Approval) - East Pecos 22-3H - nAPP2123361366

#### Robert,

WPX Energy would like to request a 30 day extension to March 17<sup>th</sup>, 2022 to complete documentation for a remediation plan proposal.

Incident# nAPP2123361366 - (East Pecos 22-3H) - API: 30-015-42285. This spill occurred on August 21<sup>st</sup>, 2021 releasing (25bbls PW/ 10 Oil to pad surface)

We have completed a majority of the excavation and soil removal on this location. However, we would like additional time to complete documentation for an alternative remediation plan on a

portion of the excavation.

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



From: Hamlet, Robert, EMNRD < <a href="mailto:Robert.Hamlet@state.nm.us">Robert.Hamlet@state.nm.us</a>>

Sent: Monday, November 8, 2021 11:17 AM

**To:** Raley, Jim < <u>Jim.Raley@dvn.com</u>>

**Cc:** Byers, Anna <<u>Anna.Byers@wsp.com</u>>; Hernandez, Joseph <<u>Joe.Hernandez@wsp.com</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>; Velez, Nelson, EMNRD <<u>Nelson.Velez@state.nm.us</u>>

**Subject:** [EXTERNAL] (Extension Approval) - East Pecos 22-3H - nAPP2123361366

RE: Incident #NAPP2123361366

Jim,

Your request for an extension to **February 17th, 2022** is approved.

Robert Hamlet ● Environmental Specialist - Advanced Environmental Bureau EMNRD - Oil Conservation Division 811 S. First Street | Artesia, NM 88210 575.909.0302 | robert.hamlet@state.nm.us http://www.emnrd.state.nm.us/OCD/



**From:** Raley, Jim < <u>Jim.Raley@dvn.com</u>>

Sent: Monday, November 8, 2021 10:30 AM

To: Hamlet, Robert, EMNRD <<u>Robert.Hamlet@state.nm.us</u>>; Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Hensley, Chad, EMNRD <<u>Chad.Hensley@state.nm.us</u>>
Cc: Byers, Anna <<u>Anna.Byers@wsp.com</u>>; Hernandez, Joseph <<u>Joe.Hernandez@wsp.com</u>>

Subject: [EXTERNAL] Extension Request - East Pecos 22-3H - nAPP2123361366

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NMOCD District II Staff,

WPX Energy (Devon) would like to request a 90 day extension till **February 17<sup>th</sup>**, **2022**, for (Incident# nAPP2123361366) at the East Pecos 22-3H (30-015-42285). The incident occurred on August 21<sup>st</sup>, 2021 and was a release of 35 bbls to pad surface, of which 27 bbls was recovered.

We have already excavated approx. 1' of soil from the pad surface and fully delineated the vertical and horizontal boundaries. We are seeking an extension so as to complete the excavation and submit a closure report .

Jim Raley | Environmental Professional - Permian Basin 5315 Buena Vista Dr., Carlsbad, NM 88220 C: (575)689-7597 | jim.raley@dvn.com



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

CONDITIONS

Action 89900

### **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	89900
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By		Condition Date
jnobui	None	3/16/2022